

Techno Process Eqpts (I) P Ltd



DISTILLATION COLUMN: Hindustan Petroleum - Vishak refinery. 35M long EPC: TECHNIP Inspn: TUV/Toyo.

COMPANY PROFILE









OHSAS 18001 Company



















HEAT EXCHANGERS : Engg: Foster Wheeler Paradip Refinery.







Claus Reaction FURNACE for Black & Veatch.

Tel: +91 22 7148 1000 Fax: +91 22 7148 1099 E-mail: tpeho@technoprocess.com



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Annexure I

Introduction





INTRODUCTION

Techno Process Equipments (India) Pvt Ltd is a ISO 9001 certified, ASME U stamp company run by highly experienced technocrats catering to the requirements of critical equipments for the Oil refineries, Petrochemical, Fertilizer and Steel Industries.

The company was established in 1981 & has fully equipped medium size fabrication and machine shop with a handling capacity of 650 MT, length 90M & height of 13.5M. It's nearness to Mumbai/ Dahej makes it easily accessible by sea.

The range of equipments designed and manufactured are,

- 1. Shell and Tube Heat Exchangers
 - a) U Tube
 - b) Straight Tube
 - c) Finned Tube
 - d) Floating Head Type
 - e) Shells with flexible elements.

 Condensers, Evaporators, Reboilers, etc.
- 2. Pressure Vessels
 - a) High Pressure Vessels (Thickness upto 250mm)
 - b) LPG, NH3, CO2, CI2, etc. Storage Vessels under CCE.
 - c) Boilers & Pressure Vessels under IBR.
 - d) Reactors (Internals coils, Limped coils)
 - 3. Distillation Columns.
 - 4. Agitators
 - 5. Steel plant equipments like Scrubbers, Charge distributers for Furnace feed / Dust collection systems & Recuperators for waste heat recovery.
 - 6. Shop fabricated Heaters / Incernerators / Stacks / Helical coils Fired Heater Repairs in Refinery turnarounds.

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We have all the Oil refineries, Major Petrochemical /Chemical plants & Steel Industries in India as our clients.

ENGINEERING CONSULTANTS / LSTK CONTRACTORS

We are working with consultants like Engineers India Ltd, Lurgi, UHDE, Akerkvaerner, Jacobs, Bechtel –India / UK /Houston, Foster Wheeler – Houston / Singapore / UK, John Brown- UK, Raytheon E&C – The Hague, Haldor Topose - Denmark etc.

LSTK Contractors such as Toyo Engineering, Technip, Petrofac –Sharjah, Daelim ,ICB Technimont , Black & Veach, Snamprogetti , Samsung Engineering ...

We manufacture our products under Inspection Agencies such as Lloyds Register, Bureau Veritas, Det Norkse Veritas, TUV ... generally as ASME, TEMA, PD5500, API, EJMA, ISO, Indian standards

We fabricate from a range of materials in ferrous/non ferrous.

Ferrous materials include Carbon steels, Stainless steels, Cr-Mo steels etc...

Non Ferrous include Aluminium, Aluminium Bronze, Cupro Nickel, Monel,

Titanium & other Nickel alloys.

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COMPANY DETAILS.

ENGINEERING & ADMINISTRATION OFFICE

CORRESPONDENCE ADDRESS

ADDRESS : Techno Process Equipments (India) Pvt Ltd.

R261, MIDC Rabale, Thane Belapur Road,

Navi Mumbai. 400 701. India.

TELEPHONE : + 91 22 7148 1000 FAX : + 91 22 7148 1099

EMAIL : tpeho @ technoprocess.com

CONTACT PERSON : Amandeep Singh / G.Manjeshwar

Executive Director General Manager - Mktg

MAIN WORKS

WORKS: Techno Process Equipments (India) Pvt Ltd.

B-92, MIDC, Additional Ambernath.

