



Transflow

PROCESS SYSTEMS PRIVATE LIMITED

AN ISO 9001 : 2015 Certified Company

CIN No.: U74140GJ2015PTC085358 | MSME

No.: UDYAM-GJ-24-0011342

GSTIN: 24AAFCT5877J1ZU | Factory Licence

No.: 27574

www.transflow.in





OUR VISION

- Transflow Process Systems Private Limited is a manufacturing firm that has been certified by ISO 9001:2015 professional managed company and is one of the fastest growing companies located in **Sarvodaya Estate, Khatamba, Po. Ankhol, Tal: Waghodia, Vadodara, Gujarat, India-390019.**
- Our products are performing well in Chemical, Oil & Petrochemical, Pharmaceutical, Dairy & Other Processing Industries and meeting international standards.
- We have gained a reputation for being a reliable manufacturing partner in the local and international market for small to large projects, including completely new setups or plant upgradations.
- Our aim is to provide you with the most suitable solution to achieve your maximum satisfaction.

MILESTONES

- 2007 : Company established targeting OEM
- 2009 : Started supplying to end users for product
- 2011 : Product development for PTFE, FEP & PFA lined products such as Pipes & Fittings
- 2012 : Development of Valves with PFA & FEP Lining
- 2013 : Started exporting product to Middle East, Australia & United States of America.
- 2014 : Expansion with second production facility
- 2015 : International Market presence by group company in Canada
- 2017 : Complete production inhouse including paste extrusion for PTFE Liner manufacturing from 1" to 6"
- 2018 : Development of PTFE Lined Pipes Up to 16" & Fittings up to 24" Antistatic PTFE Lined Pipe, Fittings up to 12"
- 2019 : Acquired new facility for setting up paste extrusion liner from 8" to 16"
- 2021 : Expansion with third production facility - dedicated for valves manufacturing
- 2022 : Expansion of main production facility – Total plant area is now 45000 Sq. Ft.
- 2023 : New machinery for paste extrusion PTFE Liner up to 6.2 Meters. Increased PTFE RAW material storage capacity.

APPLICATIONS

We having wide range of products & equipment used for handling high purity, aggressive & corrosive media is the result of experience in the application on PTFE, PFA, FEP, PVDF, HDPE & PP Lined as well as Antistatic PTFE-PFA Lined Products.

- Chemical Industries
- Oil & Petrochemicals Industries
- Pharma & Biotech Processing Plants
- Nuclear & Power Generation Industries
- Refining & Petrochemicals Industries
- Pesticides, Paper & Pulp Industries
- Chloroalkyl Manufacturing Industries
- Agrochemicals Industries
- High Purity Semi-Conductor
- Wastewater Treatment
- Dairy/ Food Equipment / Processing Machinery



PRESENTLY

- We have 50,000 Sq Ft of Area for Our Production Unit for Manufacturing of Pipes & Fittings.
- We also have a separate unit for Valve Manufacturing in 5000 Sq Ft of Area.



PRODUCTS


Lined Pipes & Fittings (CS / SS 304 / SS 316)

- PTFE / ANTISTATIC PTFE / HDPE / PVDF / PP Lined Pipes and Fittings
- FEP / PFA Lined Headers
- FEP / PFA Lined Y Type Strainers & Bucket Type Strainers
- PTFE Lined Corrugated Flexible Hose Pipe
- PTFE bellows type Normal, High pressure, Centrifuge etc


Lined valves (CS / SS 304 / SS 316)

- Ball Valves / Jacketed Ball Valves / Actuator Ball Valve / Ball Valve with Extended Stem / Non-Return Valve (Ball Type) / Non-Return Valve (Flap Type) / Plug Valves / Jacketed Plug Valves / Sampling Valves / Butterfly Valves / Globe Valves / Diaphragm Valves / Flush Bottom Valves.

PTFE products (up to 24" size)

- Bellows for high pressure & vacuum applications (size 1" to 24")  Valve bellows / Line bellows / PTFE 'O' Ring
- Distributors / Redistributors
- Tube sheet set for glass heat exchanger (Up to 12" size)
- Bush / Rod / Sheet / Liner / PTFE Pipe / Sparger
- PTFE Agitators (Lab scale)
- Pure PTFE Customized Products

Glass lined reactor accessories

- PTFE Nozzle liners
- Solid bush for GLR nozzles
- PTFE Envelop Gaskets
- Expanded PTFE gaskets
- PTFE Lined Dip Pipe / Feed Pipe / J – Pipes / Sparger  PTFE Lined thermowell with sensor
- FEP / PFA Lined man-way cover assembly

