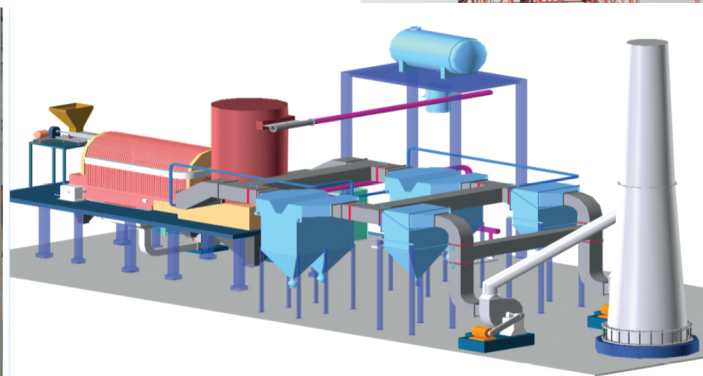
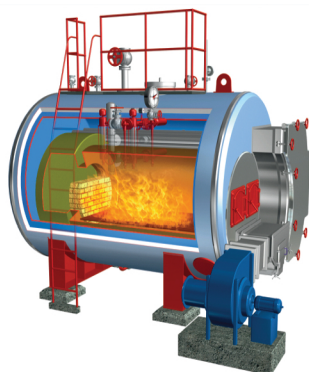




HELIOS ENTERPRISES



Services We Offer

Engineering to Execution for all Types of Boilers and Thermic Fluid Heaters Covering

- ◆ Design
- ◆ Consultancy
- ◆ Supply
- ◆ Retrofit
- ◆ Repair
- ◆ Optimization

BUSINESS PROFILE

Helios Enterprises is started by Ekram Mazhar an engineer from one of the premier National Institute and having served Thermax Limited and Forbes Marshall, leading boiler & heater companies in the field of Boilers and Thermic fluid heaters and having an experience of more than two decades in Design, Engineering, Manufacturing, Operation, Project Management and Quality Systems of Boiler, Heaters, Steam & Combustion Systems with sound practical experience gained through execution of quantum of projects. Our passion is to help our customers right from engineering to execution and offer them complete end to end solution. The core team lies with a highly motivated group of engineers involved in design, detail engineering, project execution, commissioning & after sales support.

OUR SERVICES:

Helios Enterprises is complete engineering to execution solution for boilers/heaters and we do design, engineering, manufacturing, supply, installation, repair retrofit, spares, AMC, and O&M for the same.

- Supply of any type/any fuel boiler/heater/hot water generator/hot air generator including solid fuel, oil & gas fuel & electric.
- To build your own customised boiler / thermic fluid heater system as per your requirement in a very economical way with same performance standard as offered by big OEM's to you.
- Supply of boiler accessories like Burner, Chimney, Calorifier, HRU, Radiator, Air Pre-Heater, Water Pre-Heater, Mechanical Dust collector, Cyclomax, Bag Filter, Wet Scrubber, ESP, Deaerator, Expansion tank, Water Softener, Chemical Dosing, ID/FD Fans etc.
- Supply of any type of IBR replacement items right from boiler tubes/ economiser tubes/ membrane panel/ In bed coils/ steam drum/ water drums/convective coils/ radiant coils etc for your any type/ any make boilers.
- Electrical, Control panel and boiler/industrial automation including PLC, DCS, SCADA.
- Steam and Process control products including Water Level gauges, Feed Check Valves, Blow Down Valves, Steam Injector, Fusible Plug, Piston Valves, Bellow Sealed Stop Valves, Moisture Separators, Disc Check Valves, Strainers, Sight Glass, Electric & Pneumatic Actuated Valves, Pressure Reducing Valves, Pressure Control Valves, Automatic Blowdown Control, Temperature Control Valves & Safety Valves, Traps, PRS, PRDS, Vortex Flow Meters, Electromagnetic Flow Meter, Condensate Recovery Pumping Skids.
- Boiler efficiency monitoring system including oxygen analyzers and flowmeters.
- Genuine Boiler/Heater/Process Spares: Any make/Any Type.
- Boiler/ Heater commissioning and project management services.
- Boiler heater system HAZOP study and analysis.
- Boiler regular health check-up and uptime analysis.
- Design/Drawing/Engineering for boiler/heater system including Boiler, Heater, Pressure Vessels/Tank, Balance of plant.
- Business Productivity Enhancement tool in terms of TracBiz App which can reduce the sales completion time by 50%.





