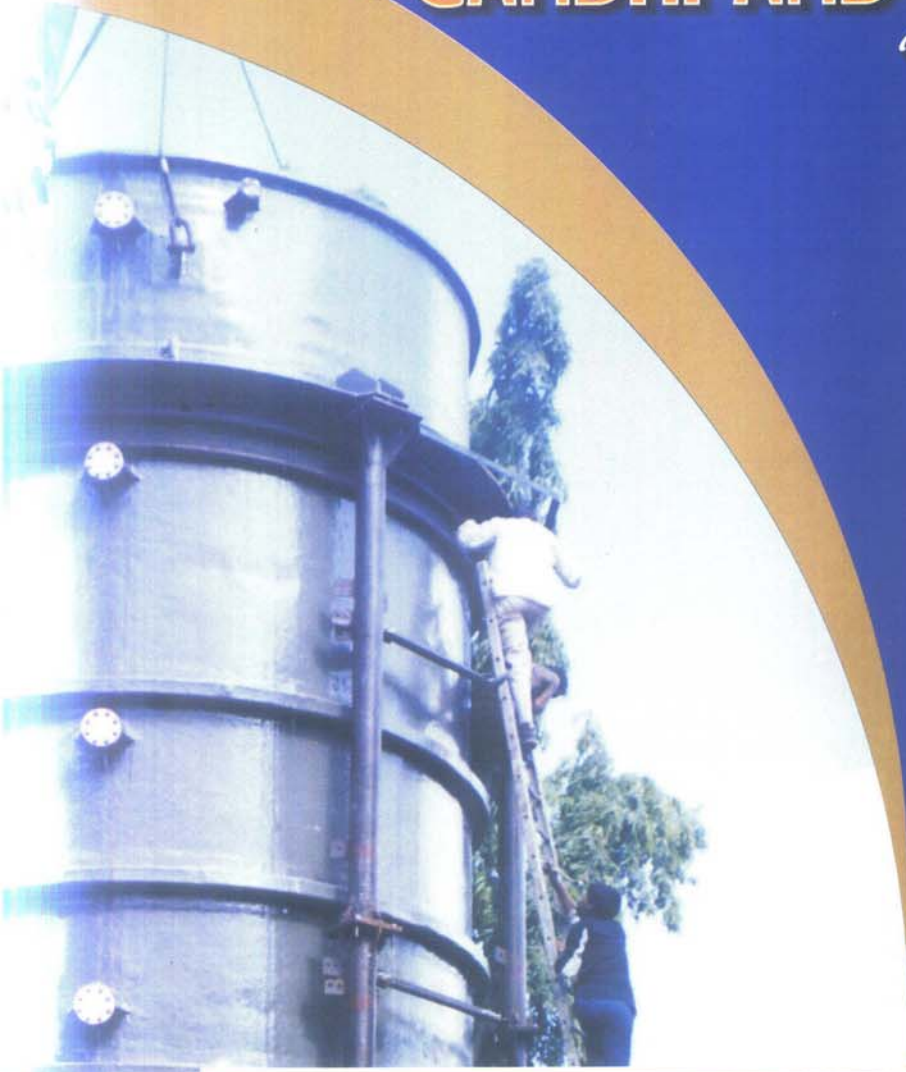


GANDHI AND ASSOCIATES

a company built on values



35

Years of consistent services and Quality product supplies to industries has given a distinct and respected place to Gandhi and Associates in the arena of Fiber Reinforced Plastics Products and Composites. The company established by technocrats and having a remarkable contributions to Products and Application development of reinforced plastics in various sectors of Indian Industries has gained a name as solution provider for small to large and complex requirements in Engineering-thermoplastics, Dual laminates and Composites products Custom molded equipments.

Resources

Technically excellent and committed group of technocrats is a core to the company with experienced Engineering team having one of the highest cumulative experience in the industry, and manufacturing facilities with Machines, Tooling and Well skilled work force to support them.

Organization is headed by one of the chief executives having post-graduate degree in Engineering and wide experience of these 35 years. Design and developments of the products with large installation base with proven stable and sturdy life is the result of his expertise in understanding the materials.

The company is located in GIDC area of Makarpura-Vadodara which is the hub of Engineering and Equipment making Industries. The large workshop is having built-up area of 30,000 sq.ft. in approx. 40,000 sq.ft. space equipped with material handling and fabrication facilities and Quality Management System in compliance to ISO 9001 Certification. Workshop is having facilities of Filament Winding Machines, Pultrusion Machine, Vacuum bagging & Resin Transfer Moulding Equipments, and full fledged tooling shop including carpentry shop of its own.

The skilled work-force capable of executing work in diverse application is headed by experienced Manager and backed by team for Installation and commissioning of products in any conditions and locations to ensure the right end use of products.

Quality Assurance is directly monitored by Chief Executive to ensure the customer satisfaction and product quality and department is fully geared to ensure the stringent conformance to various standards and wide range of tailored requirements. Quality of materials and semi-finished brought-outs is consistently monitored to ensure the final product requirements. To smoothen the whole process of Quality Assurance they are equipped with in-house laboratory sufficient to meet the daily needs of chemical testing and physical property measurements.