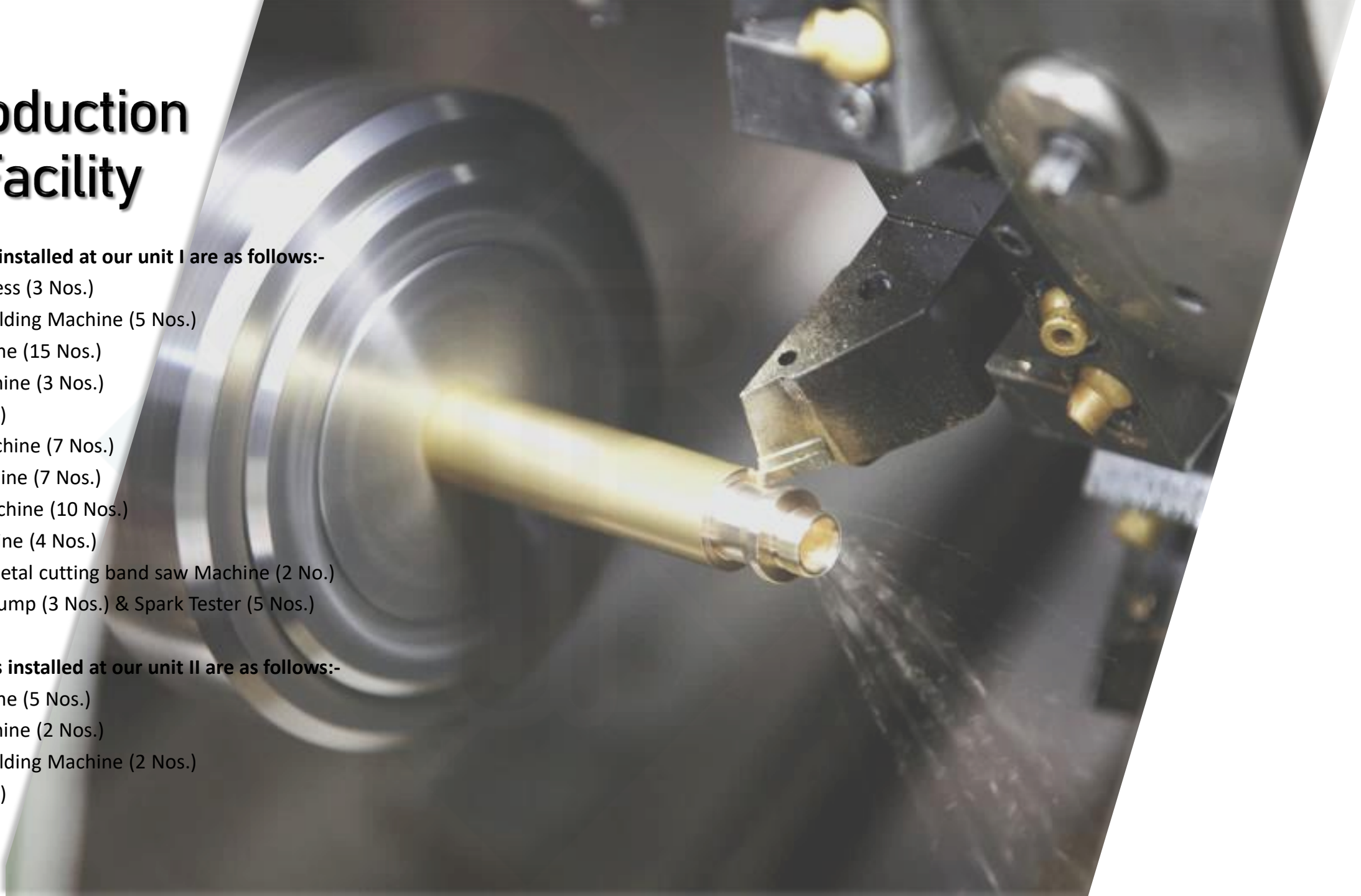
Production Facility

List of Machines installed at our unit I are as follows:-

- Hydraulic Press (3 Nos.)
- Injection Molding Machine (5 Nos.)
- Lathe Machine (15 Nos.)
- Drilling Machine (3 Nos.)
- Oven (6 Nos.)
- Welding Machine (7 Nos.)
- Flaring Machine (7 Nos.)
- Grinding Machine (10 Nos.)
- Cutter Machine (4 Nos.)
- Automatic metal cutting band saw Machine (2 No.)
- Hydro Test Pump (3 Nos.) & Spark Tester (5 Nos.)

List of Machines installed at our unit II are as follows:-

- Lathe Machine (5 Nos.)
- Drilling Machine (2 Nos.)
- Injection Molding Machine (2 Nos.)
- Oven (2 Nos.)



