



TEAM

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TITANIUM EQUIPMENT AND ANODE MANUFACTURING COMPANY PRIVATE LIMITED

TITANIUM EQUIPMENT AND ANODE MANUFACTURING COMPANY PRIVATE LIMITED, popularly known as **TEAM** commenced its production on 7.7.77. **TEAM** has to its credit of bringing many innovative and delicate technologies for the first time in India. **TEAM** specializes in handling exotic and special metals like Titanium, Tantalum, Zirconium, Nickel, Nickel Alloy, Copper, Copper Alloy and Special Stainless Steel of all Grades SS 304, SS 304L, 316, 316 L, Duplex, Super Duplex, 321, 347, Carpenter Alloy 20 & Alloy Steels etc.

TEAM has carved out a niche for itself in the design and fabrication of Heat Exchangers, Pressure Vessels, Condensers, Reactor Columns and Custom built equipment catering to Chemical, Petrochemical, Refineries, Fertilizer and Nuclear Power Industries.

TEAM is committed to Green Technology initiatives and makes consistent headway in contribution to clean environment, energy and water.

Equipped with latest version of AutoCAD, HTRI, Pro-E (Creo Element) software. And also we have PV Elite, Compress software for Mechanical design and FEA Analysis of Static Equipment.



MANY FIRSTS IN INDIA

The Group, established by Founder Chairman Dr. C H Krishnamurthi Rao has many "firsts" to its credit. The group has received numerous patents and worldwide recognition for the viability of many of his innovative technologies.

1. First to introduce Titanium welding technology.

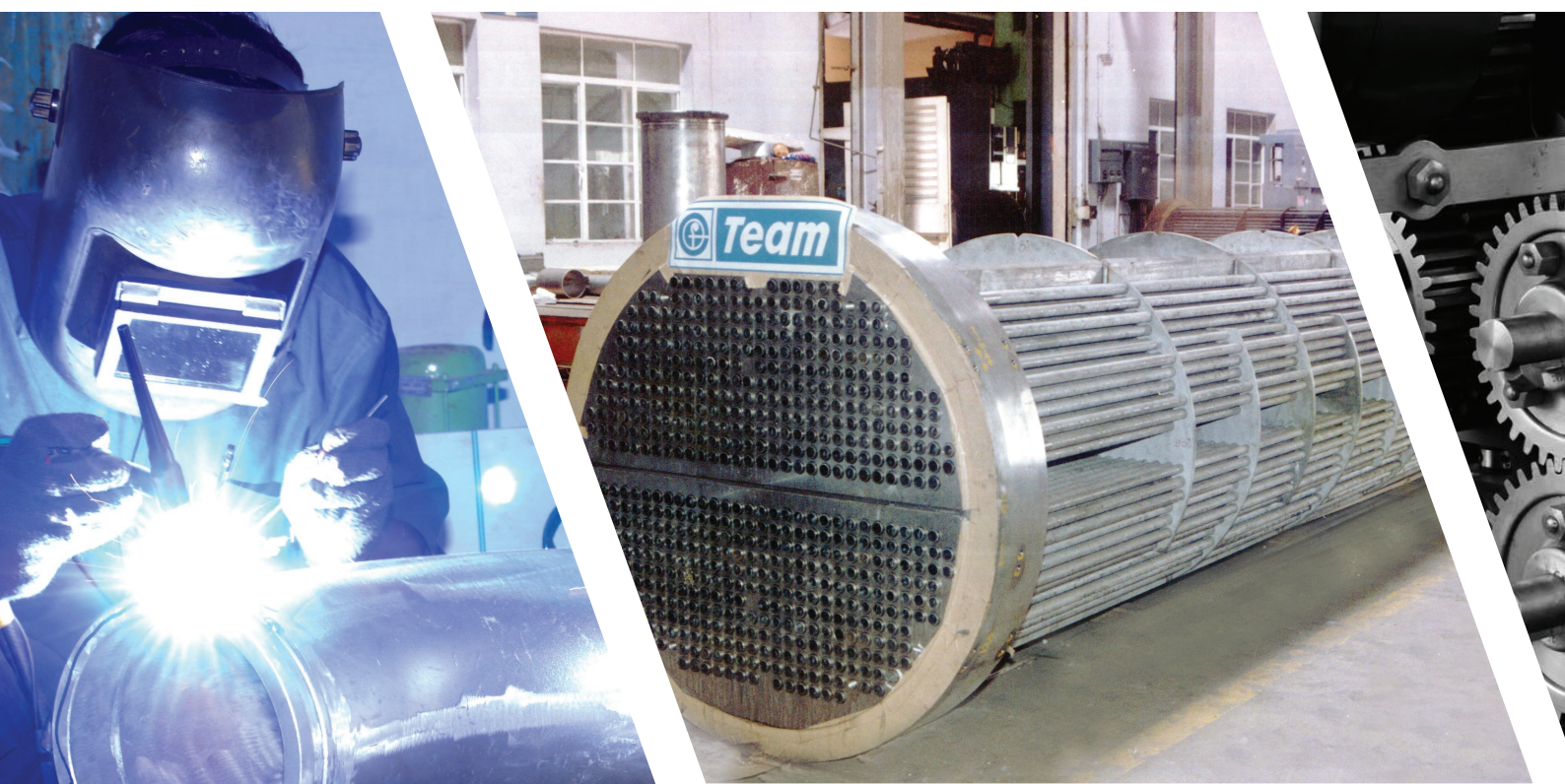
2. First to fabricate equipment out of exotic metals – import substitute – saving substantial foreign exchange.

