

# ABOUT US – SAP, SARU & SRU





## **THERMAL Systems (Hyderabad) Pvt. Ltd.**

rededicating itself in the service  
of the industry, the world over

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## **1985...The First Step Forward**

TSPL is the brainchild of P.V. Raju, a dynamic first generation technocrat, with a fiery vision and years of experience.

## **1988...The Growing Years**

With a core team of highly skilled professionals, TSPL launched into design and fabrication of a wide range of *Waste Heat Recovery Boilers*. The company focused its attention to the needs of the *Fertilizer Industry* with integral *Sulphuric Acid Plants* (SAP's). TSPL met the needs superbly with its expertise and the backing of its in-house design and manufacturing skills, producing highly reliable and maintainable equipment.

## **1998...A Breakthrough**

In a span of just 10 years, TSPL with its stringent quality policy has achieved an enviable level of customer acceptance. Today TSPL takes pride in having supplied numerous *Waste Heat Recovery Boilers* up to 175 TPH for 3.500 TPD SAP in India and 142 TPH for a 2.400 TPD SAP in Europe.

TSPL



### *TSPL's Bollaram Workshop*

- 75.000 m<sup>2</sup> open Area
- 13.000 m<sup>2</sup> covered Area
- 12.000 Tons per Year of Pressure Parts
- ASME Stamp Holder



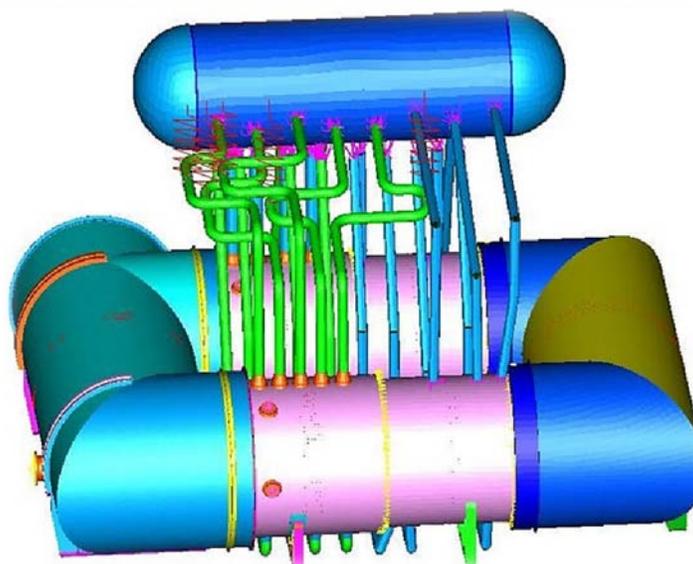
## TSPL's Fabrication Facilities

- Plate Bending
- Hyd. CNC Tube Bending, Bending Radius  $1,25 \times OD$
- Tube Sheet Drilling
- Membrane Wall Welding & Bending up to 1.600 mm
- Fin Calibration for Membrane Wall Welding
- Up to now 200 Tons Single Piece be handled

*Every Step...an Achievement*

*Design & Eng...Our In-House Strength  
Since Inception*

*Quality...a firm Commitment*





## Ready for Dispatch

- ❑ Normal Size: 4,5m width and height, up to 16m long, up to 100 Tons
- ❑ Special Size: 5,3m width or height with maximum 65 Tons

# ABOUT US – SAP, SARU & SRU

## Thermal Systems...

is a leading designer and manufacturer of process heat transfer equipment for the Sulphuric Acid Industry



Superheater & Economizer for BEFESA, Spain



TWIN-Waste Heat Boiler in operation for TIFERT, Tunisia

## Products & Applications

- Fire Tube Boilers with External or Internal Gas-Bypass
- Water Tube Boilers
- ECO's & SUPH's
- Gas-Gas Heat Exchangers,
- Steam Flooded Air Heaters
- Start-Up Preheaters



TWIN-Waste Heat Boiler during erection for TIFERT, Tunisia

TWIN-Waste Heat Boiler at TRAIL ASSEMBLY stage during fabrication

## Latest References

- 955 tpd--BEFESA, Spain
- 3.600 tpd--TIFERT, Tunisia
- 4.500 tpd--JIFCO, Jordan
- 2.000 tpd--PARADEEP, India
- 2.200 tpd--TOROS, Turkey
- 3.500 tpd--IFFCO, India
- 1.250 tpd--SUEZ FERT., Egypt
- 1.500 tpd--NAMZINC, Namibia
- 900 tpd--FQM, Zambia
- 600 tpd--FREEPORT MCMORAN, Congo



