



Biggest Size FRP (PP lined) Reaction Vessel Manufactured By Poly Plast

Client : M/S. Hindustan Inks & Resins Limited, VapiGujarat
 Capacity : 50000 Ltrs
 Type : Vertical Cylindrical with integral dish bottom and flat bolting type top cover fitted with M.S/PP lined stirrer, stirring assembly, baffles (350mm wide x 4000mm L)
 Size : 3600mm dia x 4000mm vertical shell ht.

Biggest size FRP(sand cored) Pipes manufactured by Poly Plast

Client : M/s Per Aarsleff, Denmark for municipal Corporation of greater Mumbai Sewage rehabilitation project through world Bank Finance
 Consultant : M/s.TrenchlessTechnology International, Australia
 Quantity : 10000 mtrs.
 Size : Ranging from 1800mm dia , circular to 2700mmx1800mm in a void construction.

Biggest size FRP pipes manufactured by Poly plast

Client : Oswal Chemicals & Fertilizers Limited ., Paradeep for PAP/DAP Project
 Size : 2000mm dia
 Design Pressure : 150mm W.C to 3 Kg/Cm2

Financials

Year	Turnover (Rs. in Lacs)	Export(Rs. in Lacs)	R & D(Rs. in Lacs)
2002 - 2003	741.94		
2003 - 2004	581.45		
2004 - 2005	1613.80		



Export Consultancy

Technology Arrangement

Joint Venture
 Manufacturing Licence
 Marketing

Poly Plast Designed and Manufactured

- One of the largest rectangular tanks in (80,000 Lts.Capacity) having size: 9200x3400x2800mm.Poly Plast holds the record of manufacturing:
- Largest capacity horizontal type Pressure Vessel of 50,000 ltrs, 180m3 capacity HCL storage tank in vertical construction.
- A 180m3 capacity HCL storage Tank in vertical construction.



Technology Export Development Organisation

A project of Confederation of Indian Industry (CII) & DSIR, Govt. of India

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Poly Plast Chemi Plants (I) Pvt Ltd

Estd. : 1978

ISO : 9001-2000

Product



Poly Plast Chemi Plants (I) P.Ltd engaged in Design & fabrication of Chemical plants and Industrial Equipments out of FRP & its composites with Thermoplastic Liners such as PP, PVC, CPVC, PVDF, ECTFE, TFM, and FEP etc.

Products

Storage Tanks

Contact Mould Hand lay up tanks

Filament wound tanks made on CNC filament winding machines

Dual laminated tanks with a thermoplastic liner,

Process/Reaction Vessels

Poly plast manufactures process/Reaction vessels of different sizes and shapes as per the Customer's specifications, ranging from 200 ltrs. To 1,00,000 ltrs capacity with conical, dished or flat bottom and top.

The Material of Construction depends on chemical, temperature and pressure conditions of the process requirement.

Equipments supplied with complete stirring assembly with independent mounting structure and suitable sealing arrangements as per the customers requirements.

All thermoplastic liner weld joints are provided with non-metallic conductive materials to facilitate spark testing. Similarly FRP lined metallic vessels are also tested with spark testing for pin hole or discontinuity of lining. These vessels are a ideal replacement to the conventional M.S glass-lined and Nobel metal clad vessels, in majority of the cases.

Pipes and Fittings

Pipes

Polyplast offers hand lay up & filament wound pipes ranging from 50 mm, NB, made using CNC controlled winding machines. These pipes being mechanically very strong can take high pressures and vacuum, Polyp Plast offers Pipes from various resins like Isophthalic, Vinylester Bisphenol and other Imported resins. These pipes can also be made of dual laminated plastics like PVC-FRP, CPVC-FRP, PVDF-FRP, PP-FRP, FEP-FRP etc.

FRP Sand cored Pipes For Rehabilitation of Old Sewers

FRP Sand cored pipes are made out of GRP and sand with resins as core materials.

Threaded FRP Pipes

Threaded FRP pipes up to 150NB Dia are already developed, supplied and Successfully tested for 52.5 Kg/Cm2 Pressure) Further sizes are under development.

Pipe Fittings

Polyplast also manufactures Pipefittings like Tees, Reducers, Bends Flanges, Stubends, actuator fitted Valve, PVDF Fittings and PVDF Valves etc.



Pollution Control Equipments

- Polyplast offers Scrubbing Systems, which gives results of less than 5ppm(1 to 1.5 PPM) in Exhaust air.
- Supply Scrubbing Systems for SO2, NOX, NH3, and H2s Fumes.
- Company also supply exhaust blowers, completely made out of plastic such as PP/FRP, PVC/FRP, PVDF/FRP, FRP Materials capacity ranging from 100CFM to 50,000 CFM and static pressure ranging from 50 mm, to 500 mm WC.
- Company also make Ducting and Stacks of any size , any pressure rating as per customer requirement and also undertake installation of ducting at customers site too.

