



For Better Process Efficiency,
Trust on **Expert Engineering.**



INTRODUCTION

Lotus Engineers offers On-site installation of Turnkey Utility & Process Piping for the Process Industry and Commercial establishments in India, South East Asia, Middle East and Africa.

Our business expertise covers Design and Manufacturing of Capital Equipments and Pressure Vessels at our ISO 9001:2008 certified & IBR approved facility in Pune, adapted to latest Indian & International Codes & Standards through Technology Partnerships & Strategic Alliances.

Tube Bending, Boiler Re-Tubing & Modification form an Integral part of our business.

Lotus has an unique distinction of shortest response time & fast completion of jobs.

QUALITY STATEMENT

To be a leading Utility Service & Equipment Provider, Lotus Engineers will pursue continual improvement in Quality, Performance and Timely Delivery of its On-site Services, Materials & Products leading to Total Customer Satisfaction & thereby Guarantee Business and Employee's Growth.



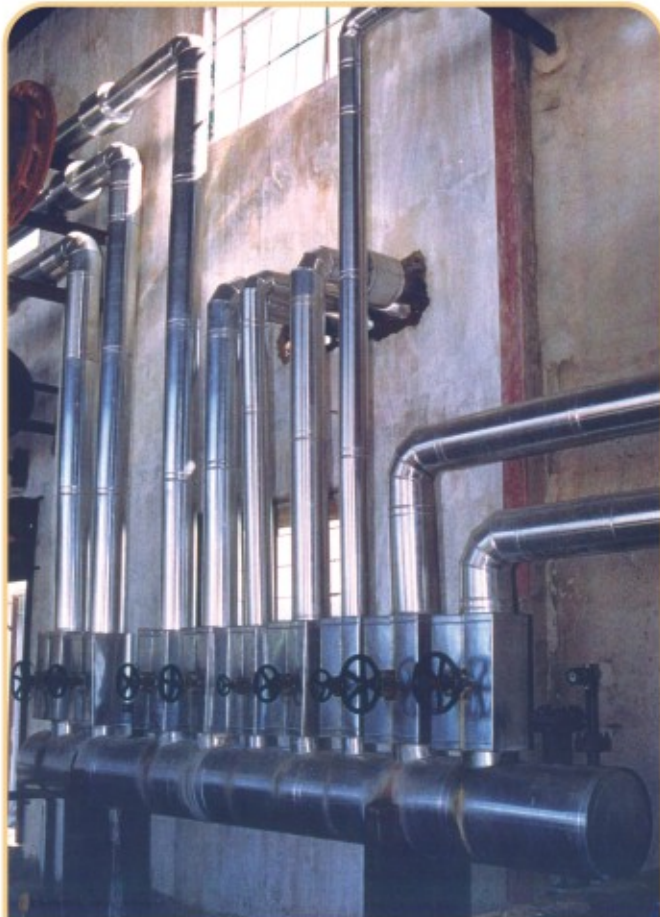
- **Certification** : ISO 9001 : 2008
- **Registration / Licence** : SSI / NSIC / IMPEX
- **Approvals** : IBR / Defence
- **Liaison Contacts** : MPCB / CCOE / Fire Dept.
- **Approved Vendors** : Thermax / Forbes Marshall,
- **Design Associates** : Cadem Software- Pune



TURNKEY PROJECT UTILITY SYSTEMS

Supply of Material, On-site Fabrication, Erection & Testing in Service Specific Materials like MS / GI / SMLS / CS / SS / Alloy Steels / CI / HDPE / PP / PVC & High Pressure & Temperature Ratings of Utility Piping Systems as follows:

- High Pressure Steam & Condensate
- Thermic Fluid
- Hydraulic / Lube Oil
- Compressed - Air / Oxygen / Nitrogen
- Fuel Gas - LPG / LNG / CNG
- Fuel Oil - FO/ LDO / HSD
- Water - Chilled / Cooling / Raw / Soft / RO / DM
- Fire Hydrant
- Flue Gas Ducting
- Thermal & Acoustic Insulation



PLANNING & MONITORING

- Designated Lotus Project Manager (LPM) is a Single Point Contact for Communication and Total Project Planning & Execution.
- He is responsible for Preparation & Monitoring of site team's Adherence to Project Schedule Bar Chart & Quality Assurance Plan.
- Project Bar Chart Incorporates Material Procurement, Despatch, Erection upto Handover.
- Quality Assurance Plan Incorporates Material Certification, Stage Inspection upto Handover.
- Periodic Site Visit & Reporting to Client/ Consultant on Project Development.