Ambernath (E) – 421 506

Telephone: + 91 251 262 1434 / 1893 e-mail: ambernath@technoprocess.com

WORKS :

Survey No. 297, Bhadbhut Kasva Road, District Bharuch – Gujarat – 392 130 Telephone: + 91 264 227 6066 / 6161 e-mail: bharuch@technoprocess.com





EXISTING FACILITIES (SHOP)

Rolling capacity : 3200 (Width) x 250mm (thk)

<u>Drilling capacity</u> : CS, SS, Non Ferrous

Chemical & Petrochemical Industries

Max Diameter : 3500 mm Max Hole Dia : 50 mm Max Thickness : 350 mm

8 mm x 2750 Nos. Min Hole Dia

For Steel Plants

: 2000 x 3250 Max Size Max Hole Diameter : 114 mm

Machining Capacity:

Max Tube Sheet Dia : 3500 mm Max Vessel/Exchanger Dia : 2250 mm Max Length : 4000 mm

Cutting Capacity

Max thickness in Stainless Steel: 100 mm by Plasma cutting using Argon & N2 gas.

Welding Technique

Submerged Arc Welding (SAW) : Semi- Automatic

Shielded Metal Arc Welding (SMAW) : Manual Tungsten Inert Gas Welding (TIG) : Manual Gas Metal Arc Welding (MIG) : Manual Flux Core Arc Welding (FCAW) : Manual : Sami Au

Strip cladding (EFSW) : Semi Automatic

We have installed Thyristor controlled Rectifiers to eliminate any fluctuations in voltage and current during welding.

Our welders are qualified for single side full penetration welding of radiographic quality.

Metallurgy:

Low Temperature Carbon Steel

CS for HIC /NACE Service

Low alloy steels - Cr-Mo Steel

Stainless steels –

Austentic, Ferritic, Duplex.

❖ Non Ferrous

Copper Alloys:

Al Bronze, Cupro Nickel ... Nickel alloys: Monel, Inconel...





Cold Forming Capacity :

1. Dish Ends

Max Diameter : 12000 mm or more in Petals

5000mm single pc.

Max Thickness : 100 mm

We have capability of forming all types of dish ends & cones

including Crown & Petal construction.

2. Limped coils

Max Diameter : 6500 mm

3. Coils

Max Mean Coil Diameter: 6000 mm

4. Expansion Joints

Single as well as multiple convolutions, as per

Expansion Joints Manufacturers Association (EJMA)

Only Thick wall bellow manufactured in-house

5. "U" Bends

Hydrotesting jigs are for hydrotest after bending.

6. Fabricated Flanges

Max Diameter : 4500 mm Max Thickness : 250 mm

Heat Treatment :

4000 x 4000 x 12000

6000 x 6000 x 2000

5000 x 5000 x 15000 or Modular Furnace of reqd size.

Heat Treatment also done by flue gas method & by Electric

resistant method.

Larger equipment are Heat Treated in situ with Flue Gas method.

Shot Blasting : Inhouse

<u>Hydro Testing</u>:

A bore well is installed for easy availability of clean water (Chloride

content < 20 ppm) for Hydrotesting of Bulky Equipments.

DM water also available.

Maximum Dimensions:

Max Weight of equipment 650 MT Max Diameter 13.5M

Annexure I I

ISO 9001: 2008 ISO 14001& OHSAS 18001 ASME U, U2, R Certificate





MANAGEMENT SYSTEM CERTIFICATE

Techno Process Equipments (India)

R - 251, M.J.D.C. Reball, Thans - Betspur Road, Nevi Murrosi - 400 701, Maharashtra, India 5: 50, M.J.D.C. Arland Nager, Additional Anthonorists, Thans - 421 506, Maharashtra, Norwick No. 297, Shadbhul - Kanis Rued, Sheruch - 392 130, Oupers, India W - 397, H.L.D.C. Assists, There : Bulletin Road, Navi Particle - 902 701, Haharamora

tion been found to confirm to the Quelity Heregement System eloids or 150 9001:2008





THE NATIONAL BOARD

OF BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization



Irokus Process Equipments (India) Pr DVI, MIDY: Assend Nague Additional Aphrosorth Andersorth (E.), Maharashtia, 421506



THE NATIONAL BOARD

OF BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization





MANAGEMENT SYSTEM CERTIFICATE

Techno Process Equipments (India)