OUR VALUES

The enterprise upholds the following values as a guideline to its operation and business transactions:

- Commitment ■ Customer Value
- Teamwork ■ Professionalism
- Flexibility / Adaptability
- Social Responsibility



MISSION STATEMENT

To help customers build a safe, efficient, reliable, manageable and affordable engineering system for their process that establishes a foundation for their business objectives.



OBJECTIVE

Our objectives are to assist clients with various implementations of their projects, and we have confidence in our ability and commitments necessary to succeed.

We are prepared to stand behind our recommendations and to assist our clients with obtaining the necessary results.



OUR RANGE OF BOILER / HEATER / PROCESS PRODUCTS...

- Solid Fuel Boilers from 200 kg/hr to 40 TPH for all types of solid fuels
- Oil & Gas Fired IBR/Non-IBR boilers from 100 kg/hr to 30 TPH
- Thermic Fluid Heaters from 1 Lac kcal/hr to 100 Lac kcal/hr from Oil & Gas, Solid Fuel to Electric Type
- Hot Water Generators from 7500 kcal/hr to 30 Lac kcal/hr from Oil & Gas, Solid Fuel to Electric Type
- Hot Air Generators from oil & gas, solid and direct fired type

TO BUILD YOUR OWN BOILER / THERMIC FLUID HEATER SYSTEM

Can you build your own steam boiler/ thermic fluid heater system? Yes! You can have your own customized boiler/heater built and that too in a very economical way with highest quality!! This is the same as building your own bungalow with the help of some experts! Boiler/Heater system is a combination of correct equipment on the steam, fuel, air and flue gas side which are backed up by sound practical experience and working knowledge and we can help you in getting your own customized boiler/heater that too which is built by you!

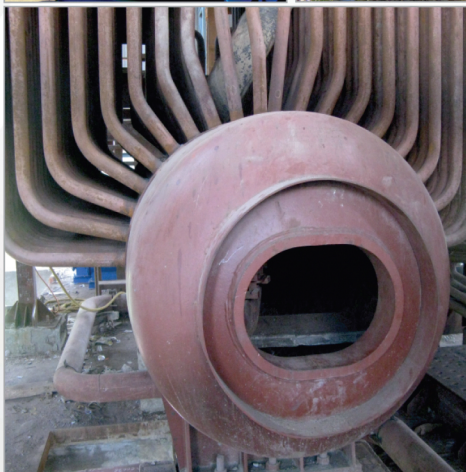




ALL BOILER / HEATER EQUIPMENT AND ACCESSORIES...

We supply all boiler/heater equipment and accessories including as below –

- Burner
- Chemical Dosing
- Bag Filter
- Mechanical Dust Collector
- Cyclomax
- ESP
- Wet Scrubber
- Chimney
- Economiser
- Air Pre Heater (APH)
- Water Pre Heater (WPH)
- Pressurised Deaerator
- Expansion Tank
- Calorifier
- Water Softener



SUPPLY OF IBR REPLACEMENT ITEMS FOR ANY MAKE / ANY TYPE BOILER...!

We can supply you any type of IBR replacement items right from boiler tubes/ economiser tubes/ membrane panel/ In bed coils/ steam drum/ water drums/convective coils/ radiant coils etc for your any type/ any make boilers. It will be one to one replacement of your existing items with all IBR procedures / documentation and formalities in place.



ELECTRICAL, CONTROL PANELS & AUTOMATION

With experience in electrical, industrial engineering and control, we have the knowledge to offer solutions for every type of application, regardless of its size or complexity. We are expertise in offering turnkey integrated PLC/SCADA based solutions as well as DCS based solutions for all types of Boilers and also in various process industry. We have our expertise in PLC based automation, control panel designing, industrial networking and software-based automation projects.

Below are our product/services in this regard –

- Electrical and Control Panel Design and Assembly
- Boiler and Industrial Automation solutions
- Third Party Commissioning Management

ONE STOP EFFICIENT & ECONOMICAL SOLUTIONS FOR STEAM & PROCESS CONTROL PRODUCTS...!

Below are our range of products for Steam & Process Control –

BOILER MOUNTING & CONTROL

- Water Level gauges, Feed Check Valves, Blow Down Valves, Steam Injector, Fusible Plug

PIPELINE ACCESSORIES

- Piston Valves, Bellow Sealed Stop Valves, Moisture Separators, Disc Check Valves, Strainers, Sight Glass.

