



# SURIA ENGINEERING (Private Limited).

Engineers and Turnkey Solution Providers.

[www.suriaengineering.com](http://www.suriaengineering.com)

# Company Profile

**SURIA ENGINEERING PRIVATE LTD** is a company which enjoys a unique status among other companies in the field of engineering. At one end it is engaged in the manufacturing of wide range of machinery & plants whereas at the other end, it provides services for complete engineering projects.

**SURIA ENGINEERING PRIVATE LTD** was established in 1995 and since then it has completed a series of projects for renowned Petro chemical, Oil & Gas, Chemical, Food, & Pharma Industries of Pakistan.

## TEAM EXPERTIES:

**SURIA ENGINEERING PRIVATE LTD** has the team of experts having vast experience in the field of Engineering with professional training and education domestically & Internationally.



**SURIA ENGINEERING PRIVATE LTD** can also manage Turn key projects on ENGINEERING, PROCUREMENT civil AND CONSTRUCTION (EPC) comprising of Mechanical Electrical and civil works to the customers to have a single point of reference in Planning, Designing, Fabrication, Installation and Commissioning their projects.

**SURIA ENGINEERING PRIVATE LTD** is an ISO 9001-2015, ISO 14001:2021 and OHSAS 18001:2021 certified company which emphasize on worker's and equipment safety to minimize the accidents.



**SURIA ENGINEERING PRIVATE LTD** is being operated at two workshop facilities one in S.I.T.E. and other in Port Qasim Authorities, each having about 44000 sq. ft. working area. Each Site is equipped with 30 Tons of Mobile crane and other Fabrication and Machining Facilities.



# BUSINESS ACTIVITIES

- ✓ PRESSURE VESSELS.
- ✓ HEAT EXCHANGERS.
- ✓ S.S & CS REACTORS.
- ✓ STORAGE TANKS.
- ✓ AIR COOLERS.
- ✓ STEEL STRUCTURE WORK.
- ✓ S.S & CS DISTILLATION COLUMNS & TANKS.
- ✓ S.S & CS JACKETED & LIMPET COIL TANKS.
- ✓ UTILITY, PROCESS & CROSS ROADS PIPING WORK.
- ✓ PIPE RACKS.
- ✓ VAPOUR PHASE DRYING OVENS (AUTOCLAVE).
- ✓ EVAPORATORS.
- ✓ DRYERS (VACCUM, TRAY, ROTARY).
- ✓ SPRAY DRYER.
- ✓ POWER TRANSFORMER TANKS (MVA).
- ✓ SOLID WASTE INCINERATOR.
- ✓ BELT, CHAIN & SCREW CONVEYORS.
- ✓ DOW THERM SYSTEMS (THERMO BOILERS).
- ✓ BATTERY PLANT (PASTE MIXER, +VE & -VE OVENS, PLATE CUTTING M/C etc etc).
- ✓ WET SCRUBBERS.
- ✓ FURNACES.
- ✓ INSULATION & CLADDING.
- ✓ SHED WORKS.
- ✓ BULLETS.
- ✓ FLAKE ICE PLANTS.
- ✓ ELECTRICAL WORKS.
- ✓ CIVIL WORKS.



# Few Main Projects completed

## HPO PLANT

- ✓ Complete fire water network.
- ✓ Jerrycan shed facility On EPC Basis.
- ✓ Storage tanks.
- ✓ Process piping.
- ✓ 800 tons Of structure.

**M/S ENGRO POLYMERS & CHEMICLAS 2024**

## 47 TPD GLUCOSE & 44 TPD SORBITOL PLANT ON TURNKEY BASIS

- ✓ S.S storage tanks 103 Nos.
- ✓ 100,000 Dia Inches piping.
- ✓ Structure work.
- ✓ Electrification work.
- ✓ Furnace.

**M/S ACT POLYOLS 2020**

## DHT-1 RE-INSTATEMENT PROJECT

- ✓ Fin fan air coolers
- ✓ S.S cladding for 4C-1 reactor 85 bar (AASME).

**M/S CYNERGICO PAKISTAN 2025**

## MDF PLANT

Dryer tower structure & cyclones

**M/S PAKITEX 2025**

## BIOMASS BOILER PIPING WORK

**M/S ISMAIL RESIN 2024**

## 200 KGS/HR SPRAY DRYER & TRIPLE EFFECT EVAPORATOR FOR MILK

**M/S DAIRYLIFE 2023**

## VAPOUR PHASE DRYING OVEN (AUTOCLAVE)

**M/S SIEMENS PAKISTAN 2008**

## 300 TONS CP & SSP PLANT TURNKEY BASIS

- ✓ Plant erection 1500 tons.
- ✓ Storage tanks.
- ✓ Process piping 100,000 dia Inches.
- ✓ Structure work 300 tons.
- ✓ Electrification work.

**M/S ISMAIL RESIN 2023**

## DRY MORTAR PLANT

- ✓ Plant erection
- ✓ Storage silos.
- ✓ Dryer section.
- ✓ Mixer section.
- ✓ Platforms.