Production Facility

- We have manufacturing capacity of 6000m to 8000m lined pipes, 1000 lined Ball valves, 3500 lined Bends, 300 lined Tees, Lined Cross up to 200 Nos., Reducing Flange up to 300 Nos., 100 Nos. of lined Dip pipe per month at our unit I.
- Manufacturing capacity of Pure PTFE products is 1000 to 1100 Nos. Bellows Per month, 2300 to 2500 Nos. Gaskets per month and Bush up to 1000 Nos. per month.
- All lined pipes and fittings, Lined valve and Glass lined reactor accessories and Non-standard customized products are manufactured size up to 24" at unit I.
- Unit II is spreader over a total of 50,000 Sq.Ft of area used for production purpose and 3000 Sq.Ft is used to store raw material as well as finished products.
- Transflow Process Systems Pvt. Ltd. have manpower of 25 to 30 persons at unit II with 5000 Sq.Ft production area which is Capable to store raw material as well as finished products.
- Manufacturing unit I has 130 to 150 employees in a shift and this unit runs in two shifts and may start 3rd shift if workload is more.
- Lining material used are PTFE, FEP, PFA, PVDF, HDPE and PP. Based on desired temperature lining material is selected.
- 90% of finalized product at unit I is pure PTFE based products which includes Bellow, Gasket, Bush, Spacer, O ring, Rod, Sheet etc.
- PTFE liner used for lining purpose is manufactured at our unit I.
- We also manufacture customized Sparger as per requirement and other customized products.