CONTROL SYSTEM

- Electric & Pneumatic Actuated Valves, Pressure Reducing Valves, Pressure Control Valves, Automatic Blowdown Control, Temperature Control Valves & Safety Valves.

STEAM TRAPS

- Thermodynamic Steam Traps, Inverted Bucket Steam Traps, Ball Float Steam Traps. Concise Ball Float Steam Traps, Concise Thermodynamic Steam Traps.

ENGINEERED & PACKAGE SOLUTIONS

- Pressure Reducing Stations. Pressure & Temperature Control Solutions, Hot Water Skids.

FLOW METERING

- Vortex Flow Meters, Electromagnetic Flow Meter

CONDENSATE RECOVERY SOLUTIONS

- Condensate Recovery Pumping Skids, Flash Vessels & Atmospheric De-aerator Heads





EFFIMON : EFFICIENCY MONITORING & CONTROL SYSTEM

The performance metrics of a combustion system i.e., Steam Boiler & Thermic Fluid Heater like Efficiency and steam to fuel ratio (evaporation ratio) in steam boilers and heat output to fuel ratio in Thermic Fluid Heaters deteriorates due to various parameters such as poor combustion, poor operating practices and maintenance etc.

Hence it becomes highly important for any combustion system to be equipped with a monitoring system which can help or advise boiler operators or plant managers to operate their combustion systems at their highest performance level possible with limited scope of infrastructure and availability.

Helios Enterprises has designed one such combustion monitoring and control system called EffiMon. Various parameters are taken into the system and displayed combustion performance metrics like efficiency and output to input ratio. The system is versatile with a flexible number of inputs and outputs. It is fully customizable as per client requirement. The specifications are matched with any combustion system manufacturer and its retrofit design helps for any client to keep their combustion system at the highest performance level.

Key Features

- Boiler Efficiency Monitoring
- Evaporation ratio Monitoring
- Air to fuel Ratio (Excess Air) Monitoring
- Audio-Visual Alarms
- Flexible hardware I/Os
- Web Enabled

