



FibroGrats Private Limited

Solutions Against Corrosion using FRP

**Company Presentation For
NTPC**

- We are one of the rapidly growing organization serving manufacturing industry with mission to provide “*Solutions against corrosion using Fibreglass Reinforced Plastics (FRP)/GRP*”
- With almost 4 decades of experience, under the able leadership of Mr. Ashok Jain, ‘Fibro Grats Pvt Ltd (FGPL)’ was formed in FY10 initially to focus on gratings & later added all FRP business segments as part of FGPL to serve clients
- Since then, three pronged expansion strategy has been followed under which we have expanded product portfolio, geographical reach as well as target sectors to achieve rapid growth & help us position FGPL as one of the leading & reliable supplier of FRP products
- We are always ready to design, engineer & deliver customized solutions and do not shy away from trials where we may fail. We constantly improve based on client’s feedback & never miss an opportunity to upgrade our solutions/products
- Currently, we are 300+ employee group with almost 1.5 lac Sqft state of art facility spread across 2 units, located centrally in India at Indore (M.P.) with over *1000 corporate clients* across 20 states in India & 12 countries across the world in Africa, Europe & Asia-pacific. Another greenfield unit at Dewas of 1.5 lac sqft is under construction

What does FGPL offer as a potential vendor partner?

- We are always ready for experiments, innovations, trials with a “Can Do” attitude
- PLC based 2 axis Filament Winding machine – 2 nos. and 1 CNC 4 axis machine with capacity of tanks upto 12 mtr long & 4 mtr dia (150KL capacity)
- DMC/SMC products by in house Hydraulic press – 1 no. We also have in-house dmc compound making facility
- 7 Pultrusion machines with total 14 pulling lines
- More than 100 SQM moulds of Gratings, cutting & grinding machine. Paint facility
- In house team for moulds & pattern making for moulding works
- Fabrication team with MS plate / channel bending, welding, gas cutting, plasma cutting tools
- Testing Lab with equipments like UTM machine, Toxicity (as per NCD 1409), smoke test (as per UIC-564-2), flame spread resistance, izod impact tester, Barcol hardness tester, muffle furnace, spark tester, equipments for testing Resin, glassfibres etc
- Regular inspection by reputed TPIs like TUV, BVIL, Tata Projects, Rites, IR class

