



Fired Heater Strengths



URJA DISHA

## **Urja Disha**

Fired Heater Engineering

Established 2006



URJA DISHA  
BOILER TECHNOLOGIES

## **Urja-Disha Boiler Technologies**

Fired Boiler & WHRB Engineering

Established 2003



## Domain Expertise

- Associated with Fired Heaters since 1994
- Worked on various heaters OEMs -
  - Struthers wells. (1993-2000)
  - Hurtey Petrochem. (19993-2000)
  - Petro-Chem Development Co Inc. (2006-2015)
  - Thermax. (2003-2005)
- Associated with Boilers & allied field since 1991.



## Domain Experience

- Mechanical design of coils, supports
- Structural design of heater, stack, lifting arrangements
- GA preparation- VC, box heaters
- Basic drawings- Radiation section, coils, convection sections, stack, ducting, structures, transportation arrangement etc.
- Basic assemblies/Shop fabrication drawings
- Refractory and ceramic drawings
- Piping drawings- burner, process, steam soot blower etc.
- Knowledge of API 560/ 530.



## Domain Experience

### ➤ Various heater configurations

- Single VC with convection bank and stack.
- Double VC with common convection & stack.
- Single Box heater with convection bank and stack.
- Single box with twin convection bank and common stack.
- Multiple box with common convection & stack.

### ➤ Various coil configurations

- Serpentine- vertical, horizontal.
- Helical- single pass, multi pass.
- Arbour- up U, down U.
- Wall support, X-mass tree support, tube sheet support.
- Helical fin, stud, plane.



## Similar Domain Experience

- FCCU-CO fired boiler.
- FCCU- waste heat boiler.
- Reformer gas waste heat boiler.
- WHRUs- on gas turbines.
- Waste heat boilers on heater gases.
- CI air pre heater.
- Glass tube air pre heater.



## Domain Experience

### ➤ Various metallurgies

- Carbon steel
- Low alloy
- High alloy
- Super alloy

### ➤ Various applications

- Heating of fluids
- Cracking
- Reforming

### ➤ Various burner configurations

- Floor mounted
- Wall mounted



## Domain Experience

- Good office setup near industrial zone
- Established operating procedures in line with quality management guidelines.
  - Documentation.
  - Standardization, Check sheets.
  - Checking procedure- 2-3 stage.
  - Review and monitoring.
  - Continual improvement platform.
- Own library- books, codes, periodicals, catalogues etc.
- Advance work stations, servers & network
- Licence ACAD, STAAD pro, CEASER II, CAD work software's.
- Experienced team





## Domain Experience

- FH specific experienced team of 9 people and easily expandable to 12 no.
- Total team experience (9 people)- app-2,00,000 Hrs on FH.
- Drafted more than 8500 no FH drawings (in last 9 years).
- Worked on more than 100 no of heaters (various types)
- Complete project management and subcontracted fabrication management of 2 no heaters installed in India and 2 no reformer boilers.
- Supported for QA/ resolution (shop fabrication) for India/ Thailand/ Gulf fabricators.



## Familiar Working Environment

- Worked with various agencies involved in Fired Heaters business like



- EPC- EIL, Toyo, Worley Parsons, Bechtel, Shell, Samsung, Hyundai, GS etc.



- OEMS- SWC, Peto- Chem, Heurtey, KTI etc.



- STD-s- India, USA, Canada, Brazil, Oman, Saudi, Kuwait, Singapore.



**WorleyParsons**  
resources & energy



HEURTEY PETROCHEM



- Worked on more than 100 heaters of various types.
- Prepared more than 12500 drawings.
- Customer satisfaction index 19+/20
- Delivery index 0.98-1.01
- Error index 0.02
- Productivity index 0.9-1 (for first release).



## Additional Advantages

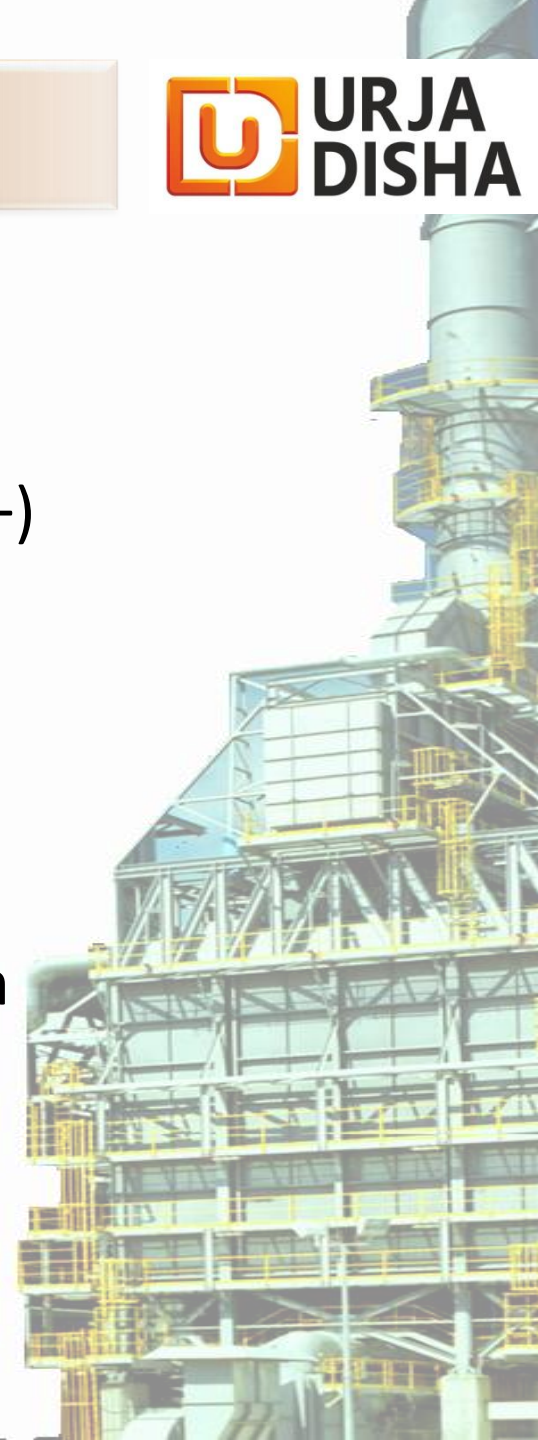
### ➤ Pune

- Trained manpower available (9 to 12,+)
- Flexible to expand work force.
- Well connected city.

### ➤ + Time difference.

### ➤ Expertise in relevant field is available.

- (for power, process as well petroleum refinery and petrochemical industry applications)



## How to go ahead?

- Company standards- study-understanding.
  - For drafting ACAD- name plate- fonts, layers etc
  - For components- man hole, peep hole etc
  - Presentation- Drawing , BOM, shop, basic-no of drawings etc
- Go by drawings
- Interaction- regular, formats
- Single point communication.
- Start with drafting then designing.
- Training.



# Thank You !

**Urja-Disha**

**Making heat more productive**

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