3. First to introduce Titanium Metal Anodes for Chlor Alkali industry, to protect environment and save energy.

4. First to put up a Sea Water Desalination Plant – Demo plant on a pilot scale at Marina Beach in 1988 – became a trend-setter for the Governments to establish many such Desalination Plants.

5. First to introduce and successfully implement Ion Exchange Membrane Cells for chlor-alkali industry – Green energy and energy efficient – the success paved the way for the Central Government to take a policy decision that future / expansion chlor alkali plants shall only adopt this technology.

6. First to manufacture capillary type Ultrafiltration membranes – single and multi-bore, and Systems for water treatment – to recycle and reuse waste water and other applications.



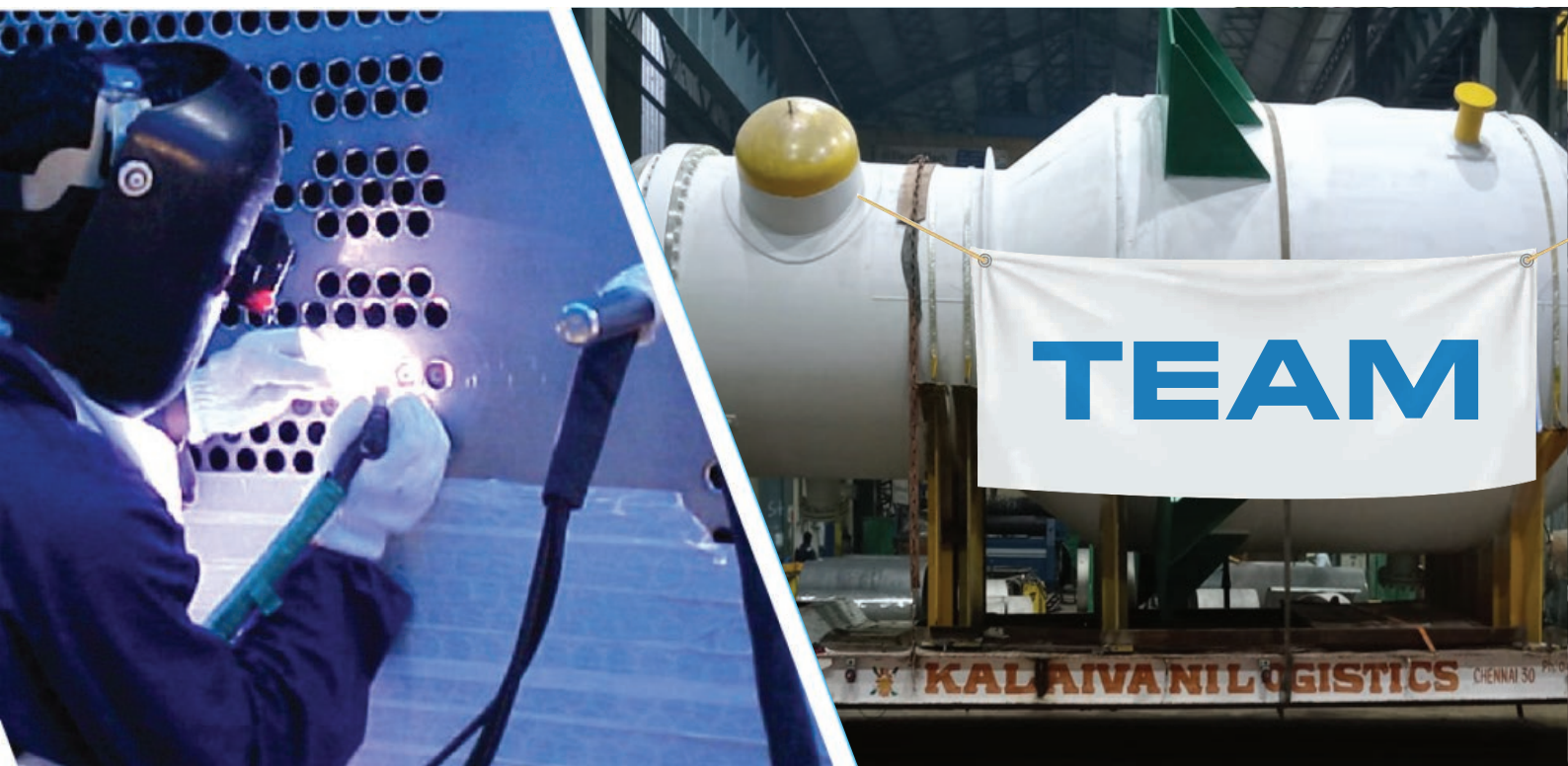


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PRODUCTS

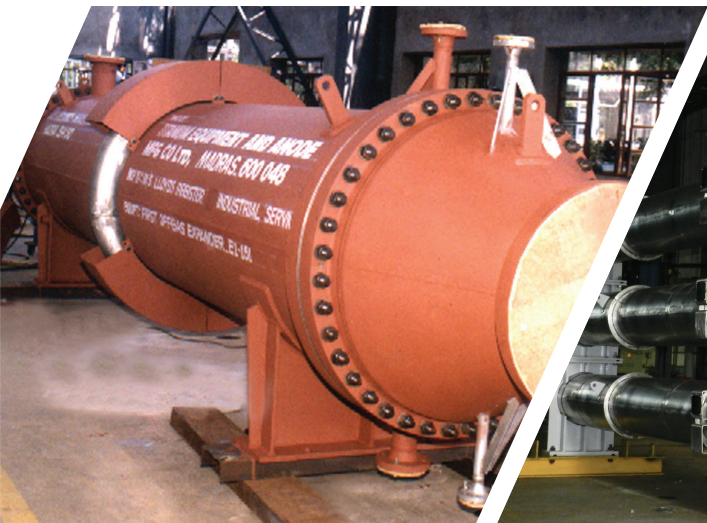
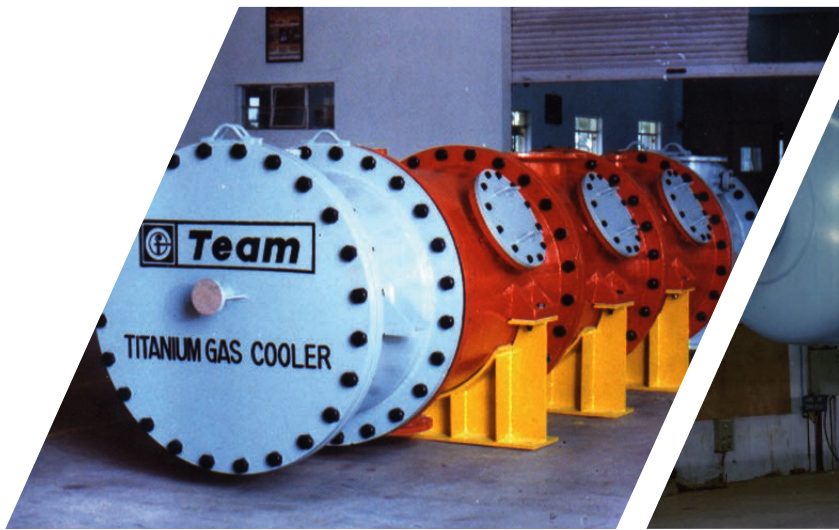
- Heat Exchangers (STHE, DPHE & Hairpin Type)
- Skid Package
- Pressure Vessels
- Storage Tanks
- Lined & Cladded Vessels
- Columns
- Reactors
- Evaporator
- Pumps
- Blower
- Depleted Brine Tank
- Scrubber
- Ultrafiltration Membranes
- Fabricated Pipes & Fittings (Ti & Ni)
- Ti, Ni, Duplex & Hastalloy Piping
- Cell Rack Assembly
- Surface Condensers
- Chlorine Dioxide Generator
- Heating Coils
- Anodes – (Platinisers, Metallic Coated and plated on substrates like Titanium, titanium Alloys, Niobium & Tantalum).