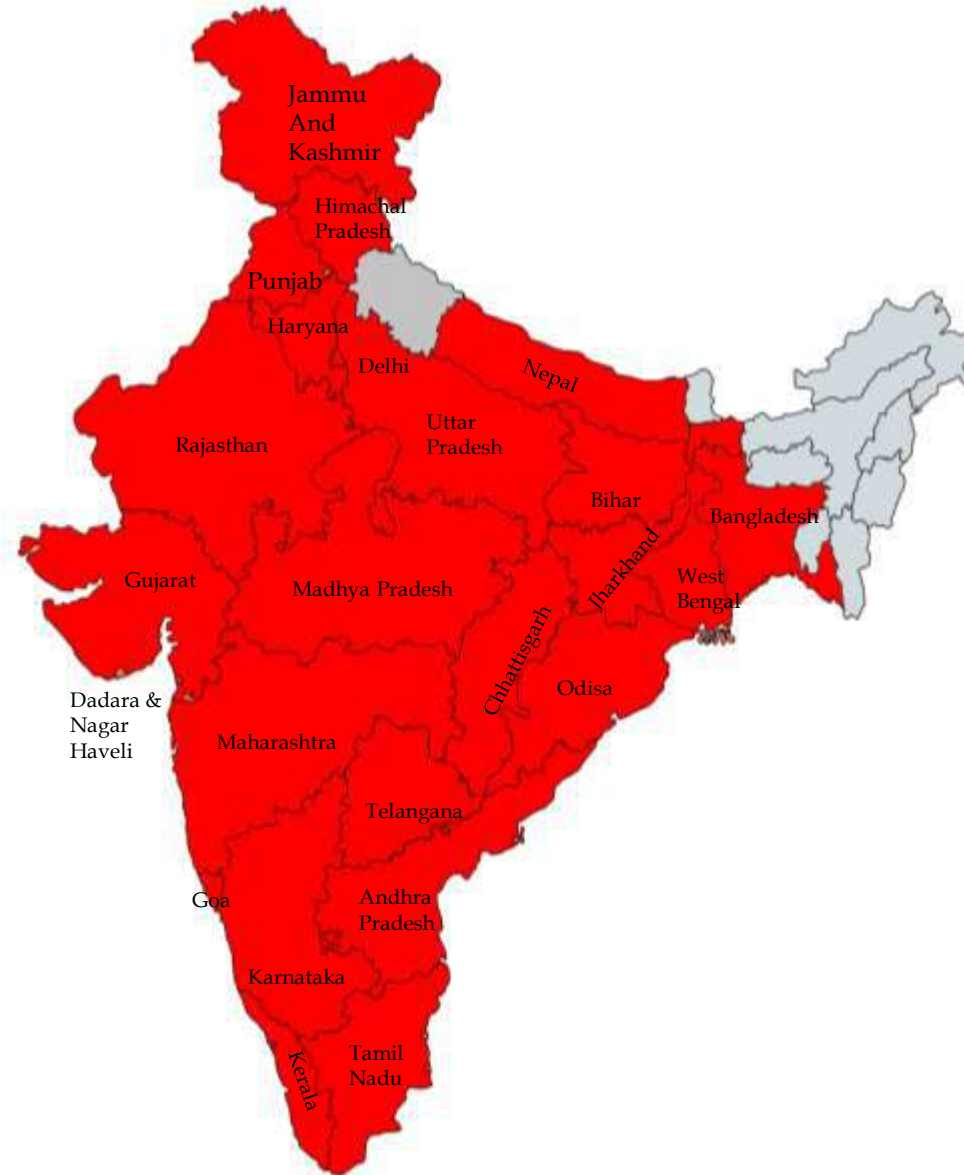


FGPL's manufacturing facility: Dakachya & Lasudia at Indore





SME with Global Reach: Our clients are in 10 countries, 20 states In India



We have Exported to:

- UKRAINE
- RUSSIA
- ZAMBIA
- TANZANIA
- ZIMBABWE
- NEPAL
- BANGLADESH
- SRI LANKA
- UAE
- Ethiopia
- Malawi
- Dubai

Mr. Ashok Jain (Chairman)

He has 38 year's experience in the field of FRP / Composites. He is B.E. from SGSITS, Indore and has PG diploma in Management. His impeccable technical understanding, innovative approach in finding solutions against corrosion using FRP leads to development of new products, customized offerings to clients. This approach has been translated into important company value as well.

Mrs. Kanupriya (Director)