TWIN-WHB under erection for JIFCO, Jordan

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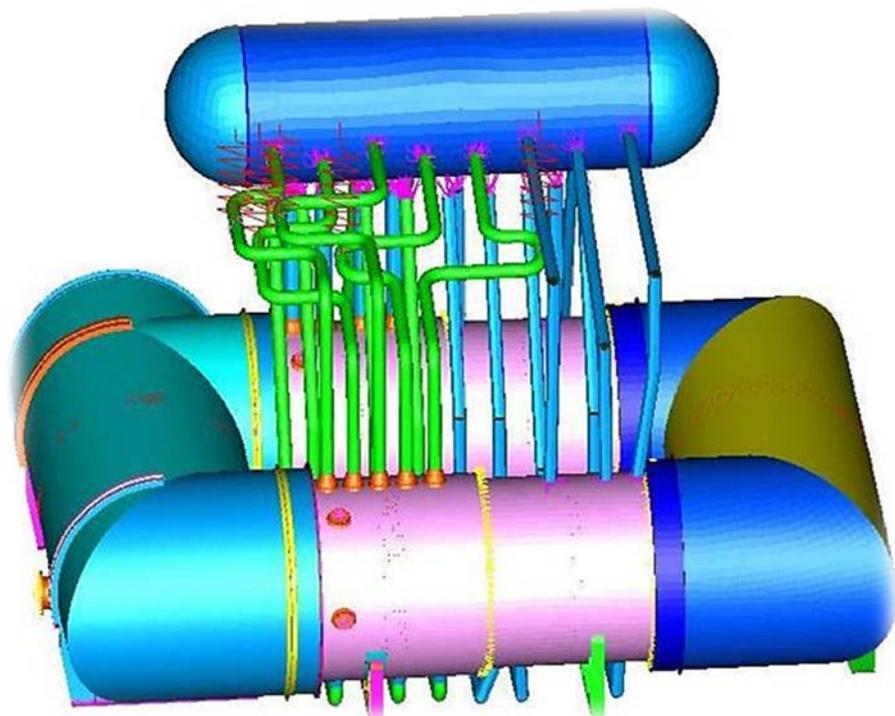
Fire Tube WHB



