

Fire Fighting Tank: Product & Producer Guide

A comprehensive manual detailing high-capacity, code-compliant industrial fire water and foam tank solutions.

1. Core Tank Technologies

- **FRP Fire Fighting Water Tanks:** Light, highly customizable fiberglass configurations. Ideal for quick on-site deployment up to 20 KL (20,000 Litres). Chemical and corrosion-resistant.
- **Model VFT Bladder Tanks:** Specialized vertical/horizontal steel systems engineered for safe foam concentrate storage and delivery. Vital for industrial foam fire suppression.
- **Modular Zincalume & GFS Tanks:** Heavy-duty bolt-together high-strength steel panels coated with zinc-aluminium alloy or fused glass (Glass-Fused-to-Steel) offering immense longevity (50+ years) and high capacity.

2. Critical Compliance Codes

Industrial fire fighting tanks must align with rigorous national and international regulations to guarantee absolute reliability during emergency drawdowns:

- **NFPA 22:** Standard for Water Tanks for Private Fire Protection.
- **UL Listed / FM Approved:** Certification ensuring components survive high stress, seismic movement, and extreme heat.
- **NBC India (Part 4):** Compliance mandates for minimum static fire water storage capacities based on building hazard classifications.

3. Featured Manufacturers & Procurement Matrix

Product / Brand	Key Advantages	Compliance & Use Case
VFT Bladder Tanks (Viking Group Inc.)	Precision ASME steel construction, reliable internal bladder mechanism.	UL Listed, FM Approved. Industrial Foam Storage.
Zincalume Panels (Orison Industries / Winfra)	Modular, fast assembly, extreme corrosion resistance.	NFPA 22 compliant. High Capacity Above-Ground.
Precast Fire Sump (Mass Precast Products)	M30/M40 reinforced concrete, rapid heavy deployment.	NBC India Compliant. Industrial Hydrant/Sprinkler.
FRP Storage Systems (Regional Fabricators)	Lightweight, completely seamless, fully customizable sizes.	Corrosion Proof. Small-to-Medium Footprint.