

SHALIMAR WATER TANKS PRIVATE LIMITED

ZINCALUME LIQUID STORAGE SOLUTION

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Jal Jeevan Mission

Har Ghar Jal

Introduction

The Jal Jeevan Mission is an important step toward addressing water scarcity issues in rural areas of India, enhancing the quality of life for millions of people by providing access to safe and clean water. It's part of the broader efforts to achieve the United Nations Sustainable Development Goal 6, which aims to ensure access to water and sanitation for all.

The "Jal Jeevan Mission" (JJM) is a significant initiative launched by the Government of India. It was announced in **August 2019** with the aim of providing piped water supply to all rural households by 2024. The mission seeks to ensure every rural household in the country has access to safe and potable water for drinking, cooking, and other domestic needs.

Jal Jeevan Mission, is envisioned to provide safe and adequate drinking water through individual household tap connections by **2024** to all households in rural India.



SHALIMAR WATER TANKS PRIVATE LIMITED



SHALIMAR WATER TANKS PRIVATE LIMITED IS AN ISO 9001 CERTIFIED COMPANY INCORPORATED IN 2023.

SHALIMAR WATER TANKS IS PROVEN AND DEPENDABLE MANUFACTURING OF **LIQUID STORAGE TANKS & GRAIN SILOS** FROM 25KL TO 2500KL AND **BULK STORAGE SILOS** HAVING CAPACITIES FROM 25MT TO 10000MT ON TURNKEY BASIS.

We provide design manufacturing engineering support, outstanding customer service, consistent product quality, and on-time delivery of our products The combination of our in house Zincalume technology and our experienced engineering staff allows us to reduce costs significantly, delivering on time, every time.

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Zincalume water Storage Tanks



Description

Cylindrical-shaped, Modular-built, Bolted Water Storage tanks with internal high strength liner covered by Dome roof.

Wall Structure

Zincalume G300 steel panels (Zinc/Aluminium Alloy) with a special corrugated profile. Panels are overlapped in both vertical and horizontal direction for increased rigidity and connected using high tensile bolts with protective pvc caps.

Protective Coating

Tanks wall sheets and roof sheets are made of Zincalume steel, Grade AZ150. This is a hard-wearing thermos-set coating of 150 gr/m deposit.

Specification of Roof Sheet

Zincalume G55 corrugated steel, .50mm thick with a compressed foam perimeter seal.

Roof Trusses of Tank

Hot-Dipped Galvanized steel tube section to European standard BS-EN-ISO-1461. The roof trusses shall be self-supporting with no ground columns and bolted to the tank wall.

Bolting Specification

Hot-Dipped Galvanized, Grade 8.8, high tensile steel bolts, diameter M10 for the tank and M16 for Nozzles.

ACCESSORIES

Mechanical Level indicator with SS Wire

Roof Access with platform and handrail (HDG)

Roof Ventilator

External Ladder with safety cage

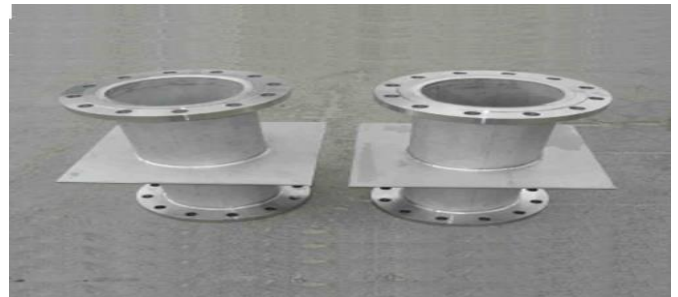
Internal ladder

Foundation

Tanks shall be designed for installation onto a reinforced concrete ring beam foundation encasing a clean compacted sand base.