**M/S RESSI CHEM 2020**

## HTDC PLANT

- ✓ Structure fabrication & erection.
- ✓ Piping supports.

**M/S ENGRO POLYMERS & CHEMICLAS 2024**

## VCM BULLET

Pressure vessel fabrication

**M/S ENGRO POLYMERS & CHEMICALS 2024**

## AS 801 & AS 305 STRIPPING COLUMNS

**M/S ENGRO POLYMERS & CHEMICLAS 2024**

## 700 KGS / HR SPRAY DRYER

Installation and commissioning on EPC basis

**M/S ACT POLYOLS 2022**

## JACKETED PIPING OF COMPLETE PLANT

**M/S MONDELEZ INTERNATIONAL 2025**

# Few Main Projects completed

## EDC/VCM DE-BOTTLE NECKING

Structure fabrication and erection work of Approx 600 tons.

**M/S ENGRO POLYMERS & CHEMICLAS 2019**

## SPRAY DRYER 600 KG/HR EVAP. RATE

**M/S MATCO FOODS LTD 2019**

## SHELL & TUBE HEAT EXCHANGER 550 SQM, 300 SQ.M ETC ETC

**M/S ENGRO POLYMERS & CHEMICLAS 2019**

## RECYCLING PET PLANT

- ✓ Plant setup and installation.
- ✓ piping.
- ✓ structures.

**M/S ISMAIL RESIN 2025**

## COAL TRANSFER CONVEYORS 900 FT LONG

**M/S UNIVERSAL 2004**

## SOAP CRUSHER & MIXING PLANT

**M/S KOHINOOR CHEMICALS 2019**

## DRYING OVENS WITH THERMOBOILER ON TURNKEY BASIS

**M/S K-ELECTRIC 2014**

## PIPELINE WORK 3.5KM LONG

**M/S SSGC LPG 2019**

## BATTERY PLANT

Furnaces, paste mixers etc

**M/S RAINBOW HITECH(BRIDGE POWER) 2014**

## MALU PROJECT

Complete piping work for dyes extension plant.

**M/S ARCHROMA PAKISTAN 2018**

## OXY STRIPPING COLUMN AS 203

**M/S ENGRO POLYMERS & CHEMICLAS 2019**

## ELECTRICAL & MECHANICALWORK FOR NISHAT GARMENTS

**M/S SYNERGY ENGINEERING 2015**

## 30 TPD GLUCOSE PLANT

- ✓ Complete piping work
- ✓ Insulation & cladding
- ✓ Screw conveyors

**M/S MATCO FOODS LTD 2018**

## HARDNER & RESIN PLANT ON TURNKEY BASIS

**M/S RESSI CHEM 2019**

## SYRUP PROCESSING PLANT

**M/S NAURUS PVT LTD 2016**

## TT 307 HEAT EXCHANGER STRUCTURE & PIPING WORK EPC BASIS

**M/S ENGRO POLYMERS CHEMICLAS 2020**

## S.S STORAGE VESSELS

**M/S SHAFI GLUCO 2014**

## BINDER PLANT

Turnkey basis

**M/S SHAFI RESO CHEM 2000**



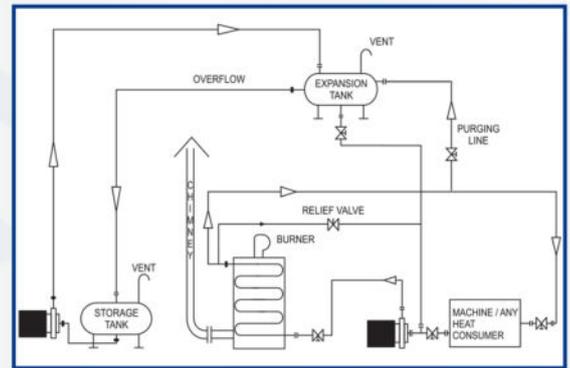


# Thermal Fluid System (TFS)



Thermal Fluid System is an efficient mean of supplying indirect heat to one or more processing machines via a high temperature and low pressure arrangement

Available in different capacities ranging from **100,000 to 5000,000 kcal/hr.** SURIA THERMO OIL Heater is a skid mounted maintenance free compact unit. Presently it is in use by many industries throughout the country.



## Benefits

Thermal Fluid System

**OVER**

Steam System

### EFFICIENCY

As it is a closed cycle system, the losses are minimum. The average temperature difference is 48 deg \* C.

It is an open cycle system. The steam after transferring its heat is condensed. The average temperature of condensate which reaches the boiler room and water feed tank is in the range of 60 to 70 deg \* C.

### SAFETY

As it is a low pressure system and vented to atmosphere through expansion tank it is a safe system.

It is a high pressure system and less safer than the Thermal Fluid System (TFS).

### LICENSED OPERATOR

All TFS's operate at a very low pressure i.e. between 30 to 50 psi and do not require licensed operators. Hence again it is cost effective as far as operating cost is concerned.

