

**EXTRA CO**  
COMPOSITES INDIA PRIVATE LIMITED



# FIBER GLASS REINFORCED PLASTIC **FUEL STORAGE TANKS** UNDER GROUND

---

**LINED WITH TRUST AND  
REINFORCED WITH PERFECTION**



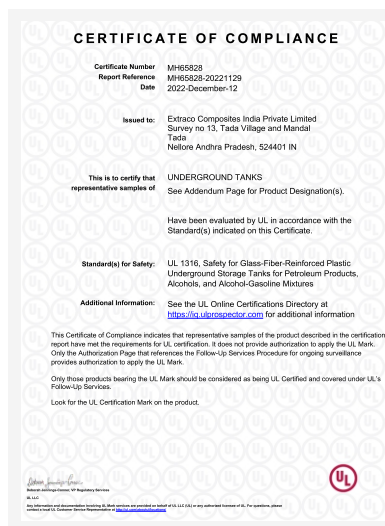
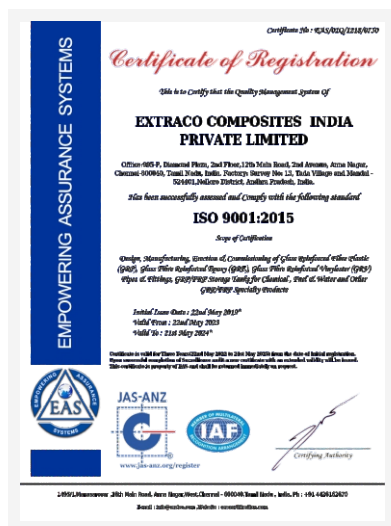
## ABOUT OUR COMPANY

- ❖ Extraco Composites India Private Limited, a benchmark in Composites Field in India, provide excellent quality and maintenance free products.
- ❖ We are a leading manufacturer of FRP underground Fuel Storage Tanks, and specialise in the Design, Manufacturing and Erection of FRP underground Tanks.
- ❖ We have supplied nearly 1000 Tanks PAN India and the same is commissioned and working successfully.
- ❖ We have our state-of-the-art factory located at Tada Village and Mandal, Tada, Andhra Pradesh with a covered shed area of 50,000 sq. ft and a new shed of 20,000 sq. ft with a total extent of 7.15 acre inclusive of open storage area for handling and storing of tanks and other associated products.
- ❖ The plant has been commissioned and running successfully since Aug 2009 serving customers all over the world.
- ❖ Our factory is situated at Tada, Andhra Pradesh 70 km away from Chennai Airport.

## ACCREDITATIONS

Extraco has obtained the following Accreditations:

- ❖ ISO 9001:2015 Certified for Quality Management.
- ❖ PESO License to manufacture both single wall and double wall FRP Underground Fuel Storage Tanks of various capacities up to 85KL.
- ❖ UL 1316 2nd Edition Approval for FRP Underground Fuel Storage Tanks of various capacities.
- ❖ UL 1316 3rd Edition (Approval in Process)



## QUALITY ASSURANCE POLICY - ISO 9001 : 2015

To build Quality into the processes with Continual Improvement, to the customers standards, for achieving defect free products on time, every time aiming at Total Customer Satisfaction, by involvement of personnel and upgradation of technology with commitment to satisfy applicable legal requirement.

## OVERVIEW

- ❖ Extraco Fuel Tank has high axial strength due to its helical winding.
- ❖ Extraco uses UL approved resin for Fuel Storage Tanks.
- ❖ Extraco has equipped with CNC filament winding machine for the manufacturing of tanks up to 4m dia with the adequate infrastructure.
- ❖ Extraco tanks are eco-friendly tanks which do not pollute the environment.
- ❖ Extraco has both the single wall and double wall tanks.
- ❖ Extraco has various monitoring system such as Dry Monitoring System and Wet Monitoring System.
- ❖ Extraco has PESO approval and UL approval for all capacities up to 85KL for Fuel Storage Tanks.
- ❖ Extraco can manufacture tanks with any customised size and design.

## APPLICATIONS

### Applications of Fuel Storage Tanks

- ❖ Oil and Gas Industries
- ❖ New Petroleum Retail Outlets
- ❖ Airports
- ❖ Augmentation of Fuel Station

## DESIGN AND ENGINEERING

M/s. Extraco Composites India Pvt. Ltd. has a full-fledged design and engineering office which can take care of the following functions:-

- ❖ Extraco Tanks are designed for a Design Life of minimum 30 years.
- ❖ Extraco Underground tanks are designed for Live Load to take care of the truck load, soil load and vacuum.
- ❖ Extraco has designed the tanks considering all testing conditions as per UL 1316 3rd edition.
- ❖ Extraco has designed the tanks for Internal Pressure and Hydrostatic Pressure.
- ❖ Extraco employs the latest design standard EN 13121-3:2016 for checking all loading conditions, stability of tanks under internal and external pressure.