HEAT EXCHANGERS

TEAM

TEAM's Engineering Department is equipped to design Shell and Tube, Double Pipe, Hairpin type Heat Exchangers, Pressure Vessels, Storage Tanks, Columns as per various National / International Codes and Standards viz., ASME Sec. VIII Div 1 & Div 2, TEMA, IS2825, IS1893, IS875, PD550 & API 620 / 650 / 660 (British Standards).



SKID MOUNTED EQUIPMENT

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TEAM besides providing equipment also supplies structural assembly for heat exchangers, columns, pressure vessels, etc.



ULTRA FILTRATION MEMBRANE

TEAM

Membrane Hitec (Division of **TEAM** is the pioneering manufacturer of Capillary Ultrafiltration Membranes in India from 2000. The technology was developed by Membrane Research Technology Singapore and commercialized in India.

The advantages of UF Membranes are

- Low operating pressure and low transmembrane pressure
- Higher operating flux and low fouling
- MWCO range 10 KD to 100 KD
- Low power consumption

Application: Used in Sewage treatment plant, Effluent treatment plant, Sea water pretreatment prior to RO feed, Endotoxin removal in dialysis water, Colloidal silica in Boiler feed water, POU in packaged drinking water plants, brine purification in caustic soda plants, Cooling water recycle etc.



SERVICE

TEAM

TEAM is known for its world class service capabilities catering to the wide range of industry requirements. **TEAM** has highly experienced and qualified team of service personnel. With our efficient team **TEAM** providing the following range of services.

- Welding On-site / Off-site
- Piping (for various industrial requirements as per the customer specifications)
- Rubber Lining to Equipment
- In-house facility for Titanium welding
- Special Titanium components for tailor-made customer requirements