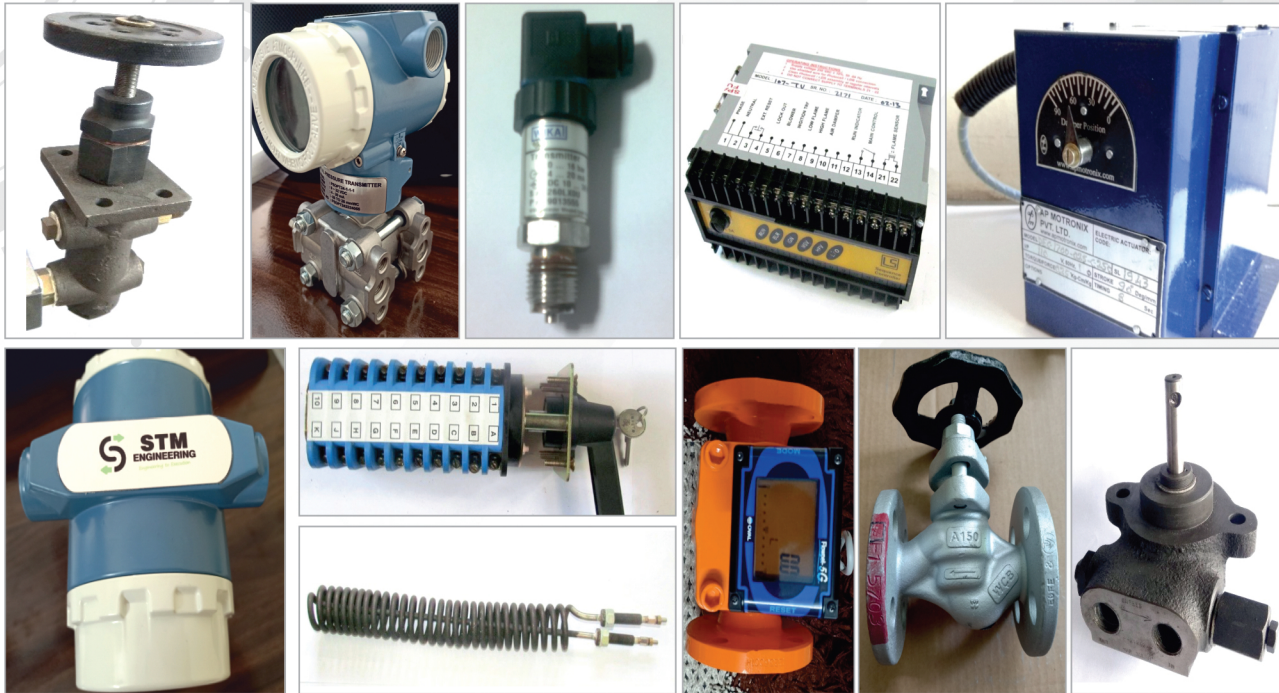
Benefits

- All proven sensors
- No need of reference Air for Oxygen Sensor
- Oxygen Trim control for higher models
- Blowdown TDS control
- Steam & Fuel flow rate display
- No external data logger required
- Optional extended warranty

In addition, we can also give below as spares/separate items –

- | | |
|--------------------|------------------------------------|
| ■ Oil Flow Meter | ■ Gas Flow Meter |
| ■ Water Flow Meter | ■ Steam Flow Meter |
| ■ Oxygen Analyser | ■ Boiler Automatic Blowdown System |

Also, we do the repairing/refurbishment of the existing EffiMax/ Efficiency Monitoring systems.



GENUINE BOILER / HEATER / PROCESS SPARES : ANY MAKE / ANY TYPE

Are you finding it difficult to get the required boiler/heater/process genuine spares at economical prices and faster delivery? Are you finding it difficult to get the correct technically required spare? Are you only dependent on the boiler/heater supplier for the spares who does not even manufacture 1% of it? Are you dealing with too many vendors at present for each specific category spare? Are you getting the spare at much higher prices than the original manufacturer prices of that item? Are you facing the issues in support of installation/operation and after sales service of spares? Then, we have answer to all these questions. Let it be any spares right from tubes to grates to valves to switches to controllers of **any make or type of boiler/ heater/ furnace/ burner/ economisers/ deaerator/ dosing/ or anything of process**, we are there to help you!

BOILER / HEATER COMMISSIONING / PROJECT MANAGEMENT

We also offer the boiler/heater commissioning and project management services with our skilled and trained manpower.



BOILER / HEATER SYSTEM HAZOP STUDY AND ANALYSIS

HAZOP, or a Hazard and Operability Study, is a systematic way to identify possible hazards in a work process. In this approach, the process is broken down into steps, and every variation in work parameters is considered for each step, to see what could go wrong.

A Hazard and Operability Study systematically investigates each element in a process. The goal is to find potential situations that would cause that element to pose a hazard or limit the operability of the process as a whole.

For the boiler/heater system, we do the HAZOP for all the lines i.e., steam, fuel, water, flue gas on various parameters of pressure, temperature, flow, level & safety with consolidated report and finding. It can be done for old/new system to identify hazard/risk and actions to eliminate the same.



OUR BOILER / HEATER HEALTH CHECK-UP & UPTIME ANALYSIS

Why regular health check-up is important for us? Regular check-ups can help find potential health issues before they become a problem. When you see your doctor regularly, they are able to detect health conditions or diseases early. Early detection gives you the best chance for getting the right treatment quickly, avoiding any complications.

