

PRE-QUALIFICATION DOCUMENT

Design Consultancy Services for FRP
Products

**Submitted by: Wisdom Design
Consultancy**

Company Overview

- ▣ **Company Name:** Wisdom vistha Design Consultancy
Established: 2002
Headquarters: Mumbai, India
Global Presence: Offices and projects across Asia, Middle East, Europe, and North America
Website:
<https://www.wisdomengineering.com/frp-storage-tanks-kiooana>

About Us:

- ▣ Founded in 2002 as a local design firm in Mumbai, Wisdom vista Design Consultancy has evolved into a global leader in specialized engineering and design consultancy services for storage tanks. We provide advanced, high-performance solutions across multiple sectors, including industrial equipment, infrastructure, and composite materials. Our team of experienced engineers and designers offers end-to-end support, from conceptual design to execution

Areas of Expertise in FRP Design

- ▣ **FRP Storage Tanks** (vertical & horizontal, aboveground & underground)
- ▣ **FRP Scrubber Systems** (including gas absorption towers)
- ▣ **FRP Pressure Vessels** (with ASME compliance)
- ▣ **FRP Pultruded Structures** (platforms, ladders, cable trays, etc.)
- ▣ Structural and mechanical design analysis (FEA)
- ▣ Corrosion resistance design optimization
- ▣ Support for fabrication and manufacturing drawings
- ▣ CFD analysis for flow-intensive FRP equipment

Technical Resources and Tools

- ▣ CAD Platforms: AutoCAD, SolidWorks, Revit
- ▣ Analysis Software: ANSYS, CAESAR II, PV Elite, STAAD Pro

Industry Codes

- ▣ ASME RTP-1
- ▣ BS 4994
- ▣ EN 13121

Materials

- ▣ Vinyl Ester Resin
- ▣ Chopped Strand Mat (SM),
- ▣ Woven Rovings (WR),
- ▣ Filament Winding (FW)

Fabrication

- ▣ hand lay-up
- ▣ Filament winding processes
- ▣ The design process focused on critical elements including shell thickness calculations, dished end design, nozzle design, anchorage, support structures, lifting lugs, stiffeners, saddles, bottom, roofs,

Quality Assurance

- ▣ Design Consultancy maintains a rigorous internal QA/QC process aligned with ISO 9001 standards. All deliverables undergo peer review and verification for accuracy and compliance with applicable codes.

Projects

#	Project Name	Client	Location	Scope	Year
1	FRP Tank Farm Design	Reliance Industries	Jamnagar, India	Design of 30+ storage tanks	2021
2	Scrubber Tower Retrofit	SABIC	Jubail, Saudi Arabia	Structural and flow redesign	2020
3	High-Pressure FRP Vessel	ONGC	Mumbai High	ASME-compliant vessel design	2019
4	FRP Ladder & Platform System	L&T Hydrocarbon	UAE	Pultruded structural system design	2022
5	Underground FRP Septic Tanks	Tata Housing	Pune, India	Structural design & site adaption	2017

Projects

6	FRP Desalination Ducting	Veolia	Oman	Stress & thermal design	2023
7	FRP Chemical Tanks	Haldia Petrochemicals	West Bengal	3D modeling and stress check	2018
8	FRP Gas Scrubbers	Aramco	Dammam	Complete mechanical and CFD design	2021
9	Seawater Intake FRP Pipes	Adani Ports	Gujarat	Joint design and material selection	2019
10	Acid Storage Tank Design	BASF	Dahej, India	High corrosion resistance design	2020

Projects

11	FRP Cooling Tower Ducts	Essar Power	Gujarat	Dynamic analysis of ducts	2016
12	Modular FRP Platform	Siemens	Germany	Pultruded floor system	2022
13	FRP Biofilter Housing	GreenTech	USA	Housing and internal flow path design	2021
14	FRP Fire Water Tank	BHEL	Chennai	300 KL vertical tank design	2018
15	Dual Laminate FRP Vessel	Hindalco	Odisha	Composite shell and liner integration	2020

Projects

16	FRP Manholes & Covers	MMRDA	Mumbai	Custom structural cover designs	2015
17	Neutralization Tank Design	Dow Chemicals	Singapore	FRP & PP-lined composite design	2023
18	FRP Trench Covers	Mumbai Metro	Mumbai	Traffic load-rated design	2017
19	FRP Flue Gas Ducts	JSW Steel	Karnataka	Thermal stress analysis	2020
20	Pultruded Walkways	Indian Railways	Pan India	Design and layout for safety access	2022

Contact

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