Equipments & Facilities

- Workshop with two spans of space with 10 MT HOT with 25' clean working height. 35' span with 7000 sq.ft. area.
 - Filament winding machines, one with electro-mechanical control and one with CNC control having capacity to wind jobs upto 4.0 mtr. in diameter and 8 mtr. in length with complete set of pipe moulds and pipe extraction system.
 - Reciprocating Table type Pultrusion Machine with simultaneous three lines with overhead crane for heavy die handling.
 - Heavy duty Vacuum Pumps, Air compressors, and resin transfer pumps for vacuum bagging, Resin transfer and spray and vacuum Bonding of liners.
 - Radial Drilling Machine, Lathe, Hydraulic Press, Hackshaw Machine are part of Fabrication shop. Carpentry shop is equipped with circular Sawing Machine, Cutting Jig-Shaws.
 - Hot air tools with best controlled and consistent working with in built-in blowers and extruder for fabrication and welding of all Engineering Thermoplastics.
 - Laboratory Equipments to measure Acid Value, Viscosity, Volatile contents, Specific Gravity of Resin Uniformity, Wetability and binding strength of fiberglass.
- Glass to Resin Ratio, Barcol Hardness Testing, Curing Tests.



Product Range

Composite equipments can be made in various combinations of fiberglass and resins like Isophthalic, Bisphenol, Vinyl ester and epoxy resins. Dual Laminate construction of FRP with PP, PVC, PVDF, FEP and lined of MS and SS with these thermoplastic liners

Tanks

Wide range of installation types like horizontal and vertical with dished, flat and conical ends upto size of 200 m3. for storage of various corrosive fluids.

Vessels

Process vessels with pressure and dynamic conditions for stirrers, mixers and reactors upto pressure of 10kg/cm2.

Towers, Scrubbers & Chimney Stacks

Scrubbers for Gas & Liquid Scrubbing and Separation Columns and exhaust stacks in diameter upto 4 meter and stack height upto 40 Mtrs.

Piping

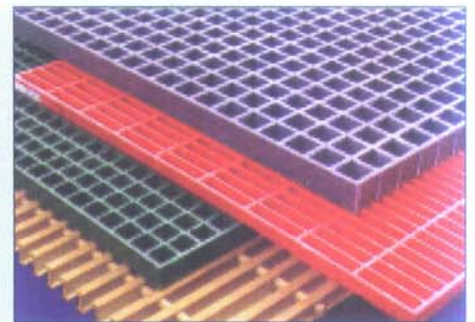
From 50 mm to 2500 mm diameter with fittings to complete the requirement of various fluid and water transmission in coastal and corrosive environments.

Enclosures

For enclosure of field monitoring equipments and Electrical Junctions and Panel boxes with protection class upto IP 66.

Pultruded Products

Walkway, and Floor gratings with various load condition of human movement to live heavy vehicular traffic and Cable Trays for various Electrical and Instrumentation cabling needs.



Knowledge Base

As one of the Pioneer Company in field of FRP product manufacturing many developments and first attempts are to the company's credit, to enumerate some

- Company got technical know-how for vacuum impregnation and vacuum begging process to manufacture FRP products in 1983 from erstwhile M/s. Polyflow (Development) Ltd., U.K.
- Exclusive Process know-how from the U.S. Expert Mr. John H. Mallinson, U.S.A. for FRP Chemical equipment Design and Development as well as conductive layer lining on concrete structure in 1978.
- Technical Assistance and process know-how from erstwhile Glass Fibre Technology Centre, Hyderabad for manufacture of FRP under ground petroleum storage tanks in 1992.
- Technical collaboration with FRP Research Center IIT Madras, for Design & Development of FRP Blades for wind Electric conversion System in 1995.
- One of the First three companies to develop FRP Milk Storage Tanks, Panel Boards and CIP tanks for Milk Vending units with M/s. National Dairy Development Board-Anand under World Banks-operation Flood-II in India.

With all this knowledge wealth, Company has handled the work with almost all the standards code of practice in process equipments and pipe making in composites.

- Indian Standards IS : 10661, 12709 and 12866 for Tank, Vessels and Pipes.
- American standards like NBS : PS 15-69 and ASME Sect.'X'
- British Code of Practice BS-4994-1987, BS 7159, BS-6464 and BS-4154
- Din Standard DIN-16964 to 16967,



Credentials

We are a company highly regarded as manufacturers of strong and sturdy optimum designed products, in the course of long proven track record, we have worked with wide list of organizations from small manufacture to large processing companies, to earmark the few reputed Consultants, EPC Contractors and Thiru Party Inspection Agencies with long association

- Engineers India Limited, New Delhi
- Uhde India Ltd, Mumbai
- Jacobs (H & G) Consultants(P) Ltd, Mumbai
- Projects & Development of India Ltd (PDIL)
- Dalal Conosultants & Engineers (P) Ltd, Mumbai
- Kellogs India Limited
- Development Consultants & Engineers Limited
- Kvaener Powergas India Ltd.
- Fact Engg. & Design Organization, Cochin
- Simon India Ltd
- TUV
- LLOYDS
- Bureau Veritas
- MECON LTD
- Tata Projects Ltd.



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