Water Tube WHB



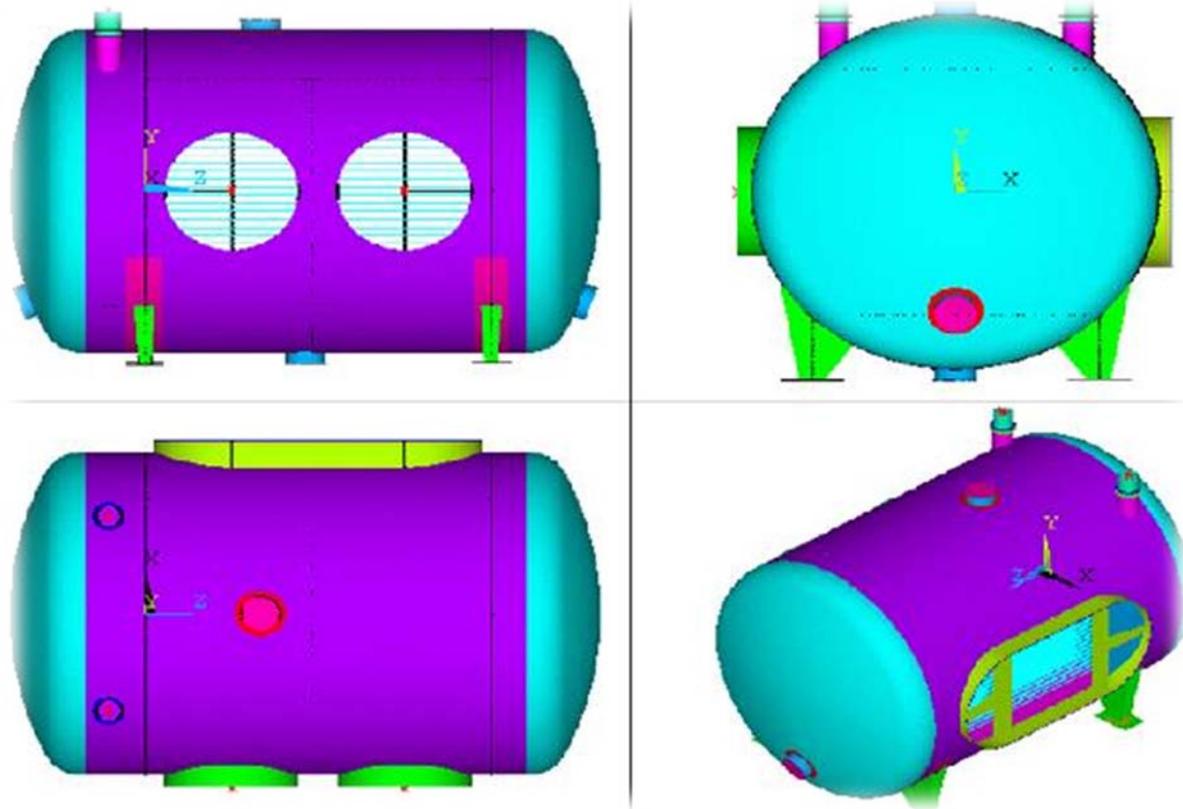
Superheater Module under fabrication



Meshed Model of TWIN-Boiler for TIFERT, Tunisia



TWIN-Boiler for TIFERT, Tunisia

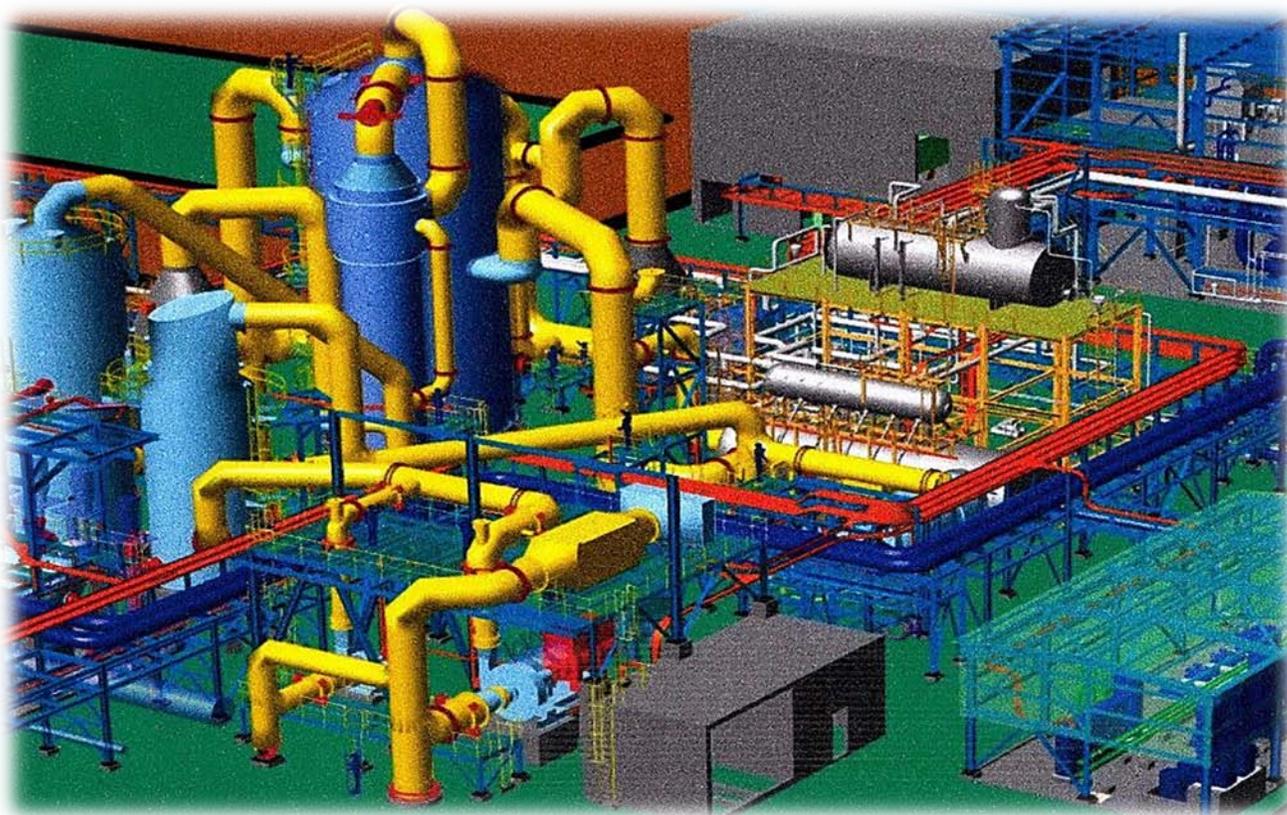


3D Model of Superheater for JIFCO, Jordan



Superheater for JIFCO, Jordan

