



M E C H
Reinforce Plastics Pvt. Ltd.



**TRUE VALUE PRODUCT
WITH HIGH QUALITY
& MOST COST EFFECTIVE
SOLUTION**

Our Certification: ISO 9001:2015



About Company

MECH REINFORCE PLASTICS PVT. LTD. (MRPPL)

“MECH REINFORCE” Team members have enjoyed leading Status In The FRP And Thermoplastic Industries In India since 1974 AD (Previously known as Excel Shine PVT LTD, A Member of the Excel group of industries). Due To our Team's Technically Effort “Mech Reinforce” Has Had The Pleasure Of Satisfying The Need Of The Industries With The Complete Range Of Composites Viz. FRP –FRP –HT (High Temperature) And Thermoplastic Like PVC, PP, PVDF, ECTFE, FEP, FAP, HDPE Lined FRP And Thermoplastic Piping

The Industries Served By “MECH REINFORCE” Ranges From, Heavy Chemicals, Petrochemicals Refineries, Fertilizers, Agrochemicals, Bulk-Drugs, Power Generation, Steel Paper & Pulp, Chloralkalis, Battery industries...



Product Range

- ◎ FRP/thermo Plastic Lined Frp Piping & Fittings
- ◎ FRP/Thermo Plastic Lined FRP Tanks/Vessels Up To 200 m³ size 120M³ Capacity The Tanks Shall Have To Be Site Fabrication.
- ◎ PP & HDPE Heavy Duty Tank (fabricated)
- ◎ FRP/Thermo Plastic Lined FRP Agitator for Reactors.
- ◎ FRP/Thermo Plastic Lined FRP Absorption Coolum, Drying Towers.
- ◎ FRP/Thermo Plastic Lined FRP Pollution Control Equipments.
- ◎ @Scrubber
- ◎ @Mist Separators.
- ◎ @Blowers.
- ◎ @FRP hoods
- ◎ FRP Pallets.
- ◎ FRP Grating.
- ◎ Knutch filter
- ◎ FRP Cable Trays, Instrument Junction Boxes. Pastured Sections,
- ◎ FRP Pressure Tubes & Vessels.
- ◎ FRP Drier Trays.
- ◎ Different Types of FRP & Thermoplastics Trolleys,
- ◎ Under Taking ARC & Maintenance Job & Revamping Jobs
- ◎ **WE HAVE BEEN WORKED WITH FOLLOWING LINER MATERIAL.**
- ◎ U-PVC, C-PVC, PVC, PP, PVDF, ECTFE, FEP, PFA.



Applictions

- ◎ Bromine, Chemical, Dyes & Pigments, Titanium Dioxide Pigment, Fertilizer & Pesticides, Steel, Suffocation & Surfactant, Sulphuric, Pharmaceutical, Phosphoric, Powerplants, Pulp & Paper, Mineral Processing & Mining, OEM, Oil, Ion Exchange Resins, Viscose & Fiber, Water Treatment & Desalination, Chlor Alkali, Soda Ash

STORAGE & REACTION SYSTEM

MECH REINFORCE PLASTICS PVT. LTD. (MRPPL)

produces and designs a wide range of high-quality, multi-purpose storage tanks Flexible & Corrosion - resistant, MRPPL's tanks are manufactured from a thermosetting resin, and fiberglass reinforcement and can be used for the storage of petroleum products, water, and a wide range of chemicals. When storage is required for highly corrosive material, MRPPL's dedicated design team can provide bespoke solutions utilizing DIFFERENT TYPES OF resins with the different types of inner liner of the tank or throughout the tank wall. MRPPL'S tanks are ideal for underground (backfilled), and aboveground (horizontal or vertical) applications and come in a standard range of up to 6,000 mm in diameter, offering a nominal storage capacity from 25 liters up to 400,000 liters. Customized design and non-standard configurations are considered on a case-by-case basis.

Process: Hand laid up & Filament winding



Pipes & Fitting



Pollution Control Equipments



Safety Equipments

- PP Flange Guard
(Size 1" to 4")
- Salvage Drums



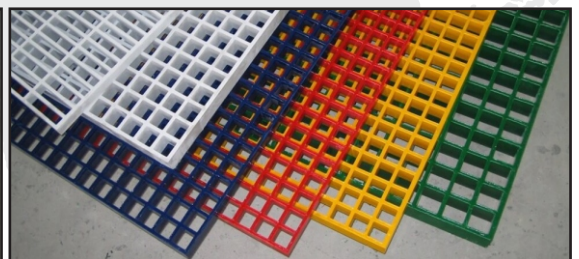
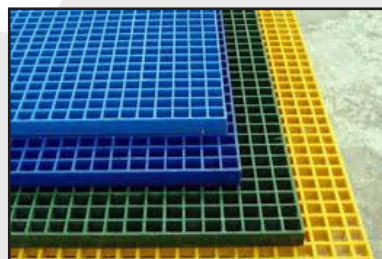
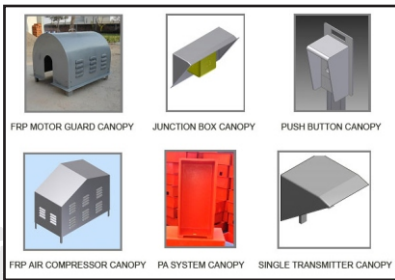
- ⦿ We offer salvage drums to meet a variety of waste containment and transport requirements.
- ⦿ The MOC of salvage drum is FRP resin of various grades.
- ⦿ The material is resistant against many hazardous chemicals and aggressive chemicals like acids and alkalis.
- ⦿ Light enough for one person to handle and large enough to pack sufficient absorbent and response equipment for incident spills.
- ⦿ Application include (but not limited to) :-
 - * Over packings of damaged/leaking packages.
 - * Collection and transport of solid sorbents.
 - * Clean up of contaminated sites.
 - * Emergency response and decontamination.
 - * Direct containment and transport of hazardous waste.
 - * Spill kits.