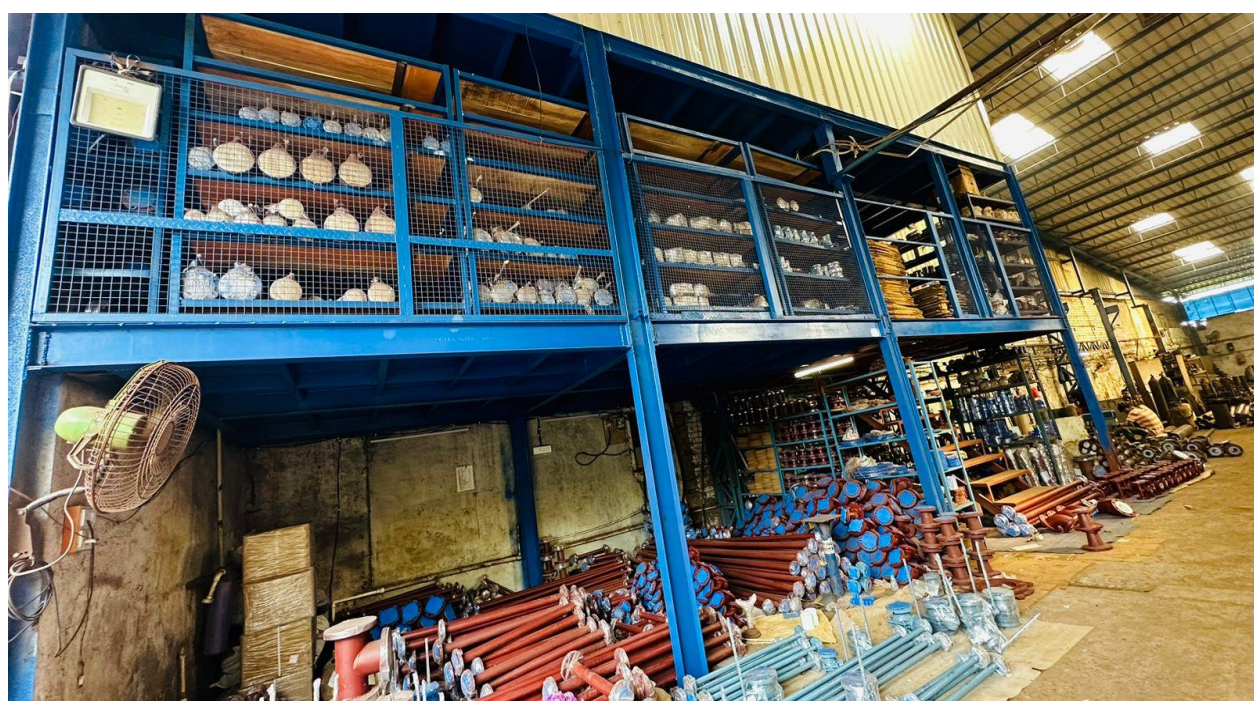
Chemours 669N X



PTFE Liners

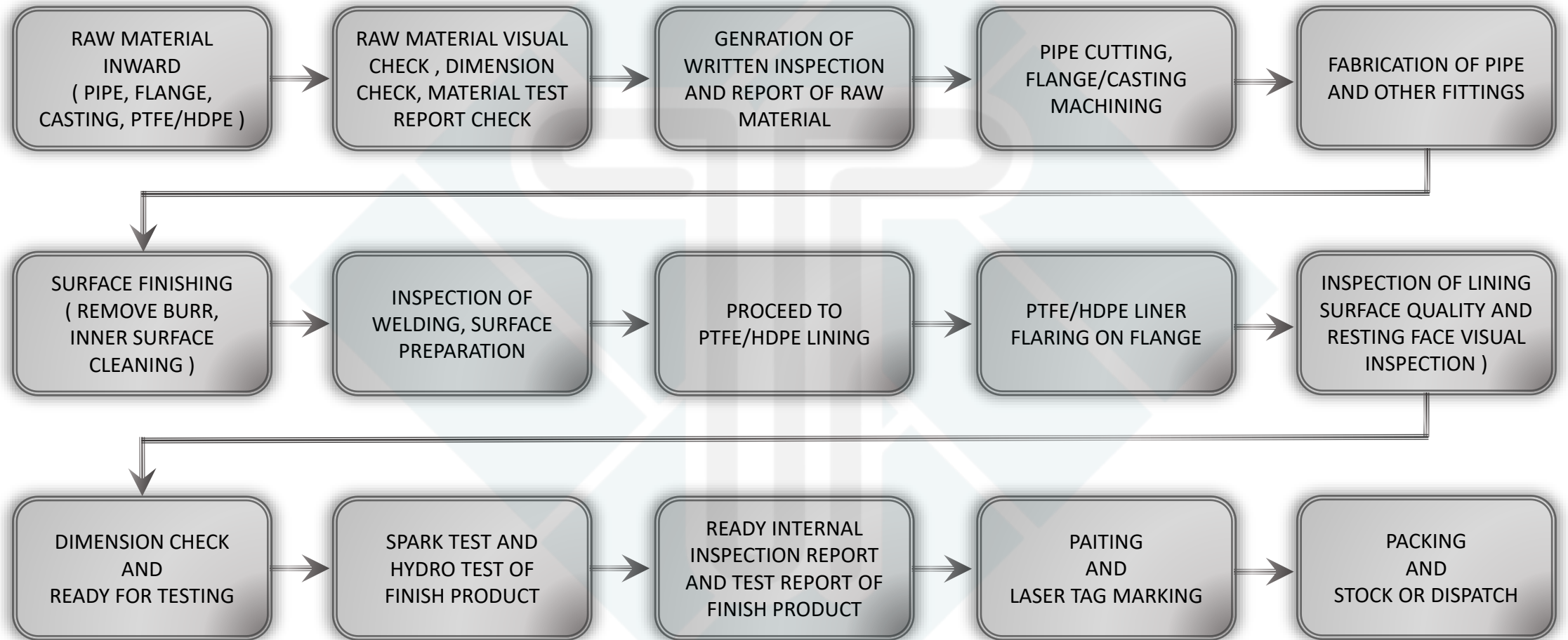






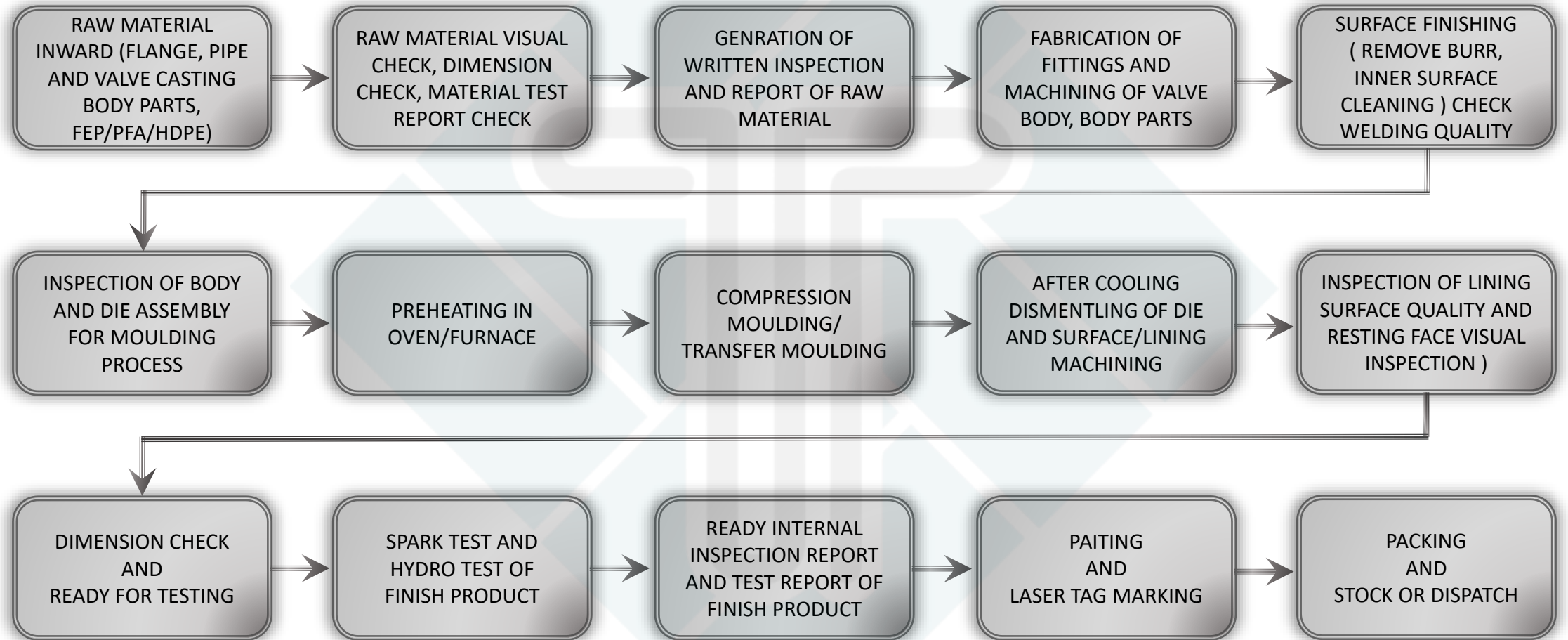
PROCESS CHART (LINING)