PIPING

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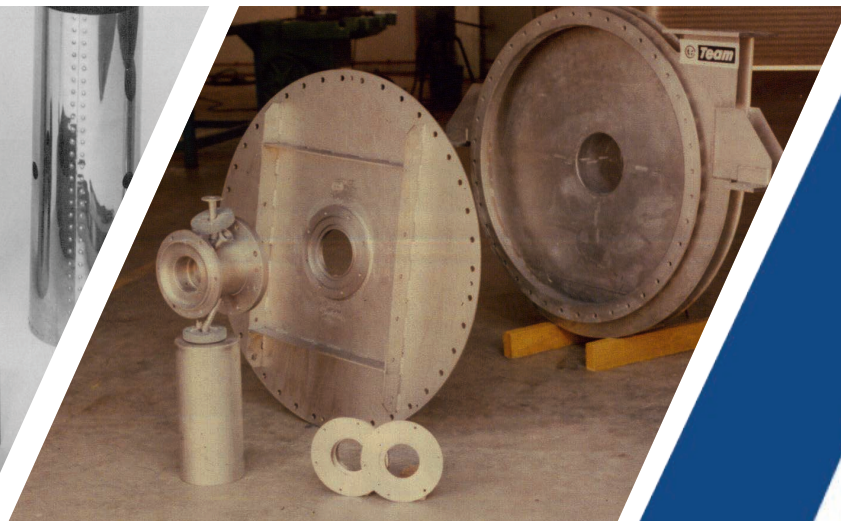
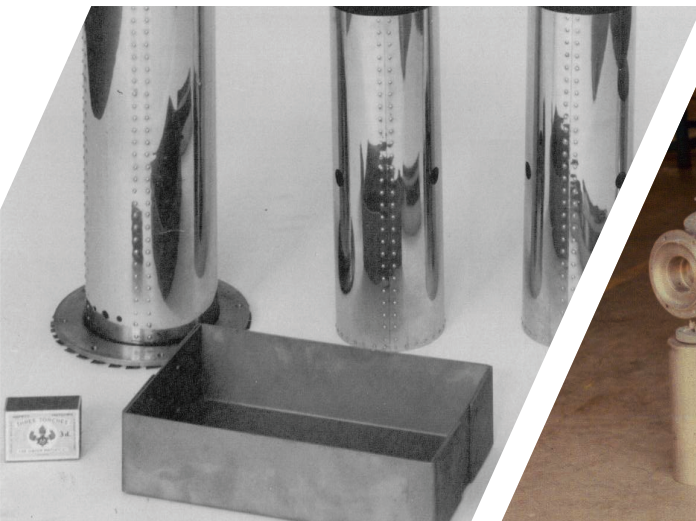
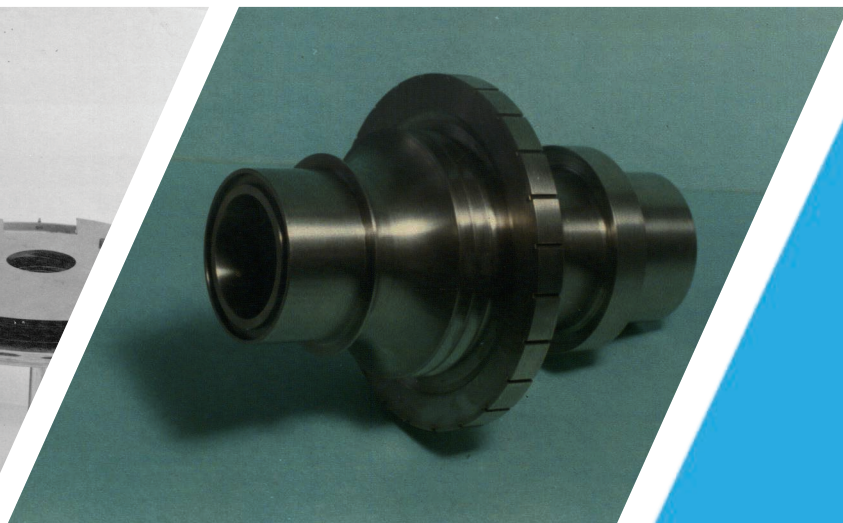
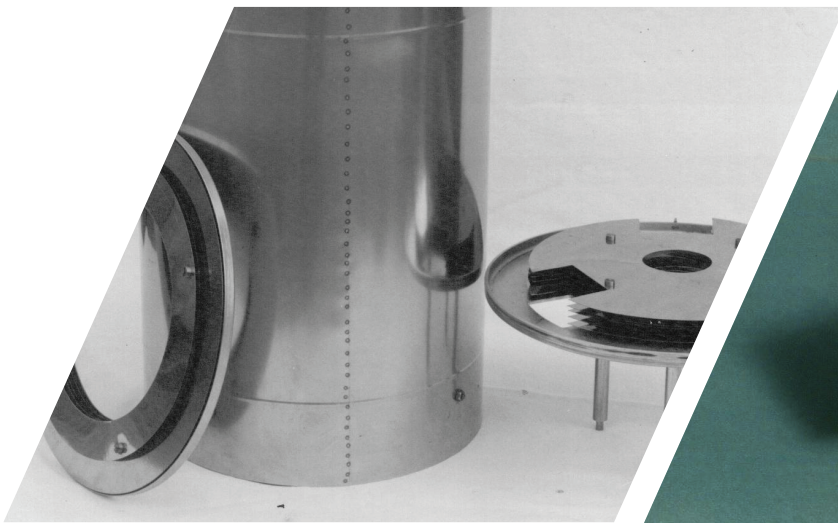
TEAM has experienced work force to handle piping needs as per the on-site requirements. **TEAM** can send an experienced team to ensure piping project is completed on time.