EXECUTING & SUPERVISING

- Lotus site engineer/s is on site, round the clock with required Project Team Strength & Infrastructure.
- He is also responsible for the safety of Lotus personnel on site.
- Real time reporting to Lotus project manager.
- Presentation of Project Status in Weekly / Bi-monthly Project Progress Meetings at site with Client/ Consultant.
- Presentation of periodic billing to client/consultant.
- Handing over of Piping System after testing to the required pressure in confirmation to the QAP.

MANUFACTURING : PROCESS EQUIPMENTS & PRESSURE VESSELS

- Steam Accumulator & Calorifiers.
- High Pressure Feed Water Heaters.
- Compressed Air Receivers.
- Custom built process equipments.
- Bucket Strainer for Steam / Raw- Cooling Water.
- Droplet Separator (Steam) & Flash Vessels.
- Boiler Economizer.
- Coil for Coil Type Boiler
- Boiler Blow-Off Tank
- Condensate Flash Vessel
- Steam Heating Coils for Fuel Oil / Feed Water Storage Tanks



MANUFACTURING PROCESS

- Equipments are designed by our qualified & experienced Design Engineers / Design Associates to Service Specific Pressure & Temperature Rating to International Codes & Standards (IBR / IS / ASME) on latest design softwares.
- Acad drafting & approval (Consultant / Statutory body).
- Material (MS / SS / Alloy steel) selection to relevant codes after Approvals, Stage Inspection (Internal / Client / Third party), Manufacturing, Testing, Documentation & Despatch.

MANUFACTURING FACILITY

- Office : 200 sqm
- Covered space : 500 sqm., 5Ton EOT crane, RCC flooring
- Open Space : 8000 sqm with fencing
- Plate Bending : 2000mm x 20mm thk.
- Tube Bending : 65NB x 5mm thk., 125NB x 5mm thk.(CNC)
- Drilling machine : 65mm x 100mm thk.
- Testing Facility : X-Ray/ UT / HT/ PT/ DPT



MANUFACTURING : CHIMNEY, TANKS & GENERAL FABRICATION

- Self Supported Chimney.
- Guy Rope Supported Chimney.
- Structurally Supported Chimney.
- Flue Gas Ducting.
- Corrosive Vapour Ducting.
- Bulk Oil Storage Tank / Fuel Oil Day Tank (Electrical / Steam Heating)
- Feed Water Day Tank.
- Product Bulk Storage / Process Tanks in MS / SS.



MANUFACTURING PROCESS

- Self Supported Chimney designed as per IS 6533 on custom software, updated to latest local PCB norms.
 - Structurally Supported Chimney, Flue Gas Ducting & Product Storage Tanks are designed by our qualified & experienced design associates.
 - Horizontal & Vertical Fuel Oil Tanks are designed to IS 10987: 1992 & IS : 803-1976 respectively, updated to latest CCOE norms.
 - Acad Drafting & Statutory Approval (Consultant/ PCB/ CCOE)
 - Material (MS/ SS/ Alloy steel) selection to relevant codes after Approvals, Stage inspection (Internal/ Client/ Third party), Manufacturing, Sand blasting, *Specific Surface Treatment, Despatch, Transport, Unloading & Erection at site.
- * Surface Treatment for Prevention of Corrosion to Chimney :
- HR Painting / Refractory / Rubber / SS Lining for Internal Protection
 - HR Painting / Zinc / Aluminum Metal Coating for External Protection.



BOILER REPAIR, MODIFICATION & FUEL CONVERSION

- Water Tube Boiler Re-tubing.
- Smoke Tube Boiler Re-tubing & Furnace Replacement.
- Smoke Tube Boiler modification for Capacity Enhancement / Fuel Conversion.