# ABOUT US – SAP, SARU & SRU



3D Model of SUEZ FERTILIZER, Egypt



Waste Heat Boiler under erection for BEFESA, Spain

## Thermal Systems...

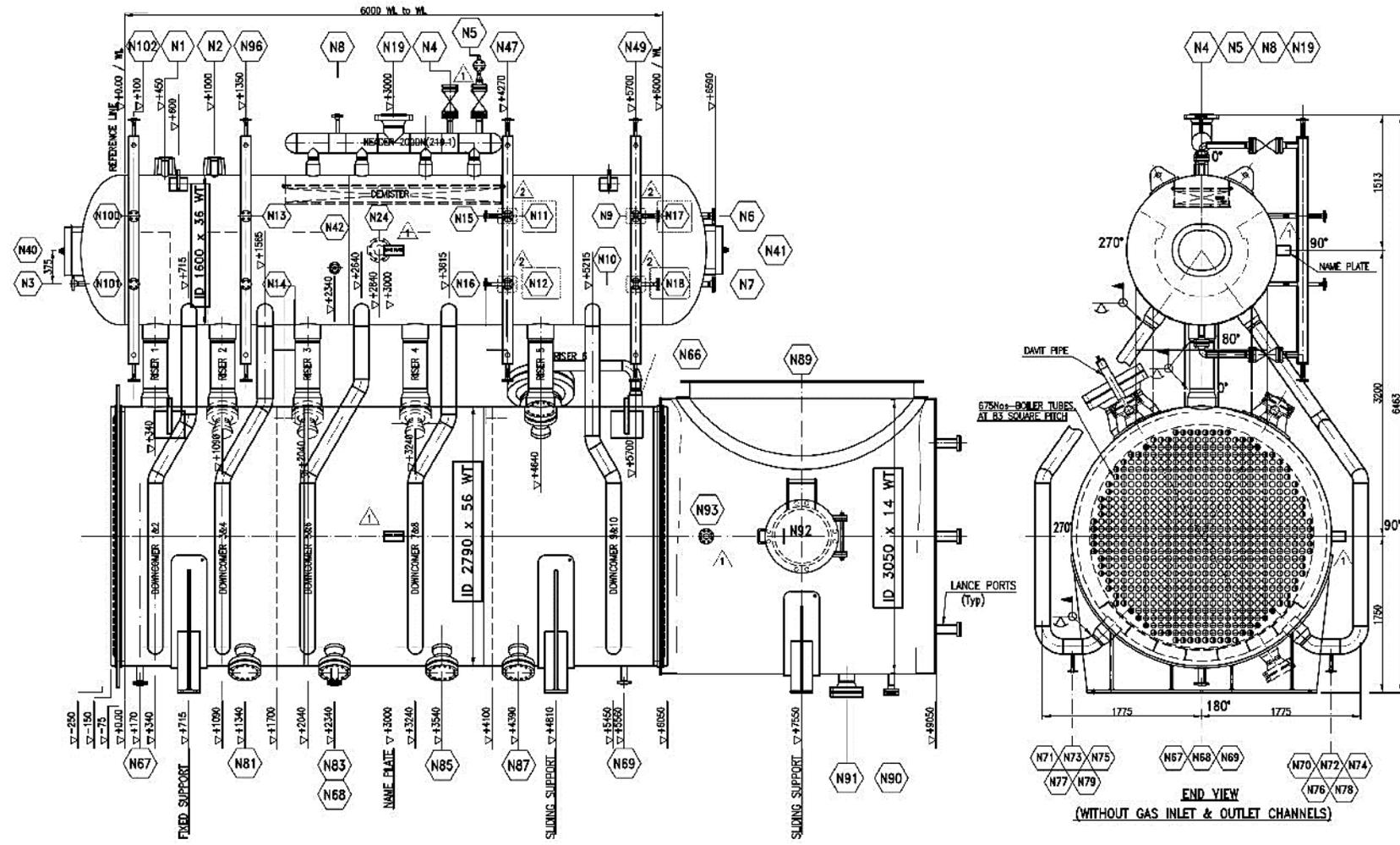
provides reliable and cost effective design solutions for the industry. Our strength lies in the development of custom made solutions.