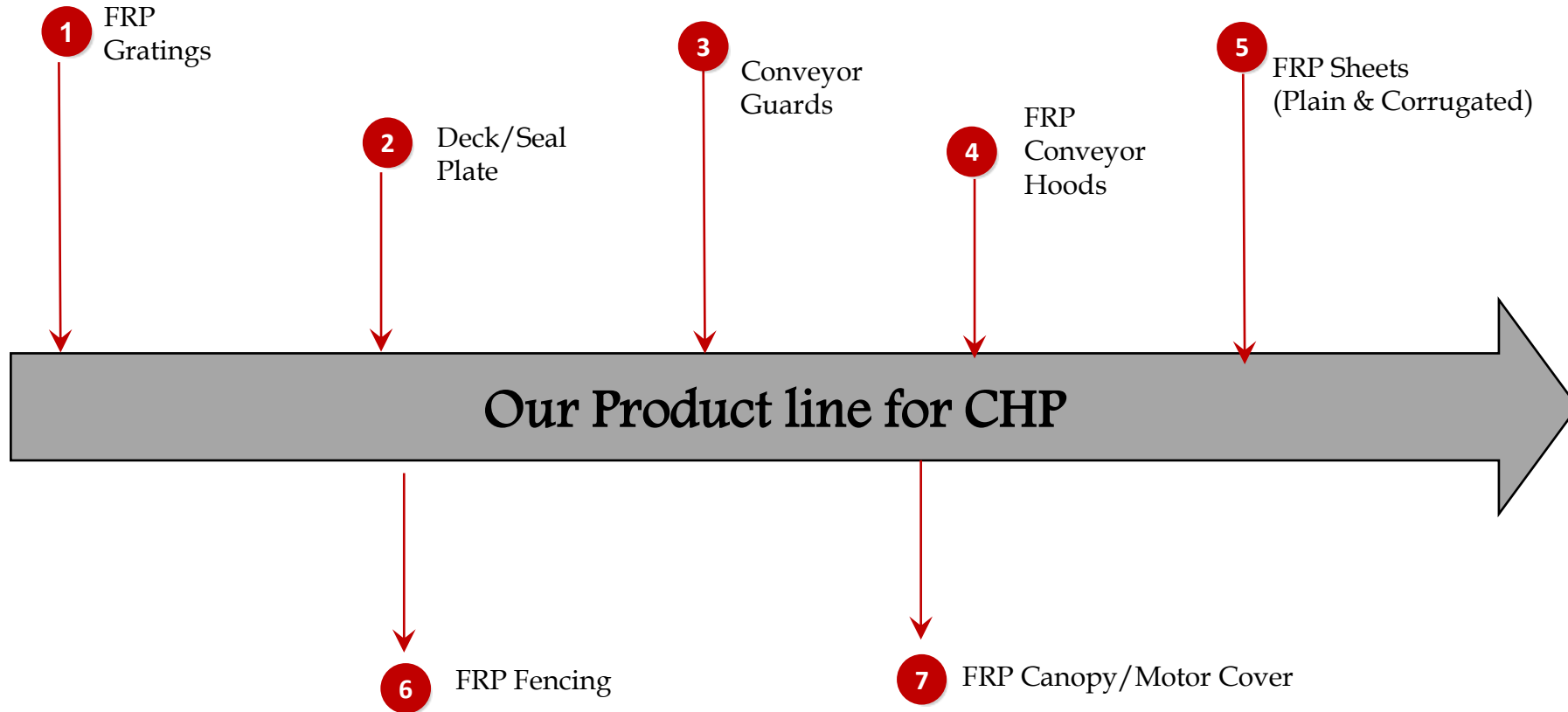
She is B.E. from SGSITS and has been instrumental in rapid growth of the organization in last few years. She is instrumental in bringing efficiency, quality & focus in manufacturing. She has 17 years' experience and has worked with L&T before joining the family business. As Director Operations, she manages engineering, design, production & quality aspects

Mr. Tarun Surana (CEO)

A qualified MBA, leads business development activities since 2013 with extensive travels to client sites and has played vital role in increasing presence of organization in several states across India. He brings diverse & rich experience of working in Finance & IT. His strong understanding of the world of Technology & Finance is great asset to organization.



Product line For CHP





Thickness	Weight	Mesh Size	Bar size (Corners)	Bar size (Centre)	Bar size (Throughout)	Open Area
mm	Kg/sqm	mm	mm	mm	mm	%
10	5	25x50	15	15	6	72%
20	9.2	38X38	15	14	6	69%
25	11.5	38X38	15	14	6	69%
25	12.5	38X38	15	14	8	64%
20	13	30X30	20	20	10	52%
25	16	30X30	20	20	10	52%
30	19	30X30	20	20	10	52%
38	19	38X38	15	14	8	64%

- Resins: Unsaturated Polyester Resins: PTA, Isophthelic, Vinyl Ester, & Bisphenol
- Types: Open, Covered
- Surface Finish: Smooth, Chequered finish, Gritted (Anti-Skid)





- Chemical resistant, corrosion free deck plate below conveyors where iron ore / coal or other material falls while conveyor belt runs. Ideal for steel, power, fertiliser plants
- Metal deck plate require frequent replacements due to corrosion as water sprinklers on material makes it highly corrosive
- Currently we make 900 mm & 1600 mm wide deck plate (with curve at centre) & seal plate (flat sheet). This can be customised as per your conveyor's size.
- We have successfully developed this customised product with huge success running into 1000s of meter of installation till now in conveyors.







- Chemical resistant, corrosion free conveyor hoods above the belt that is on conveyors where iron ore / coal or other material is exposed to open atmosphere, rainfall while conveyor belt runs. Ideal for steel, power, fertiliser plants
- Hoods are required to keep material dry, avoid moisture/rainfall
- Currently we make 800 mm to 2000 mm wide hoods with 1000mm length. This can be customised as per your conveyor's size.
- We have successfully developed this customised product with huge success running into 1000s of meter of installation till now in conveyors.