MS/SS PTFE/HDPE LINED PIPE & FITTINGS



PROCESS CHART (MOULDING)

MS/SS FEP/PFA/HDPE LINED VALVES & FITTINGS



Products Manufactured at Unit 1

Unit 1:- PTFE machined component :-

- PTFE bellows (Size 1" to 24")
- PTFE gaskets
- PTFE bush
- PTFE valve bellows
- PTFE agitators
- PTFE sparger/Rod/Sheet
- Pure PTFE customized products
- Tube sheet set for glass heat exchanger
- Distributors/ Redistributors



Materials Manufactured At Our Units

Unit 2:- PTFE / PFA / FEP / HDPE / PVDF Lined Components

Lined Pipes and Fittings:-

- Pipes
- Bends
- Reducers (Concentric/Eccentric)
- Reducing Flange
- Equal and Un Equal Tee
- Equal and Un Equal Cross
- Instrument Tee
- Headers
- Y type Strainers
- Flexible Hose pipe and Metal Bellows
- Sight Glass



Lined Pipe



- We are capable of manufacturing PTFE/ PVDF/ HDPE/ PP lined pipes from 25mm to 400mm diameter and up to 3000mm long.
- Our standard pipes are with one end fix flange and one end loose flange. We can also provide both end fix flanges and loose flanges on specific requirements.
- Lined pipes are supplied with vent holes for leakage detection during any operation.
- The different grades offered under lined pipes are produced by using advance technology and high-grade raw material.
- Jacketed pipes with various metals (fabricated steel, cast ductile iron, 304 and 316 stainless steel, etc.) are available. It is also possible to vary Metal Pipe thickness (S10, S20, S40, S80, etc.) on a special order.



Lined Bend

- Our standard bend consist of 90°, 60°, 45° and 30° with size up to 24". Other custom-made bends are also manufactured on requirement.
- PTFE lined bend are further manufactured in different dimensions, grade and size which can be specified by customer accordingly as per there requirement.
- Jacked elbows with various metal options are available for special application on request.

Lined Concentric, Eccentric Reducer & Reducing Flange

- Material used for lining MS/ SS304/ SS316 Eccentric reducer; Concentric reducer & Reducing flange are PTFE/ PFA/ FEP/ PVDF/ HDPE as well as Antistatic PTFE/ FEP/ PFA.
- Lined Concentric reducers are widely used to reduce pipe size from larger to smaller bore or vice versa.
- Lined Eccentric reducers are used for joining pipes of different size and to maintain constant flow of material even after change in pipes size.
- We also make custom base reducer with nozzle on some special requirements.
- We produce Reducing flange by fabricating WCB circle.



