Partnering for Reliable Solutions

Industries Served
- Oil and Gas
- Refineries
- Petrochemicals
- Fertilizers
- Chemicals
- Food, Pharma & Bio-tech
It has been a continuous endeavor at Praj to work towards sustainability! This effort extends to partnering our customers in their sustainability efforts, be it a new project, expansion or upgradation.

We have been one of the leading suppliers of equipment globally. Leveraging the strengths of India as an emerging sourcing hub for engineered products, we lay specific emphasis on equipment and systems which demand criticality of material of construction and complexity.

Praj established a dedicated business unit in 2009-10 to offer “Critical Process Equipment & Systems” (CPES) to various process industries such as Oil & Gas, Refineries, PetroChemicals, Chemicals, Food, Pharma and BioTech. We also undertake end-to-end projects for Process Skids and Packages.

Our capability is substantiated by a multi-disciplinary Engineering Team, four state-of-the-art manufacturing facilities and excellent connectivity to Ports and Highways. Two of the facilities are located near the port in Special Economic Zone (SEZ) of Kandla in Gujarat, India.

The facilities have been accredited with ASME U & U2, R Stamps, NB Registrations. Global MNCs and EPC companies have approved our facilities for supply of Static Equipment and Systems to their projects globally.

Today, Praj’s CPES business with its demonstrated capability is fully geared to take on far more challenging projects in the spirit of partnership with customers!
Engineering Services

- Design and Engineering of Static fabricated equipment
- Piping engineering from plot plan to isometrics
- Detail engineering: Boughtout/Packaging units
- Skid engineering
- Electrical, Instrumentation & Automation Engineering

Global Standards and Codes followed by Praj

- ASME Sec. VIII Div. I & Div II
- IS 2825
- Ad Merkblatter
- PD 5500
- TEMA
- BS 5500
- Pressure Equipment Directive
- SMPV Rules
- DIN
- API 650

Softwares in use

- HTRI
- CodeCalc
- ChemCAD
- PVElite
- AutoCAD
- Plant 4D
- PDMS
- ProPipe
- Compress
- Bently Autoplant
- Tekla
- Navisworks

Quality Assurance

Special Features

- Strong Quality Assurance Culture
- Quality Assurance Plan for each equipment, Raw material and boughtouts
- ASNT Level 3 certified Welding Inspector

Highly Trained Quality Assurance Team for

- Penetrant Testing (PT)
- Ultrasonic Testing (UT)
- Visual Testing (VT) & Magnetic Test (MT)
- Radiography (RT)
- Helium Leak Test
- Tube to Tubesheet Radiography
Praj has 3 manufacturing units which are well connected by highways and ports. All the facilities are well equipped with modern metalworking machines such as:

- CNC Plasma Cutting Machines
- High thick plate bending and Dish end Pressing
- CNC Drilling Machines & VTLs
- Column & Boom Automatic SAW and PAW
- Shot Blasting and Painting
- Automatic Polishing Machine
- Strip Cladding Machine

Manufacturing Capacity

- 16500 T/year (Expandable)
- Maximum Dimensions possible:
  - Dia. 8.5m x Length 50m x Weight 300T

Manufacturing Capabilities

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Pune Unit</th>
<th>SEZ Kandla</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit 1</td>
<td>Unit 2</td>
</tr>
<tr>
<td>Total Area (Sq. Mts.)</td>
<td>20,000</td>
<td>30,000</td>
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<tr>
<td>Covered Area (Sq. Mts.)</td>
<td>10,000</td>
<td>15,000</td>
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<tr>
<td>Shell Rolling Thickness</td>
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<tr>
<td>Shell Diameter</td>
<td>5 m</td>
<td>6.5 m</td>
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<tr>
<td>Shell Length</td>
<td>20 m</td>
<td>50 m</td>
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<tr>
<td>Dished Thickness</td>
<td>30 mm</td>
<td>30 mm</td>
</tr>
<tr>
<td>Dished Diameter</td>
<td>5 m</td>
<td>6 m</td>
</tr>
<tr>
<td>Lifting Capacity</td>
<td>100 Ton</td>
<td>200 Ton</td>
</tr>
</tbody>
</table>

