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FLOATING CONCRETE PONTON PRODUCT CATALOGUE 2025



WEST COAST MARINE
YACHT SERVICES PVT LTD





ABOUT US

West Coast Marine Yacht Services Pvt Ltd is India's fully integrated pleasure boating and water front infrastructure company providing turn key solutions to its customers. Our experience spans over 30 years and our projects can be found in lakes, rivers, and waterways all across India. Our Unique floating systems give you the freedom to realize your ideas. Having built and delivered over 50 floating solutions projects , we understand the challenges, and responsibilities of every owners and offers creative solutions to meet their requirements. Our success lies in consistently completing all projects on or before the agreed time, and adhering to the budget.



- ☐ INDIAN NAVY
- ☐ INDIAN ARMY
- ☐ INDIAN CUSTOMS
- ☐ SAILING CLUBE
- ☐ TOURISM DEPARTMENT
- ☐ PRIVATE RESORT OWNERS
- ☐ YACHT OWNERS
- ☐ PRIVATE AIRLINES
- ☐ CORPORATE FIRMS

INTRODUCTION – WHAT IS FLOATING CONCRETE PONTOON

A floating concrete pontoon is a unique structure designed to provide stability, support, and functionality over water bodies. It serves as a stable platform for various applications, ranging from recreational activities to commercial and industrial endeavors. Floating concrete pontoons combine the durability of concrete with the buoyant properties required to keep the structure afloat.

Composition and Construction:

Floating concrete pontoons are typically constructed using reinforced concrete, which is known for its strength and durability. Using Expanded Polystyrene (EPS) in the construction of floating concrete pontoons is a popular technique that combines the buoyancy of EPS foam with the structural support of concrete. The pontoon is designed to have an internal structure that provides buoyancy, allowing it to float on the water's surface. The combination of concrete's weight and the buoyant force generated by the internal structure ensures stability and proper balance.



APPLICATIONS

Marinas and Ports: Concrete pontoons are commonly used to create stable platforms for mooring boats and yachts in marinas and ports. They offer convenient access for boaters and ensure safe docking.

Ferry Terminals: Floating concrete pontoons provide secure and stable platforms for ferry terminals, allowing efficient loading and unloading of passengers and vehicles.

Floating Docks: These pontoons serve as floating docks for various water-based activities, including swimming, fishing, and recreational boating. They provide easy access to the water and a stable platform for users.

Aquaculture and Fish Farming: Concrete pontoons are used to support aquaculture operations, such as fish farming cages and net pens. They provide a stable base for raising fish and other aquatic organisms.

Tourism and Leisure Facilities: Floating concrete structures can host tourist attractions, such as restaurants, cafes, shops, and entertainment venues. They create unique waterfront experiences for visitors.

Offshore Energy Installations: Concrete pontoons can be used to support offshore energy installations, such as wind turbines and wave energy converters. They provide a stable platform for maintenance and servicing.

Floating Bridges and Walkways: Pontoons can be used to create floating bridges and walkways, connecting areas separated by water bodies. They offer safe passage for pedestrians and cyclists.

APPLICATIONS

Event Platforms: Concrete pontoons can serve as stages or platforms for events, concerts, festivals, and other gatherings held on or near water bodies.

Emergency Infrastructure: In disaster-prone areas, concrete pontoons can be used to create temporary emergency infrastructure like floating hospitals, supply depots, and evacuation points.

Environmental Restoration: Pontoons can be used as part of environmental restoration projects, providing habitats for marine life and supporting ecosystem recovery.

Floating Housing and Accommodation: In regions with limited land availability, floating concrete structures can be used for residential or tourist accommodation.

Waterfront Development: Developers use concrete pontoons to create waterfront spaces for commercial, residential, and recreational purposes, enhancing the appeal of coastal areas.

Military and Defense Applications: Floating concrete platforms can be used for military and defense purposes, such as naval bases, offshore surveillance, and amphibious operations.

Floating Solar Farms: Concrete pontoons can support floating solar panels, allowing for the installation of solar farms on water bodies.

