



**Laybond**  
*Composite Engineering...*



**BULK ACID HANDLING & DOSING SYSTEMS**  
**MEASURING TANK & ACCESSORIES**  
**PIPE & FITTINGS**  
**MOTOR COVER & CANAPIES**  
**ACID PROOF LINING & COATINGS**





The **Laybond** Plant located in the 1.25 Acres Plot at **SIPCOT** (State Industrial Promotion Corporation Of Tamil Nadu) Industrial Complex, Pudukkottai, Tamil Nadu, is one of the few in the industry which is specifically designed and constructed to build Composite Chemical Handling System and Water treatment equipments. Each Equipment is individually designed and fabricated to meet the user's specifications. An extensive quality and testing program assures the user the equipment will meet its intended service for years to come. **Laybond** equipment will be found in many industries with continued success. We will assist in all phases of your project from design and specifications through fabrication and delivery. **Laybond** through its commitment to quality and value, continues to be the forerunner in the Industry.

### State Of The Art Production Facility

There are sufficient technically qualified and experienced professionals employed at our plant. Also we have a well-equipped workshop with the advanced machineries, testing equipment and technologies to meet the international standards and as per customer requirements.

### Chemical Handling / Dosing System

**Laybond** offers chemical handling system which are available in capacity ranging from  $1m^3$  to  $300m^3$ . Generally tanks upto  $40m^3$  capacity made at our factory and beyond that are made at customer's site.

**Laybond** also offer complete accessories like Dyke walls for secondary containment, Acid Proof Lining, Fume Breathers, Transfer / Dosing Pumps, Day / measuring / Dosing Tanks, Interconnecting Pipes, Valves, Ladder, Railing, Level indicators, Safety Showers, Motor Covers etc. as per customers specifications. These tanks will have proper lifting and shifting arrangements for handling.

- |                               |                     |                      |                         |                       |
|-------------------------------|---------------------|----------------------|-------------------------|-----------------------|
| ● Hydro Chloric Acid (Hcl)    | ● Brine Solutions   | ● <b>Application</b> | ● Sodium Hypo Chlorides | ● Demineralized Water |
| ● Phosphoric / Sulphuric Acid | ● Caustic Solutions |                      | ● Petroleum Products    | ● Chlorine Solutions  |

### Our Scope of Work

- Design & Drawing
- Procurement
- Fabrication & Supply
- Erection
- Testing
- Commissioning



### Material of Construction

- FRP
- PP/FRP
- PVC/FRP
- CPVC/FRP
- Stainless Steel
- Rubber Lined Mild Steel



### FRP/Dual Laminated/ HDPE Pipe & Fittings

**Laybond** offers FRP Pipe and fittings ranging from 50 NB to 1500 NB. These Pipes being mechanically very strong can take high pressure and vacuum. These Pipes can also made of dual laminated plastics like PVC-FRP, PP-FRP etc., **Laybond** also offers Fabrication of **ISI** marked **HDPE/PP** Pipes and fittings ranging from **DIA 16 to 630mm**.



### FRP Motor Covers

**Laybond** offers Wide range of FRP made Covers / Canopies for All size and make of the Motors and pumps installed outdoor to protect from all weathering conditions. These are corrosion proof, aesthetically pleasing and require negligible maintenance.



### FRP Lining and Coatings

**Laybond** undertake lining of MS/RCC Tanks, Vessels, Silos, Pits and Tenches at customers site with corrosion resistant FRP using resin system of Isophthalic, Bisphenol, Vinyl ester, Furen, Epoxies and Thermoplastic lining such as PVC, CPVC, PP, PVDF etc.,

## Laybond Pipings & Equipments

Head Office : 14-B, SIPCOT Industrial Complex,  
Pudukkottai-622 002 Tamil Nadu

Tel : +91-9443169842  
E-Mail : laybond@gmail.com

Web : www.laybond.co.in

Branch Office : 3, Mahalakshmi Complex  
Rabale, Navi Mumbai - 400 701

Tel : +91-9320032218  
E-Mail : laybond@gmail.com



**Laybond**  
Composite Engineering...



Your Clean Air, Product and Fume Extraction Solution Partner



## Scrubbing System

Laybond's high-efficiency, low pressure drop scrubbers use random or structured packing, a mist eliminator, and a liquid distribution system to remove acid and toxic gases through a process of absorption and neutralization. Many gaseous emission applications include the removal of SO<sub>x</sub>, HCl, HF, HBr, NH<sub>3</sub>, or NO<sub>x</sub>.

Fume Extraction Systems are fabricated from high-strength, corrosion-resistant, fiber-reinforced plastic (FRP) in accordance with the latest ASTM and product standards.

Our typical systems include all vessel internals, recirculation pumps, instrumentation, chemical feed pumps, chemical storage tank, and control system.

### Available Materials of Construction

- FRP, Polypropylene, CPVC, PVC, HDPE

### Capacity Size Range (Gas Handling Capacity)

- 1,500 through 70,000 cfm

### Pressure Drop Range

- 5" through 9" w.c.

### Contaminant Removal Efficiencies

- Particulate removal: 2 microns and above from 97 to over 99.9%
- Water soluble gases up to 98%

### Typical Applications Include

- Particulate, mists, odors, and gaseous emissions from chemical, pharmaceutical, food, and mineral product dryers
- Mineral, ore, and rock product crushing and grinding operations
- Fertilizer dryer particulate and acid gases
- Dust emissions from bag dumping, material handling, and mixing operations

### Why choose FRP and Dual Laminated Scrubbers

- Corrosion resistance
- Reasonable structure design and high purification efficiency
- Cost-effectiveness
- Custom-design flexibility
- Environment friendly
- Low maintenance and long life

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Branch Office : 3, Mahalakshmi Compound, Rabale, Navi Mumbai - 400 701 Tel : +91-9320032218  
E-Mail : sales@laybond.co.in / laybond@gmail.com Web : www.laybond.co.in

An ISO 9001:2008 Certified Company