Take Risk Out…Put *Advantex®* Glass In

CASE STUDY

Advantex® Reinforced FRP Used in Large Storage Tanks in Saudi Arabia

Chemical Process Equipment Private Limited (CPE) is a world leader in the field of Fiberglass Reinforced Plastics (FRP) Fabrication. It has manufacturing facilities in Mumbai and Vadodara and is recognized as the largest exporter of FRP equipment.CPE provides consistent quality of FRP equipment for environments with highly corrosive fluids, and has been certified as the Top Exporter by **PLEXCONCIL** India on several occasions.

Figure 1500 m^3 C-PVC+ FRP Storage Tanks installed at a Saudi Arabia site

In 2006, CPE designed, fabricated, and supplied two HCL storage tanks, each witha diameter of 8,410,a height of 10,130 mm, and a volume of 500 $m^3$to a Saudi Arabian Client.The design temperature of the tanks is 90°C with a maximum operating temperature of 60°C.In addition, 21 units of smaller capacity vessels were provided to the same customer the same year.

CPE uses Owens Corning Advantex® glass fiber reinforcements in these large storage tanks. Advantex® glass is a patented corrosion resistantE-CR glass, which not only provides increased mechanical properties compared to standard E-glass and E-CR glass, but also provides the corrosion resistance recommended by ISO 2078 for acidic environments.

Managing Director of CPE, Mr. AshwinRajpurohit, acknowledges the importance and usage of Owens Corning Advantex® glass fiber reinforcements, which provides excellent resistivity towards chemical agents in anti-corrosion applications and plays a major role in improving the durability of FRP equipment.The equipment manufactured by CPE isused in diverse industries, including chemical; pharmaceutical; metallurgical; pulp and paper; food and beverage; automobile; and in other industries where corrosion problems are encountered.

CPE has infrastructure and facilities for manufacturing FRP equipment using Isophthalic Polyester; Bisphenol Polyester; Vinyl Ester resins; etc. Dual Laminates using thermoplastics liners such as Poly VinylideneFlouride (PVDF);Flourinated Ethylene Propylene (FEP); Ethylene chlorotrifluoroethylene (ECTFE); Chlorinated Poly vinyl chloride (C-PVC);

Figure 2FRP Scrubber being installed on location in Saudi Arabia

and Poly vinyl chloride (PVC). Poly Propylene(PP) for chemical resistance and external FRP armour for mechanical strength are also within CPE's manufacturing range.

Figure 3FRP Cooling tower being erected

The locations of CPE's manufacturing sites are strategic and well thought of. The nature of the immense size of the products requires good facilities as far as transport is concerned. This is especially so because CPE's major activity is in the field of exports.

Figure 4 Office and factory located in Mumbai

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