Types of Welding

- TIG
- SAW
- SMAW
- FCAW
- PAW
- Orbital Welding
- Tube to Tubesheet Welding
Reactors, Separators, Pressure Vessels & Tanks

Types
- High Thick Vessels & Cladded Vessels
- Three Phase/Two Phase Separators
- Scrubber and KODs & Reactor/Fermentor

Special Features
- Limpeted and Dimple Jacketed Reactors
- Separators with internals, High Pressure Vessels
- Large Storage Tanks, Vessels under CCOE
- Reactor/Fermenter with Agitator & Cladded High Thick Vessels

Material of Construction
- SS904, SS347, SS321, SS316Ti, SS316L, SS304L, SS304
- Duplex, Nickel, Hastelloy, Inconel, Monel, Titanium
- Carbon Steel (all grades)
- Low Alloy Steels

Heat Exchangers (Shell & Tube)

Types
- Floating Head, Fixed Tube Sheets
- Heat Exchangers with Expansion Bellow
- Twin Heat Exchangers, U-Tube, Finned Tube

Special Features
- Lethal Requirement
- T/TS Radiography
- Helium Leak Test
- In situ Flange Machining

Material of Construction
- SS904L, SS321, SS316Ti, SS316L, SS316, SS304L, SS304
- DOW Copper
- Carbon Steel (all grades)
- LAS
- Cu-Ni
- Cladded Tubesheet
Process Columns

**Types**
- Distillation Column
- Column with Reboiler
- Column with Overhead Condensor

**Material of Construction**
- SS904, SS347, SS321, SS316Ti, SS316L, SS316, SS304L, SS304
- Duplex, Nickel, Hastelloy, Inconel, Monel, Titanium
- Carbon Steel (all grades)
- Low Alloy Steels

**Special Features**
- Packing and Trays
- Sandwiched Trays between BF
- Cladded Column
Praj Offerings

**Static Equipment**
- Reactors / Fermenter
- Pressure Vessels
- Separators / Scrubber/ KOD
- Heat Exchangers (Shell & Tube)
- Columns & Towers
- Process Skids

**Process Systems**
- Distillation System
- Separation System
- Evaporation System
- De-hydration System
- Solvent Recovery Plant
- Turnkey Process System / Plants

**Advantage Praj**
- Well established Mechanical Engineering and Manufacturing capability
- Well equipped Heavy Fabrication Shop
- Locations : Proximity to Ports (Mumbai & Kandla)
- ASME U, U2, H & R, NB Certification, CE Certified
- Can supply Equipment with CRN, GOST, DOSH certification
- ISO 9001:2008 Quality Management System
- ISO 14000 / 18001 OHSAS
- Well Established Contemporary HSE Policy
- Proven track record in terms of cost, quality and delivery.
- A number of satisfied references in more than 60 countries across all continents.
PRAJ Network

Head Office
Praj Industries Limited,
‘Praj Tower’, 274 & 275, Hinjewadi,
Pune 411057. India
Ph: +91 20 71802000 / 22941000
info@praj.net | www.praj.net

India
North Office
T +91-120-4235341 / 42 / 43
F +91-120-4235344
E info@praj.net

South Office
T +91-80-25251680 / 25251484
F +91-80-25202432
E info@praj.net

Chennai
T 044 24310544 / 24310545
F 044 2431 0466
E info@praj.net

International
North America, Latin America & Caribbean
Cellular: +1-402-516-6560 / +1-214-701-9361
T +1-281-372-6082
F +1-281-372-6391
E jayantgodbole@praj.net or jaygod9@yahoo.com

Europe
T +31-610725174
E mallikarjunn@praj.net

South Africa
T +27-11-8838297
E praj.joburg@mweb.co.za

Middle East & North Africa
T +971-6-5263371
F +971-6-5557302
E praj_mna@eim.ae or praj_mna@emirates.net.ae

South East Asia
T +66-2-6623177 / 8
F +66-2-6623179
E yashmankame@prajfareast.com

Praj Worldwide
Argentina I India I South Africa
Thailand I UAE I USA

Praj Industries Limited
‘Praj Tower’, 274 & 275, Bhumkar Chowk - Hinjewadi Road,
Hinjewadi, Pune 411 057. INDIA
T : +91 20 71802000/22941000
E : info@praj.net | Website: www.praj.net