ADVANTAGES & BENEFITS

Stability and Load-Bearing Capacity: Concrete pontoons provide excellent stability and load-bearing capacity. They can support heavy structures like buildings, walkways, docks, and more, making them suitable for various activities such as marinas, ports, ferry terminals, and offshore platforms.

Durability: Concrete is known for its durability and resistance to harsh environmental conditions such as saltwater, waves, and UV radiation. This longevity reduces maintenance and replacement costs over time.

Customization: Floating concrete pontoons can be designed and manufactured in various sizes, shapes, and configurations to suit specific project requirements. This adaptability makes them suitable for a wide range of applications.

Low Environmental Impact: Concrete pontoons are generally considered environmentally friendly as they do not release harmful chemicals or pollutants into the water. They can also provide habitats for marine life, which can contribute positively to local ecosystems.

Easy Installation and Transportation: Once manufactured, concrete pontoons can be easily transported to the installation site and positioned using standard maritime equipment. This ease of installation can reduce construction time and associated costs.

Versatility: Concrete pontoons can serve multiple functions, such as creating stable platforms for recreational activities like swimming, fishing, and boat access, as well as supporting commercial operations like tourism and aquaculture.

ADVANTAGES & BENEFITS

Reduced Maintenance: Concrete pontoons require relatively low maintenance compared to other materials like wood. They don't rot, corrode, or degrade as quickly, reducing the need for frequent repairs or replacements.

Long Service Life: When designed and constructed properly, concrete pontoons can have a long service life, which contributes to the sustainability and cost-effectiveness of projects over the long term.

Aesthetics: Concrete pontoons can be designed with aesthetics in mind, integrating them harmoniously into their surroundings and enhancing the overall visual appeal of waterfront areas.

Wave Attenuation: The mass and rigidity of concrete pontoons can help reduce the impact of waves and turbulence, providing a calmer and more controlled environment for mooring, loading/unloading, and other activities.

Modular Construction: Modular construction techniques can be applied to floating concrete pontoons, allowing for efficient production and assembly. This approach can streamline projects and reduce construction time.

Economic Benefits: While the initial costs of manufacturing and installation might be higher than some alternatives, the longer lifespan, reduced maintenance, and versatile use can lead to overall cost savings and a strong return on investment.

FLOATING CONCRETE PONTOON DEVELOPMENT IN INDIA



*Pioneers in Europe in Developing Floating
Pontons and Marina Projects Since 1989*



**WEST COAST MARINE
YACHT SERVICES PVT LTD**

Exclusive Licensed Builder in India

OUR **CONSTRUCTION YARD** – AT THANE, **MAHARASHTRA, INDIA**



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FLOATING CONCRETE PONTOON CASTING PICTURES AT YARD – AT THANE, MAHARASHTRA, INDIA



OUR **PROJECTS** – AT UMARSADI GUJARAT

For Fisheries Department, Govt. of Gujarat

GENERAL CHARACTERISTICS

Strength : 45N/mm² concrete, watertight, reinforced with galvanized steel mesh

Core : Expanded polystyrene, density 15kg/m³

Fenders Impregnated nordic pine / Rubber D Fender

Joint Silent and semi-flexible, with galvanized steel bolts and elastomer blocks

Flexibility Modular construction with variable dimensions

Fixings and moorings Piles, metallic sections, radius arms, chains or flexible moorings

Services Cable ducts in PEAD pipe

Live load Live load capacity above 4kN/m² and more

Optional accessories

Deck of nordic pine wood, exotic pine or composite.

Cast iron and aluminium cleats and bollards.