BUTT-







CERTIFICATE OF AUTHORIZATION

Engineers

of Mechanical

Society

American

AUTHORIZED:

July 31, 2015 EXPIRES: August 24, 2018
GERTIFICATE NUMBER: 38,872





CERTIFICATE OF AUTHORIZATION

Engineers

Society of Mechanical

American

AUTHORIZED:

MANAGEMENT SYSTEM CERTIFICATE

Techno Process Equipments (India)

OHSAS 18001:2007







CERTIFICATE OF AUTHORIZATION

Society of Mechanical Engineers

American

Rudad Rolling





company is sufficient by the American Society of Mechanican Engineers is exceed a facility shown below in accretioner with the applicable notes of lies and Pressure Visional Code. The use of the certification mark and the dip with Gentification of a subject to the provisions of the flow in the application. Any construction stamped with this certification between the difference of the ASSM Bollet on the Code of the Code of

Engineers

of Mechanical

American Society

Manufacture of pressure vessels at the above location and field sites controlled by the above location

EXPIRES:







Annexure III

Infrastructure

CAPACITIES

	Ambernath	Bharuch		
Max Dia	5.0M	13.5M		
Max Thk	125mm	250mm		
Max Length	45.0M	90.0M		
Max Wt	250.0MT	650.0MT		
QA Certs	ASME U,U2,R	ASME U, U2, R		
	ISO 9001,14001	ISO 9001,14001		
	OHSAS 18001	OHSAS 18001		















SHOP & YARD FACILTIES

Covered Shop Area = 10,000sqM Total Area: 265,000.0SqM

Plate Storage & Pre Fabn Bays #3 & #4













SDM-1714



CNC Drilling

Vertical Turning Lathe (VTL Machine) 3.5M Ht x 6.5M Dia:

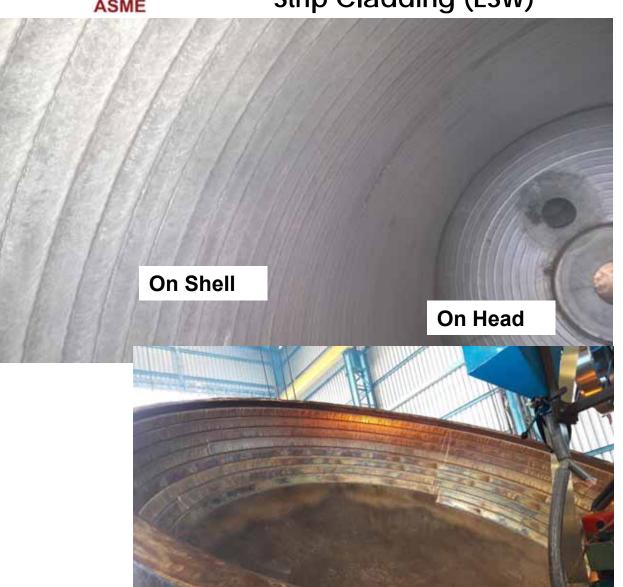




Strip Cladding (ESW)

Welding Techniques adopted:

- Submerged Arc Welding (SAW)
- Shielded Metal Arc Welding (SMAW)
- Tungsten Inert Gas Welding (TIG)
- ❖ Gas Metal Arc Welding (MIG)
- Flux core Arc Welding (FCAW)
- ❖ Pipe WD inlay welding (GTAW)
- Electro slag Cladding (ESW)



Head being Strip clad on Welding positioner









Heat Treatment Furnances:

Stress Relieving: 8.0M x8.0M x23.0M Lg Normalizing: 4.5M x 7.0M x 7.0M



~5.0M Dia Ellipsoidal Head

being Normalized.



















PAINTING BOOTH



View of Painting Booth @ Ambernath. 6.0M Ht x 7.0 Wx 13.5M Lg





View of Workshop at Ambernath – Single pc lifting 250.0 MT / 125thk



Proximity to Sea Port: View of Loading of 6.4M Dia vessel onto the ship



Annexure IV

Work Experience

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APPROVED BY: END CUSTOMERS.





