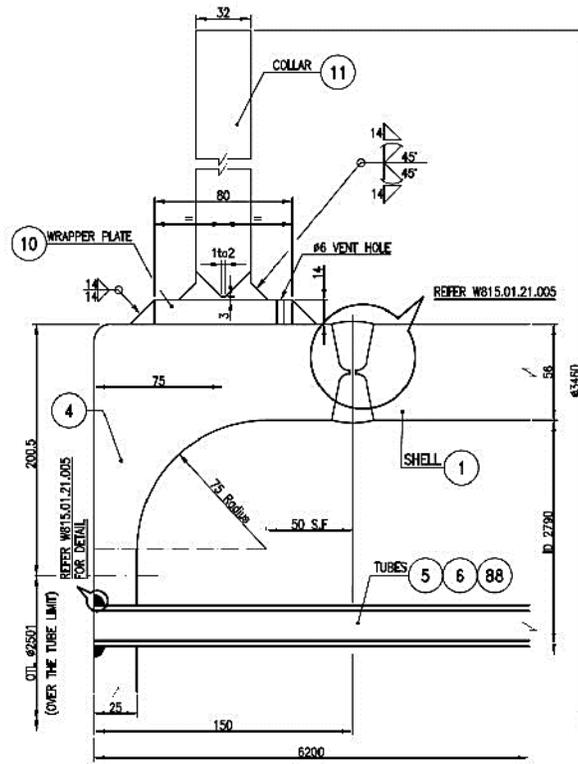


Waste Heat Boiler for RELIANCE, India

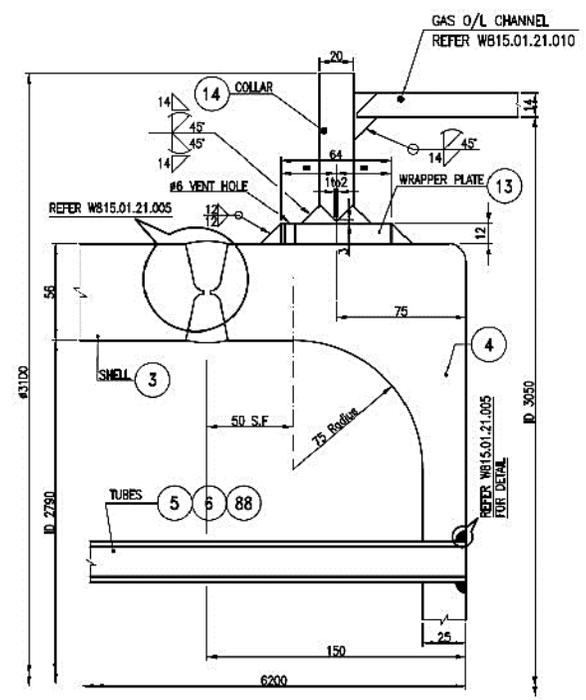


Waste Heat Boiler for SATORP, Saudi Arabia