OTHER PRODUCTS TITANIUM – MACHINING/ FABRICATION

TEAM

- **TEAM** provides industrial solutions for complicated equipment.
- **TEAM** can manufacture parts of equipment using exotic metals such as Titanium, Tantalum etc., in any size and shape.
- **TEAM** provides precise machining using exotic materials.



PRESSURE VESSEL & COLUMNS



TEAM

TEAM has expertise in designing and commissioning pressure vessels to hold gases or liquids at a specified pressure that are substantially different from the ambient pressure.

TEAM has been designing columns that are primarily used in paper and pulp industries as per the customer requirements. **TEAM** can design and manufacture shells for columns as well as complete columns platforms, ladders etc.

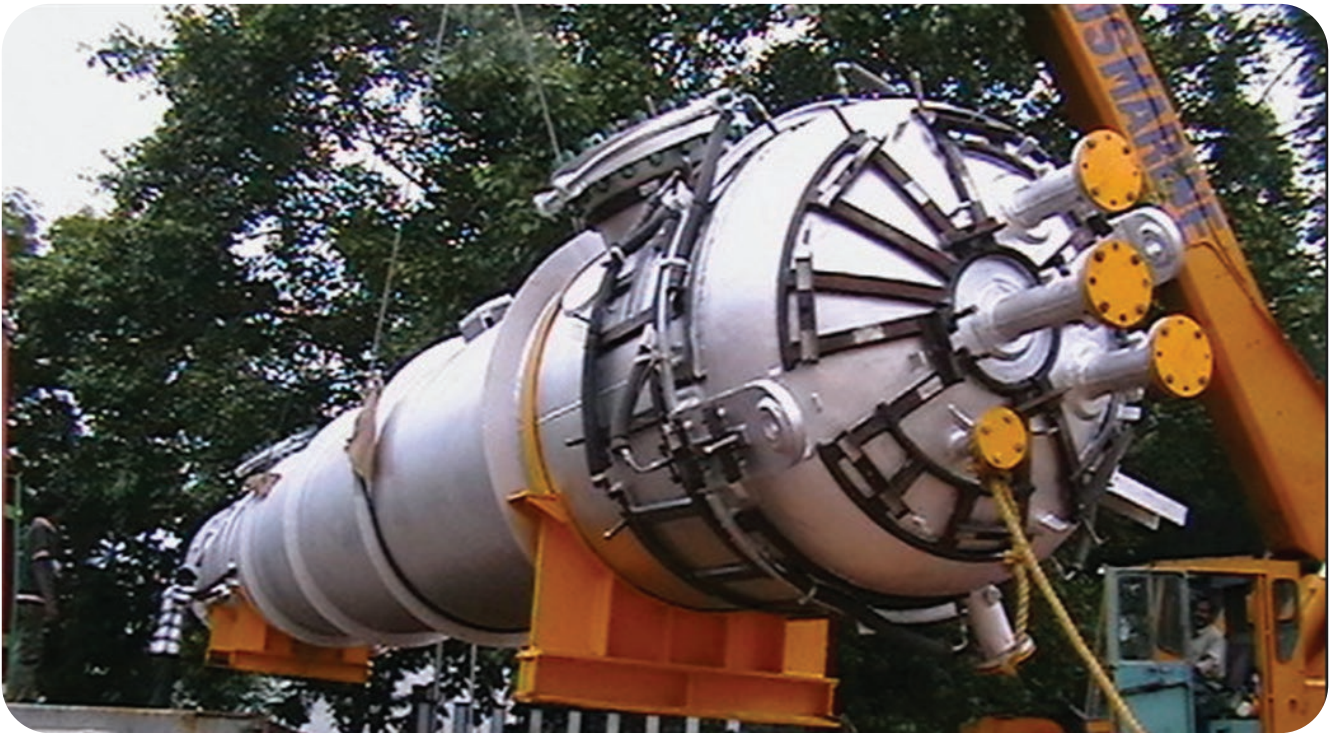


PUMPS & BLOWERS / VALVES

TEAM

TEAM is one of the pioneers in the manufacturer of Titanium Pumps, Blowers and Valves. **TEAM** has facilities to create tailor made design and manufacture of pumps and blowers as per the customer requirements. Being made in Titanium, it will be corrosion free.





CLIENT : DUTCO TENNANT **EQPT. :** CLADDED VESSEL **MOC :** CLADDED CS + SS 304L



CLIENT : TKIS **EQPT. :** SYNGAS BUFFER DRUM **MOC :** CLADDED CS + SS 304L

PHOTO BOARD TEAM



CLIENT : TKIS **EQPT. :** SYNGAS BUFFER DRUM **MOC :** CLADDED CS + SS 304L



CLIENT : RIL - PATALGANGA **EQPT. :** ELP STEAM RAISER **MOC :** CS + Titanium Cladded Heat Exchanger

PHOTO BOARD TEAM



CLIENT : HPCL **EQPT. :** HEAT EXCHANGER TUBE BUNDLE **MOC :** TITANIUM TUBE + NAB TUBESHEET



CLIENT : SIRPUR PAPER MILL **EQPT. :** CHLORINE DIOXIDE GENERATOR **MOC :** TITANIUM



CLIENT : DORC **EQPT. :** HEAT EXCHANGER **MOC :** CS



CLIENT : DORC **EQPT. :** HEAT EXCHANGER **MOC :** SS 321 , 304