Being a high pressure system the law requires a full-time licensed stationary boiler/engineering operator. This increases the operating cost.

### INITIAL INVESTMENT

In Pakistan, initial cost of a TFS is less than a Steam System.

Initial cost is also high as it needs a water softening plant and an economizer as well.

### ANNUAL INSPECTION

It does not require any annual inspection from government authorities and hence no production loss throughout the year.

It requires annual inspection and interruptions in the production are obvious.

### MAINTENANCE

It requires no traps, condensate return and blow down valves. Therefore the regular maintenance is minimal.

Steam system requires regular maintenance which is focused on steam traps, valves, condensate, return pump and water treatment etc. Also frequent water analysis is required to ensure the water input to boiler.

### TEMPERATURE CONTROL

TFS provides efficient and uniform heating because of minimum variation in temperature. This gives us smooth heating.

Because of fluctuation in steam pressure, there is a lot of variation in temperature of steam. This gives us uneven heating.

# Suria Incinerator



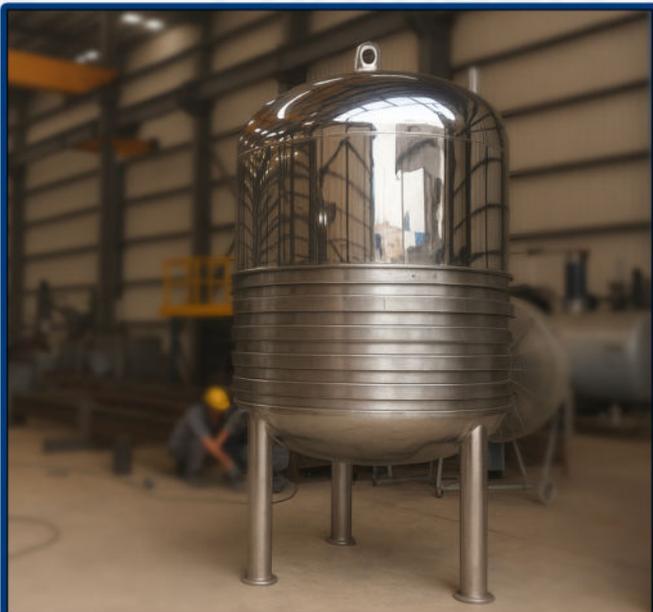
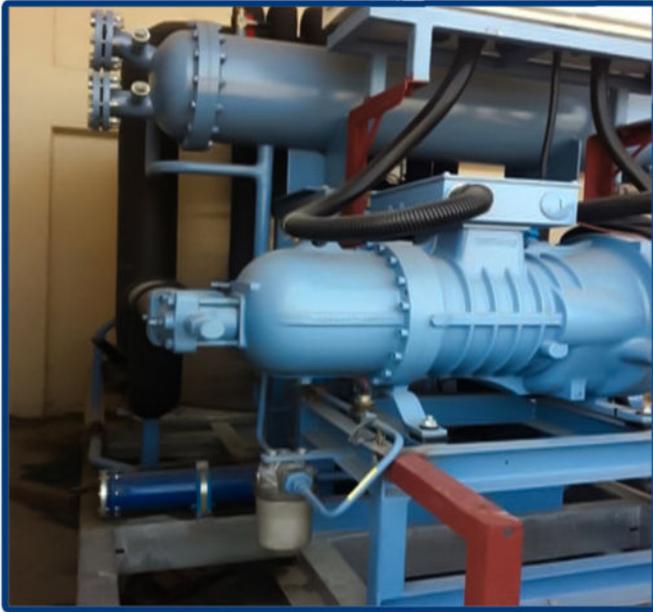
Suria Engineering Manufactures Incinerator of Capacity ranges from 10 to 500 kg / hour. Each Incinerator is designed according to specific requirement of user.

- Meets National Environment Quality Standards (NEQs)
- Complete burning of waste material is ensured by proper air / fuel ratio and sufficient mixing of reactants, adequate residence time, high temperature and low velocities.
- Eliminates dark smoke emission when burning the waste materials.
- Userfriendly: operation is ensured by proper automation.
- Adequate SAFETY FEATURES are incorporated to protect the premises and operators against mishaps and accidents
- Absolute trouble free and maintenance free burner operation.



## Main Technical Parameters

Model	Capacity	Voltage	Power (Kw)	No. of Chambers
SI-25	10 - 30	220 / 380V	1.5	2
SI-50	40 - 60	220 / 380 V	2.5	3
SI-75	60 - 90	220 / 380 V	7	3
SI-100	90 - 110	220 / 380 V	9	3
SI-150	140 - 160	220 / 380 V	15	3
SI-200	190 - 210	220 / 380 V	18	3
SI-300	220 - 320	220 / 380 V	25	3
SI-500	470 - 530	220 / 380 V	25	3





# OUR MAJOR CLIENTS



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Engineers at their best

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