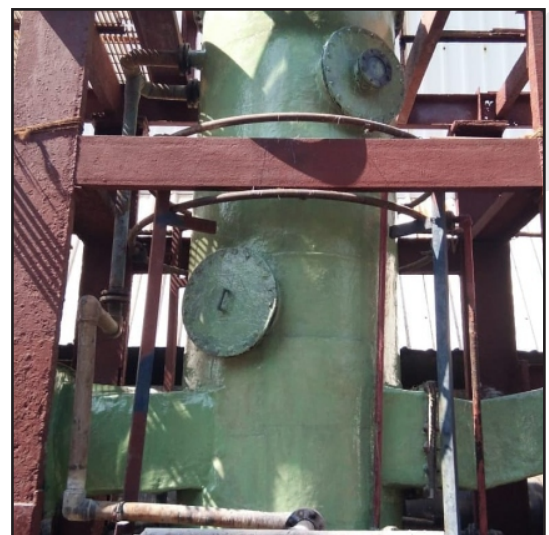
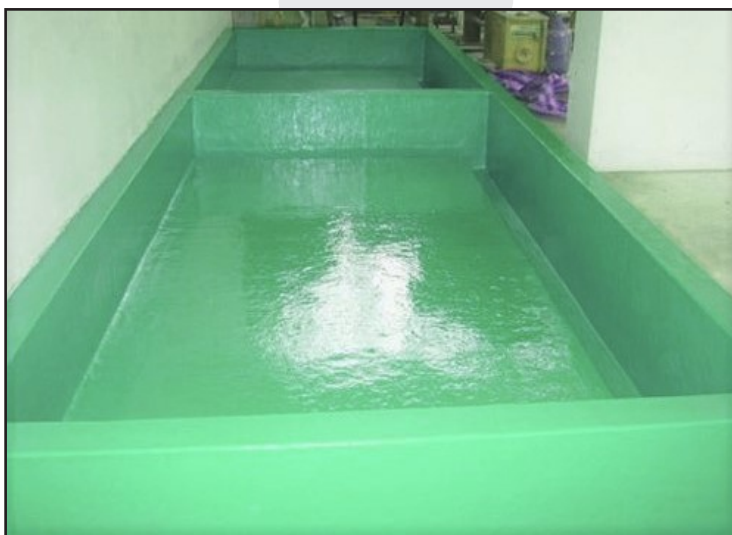
PRODUCT SPECIFICATION

WEIGHT	26.6 KG
INTERIOR BASE DIAMETER	63 CM
HANDLING CAPACITY	292.5KG
SUMP CAPACITY	361 LITERS
INTERIOR TOP DIAMETER	69 CM
INTERIOR HEIGHT	94 CM
EXTERIOR HEIGHT	105 CM
EXTERIOR TOP DIAMETER	81 CM
EXTERIOR BASE DIAMETER	66 CM
MINIMUM ORDER QUANTITY	1 PIECE
WITH WHEELS	2 PIECE
WITH HANDLE	1 PIECE

Ladder, Grating, Railing, Hoods & Gaurds



Lining Service



Work Undertaken

- ⊙ Equipment design & GA drawings.
- ⊙ Agitator design & GA drawings.
- ⊙ Shell and Tube Heat exchanger design & GA drawings.
- ⊙ Column design & GA drawings.
- ⊙ Selection of pumps of different types and with the right specifications.
- ⊙ Specification sheet for different process Equipment.

Basic/ Process Engineering:

The key activities involved are,

- ⊙ Material & Energy Balance
- ⊙ Process & Utility equipment sizing & selection
- ⊙ Design of process equipment
- ⊙ Process flow diagrams & P & I Diagrams
- ⊙ Equipment specifications
- ⊙ Process control Philosophy & Process control logic

Detailed Engineering:

Layout & Piping Engineering:

- ⊙ Site Master Planning
- ⊙ Plot Plan
- ⊙ Equipment Layout
- ⊙ Piping Layout.

Mechanical Engineering – Fabricated Equipment

Design of fabricated equipment as per ASME, BS, and IS codes Specification & Fabrication details of equipment Review of vendor's fabrication drawings

Mechanical Engineering – Proprietary Equipment

Selection of proprietary equipment for duty condition Specification for individual & package proprietary equipment Review of vendor's drawings

Environment, Health & Safety

Design of treatment scheme of liquid effluent, solid effluent & gaseous emission.

- ⊙ Scrubbing/ absorption/ Adsorption system designs
- ⊙ Fire protection system design
- ⊙ Ventilation system
- ⊙ HAZOP studies

Energy / Utility section

Energy walk-through audit. Selection of the right equipment for utility with specifications for the same. Energy-saving solutions integrating process and utility equipment. Boiler efficiency studies. Energy diagram for the site/process.

Fabrication of process equipment.

- ⊙ Metallic equipment fabrication through our associates. SS 304 / SS 316 tanks; reactors; heat exchangers; other process equipment.
- ⊙ Lined equipment fabrication through our associates.
- ⊙ Technology transfer work through our associates.





MECH
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Get In Touch

Phone: +91 98259 44386 | +91 93775 50067 | +91 90998 50067

Email. info@mrppl.co.in | sales@mrppl.co.in

Website: www.mrppl.co.in

Works & Sales Office

766, Parag Farm, Bhathel Faliya, Jujwa,

Dharampur Road,

Ta. & Dist. Valsad, Gujarat - 396 007



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