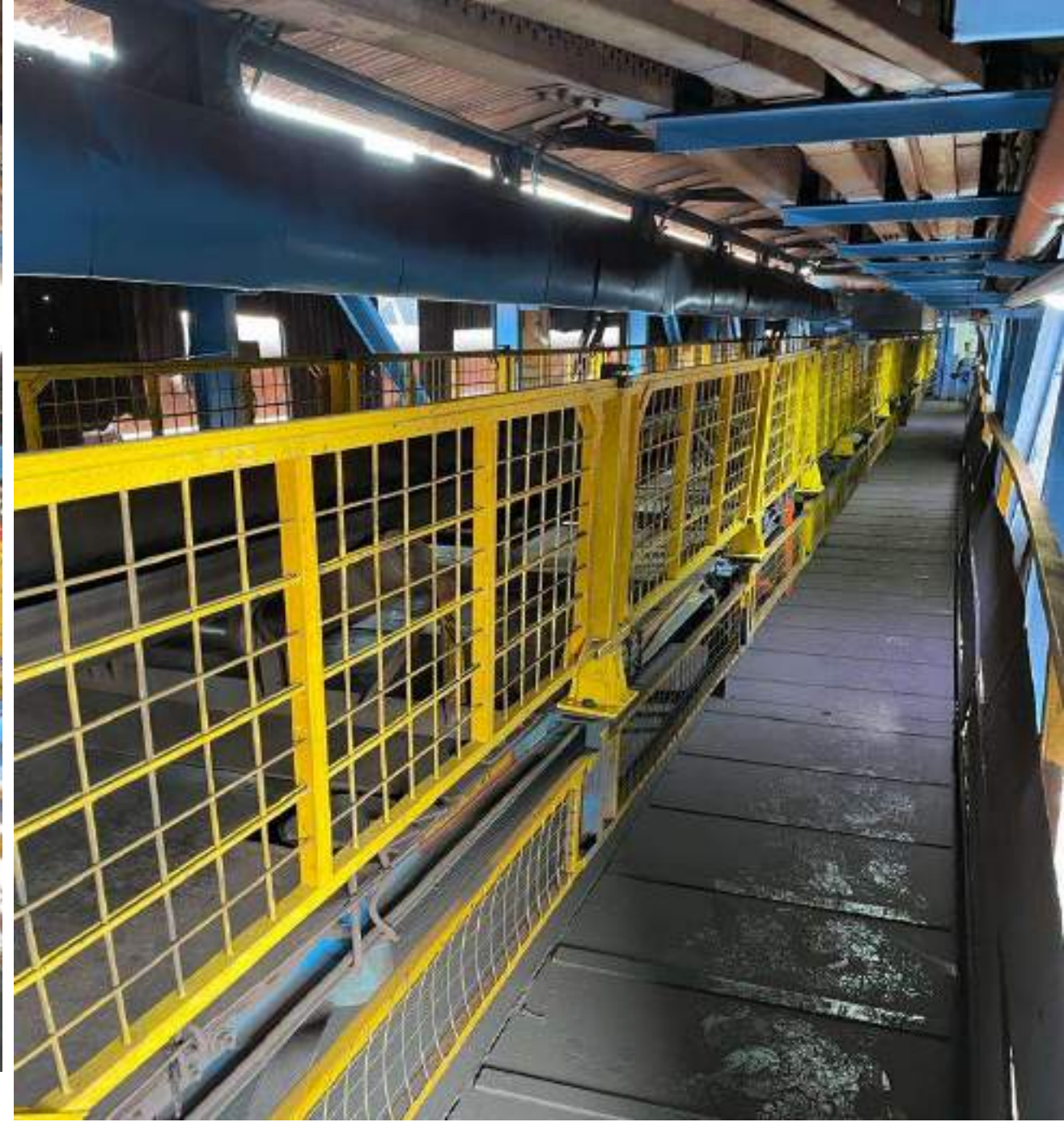


- Conveyor guard is used to protect people from running conveyor belts as conveyor belts move at a speed of 30 KM/Hr or more.
- Metal wire mesh conveyor guards are mostly used in plants
- Due to harsh corrosive conditions, conveyor guards need replacement frequently
- We have introduced FRP conveyor guards, customised sizes are available as per requirements.
- It's made of Pultruded FRP sections of 25mm, 12mm & 5mm