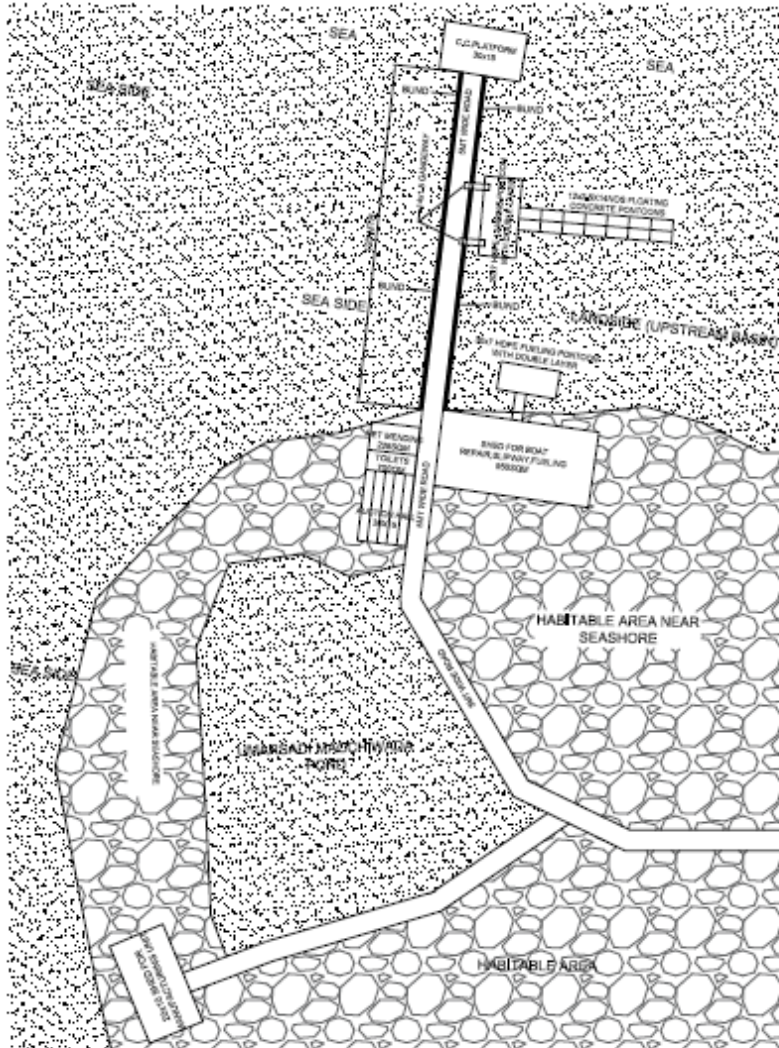
Fenders in marine elastomer.

Pigmented concrete, Service Pedestal for Electricity,

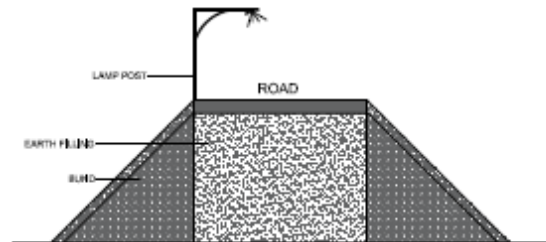
Water, SOS Pedestals, Fire Fighting Pedestal etc.