شــركة أبــوظبي للعملــيات الــبتروليــة الــبرية (أدكــــو) Abu Bhabi Company for Onshore Oil Operations (ADCO)





















BLACK & VEATCH





























Annexure **V**

Product Catalogues

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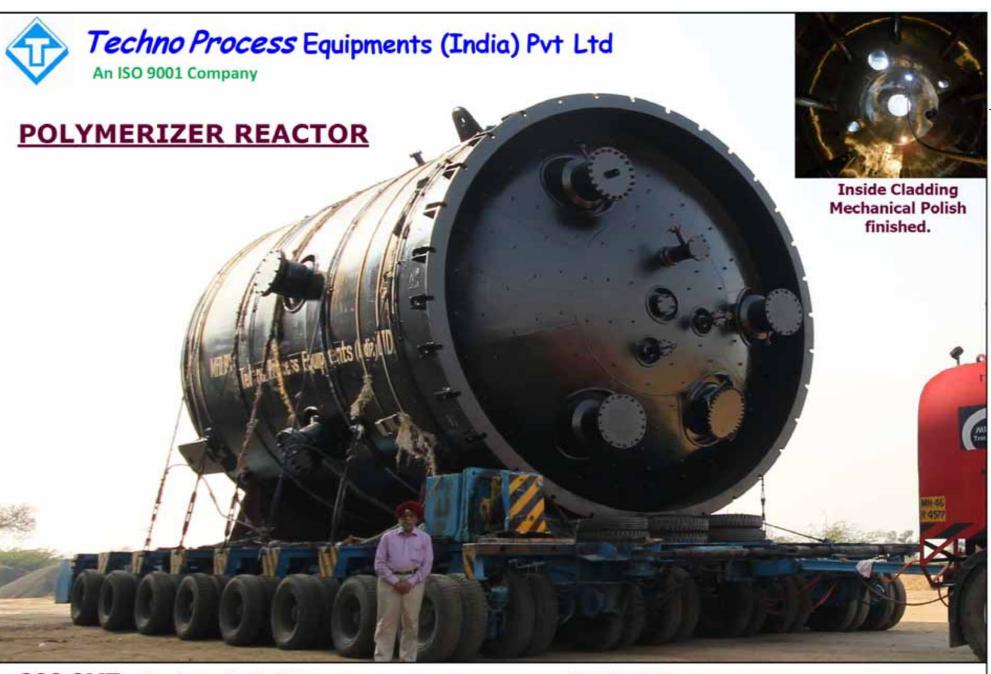


Techno Process Equipments (India) Pvt Ltd. Tel: +91 22 7418 1000.