- **What it is:** It's a mechanism by which one can guard any periphery, operating area or fence the boundary
- **How does it work:** It's made of FRP, which is light weight, non-corrosive material and this material was chosen due to it's characteristic of being Non-Conductive to electricity & Fire Retardant
- The guard set is inclusive of a square box that acts as a vertical post, spaced at the gap of 1.5 mtr, a base / shoe for resting the square box, a top bush with copper plate & FRP grating that guards the area
- Inside the FRP section, the metal rod / wire is imbedded, which when gets into contact of copper plate inside the top bush creates a unbroken, complete electrical circuit, without any visible virus which can pose a risk of shock etc.

- Now, if you need any area, for example conveyor guarded for say 200 mtr or 100 mtr, the entire guard must be in position to create un-broken electrical circuit
- If any guard in between is removed by someone while conveyor is still running, as soon as the circuit is broken, it can alert control room about it & you may choose the action to be taken via PLC, i.e. a hooter may go on indicating someone has opened a guard or conveyor may be stopped or a simple pop-up notification in control panel HMI / monitor can be made available
- FGPL scope: supply of conveyor guards / fencing, support in installation remotely or via it's dealer to resolve any bottlenecks, or queries of your team.
- Client scope: connecting and completing electrical circuit till the end of guarding, arranging for 'action' like Hooter or PLC programming for notification or stoppage of conveyor



Movable Walkway with Gratings & handrails for to access coal yard area

- Walkway with all FRP sections. Except for nut bolts, no metal section is used in these walkways



- FRP Fencing in corrosive areas is suitable alternative compared to metal fencing
- FRP fencing does not require re-painting frequently & thus are maintenance free & lifecycle cost is much lower. Fencing can be customised for height & clear gap as per requirements







- Introduced in Tata Steel in 2014, first application was in Ammonia Stripper unit in Coke Oven area
- This area is full of fumes & very high corrosion issue. Our Handrails are installed for over 5 years now
- Total, more than 2000 Mtr installed at Tata Steel Jamshedpur & Haldia





- Our teams are capable of fabricating 300 nos. ladder / day i.e. 900 Mtr ladders per day
- Unmatched speed in fabrication, with effectiveness & best quality
- Complete tooling for C.T. are designed & developed at Indore