CLIENT : TECHNIP **EQPT. :** HEAT EXCHANGER **MOC :** TITANIUM , ALLOY-28 , NACE CS



TECHNOCRAT MASTER INNOVATOR VISIONARY

Dr C H Krishnamurthi Rao, Founder Chairman

Dr. C H Krishnamurthi Rao, founder Chairman of Chemfab-TEAM Group born in Coimbatore, completed his Mechanical Engineering from PSG College of Engineering, did his Doctorate (Ph.D) in Technology Management at the Birla Institute of Technology and Science, (BITS) Pilani. He was qualified as a P.E from Institution of Engineers (India) and was awarded Fellowship (FNAE) at the Indian National Academy of Engineering.

Dr. Rao was gifted with an outstanding engineering knowledge and entrepreneurial spirit that he was able to apply his extensive engineering knowledge to build a few world class companies. Dr Rao had for four decades of research experience in energy conservation, environmental protection, water management and life sciences. Through his research and engineering prowess, he was able to build a group that is clearly a technology leader and has created path breaking Innovations that made a mark in the global arena.

The technologies he introduced successfully have turned out to be a “trend-setters” despite initial resistance. Dr Rao steered the group ahead with his farsightedness, perseverance and quest for innovations. He maintain a “clean and green” stance. All his business ventures were focused only at the betterment of environment, energy conservation and the welfare of the human society. Currently the Group is being led by Mr. Suresh Krishnamurthi Rao.



OUR CLIENTELE



CERTIFICATIONS



Celebrating 45+ Years of Customer Satisfaction

TEAM



TITANIUM EQUIPMENT AND ANODE MANUFACTURING COMPANY PRIVATE LIMITED

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