## MANUFACTURING

Extra Co Tanks are manufactured on CNC filament winding machine by Dual Helical Filament winding process monitored by a fully computerised system. The inner liner thickness of tanks is approximately 2 mm, reinforced with ECR grade glass fiber.

The structural wall consists of glass rovings impregnated with resin wound at precisely set helical winding patterns under uniform tension for the various designs. The outer finish consists of resin topcoat.



## PRODUCT INFORMATION

Capacity	Type	Diameter in mm	Length in mm
20KL	Single Wall / Double Wall	2400	5144
30KL	Single Wall / Double Wall	2400	7444
30KL Compartment (20KL+10KL)	Single Wall / Double Wall	2400	7444
45KL	Single Wall / Double Wall	2400	10844
45KL Compartment (30KL+15KL)	Single Wall / Double Wall	2400	11162
50KL	Single Wall / Double Wall	2400	12044
54KL	Single Wall / Double Wall	2500	12160
54KL Compartment (30KL+24KL)	Single Wall / Double Wall	2500	12160
54KL Compartment (44KL+10KL)	Single Wall / Double Wall	2500	12160

- ❖ The above capacities are currently in use and other capacities can be manufactured based on the customer's requirement.

## APPLICABLE STANDARDS

Design Standard	EN 13121-3:2016 / ASME RTP -1
Testing Standard	UL 1316 3 <sup>rd</sup> Edition
Specification Standard for Filament Winding Process	ASTM D 3299
Specification Standard for Contact Moulding Process	ASTM D 4097

## QUALITY CONTROL AND INSPECTION

Extra Co Tanks are subject to quality control testing/inspection and thorough checks as per inspection test plan. All incoming raw materials and finished products are inspected and tested in accordance with international standards in line with inspection test plan.

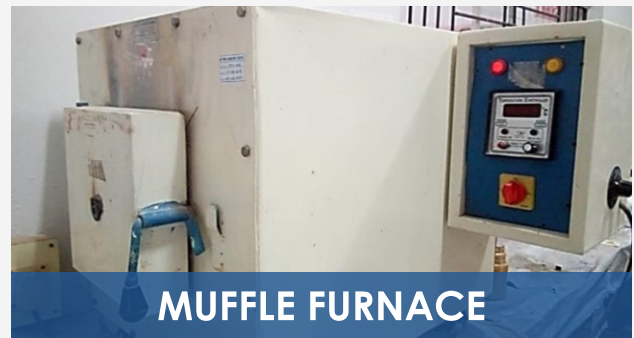
Properties	Value
Specific Gravity	1580 - 1850 kg/m <sup>3</sup>
Flexural Strength	151 - 400 N/mm <sup>2</sup>
Flexural Modulus	15000 - 23000 N/mm <sup>2</sup>
Barcol Hardness	> 35
Tensile Strength	143-350 N/mm <sup>2</sup>



## TESTING STANDARDS

Type of Test	Standard For Test Method
Visual inspection	EN 13121-3:2016
Dimensional checks	ASTM D 3299/ ASTM D 4097
Barcol hardness	ASTM D 2583
Loss on Ignition	ASTM D 2584
Tensile strength	ASTM D 638
Flexural strength and Modulus	ASTM D 790
Lap Shear and Peel Shear Strength Test	EN 13121-3:2016
Leakage Test	UL 1316 3rd Edition
Water Load and Hydrostatic Pressure Test	UL 1316 3rd Edition
Tank Lifting Test	UL 1316 3rd Edition
Tank Connection Torque and Bending Test	UL 1316 3rd Edition
Interstitial Integrity and Communication Test	UL 1316 3rd Edition
Buried Tank Load Tests	UL 1316 3rd Edition

## INHOUSE TESTING CAPABILITIES



## TYPE TEST FACILITIES

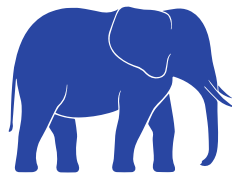




## INSTALLATION PHOTOS







# EXTRA CO

COMPOSITES INDIA PRIVATE LIMITED

## GET IN TOUCH



Office: #995-P, Diamond Plaza, 12th Main Road,  
2nd Avenue, Anna Nagar, Chennai-600 040



Works: Survey No.13, Tada Village & Mandal,  
Tirupathi Dist, Andhra Pradesh - 524401, India



+91 44 4269 3754  
+91 94 4409 1834



projects@extracomposites.com  
sales@extracomposites.com



www.extracomposites.com