TURBINE VENT



NOZZLES

PVC TANK LINER

Shalimar water tanks pvc reinforced tank liners are suitable for storage of a large range of liquids. Shalimar liners are tested for 4 lakh folds for any crack. Shalimar liner based tanks are us-fda certified and are safe to store water in any environment condition. Shalimar water tanks has earned expertise in fabricating and engineering steel structures like liquid storage tanks in multiple dimensions

Tank liners prevent the material stored in the tank to keep contact with the tank surface thereby ensuring the stored material to remain contamination free.

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Benefits of Tank Liners

The main purpose of tank liner is to protect the stored material from coming in contact with the surface of the storage tank thereby preventing any contamination. It does so in the following ways:

Improves Impermeability

Most of the storage tanks are filled with some sort of liquid, water in general. Over time this liquid finds its way out of these structure walls. Concrete can absorb moisture and metal can rust; therefore, a liner ensures that there are not any leaks present.

Chemical Integrity

Liquids when stored in a storage tank without liner can react with the surface of the tanks and get contaminated. A liner ensures that there is no direct connection between the stored liquid and the tank.

Product Description	760 gsm Both side PVC coated fabric
Finish	Matt
Type of Yarn	High Tenacity Polyester filament yarn
Weave	Plain
Denier	1000 x 1000 D

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Technical Details of Zincalume Tanks

S.No.	Parameter	Description
A	TANK BASIC DETAILS	
1	Design Life	40-50 Years
2	For wind velocity	Average 50 m/sec as per IS: 875.
3	Seismic zone	As per Location and as per IS:1893
4	Specific Gravity	1
5	Temperature range	-20 to + 50 Deg C.
6	Colours available	Natural Zincalume
B	TANK WALL	B
1	Type	Bolted, Panelled, Liner Tanks
2	Shape	Circular
3	Wind Load Bearing of Empty Tank	50m/sec.
4	MOC of Tank Sheets	Zincalume /Galvalume
5	Composition of Coating	Al- 55%, Zn-43.5 % , Si- 1.5%
6	Coating thickness	150 GSM(AZ150)
7	Colour of Sheets	Natural zinc colour
8	Thickness of wall sheets	Minimum 0.8 mm of one sheet – and more in multiples as per structural load
9	Mechanical Properties of Zincalume Sheet	Yield Strength- 300 Mpa
10	Sheet Dimensions (Wall & roof)	3100 mm X 1100 mm
11	Sheet Corrugation	Pitch – 75 mm Depth – 18mm
12	Wall Sheet tensile strength	340 Mpa
C	ROOF SHEET	
1	Roof Type	Self-Supporting Dome Roof
2	MOC of Roof Sheet	Zincalume /Galvalume
3	The thickness of Roof Sheet	0.5mm
4	Load Bearing Capacity of Roof	110 Kg/m ²
5	Roof Sheet tensile strength	550 Mpa.

ZINCALUME STORAGE TANK SOLUTIONS

Overhead Tanks



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Water Storage Tanks



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Comparison

Shalimar water Tanks can be commissioned and used immediately after installation. No curing process required. Tanks up to 248,000 litres in capacity can be installed in one or two days	Construction time is considerably longer than the Shalimar water tanks kit form tank	Concrete tanks may take several days to complete. Curing can take up to 28 days depending on weather conditions at the time of installation.
All Shalimar water tanks contain a fully welded one piece liner (like a giant bag) no sealing is required	End sealing of bolted steel tanks without a liner is a difficult task. These tanks do not have a continuous seal.	
Tank liner is designed to move with any flexing of the tank wall. Concrete floor has limited flexibility	Tank liner is designed to move with any flexing of the tank wall. Concrete floor has limited flexibility	Tank liner is designed to move with any flexing of the tank wall. Concrete floor has limited flexibility
Low cost for high quality product that is built to last. Installation is simple and fast and tanks can be filled immediately upon completion of construction. Highly labour intensive with considerable time required for con	Low cost for high quality product that is built to last. Installation is simple and fast and tanks can be filled immediately upon completion of construction. Highly labour intensive with considerable time required for con	Low cost for high quality product that is built to last. Installation is simple and fast and tanks can be filled immediately upon completion of construction. Highly labour intensive with considerable time required for con