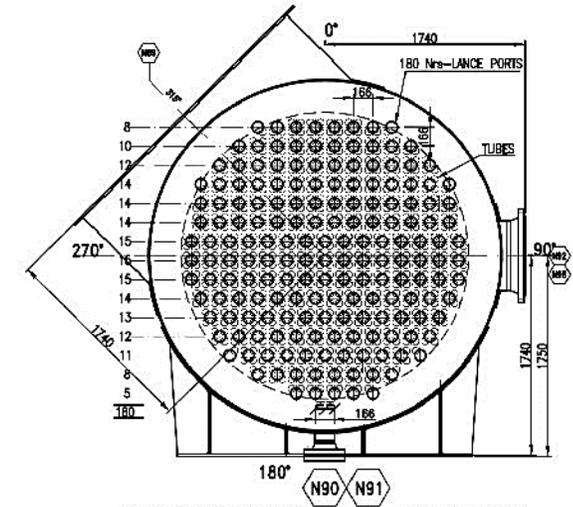




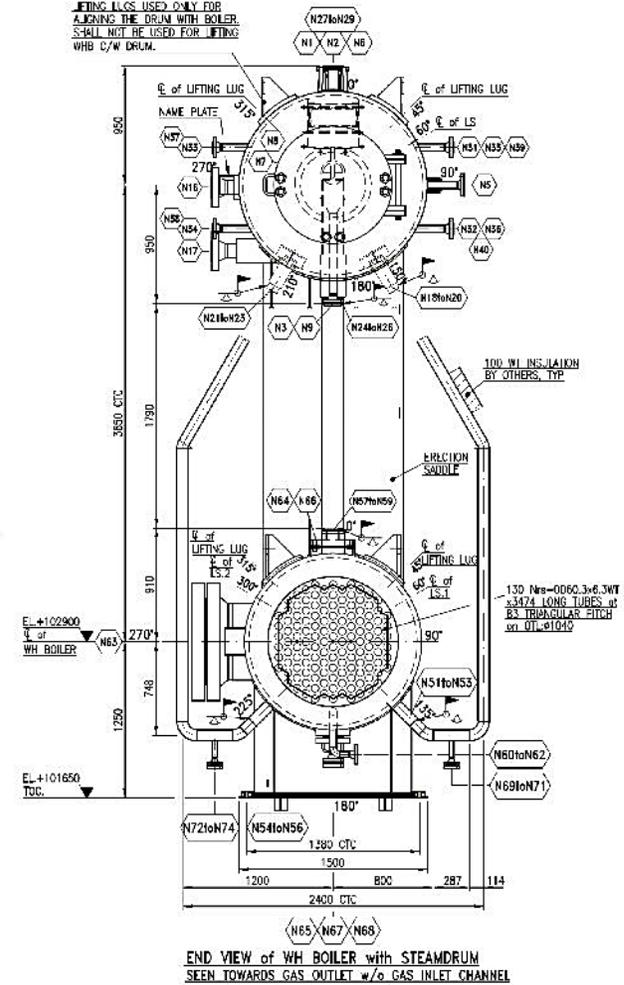
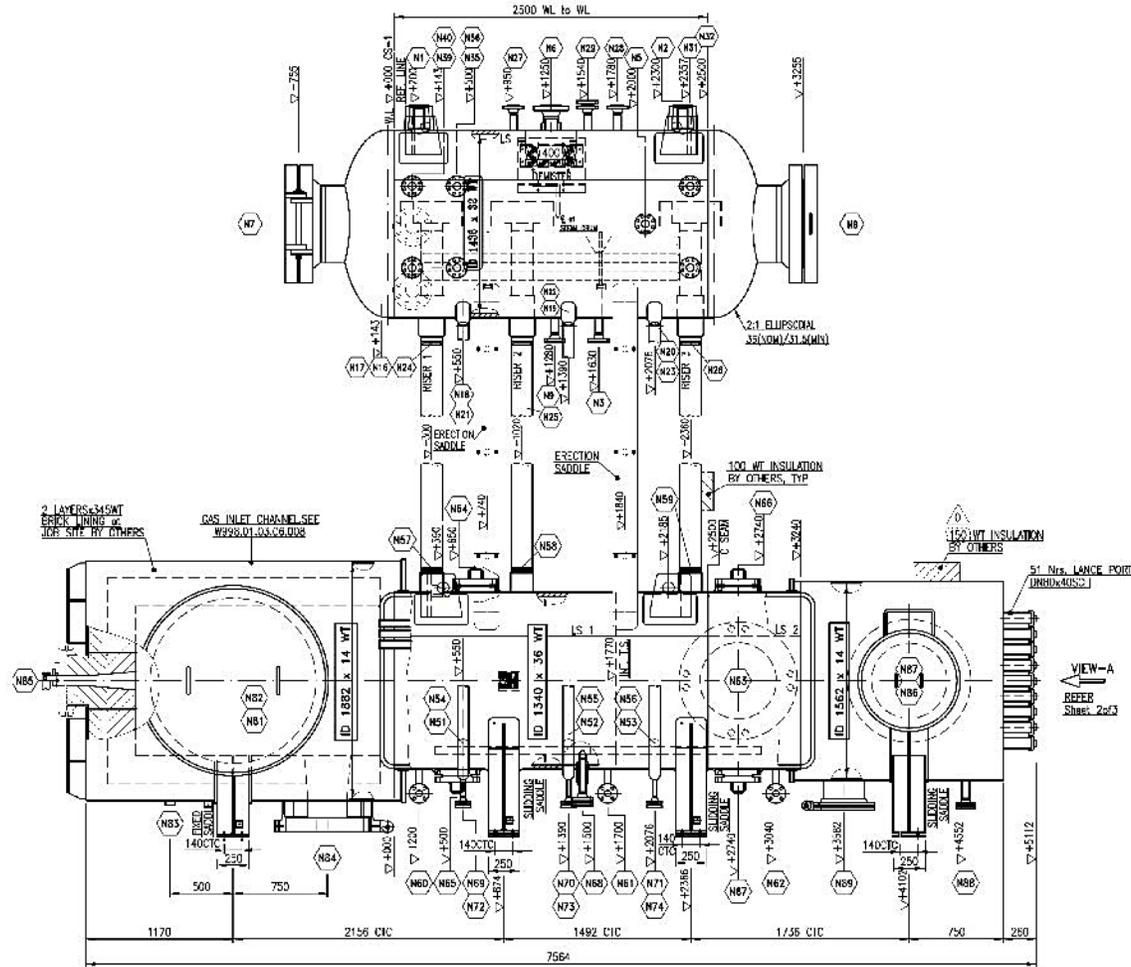
**DETAIL-A**  
SCALE:1:2