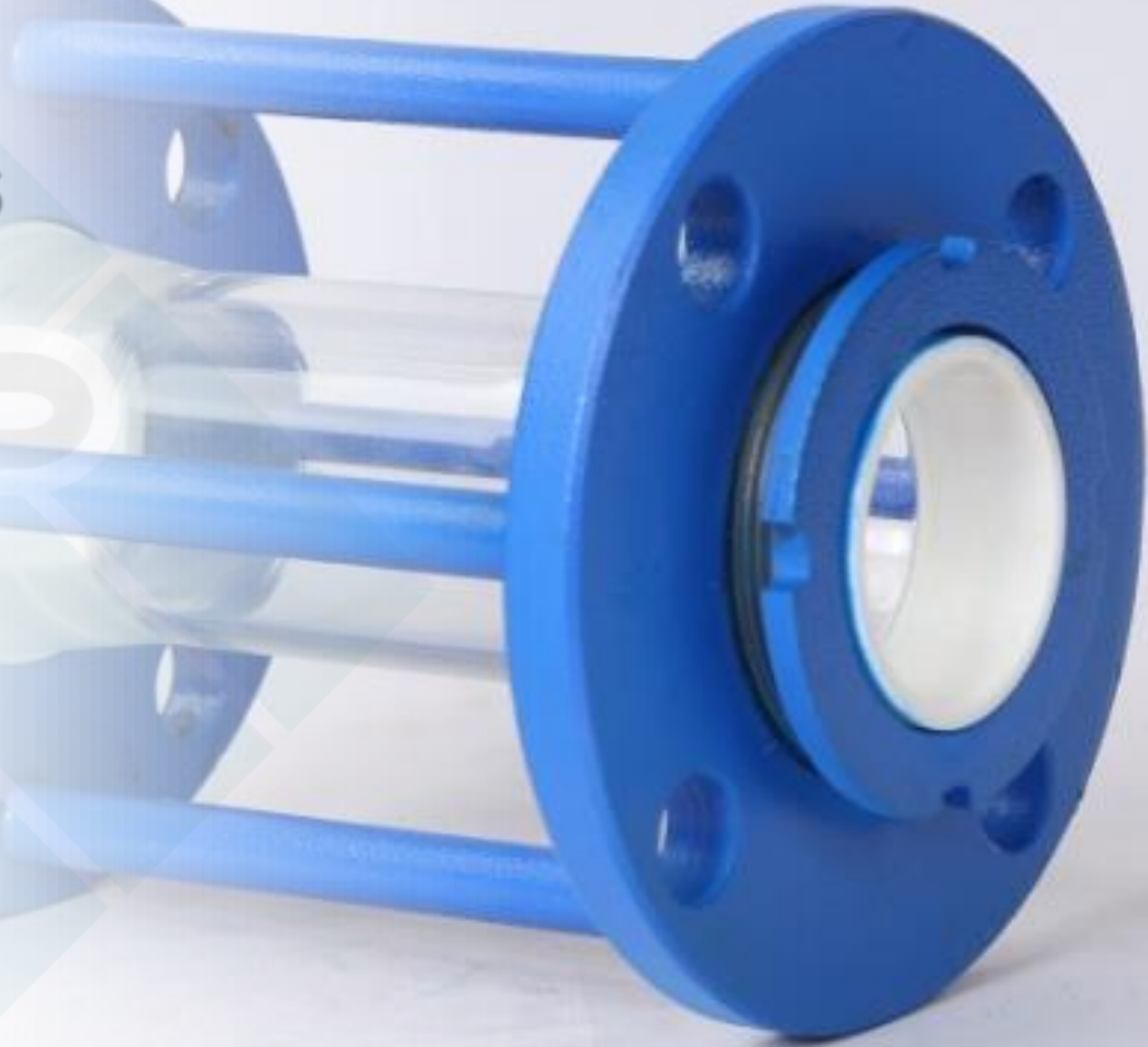
Lined Equal Tee, Un Equal Tee, Instrument Tee, Equal Cross & Un Equal Cross

- FEP/ PFA/ PVDF/ HDPE lined Tee, Instrument Tee and Cross are generally manufactured as per standard ASME B 16.5 class 150 dimensions.
- Tee and Cross are being supplied with fixed flange. However, it can be supplied with loose flange as per individual customer's requirement and confirmation.
- Instrument Tee is used for temperature, pressure indicators and for taking out samples.



Lined Sight Glass

- Lined full view sight glass has heavy wall of borosilicate glass tube with a strong rigid tie rod cage assembly.
- This unique design allows 360° viewing of entire process.
- It has flange end connection that can be supplied in PTFE/ FEP/ PFA lined carbon or stainless steel.
- Double window sight glass is used for any kind of non-transparent pipe line to observe the flow of liquid.