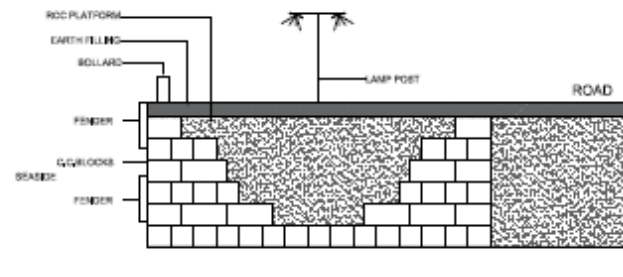
OUR PROJECTS – AT UMARSADI, GUJARAT



Concept Layout Umarsadi Fish Landing Centre

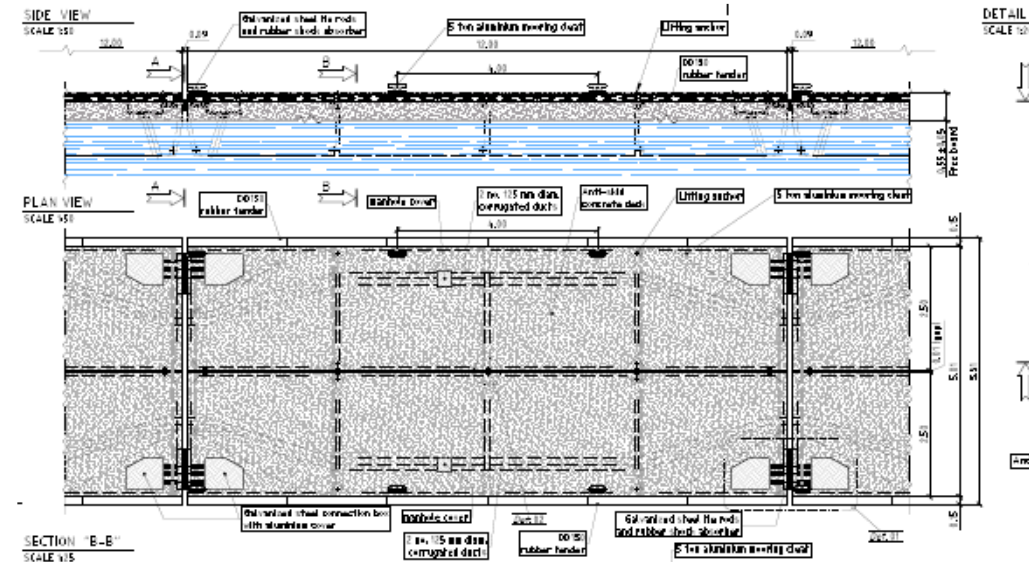


CROSS SECTION THROUGH ROAD



CROSS SECTION THROUGH ROAD & CC PLATFORM

Note: Location & size is Indicative, it may change & vary during final execution



Project Components

- Floating Concrete Pontoon : 12 Mtr x 2.5 Mtr x 14 Nos. (will make 84 Mtr x 5 Mtr Single Deck)
- Hybrid HDPE Pontoon : 700 Sq. Mtr
- Aluminium Gangway : 14 Mtr x 1.5 Mtr : 03 Nos.
- Bund / Breakwater : 200 Mtr
- Hammer Head : 35 Mtr x 15 Mtr
- Other : net mending, boat repair, auction hall, roads, toilets

Umarsadi – Gujarat : 90% Work completed in 1 year



OUR PROJECTS – AT DAHANU, MAHARASHTRA

For Indian Coast Guard

Project Components

- Floating Concrete Pontoon : 12 Mtr x 4 Mtr x 02 Nos.
- HDPE Pontoon : 150 mtr. x 03 mtr. X 02 layer- Total 900 Sq. mtr.



*We can Customize any Size of Concrete Pontoon
based on Client requirement*



*All our pontoons are designed approved by
Indian Institute of Technology (IIT)*

OUR **PROJECTS** – AT DAHANU, MAHARASHTRA



OUR PROJECTS – AT WEST BENGAL

For Inland Waterways Authority of India (IWAI)

Project Components

- Floating Concrete Pontoon : 12 Mtr x 2.5 Mtr x 04 Nos. equipped with PVC roofing
- Total 04 Locations in West Bengal (Narkelbari, Maganpara, Palasi, Ramnagar)
- Total Floating Concrete Pontoon Size : 480 Sq.mtrs.
- HDPE Walkway: 9m Length x 2m Width x 0.8m height at each location
- Service & SOS Pedestal



Designed approved by Indian Institute of Technology (IIT) and certified by APAVE TIV INDIA PRIVATE LIMITED (formerly known as ABS INDUSTRIAL VERIFICATION (INDIA) PRIVATE LIMITED), ABS group is a member of the International Association of Classification Societies (IACS)

OUR **PROJECTS** – AT WEST BENGAL



IWAI – West Bengal (04 locations) - (Narkelbari, Maganpara, Palasi, Ramnagar)