**DETAIL-B**  
SCALE:1:2



**ORIENTATION OF NOZZLES ON GAS OUTLET CHANNEL**



## Products & Applications

- Process Gas Boilers
- ECO's & SUPH's
- Start-Up Preheaters



Waste Heat Boiler Lance Ports for Tube Cleaning

Waste Heat Boiler under erection for INDOIL, India

## Latest References

- ❑ 200 tpd--INDOIL, India
- ❑ 1.000 tpd--RELIANCE, India
- ❑ 200 tpd--SATORP, Saudi Arabia
- ❑ 25 tpd--ARKEMA, Malaysia



Waste Heat Boiler with Steam Drum under Trail Assembly at workshop

Superheater for INDOIL, India

## Thermal System...

is a partner to the world leading engineering companies, contractors and operators in chemical, petrochemical, metallurgical and oil and gas exploration industry.



Claus Furnace and Waste Heat Boiler for UPL, India



Incinerator Waste Heat Boiler for UPL, India

## Products & Applications

- Claus Boilers
- Sulphur Condensers
- Incinerator WHB cum Superheater



Waste Heat Boiler, internal two pass



Claus Furnace with Waste Heat Boiler and Sulphur Condensers for BPCL, India

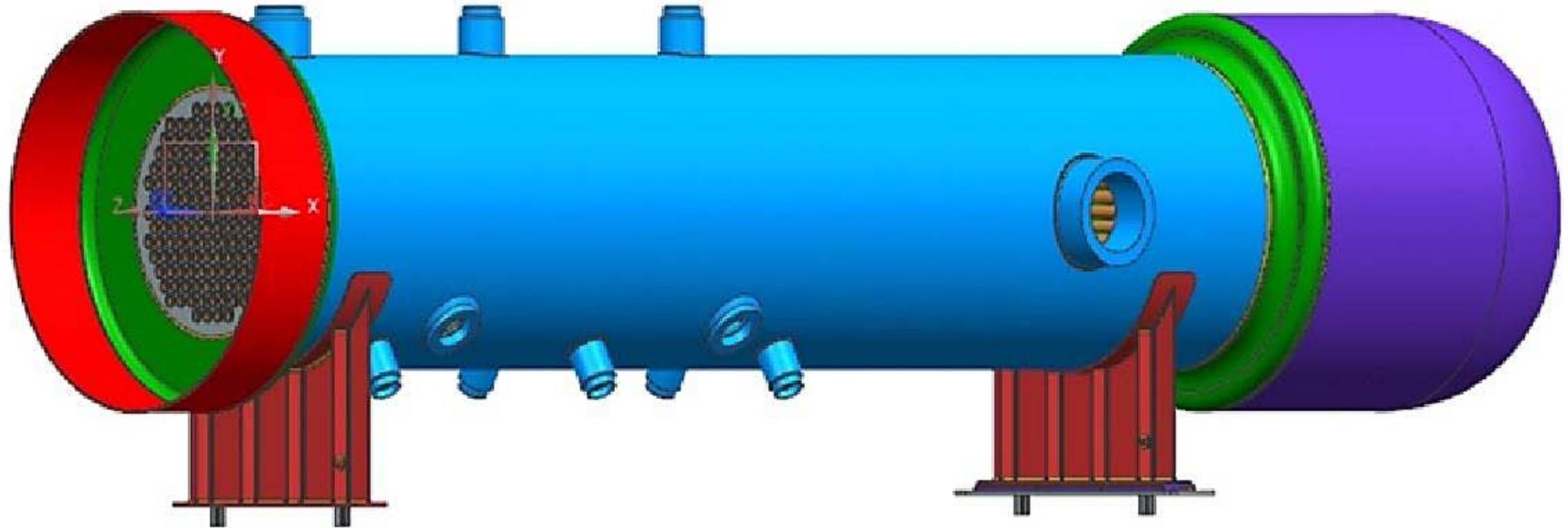
## Latest References

- ❑ 80 tpd--BPCL, India
- ❑ 600 tpd--ESSAR OIL, India
- ❑ 180 tpd--BINA OIL, India
- ❑ 50 tpd--INDOIL, India