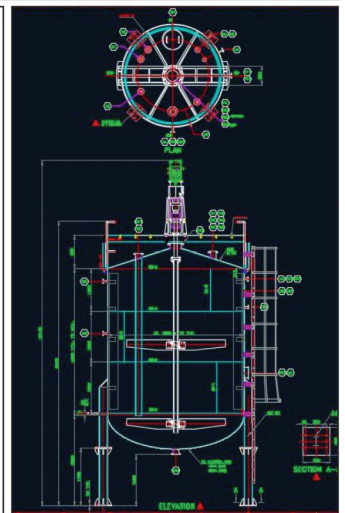
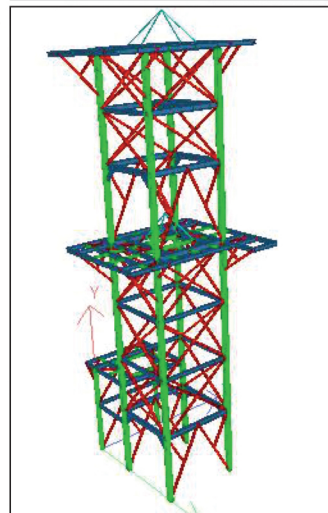
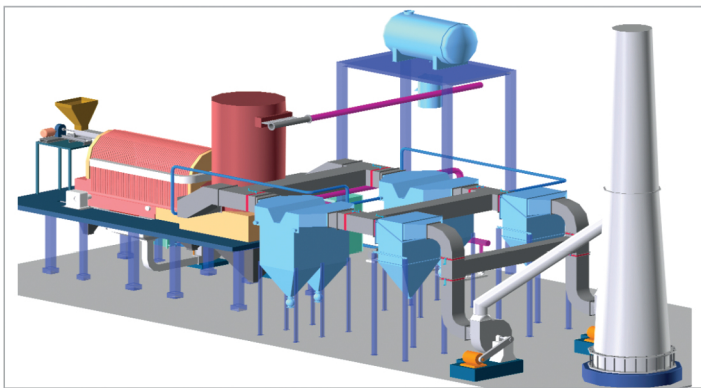
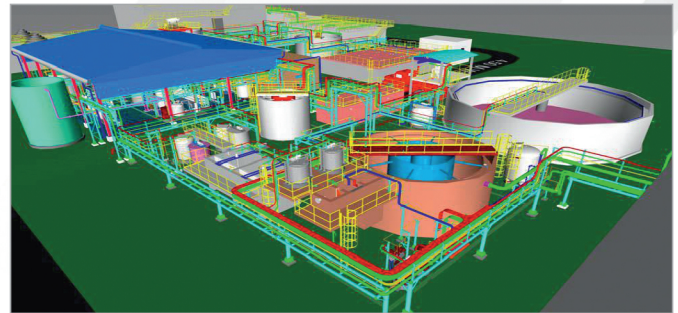
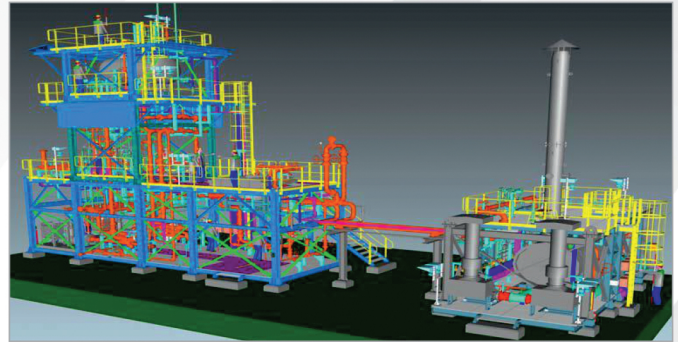
Exactly on the similar ground, boiler uptime analysis is important. Planning is key to your peace of mind. Your plant's productivity depends largely on the condition and performance of your boiler system. STM Engineering offers preventive boiler uptime mapping services that help you reduce unexpected process issues by creating a customized maintenance & uptime plan for your boiler installation. Now you can anticipate potential risks, and deliver increased uptime and higher efficiency levels for your boiler system.



DESIGN / DRAWING / ENGINEERING FOR BOILER / HEATER / PROCESS SYSTEM

All types of design and drawing for boiler/ heater/ process systems including as below

- Boiler
- Heater
- Pressure Vessels/Tank
- Balance of plant including ducting/ piping/ structure/ chimney
- Piping Engineering with 3-D Modelling
- Stress analysis
- Structural analysis
- Electrical design and engineering



BUSINESS PRODUCTIVITY ENHANCEMENT TOOL

Helios Enterprises in collaboration with **TracBiz**, software organization of ex-IIT college colleagues, have developed the business productivity enhancement tools in the form of App which can help boiler/process/ other equipment sales process in the following

- Bring down the sale completion time by 50%
- Coordinate Sales executives, Service personnel, Managers & Accounts with Cloud powered mobile application
- Insights to understand daily progress and focus on Hot-Leads
- Reports and digitalization of workflows.

It monitors the entire sales process from inquiry to order conversion with also the activity, performance & effectiveness monitoring of Sales personnel.



Trusted Partner

Some of our Customers...

BECIS



Our Footprints



Countries we Serve



Kenya



Myanmar



Democratic
Republic of
Congo



Nepal



Bangladesh



Sri Lanka



Home



 **4500+**
Connected
Customers

 **16**
Types of
Industries
Served

 **7**
Countries
Served

 **500+**
Orders
Executed

 **80%+**
Export
Orders

 **350+**
Partners /
Associates

 **365**
Working
Days/Year

 **24 hrs/day**
Working
Hours



HELIOS ENTERPRISES

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