Materials Manufactured At Our Units

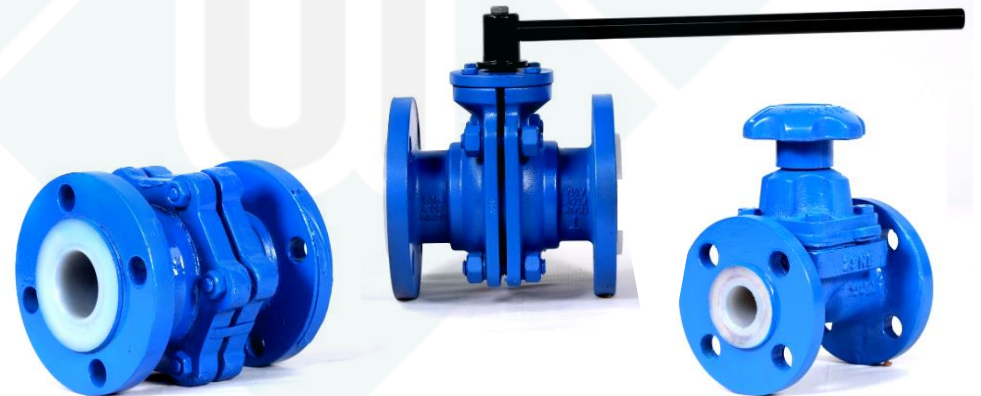
Glass Lined Reactor Accessories:-

- Man-way Cover Assembly
- Agitator
- Thermo-well
- Dip Pipe/ Feed Pipe/ J-Pipe/ Sparger
- PTFE & ANTISTATIC PTFE Lined Size up to 8"
- Nozzle/ Solid Bush for GLR nozzles
- PTFE Envelope Gasket/ Expanded PTFE Gasket

Materials Manufactured At Our Units

Lined Valves:-

- Ball Valve size up to 12"
- Flush Bottom Valve
- Butterfly Valve size up to 24"
- Diaphragm Valve
- Non-Return Valve
- Plug Valve
- Sampling Valve





Butterfly Valve



Y Type Strainer



Flush Bottom Valve

Quality and Testing

- For Quality assurance mainly two types of test are carried out which is as follows:-
 - **Hydro Test** :- AS per ASTM F 1545-2003 29 Kg /Cm².
 - **Spark Test** :- AS per ASTM F 1545-2003 15 KV DC, Suitable for Non-Vacuum Application.
- Why Hydro Test:-
 - To ensure the integrity of the equipment.
 - To ensure the leakage in equipment.
 - To ensure the strength of the weld joints & material.
 - To ensure the strength of the nozzle flange joints.
 - Ensures safe and reliable performance during the operational life.
- Why Spark Test:-
 - The lined material is subjected to a electrostatic spark test at 15kV to ensure the integrity of the liner.

Hydro Testing Facility





Transportation Facility

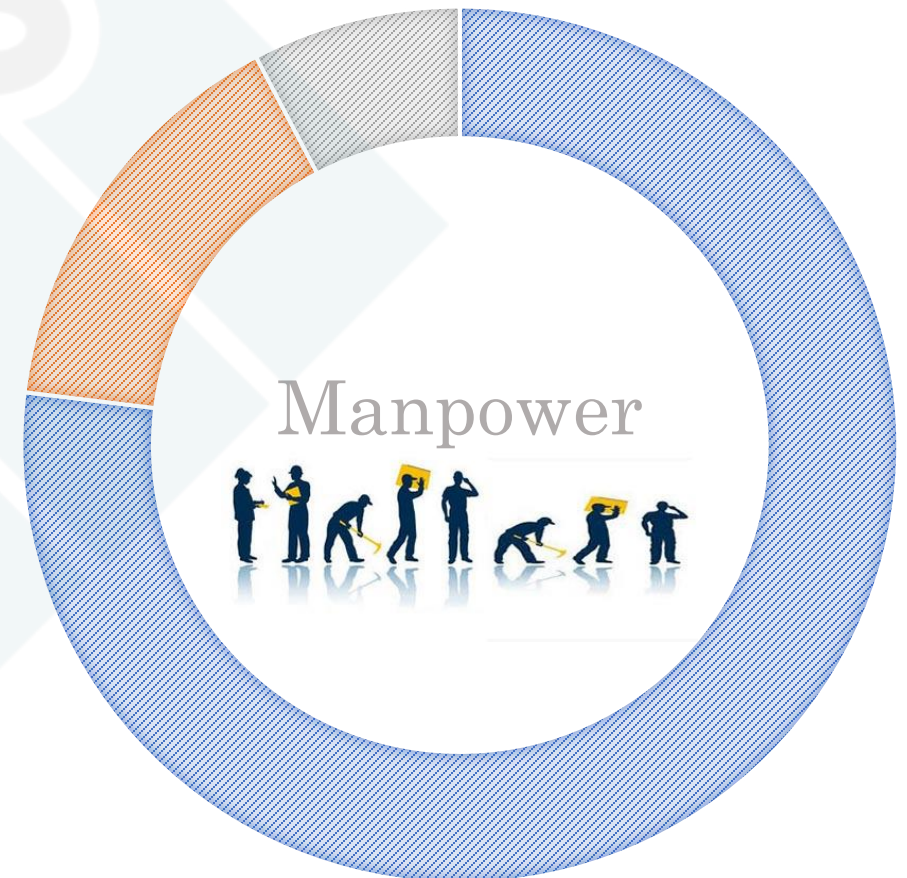
Our ability to deliver materials door-to-door is possible because we have our own vehicles, which ensures safety and prevents damage chances.