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Comparison between various types of tanks

Features	Our Tank	MS Tank	RCC Tank	SS Tank	PVC Tank
Cost (Rs/litre)	2.00 to 10.00	3.00 to 12.00	5.00 to 15.00	17.00 to 35.00	3.00 to 12.00
Maintenance	Not Required	Required	Require	Not Required	Highly Required
Food Grade	yes	No	No	No	Yes
Algae Formation	No	Yes	Yes	No	Yes
Corrosion	No	Yes	Negligible	No	No
Relocation	Easy	Difficult	Not Possible	Difficult	Easy
Weight	Light	Heavy	Very heavy	Heavy	Light
Expandable	Yes	No	No	No	No
Liquid Temperature	Negligible	Increase	Increase	Increase	Increase
Life of complete tank	40-60 Yrs	7-15 Yrs	30-80 Yrs	60-80 Yrs	5-10 Yrs
Need painting/ coating	No	Yes	Yes	No	No

RESEARCH & DEVELOPMENT

Shalimar Water tanks believes in bringing out the best by constant learning and developing its products through continuous research by expert Research and development team. We implement the best and the latest Technology, 3-D CAD packages and other strategic changes in the products.

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ZINCALUME TANKS PART DISCRIPTION WITH ALL SPECIFICATION

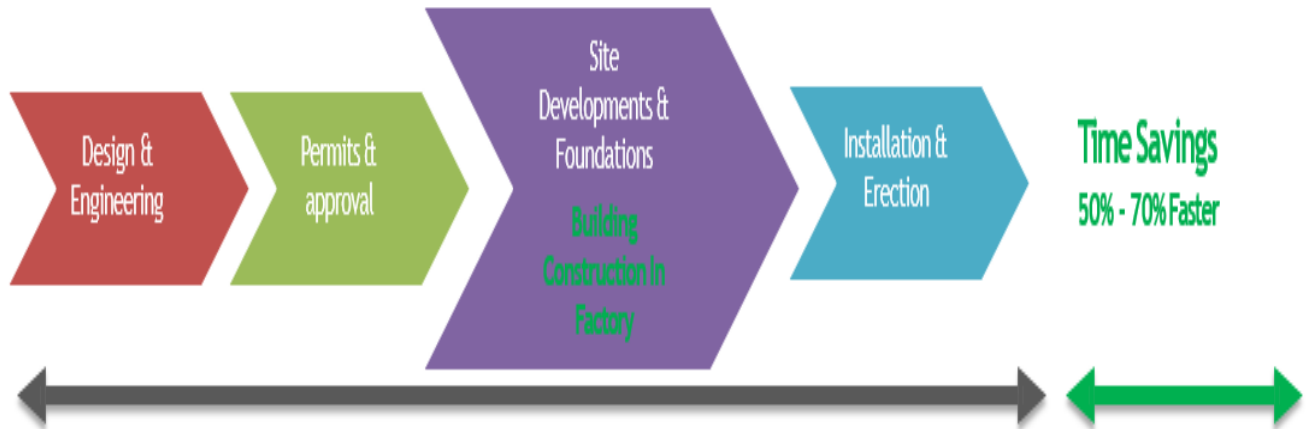
Sr.No.	Item Description	Specification	
1	Wall Sheet/Roof sheet	Brand Name	Tata BlueScope/JSW Jindal steel
		MOC	Zincalume Steel
		% of Alloy	55% Aluminium, 43.5% Zinc, 1.5% silicon
		Yield Strength	300 Mpa for Wall sheet, 550 Mpa for roof sheet
		Depth between two waves	16-17 MM
		PCD of Wave	75 MM
		Coating	150 GSM
		Sheet Thicknes	Min:- 0.8 MM for Wall sheet Max:- 2.4 MM for Wall Max:- 0.6 MM for Roof sheets
2	Liner	Brand Name	SRF
		Type of Yarn	High Tenacity polyester filament yarn
		Grade	Food grade 760 GSM both side PVC coated
		Thickness	0.55 MM(IS 7016 part I-1982 Test Method)
		Product weight	760 GSM (IS 7016 part I-1982 Test Method)
		Water Proofness@	220 PSI Np leak(IS 7016 part VII-1986)
		Adhesion Strength	7 kg/5CM(IS 7016 part V-1987 Test Method)
		Tear Strength	Warp-35 kg weft-30kg(IS 7016 part III-1981 Test Method)
Breaking Strength	Warp-240 kg/5CM weft-220kg/5CM(IS 7016 part II-1981 Test Method)		
3	Truss	MOC	MS-HDG
		Material Description	IS SQ Pipe and Angle Max Thickness 3 MM
4	Hardware	Brand Name	TVS/Unbrako
		Grade	M10 8.8 grade
		MOC	Hot Dip Galvanised
5	Anchor Fastner	Brand Name	Hilti
		Grade	M16 8.8 grade
6	Ladder	Type	Bolted Monkey type ladder with safety cages
		MOC	GI Steel from Tata Bluescope
7	Nozzles	Type	Nozzle with plate and Rubber gaskit
		Orientation	Inlet, Outlet, Drain, Overflow
		MOC	MS-HDG
8	Level Indicator	Type	Floating ball level indicator Scale with SS wire
		MOC	GI Steel from Tata bluescope
9	Hold Down Brackets	Material Description	10 MM Thickness welded secton
		MOC	MS-HDG
		Anode Bag	2.5 kg Magnesium brick with copper wire
		Gasket	EPDM
		Silicon	Food Grade
		SS turbine vent	200 NB with base frame corrugated rubber flange
		Nut caps	silicon
		Stiffeners(GI sheet)	If Required
		Roof access	Bolted 1.5 MM thickness size 600x600 MM