BOILER & HEAVY EQUIPMENT ERECTION / INSTALLATION

- Fuel Oil / Solid Fuel Fired Boiler
- Solid Fuel Fired External Furnace Boiler
- Bi- Drum Water Tube Boiler
- Coil Type Boiler
- Thermic Fluid Heater

MAJOR JOBS EXECUTED

Turnkey Project Utility Systems :

- Weikfield Agro Ltd., Wagholi, Pune
- Soma Textiles & Inds. Ltd., Pune
- Seagram Distilleries Ltd., Nasik
- Enkei Cast Alloys Ltd., Sanaswadi, Pune
- K K Nag Ltd., Urse/ Ranjangaon, Pune
- Mahendra Forging Ltd., Chakan, Pune
- Datta Chem Ltd., Kurkumbh, Pune
- Hindustan-Dorr-Oliver Ltd., Aurangabad
- Spica Ltd., Pune
- Wadco Packaging Ltd., Ranjangaon, Pune
- Raffel Square Hotel, Pune
- Gandour Foods (I) Pvt. Ltd., Hyderabad
- Vizag Steel Plant (PSU), Visakhapatnam

Steam Piping Network :

- Kalyani Steels Ltd., Pune
- Penguin Alcohol Ltd., Goa
- TASC Pharma Ltd., (Marksons), Kurkumbh, Pune
- Govind Milk Products Pvt. Ltd., Phaltan.
- Swaraj India Inds. Ltd., Phaltan, Satara
- Jolly Board Ltd., Aurangabad
- Renfro India Ltd., Pune & Nasik
- Hindustan Polymer Fibre Ltd., Kurkumbh, Pune
- Ordinance Factory, Dehu Road, Pune

International

- RAK Ceramics Ltd., Sudan
- Zanzibar Sugar Mills Ltd., Tanzania
- Lallan Rubber, Srilanka
- Uruvilla Tea Factory, Srilanka
- Work Wear Lanka Pvt. Ltd., Srilanka
- Industrial Clothing Ltd., Srilanka
- Dubai Metro Rail Project, UAE

Fire Fighting Systems

- KSB Pumps Ltd., Pune
- DLF Ltd., Hinjewadi, Pune
- Firepro Pvt. Ltd., Hinjewadi, Pune

Boiler Installation :

- Shirke Paper Mills Ltd., Shirwal, Pune
- Mahyco Ltd., Jalna
- Shreya Biotech Ltd., Hinjewadi, Pune
- Indian Seamless Ltd., Jejuri, Pune
- Champion Gasket Pvt. Ltd., Kane-Phata, Pune
- Somaiya Organo Chemicals Ltd., Ahmednagar
- Centaur Pharmaceuticals Ltd., Hinjewadi, Pune
- Indian Aluminum Co. Ltd., Taloja, Mumbai
- Matrix Forge Pvt. Ltd., Sanaswadi, Pune
- Serum Institute Ltd., Hadapsar, Pune
- Indo Australia Ltd., Talegaon, Pune
- Parksons Packaging Ltd., Chakan, Pune

Boiler Repair / Modification :

- Kalyani Steels Ltd., Pune
- Parakh Foods Ltd., (Cargill), Kurkumbh, Pune
- Sudarshan Chemical Inds. Ltd., Roha, Raigadh
- Pune Dal & Mills Ltd., Kurkumbh, Pune
- High Explosive Factory, Kirkee, Pune
- Morbi Oil Inds. Ltd., Gujrat
- Wellcome Distillery, Chattisgarh
- Katraj Dudh Dairy, Katraj, Pune
- Parag Milk Foods Pvt. Ltd., Manchar, Pune

Chimney / Tank & General Fabrication

- Soma Textiles & Inds. Ltd., Pune
- Jain Irrigation Ltd., Jalgaon
- Force Motors Ltd., Pune
- Hindustan Beverages Ltd., Wada, Thana
- Shreya Biotech Ltd., Hinjewadi, Pune
- INA Bearing Ltd., Chakan, Pune
- Kirloskar Oil Engines Ltd., Ahmednagar

Process Eqpt. & Pressure Vessels

- K K Nag Ltd., Urse & Ranjangaon
- Thermax Ltd., Pune
- ARCA Marshall Pvt. Ltd., Pune
- Somaiya Organo Chemicals Ltd., Karnataka
- Raffel Square Hotel, Pune

OUR CLIENTS





Datta Petro Chem Ltd., Kurkumbh, Pune



Regd. Off/Works:

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