Unit 1 Khatamba :
Manpower of 150 Labors

Unit 2 Ganesh Estate :
(Valve Division)
Manpower of 30 Labors

Office Staff :
15 Employee

■ Unit 1 Khatamba ■ Unit 2 Ganesh Estate ■ Office Employee



A photograph of an industrial or commercial courtyard. The path is paved with reddish-brown interlocking bricks. On the left, there's a white building with a blue door and some blue barrels. A large tree with green leaves stands on the left. On the right, there's a red brick building with several windows. A motorcycle is parked on the right. In the background, more buildings and trees are visible.

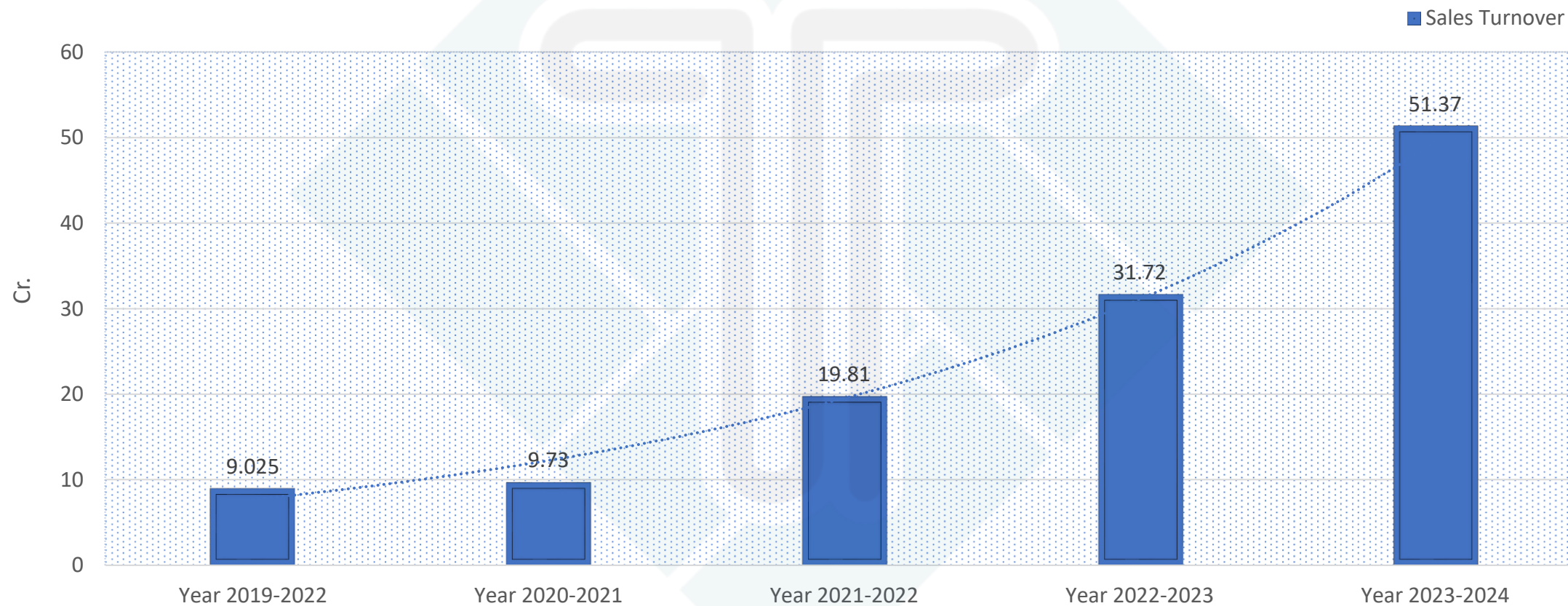
We would like to share that recently,

We have completed the project orders from :

- PI Industries Limited
- UPL Limited
- Navin Fluorine Advanced Sciences Limited
- Dharmaj Crop Guard Limited
- Hikal Limited
- Gujarat Fluorochemicals Limited
- GFCL EV Products Limited
- Sajjan India Limited
- Etc.



Annual Turnover





Please feel free to contact us in case you need to utilize any of the products or services that our company provides.

We guarantee you complete satisfaction of our products and services.

We also request you to enlist our name in the list of your approved suppliers for our products and services.

For any present requirement, we request you to send us inquiry through Email or Phone.

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