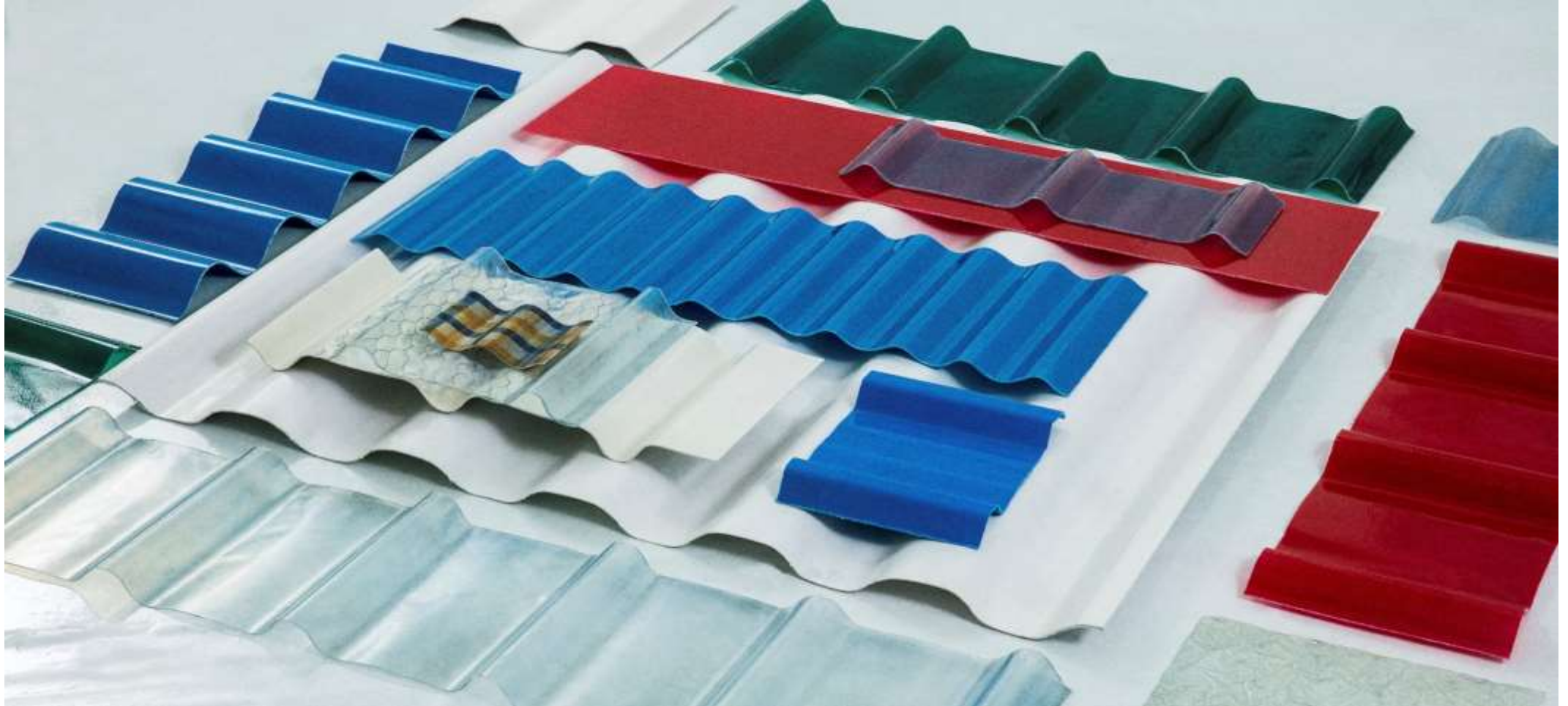




- Chemical resistant, corrosion free structures and profiles of FRP for extreme corrosive conditions
- Complete supply & service package: From design to installation
- Wide range of electrical applications as its insulated from electricity
- Products available: C channels, I beams, Angles, rods, round tubes,



- Ultra Violet stabilized in Roof light Resin for translucent sheets, and Isophthalic resin for opaque.
- Anti-rust, Non-corrosive, light weight and long lasting sheets as compared to GI Corrugated sheets
- We offer FRP sheets of various thickness. As per requirements such as 1.5, 2 & 3 mm thickness
- Ideal substitute of Aluminium / colour coated GI corrugated sheets, which don't sustain in highly corrosive environment or in coastal regions
- Has no impact of rain, dust. Durable in harsh weather conditions
- Translucent sheets are used for sunlight to pass through among GI sheets at regular intervals
- Opaque sheets can be used to reduce temperature inside the shed as FRP is inert to heat & does not get heated like GI, resulting in better working environment inside factories
- Colours are per client's choice – Green, Blue, Red, White





- Plastic dustbins in open sun light turn brittle & break easily with passage of time.
- If it is installed in public places with animals such as cows eating trash from it – plastic dustbins easily break with head of cows. Metal dustbins corrode due to waste from fruits, vegetables or cooked food
- FRP dustbins are mechanically stronger, UV stabilised for long life & light weight. Aesthetically, innovative shapes can be developed & designed.
- FRP Planters are light weight, best alternative to cement or other planters for terrace gardens, growing vegetables.









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IFFCO

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Infrastructure

Cipla
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INDORAMA



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torrent
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LANXESS
Energizing Chemistry



BRIDGESTONE
Solutions for your journey



TATA STEEL

RSPL
EVOLUTION IS CONSTANT

SAINT-GOBAIN

JINDAL
STEEL & POWER

vedanta
transforming elements



& over 1000 more.....



Queries?

Contact us:

- Mr. Tarun Surana (CEO)
- tarun@fgpl.in, manish@fgpl.in
- +91 9820262129, +91 7024130084
- Website: www.fgpl.in