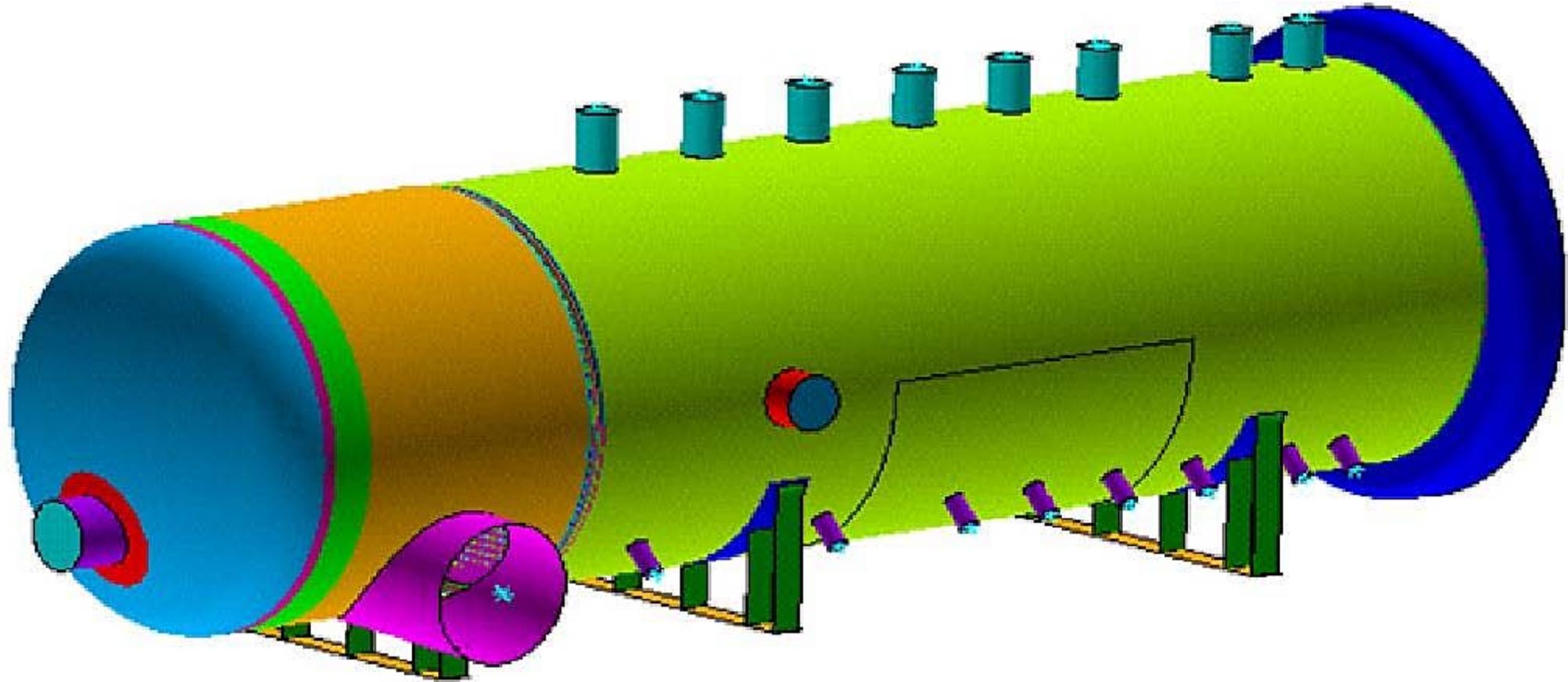


Incinerator Furnace with Superheater & Waste Heat Boiler for ESSAR, India

OXY-Claus Furnace with Waste Heat Boiler for JINDAL, India



3D Model of Claus-WHB for UPL, India



3D Model of Claus-WHB for ESSAR, India