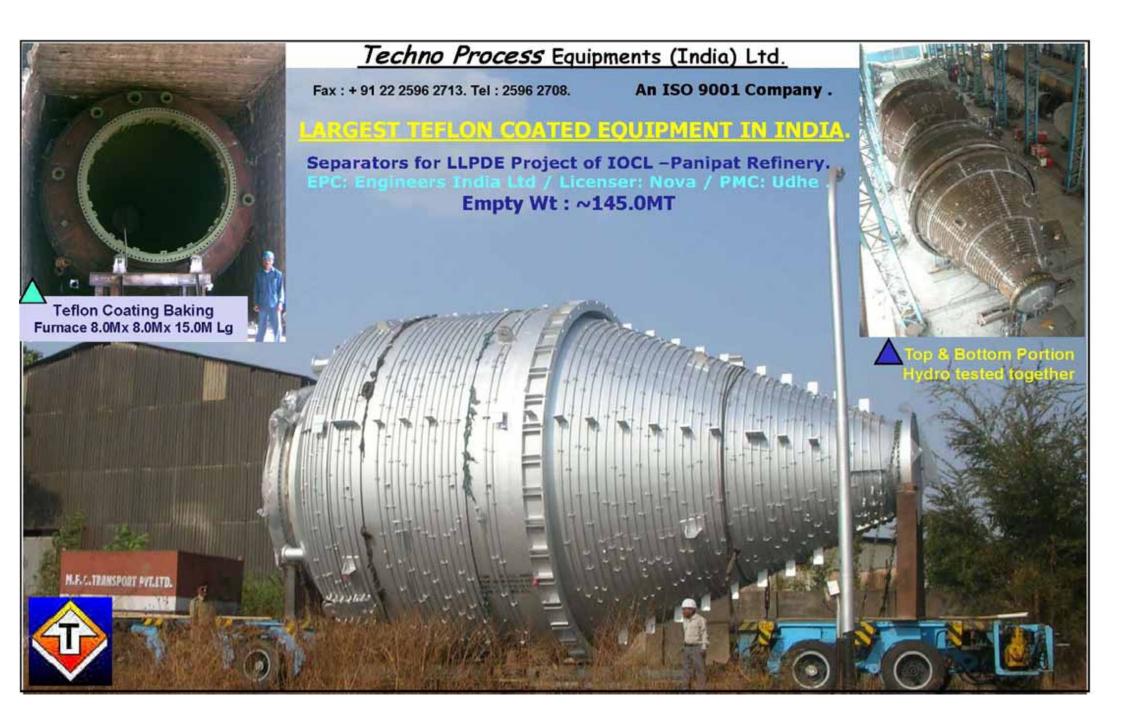


Licensor: Foster Wheeler - Houston. SA516 Gr 70 + SS410 Clad. with Internals





200.0MT - Jacketed Clad Reactor for Opal- Dahej. /EPC: SAMSUNG /PMC: EIL/ Inspection : TUV/EIL.



Techno Process Equipments (India) Pvt Ltd An ISO 9001 Company. PTA Reaction Vessel (SS316L) 6.2M Dia x 15.0M Lg- 60.0MT Project : Reliance PTA Plant Dahej.



Techno Process Equipments (India) Pvt Ltd

An ISO 9001 ,ISO 14001 & OHSAS 18001 Company.

Distillation Columns & Pressure Vessels HIC CS + Alloy 825 Clad with Internals.

Client: ADCO/EPC: Punj Lloyd, Inspn: Intertek & ASME AIA

















METHANOL DRUM -

~9.0M Ht & Width x 30.0M Lg

Wt: 300.0MT

Project : Reliance – Jamanagar Refinery

Inspn: TUV, Consultant: Linde

Large ODC Equipment being despatched via SEA.