Lining

FRP lining to large volume C.S/ M.S Tanks, Silos, Petroleum Tanks, Molasses Alcohol Storage Tanks and pressure Vessels using different resin system such as Isophthalic Bisphenol, Vinyl Ester and other such imported resins. Company also line C.C/S.S Reaction Vessels, Process Vessels, Stirrers with conventional Plastic such as PVC, PP, CPVC, FRP, PVDF, ECTFE, FEP, PTFE and TFM etc.

M.S/TFM Lined Column

TFM have remarkably unique property, TFM can replace in many cases the conventional high cost materials such as alloy steel, Hastoalloy, Titanium, Monel and glass-lined equipments. Poly plast manufacture and supply dual laminated Fluoropolymers / FRP equipments, which are economical in price, light in weight and easy to handle and install, in situ reparability.

Application

Consultancy

Installed Capacity of Major Products



- Glaxo India Limited
- Herdilia Chemicals Limited
- Hindustan Fluorocarbons Limited
- Hindustan Zinc Limited.
- Ranbaxy Lab Limited
- Raymonds Steels
- Reckitt Benekiser Limited

- Ashaw Wallace Gelatines Limited
- Sudarshan Chemicals Inds Limited
- Tata Oil Mills Limited
- Thermax Limited
- Wipro Limited
- Wokhardt (I) limited

Overseas Customers

- Saudik Contracting Co Ltd, Dammam, Saudi Arabia (KSA)
- Basic Chemical Industries Limited Dammam, Saudi Arabia (KSA)
- Abul Khair Steel Products Limited, Bangladesh
- M/S. International Industrial Chemical Park (IICP) Egypt
- Tunetanken A/S, Denmark
- M/s. Arabian Chlorine Co Limited, kingdom of Saudi Arabia

- The national Titanium Dioxide, kingdom of Saudi Arabia
- KYCR Coil Industries Limited
- Polymer Composite (Asia) SDN BHI, Malaysia.
- Transchart SDN, BHD Malaysia
- Abul Khair Steel Products Limited - Bangladesh
- M/S.Megarap Tubes Morocco.
- M/S.Galva Metals. Thane
- M/S. National Petrochemical Co Iran



Infrastructure

2 Manufacturing Locations in Thane and 1 Manufacturing Locations in Dadra & Nagar Haveli
Poly Plast employs 120 technical manpower

Manufacturing Facilities

- Poly plast manufactures at factory premises up to 5.1 mtr Dia equipments. Beyond this size, we manufacture equipments at customers site.
- Poly plast have 2 workshops to manufacture Mould, Mandrill & Permanent mould for dished and flat ends right from 500 mm to 6500 mm dia. for manufacturing equipments.
- Poly Plast have 2 CNC control filament winding pipe-making machines on which pipes right from 50mm to 3000 mm dia x 6mtr, length can be manufactured
- Post Curving Oven
- Other Machineries and Testing Equipments

Case Studies

Biggest Size FRP Storage Tank Manufactured by Poly Plast

- Client : M/S.IFFCO, Kalol Gujarat
- Capacity : 170 M
- Type : Vertical Cylindrical with Flat bottom and Integral conical top
- Size : 6000mm dia x 6000mm vertical shell ht.



Registration with Major Consultants

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|---------------------------------------|--|
| Chemicon Engg Consultants Pvt Limited | M.N.Dastur & Co |
| Chemtex Engg of India Ltd. | Metallogical & Engg Consultants (I) Limited |
| Consultech | Monsanto DMCC Envirotech Engg Limited |
| Dalal Mott Macdonald P Ltd. | Pipecon Consultants & Pvt Limited. |
| Development Consultants Ltd. | R.J.Associates & Engineers Pvt Limited. |
| Engineers India Limited | Shriram Projects Engg & Cons Services Limited. |
| Equipment Design Engineers P Limited | Shroff Cons & Associates Pvt Limited |
| Hindustan Door Oliver Limited. | SIEL Project Engg Cons Pvt Limited. |
| JACOBS H &G Limited | SPB Proj & Consultancy Limited |
| Kvaerner Powergas India Limited | Simon India Limited |
| KREBS &CIE (I) Limited. | Thaper Chemtex Consultants Limited |
| Kinertics Technology India Limited | TATA Consulting Engineers. |
| Lurgi India Co P. Ltd. | Uhde India Limited |

Some of Major Domestic and Overseas Customers

Domestic Customers

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|-----------------------------|----------------------------------|
| Ballapur Industries Limited | DCM Shriram Consolidated |
| Bayer India Limited | E merck (India) Limited |
| Blue Star Limited | Excel Industries Limited |
| CIPLA IIMITED | Essar Steels Limited |
| | Gujarat Fertilizers Corp Limited |