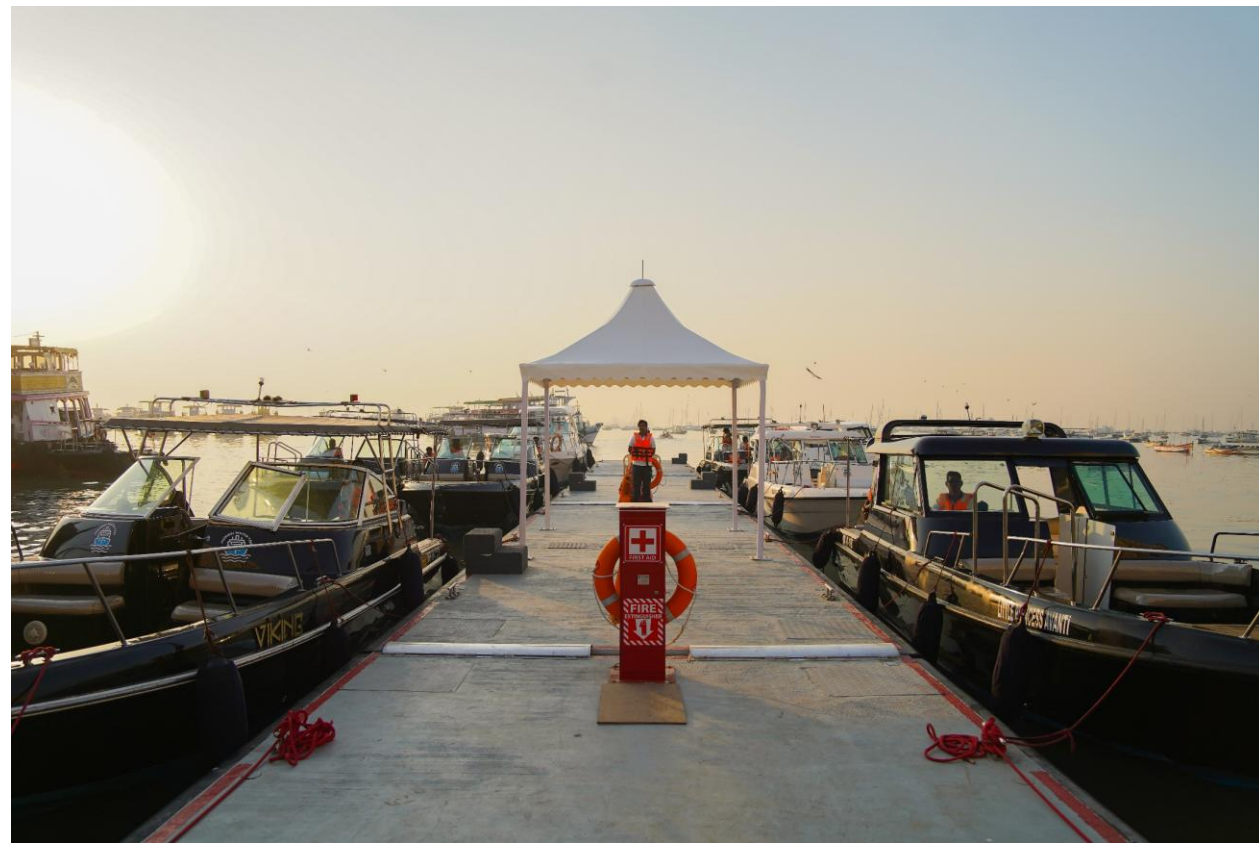
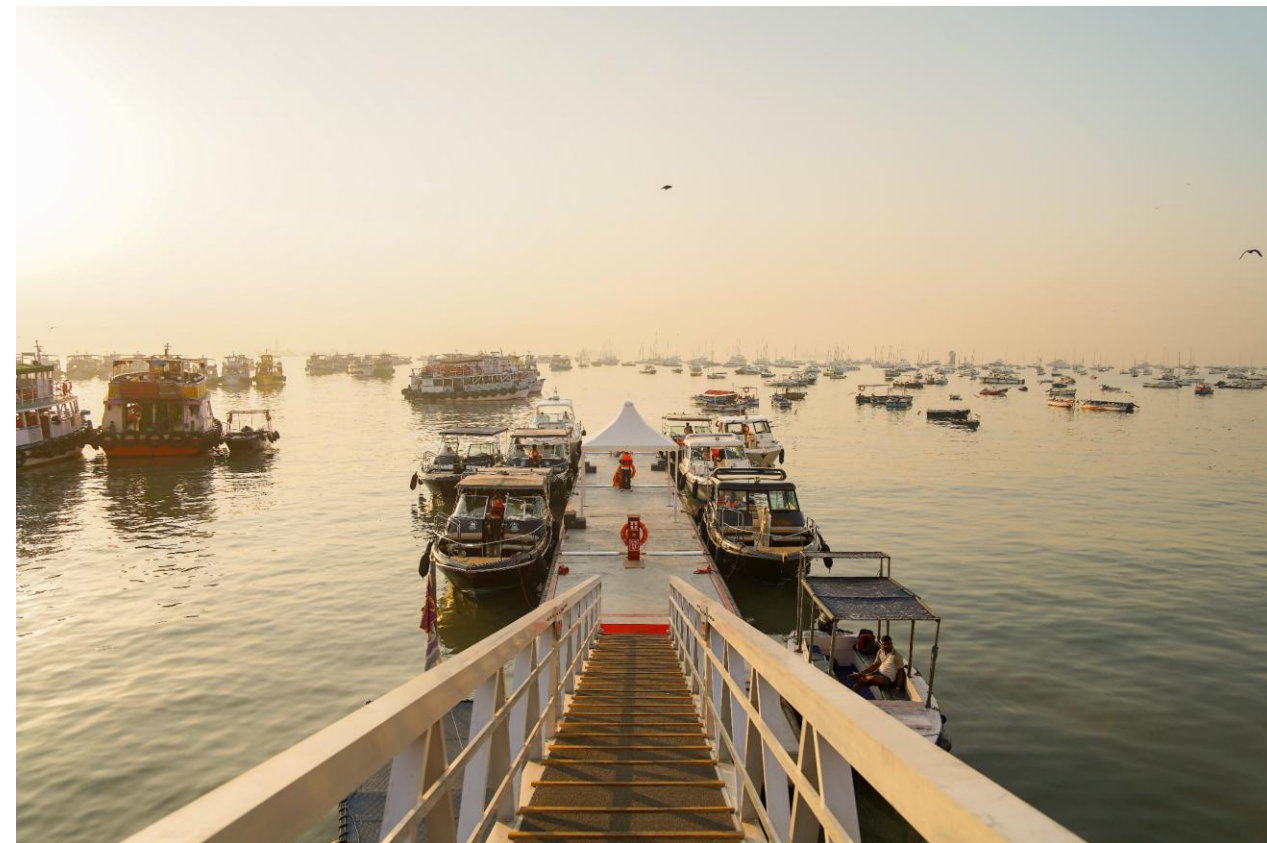
OUR **PROJECTS** – AT GATEWAY OF INDIA, MUMBAI

Project Components

- Floating Concrete Pontoon : 48m x 4m (units of 12m X 4.0m)
- Aluminium Gangway: Size 18 m x 1.5 m
- Service & SOS Pedestal
- pontoons are designed approved by IIT Madras and certified by APAVE TIV INDIA PRIVATE LIMITED (formerly known as ABS INDUSTRIAL VERIFICATION (INDIA) PRIVATE LIMITED), ABS group is a member of the International Association of classification societies (IACS)



OUR **PROJECTS** – AT GATEWAY OF INDIA, MUMBAI



SOME OF OUR PROJECTS COMPLETED WORLDWIDE



Ocean Reef Marina, Panama City



Karpaz Gate Marina

SOME OF OUR OTHER PROJECTS COMPLETED WORLDWIDE



Tavares Seaplane Base & Marina Dock



Derg Marina

SOME OF OUR OTHER PROJECTS COMPLETED WORLDWIDE



Placeres Dock Remodeling



Combarro Sport Marina



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THANK YOU!