10	Accessories	Reflector	Triangle
		Wind Ring Pipe(GI round pipe)	If Required
		Conceal Panels(Znal Sheet)	If Required
		Washer	GI and Rubber
		Lightening Arrester	Copper
		Internal ladder	Nylon Rope
		Ladder handrail	MS-HDG
		Geo Textile	3 MM

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MODULAR BUILDING SOLUTIONS

Process with time Saving



Site Built Schedule



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Our Manufacturing unit and machines



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Available Sizes

- 25 KL
- 50 KL
- 75 KL
- 100 KL
- 125 KL
- 150 KL
- 175 KL
- 200 KL
- 225 KL
- 250 KL
- 300 KL
- 350 KL
- 400 KL
- 500 KL
- 600 KL

Why Choose our Tanks

Under the supervision and able guidance of our mentor Mr. Sachin Goel. Our Zincalume steel water storage tanks are manufactured using the highest quality materials and advanced manufacturing processes. They are built to last and designed to withstand harsh environmental conditions, ensuring long-lasting performance. We understand that every customer's needs are unique. Therefore, we offer a range of customizable options for tank capacity, dimensions, and additional features to tailor the tank to your specific requirements.

Our Zincalume steel water storage tanks are coated with a special alloy that provides excellent corrosion resistance, making them ideal for storing water without any risk of contamination.

We pride ourselves on delivering products on time. Once your order is confirmed, we ensure a smooth and efficient delivery process to get the tanks to your location as quickly as possible.

Our dedicated customer service team is here to assist you throughout the entire process. From the initial inquiry to after-sales support, we are committed to providing the best possible service.

Our manufacturing processes prioritize environmental sustainability. We strive to reduce waste and ensure that our products have a minimal impact on the environment.

We believe that chosen the Quality and Durability.

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THANKING YOU

Please accept my deepest gratitude.


Thank you for your attention

CONTACT WITH US

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