



■ SPECIALIZED EQUIPMENT FABRICATION



PROCESS EQUIPMENT FABRICATION

Chem Process provides manufacturing services for specialized engineering process equipment with a focus on heat exchangers and pressure vessels. Highest quality, end product is ensured as we take responsibility of the whole fabrication contract which may include all related steel structures including skids, frames, welded structures and walkways, casings, cabinets, housings and platforms.

Chem can take complete turnkey enquiries from clients including design, drawings, manufacturing specifications, certifications required and preferences. Chem Process monitors and manages the fabrication process and provides status reports and assistance during client visits to its works. Chem also provides design calculations to PED, ASME, and other codes as required.

Our manufacturing facility is designed for efficient production of large process equipment assemblies. It has 36,000 sq.ft. of covered floor space in 6 fabrication bays allowing a production capacity of up to 14,000 man hours per week on a standard day shift pattern.

A key to the successful manufacturing of steam condensers and heat exchangers is the ability to drill a large quantity of precision holes, in house and from approved CNC & Radial Drill sub-contractors ensuring proper hole tolerances.

Our manufacturing facility is under constant upgradation both in regards to the fabrication tools and equipment as well as the labour skills resulting in one of the most efficient, experienced and best equipped workshops for process equipment manufacture in India.

The workshop is uniquely positioned as both the fabrication arm for Chem Process designed process equipment as well as a custom fabrication facility to engineering companies and processing facilities.

The facility is self-contained with all services feeding the workshops with power and industrial gases including oxygen, argon and propane.



Cladding/explosion bonding, CNC drilling, dished end forming (by spinning), heat treatment, rubber/glass flake/FRP lining from approved subcontractors is carried out on a regular basis.

Welding procedures and personnel meet various welding codes, including AWS, ASME, and MIL-STD-248/278 specifications.

The Chem Process manufacturing facilities are strategically located and are accessible by low bed multi-axle hydraulic trailers for further transportation.

Chem Process designs and manufactures process equipment based on vacuum, evaporation, crystallization and heat transfer technologies.





Manufacturing

- 250 + shop floor and 120 office staff
- 5 covered and 2 open manufacturing bays
- Separate shot blasting and painting sheds for OD equipment
- Lifting capacities up to 400 tons
- CNC drilling machine
- CNC plate cutting machines
- Plate bending/rolling machines
- Lathe, Press & Radial Drills
- Automatic welding machines
- Cladding/explosion bonding
- Weld Overlay
- Heat treatment: hardening, annealing, pickling, stress relief, etc.
- NDT through MPI, radiography (x-ray), ultrasonic and dye penetration
- Test offered, vacuum, hydro, pneumatic, helium, loop test
- Leak tests by air, helium and water



- NDT Level 2 certified QA & QC engineers
- Assembly of packaged plants
- Third party approved welding procedures and qualified welders

Quality Control

Chem Process is a ISO 9001 engineering company with 'U', 'NB', & 'R' certification and 'IBR' & 'EIL' approval. All our all quality control processes are as per ASME section VIII.



With Chem Process, quality assurance is a priority, the resulting equipment meets the highest possible required standards. Quality workmanship is the motto at our workshop which has an experienced work force that produces the highest quality process equipment.

Fabrication of Specialized Equipment

- Steam Surface Condenser
- Air Extraction Systems
- Gland Steam Condenser
- Condensing Packages
- Feed Water Heaters - LP & HP
- Heat Exchanger
- Oil Coolers
- Reactors & Columns
- Jacketed Vessels
- Pressure Vessels
- Media Filters
- Re-Boilers
- Skids & Packaged Plants

PRODUCT RANGE

EJECTORS AND VACUUM SYSTEMS

- Steam Jet Ejectors
- Liquid Jet Ejectors
- Thermocompressors
- Liquid Ring Vacuum Pumps
- Ring Jets
- Eductors
- Jet Heaters
- Jet Mixers
- Silencers
- Hybrid Systems

EVAPORATORS WITH TVR/MVR

- Single and Multi Stage Flash
- Forced Circulation
- Natural Circulation
- Falling Film
- Rising Film
- Combination Type
- Multi-Effect Distillation

- Scraped Surface Type
- Horizontal Wetted

CRYSTALLIZERS AND DRYERS

- Adiabatic Vacuum
- Evaporative Forced
- Draft Tube Baffle Type
- Spray Evaporator
- Oslo Type
- Agitated Thin Film Dryers : ATFD
- Flash Dryers
- Fluid Bed Dryers

PROCESS PLANTS/ TURNKEY PROJECTS

- Zero Liquid Effluent Discharge Plants
- Ethylene Glycol Vacuum Systems
- Caustic Concentration Systems
- Salt Recovery Plants
- Desalination Plants
- Venturi Scrubbers

- Milk Condensing & Khoa Cooling Equipment
- Distillery Spent Wash Treatment
- Food & Beverage
- Distillation
- Gas Scrubbing System

POWER PLANT EQUIPMENT

- Steam Surface Condensers
- Air Extraction Systems
- Gland Steam Condensers
- Condensing Packages
- Feed Water Heaters - LP & HP

SPECIALIZED EQUIPMENT FABRICATION

- Heat Exchangers
- Oil Coolers
- Reactors & Columns
- Pressure Vessels
- Media Filters
- Re-Boilers
- Skids & Packaged Plants

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