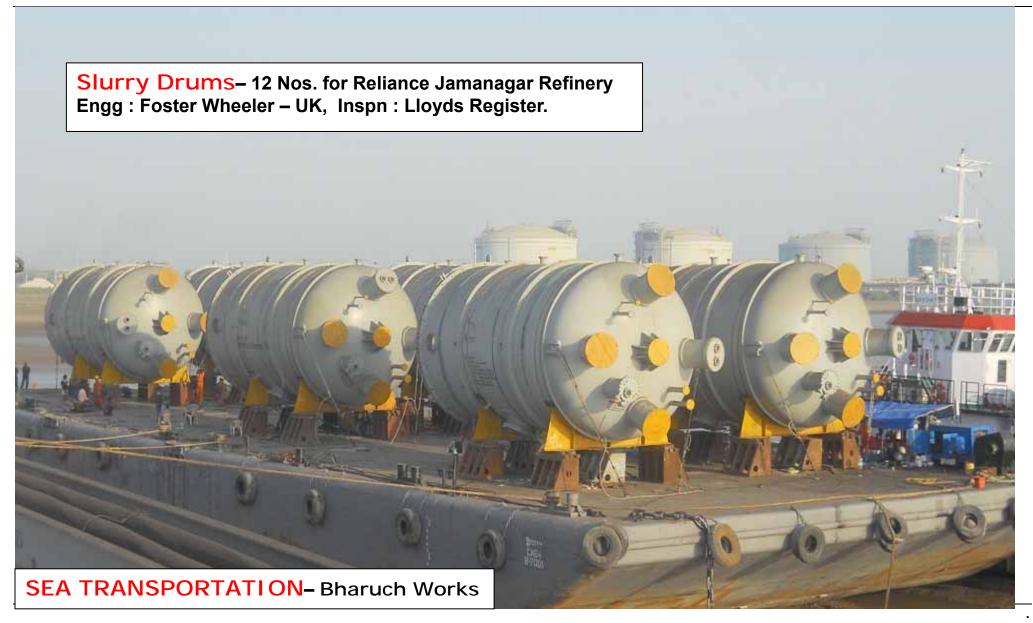










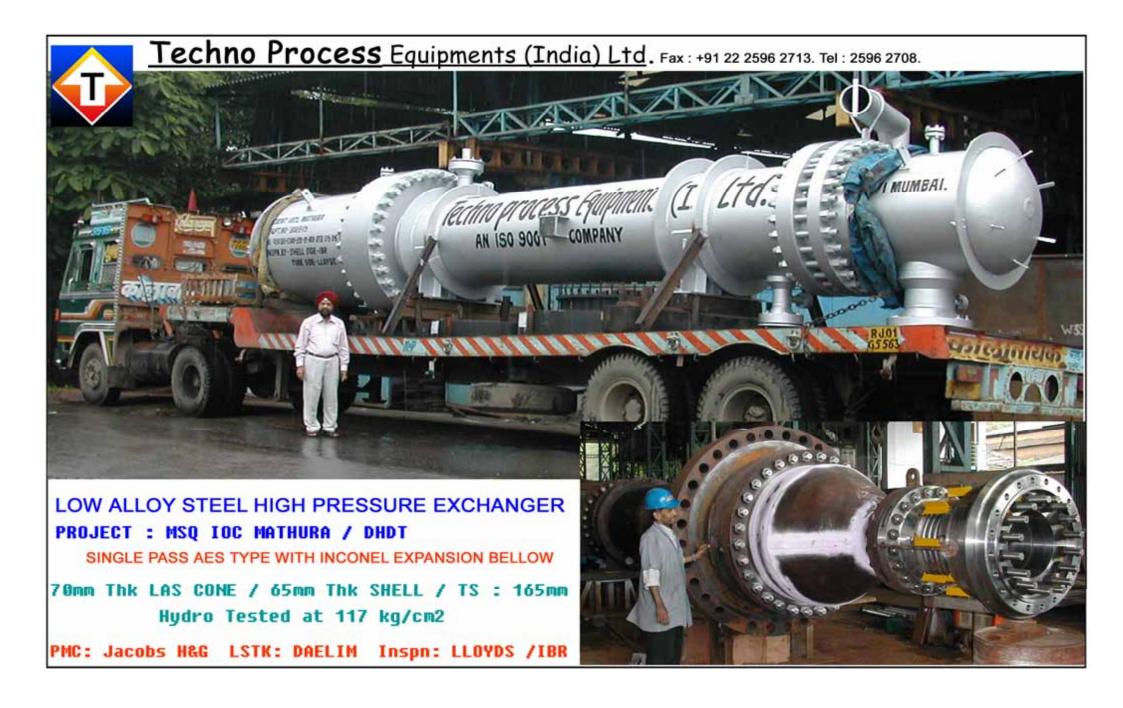


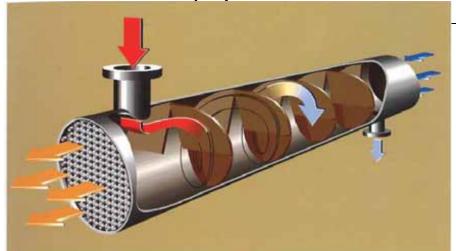












HELIXCHANGER® 169
Heat Exchanger



HELIXCHANGER

Licensor: CB&I

Lummus Heat Transfer

Project : Coker Block,

Chennai Petroleum.

PMC: Jacobs.

Inspn: TUV Nord / IBR / EIL



Techno Process Equipments (India) Pvt Ltd







RCF Thal: HWP











Techno Process Equipments (India) Ltd. Fax: +91 22 2596 2713. Tel: 2596 2708.

An ISO 9001 Company.

NON FERROUS HEAT EXCHANGERS.



2. Cupro Nickel Tube bundle Expansion under progress. T/S: 90/10 Cu Ni / Tubes: 70/30 Cu Ni. Inspn: Lloyds Register.

3. Titanium Tube bundles. Tubesheet : Al Ni Bronze Inspection : DNV.