

Kattupalli Shipyard

The **Kattupalli Shipyard cum Captive Port Complex** is a large shipyard project at Kattupalli village near Ennore of Chennai being built by L&T Shipbuilding Ltd. It is being set up jointly by TIDCO and Larsen & Toubro (L&T) in two phases.L&T shipbuilding kattupalli is having shipyard & a minor port.

In terms of cargo generation, the terminal is located close to the majority of Container Freight stations in Chennai. The Kattupalli development also includes a shipyard being developed by L&T, a private sector-backed development.

It is planning to compete with Japanese and Korean shipyards in building "specialised ships," such as large-size warships, car carriers, submarines, naval offshore patrol vessels, fast patrol vessels and corvettes. After Colombo and Singapore, Kattupalli will be the third major international destination for ship repairs in the region.^[2]

The shipyard-cum-minor port complex was officially inaugurated on 30 January 2013.^[3]

Contents

- Structure**
- Engineering components hub**
- Proposed facilities**
- Project status**
- See also**
- References**
- External links**

Structure

The first development phase, which aims to be operational by January 2012, will have a 1.2 million TEU capacity through two 350-metre-long L-shaped berths and a total terminal area of around 20 hectares. The berths would be operated by the Philippines-based International Container Terminal Services Inc for 28 years.^[4] The terminal has an option to rise to 1.8 million TEU capacity during the second phase of development.^[5] Six ZPMC super-post-panamax, twin-lift, gantries are to be installed and 15 Noell one over five, 6+1 width RTGs supported by a state-of the-art terminal management system.

All the equipment is of a higher-end specification. Mobile equipment will include two reach stackers and one empty handler.

The yard will offer 5,000 ground slots and a CFS is also planned as part of the service package. Access to the terminal on the marine side is via a 3.5 km-long channel and port basin offering a draft of 14 m—the draft capability is such that it provides for projected increases in southern Asian container trade. It also provides for the future possibility of mainline Asia–Europe vessels making a stop in southern India, which has been mooted as a distinct possibility by certain analysts. Kattupalli’s North and South breakwaters, which together total 3.35 km, ensure a safe harbour and uninterrupted terminal operations.

The yard has 3 rail-mounted quayside cranes (RMQCs) (arrived at the port in December 2011 from China), 15 rubber-tyred gantry cranes (RTGCs), two reach stackers and 420 reefer plug points. On 12 April 2012, the yard received Zhen Hua 20, a heavy lift vessel, with three more RMQCs to be installed at the second berth.^[4]

Engineering components hub

When fully completed, it will be the largest shipyard in Asia.^[6] Once operational, the shipyard will become a nucleus for heavy engineering industry (fabrications and components manufacturing).^[7] This would make Chennai a hub for engineering components. The project is being implemented in two phases with a total investment of about ₹ 46,750 million. ₹ 30,500 million will be invested in Phase I (2009–11), and the rest in Phase II (2012–15). MoU has been signed and the project has commenced.^[8]

Proposed facilities

The Kattupalli yard is mainly built for making warships and to augment the existing capacity at Hazira in Gujarat for sub-marines. A draft of up to 14 m and a waterfront exceeding 2.2 km makes the facility well suited to building large defence ships.^[9]

The Integrated shipyard complex will have the following facilities:

- Commercial ship building including very large cargo carriers; specialized cargo ships for liquid/gas transportation and cruise vessels
- Building of defense ships including submarines
- Off-shore platforms and floating production-cum-storage facility for oil and gas sector
- Refitting and re-engineering of commercial and defence ships
- Heavy engineering fabrication and components production for ship building.

Kattupalli Shipyard cum Captive Port Complex	
Other name(s)	Kattupalli Shipyard
General information	
Location	Kattupalli, Chennai, Tamil Nadu, India
Status	opened
Built by	TIDCO and Larsen & Toubro
Opening	January 2012 ^[1]
Technical details	
Cost	₹ 46,750 million
No of Super-Post Panamax crane	6
Maximum draft	14 m
Quay length	3.35 km
Terminal area	20 ha
Dry berths	6
Wet Berths	4

At the yard, encompassing 1,250 acres,^[10] L&T has also commissioned facilities to build offshore platforms, drilling rigs and FPSOs (floating production, storage and offloading unit), besides a minor port which can handle container ships. An 18,000-tonne shiplift is being installed at the yard.

In the first phase, around ₹ 40,000 million is being invested in the facility that will start rolling out ships by January 2012.^{[1][2]}

Project status

7 August 2009

- L&T scales down investment in the first phase to ₹ 15,000 million. Total investment in both phases of the project is ₹ 50,000 million.^[11]

26 April 2010

- L&T arranges funds for Kattupalli project. The shipbuilding facility, billed as India's biggest, has got environmental clearance from the Union government. The Tamil Nadu government has allocated land for the shipyard complex.^[12]

14 Sep 2010

- India's biggest engineering and construction firm, L&T, will open a container terminal by January 2012 at Kattupalli, where it is also building a shipyard.^[13]

26 Sep 2010

- Engineering major L&T's shipping arm, L&T Shipbuilding Ltd (LTSB), has earmarked around ₹ 15,000 million to develop around 800 acres of land at Kattupalli for expanding its vessel building capacity, a top company official said.^[14]

06 Apr 2011

- International Container Terminal Services Inc (ICTSI) said it has signed the contract with India's L&T Shipbuilding Ltd. for the container port operations for the Kattupalli Container Terminal in Tamil Nadu, India.^[15]

08 Jun 2011

- ICTSI has forged a deal with LTSB for the management and operation of the Kattupalli International Container Terminal (KICT) for a 28-year period – a term that is exceptionally long for this type of arrangement and which represents something of a first in the industry.^[16]

25 Jul 2011

- L&T Ship Building Ltd is likely to form a joint venture with Ennore Port Ltd and the Tamilnadu Industrial Development Corporation (TIDCO), to build a 25.5 km road that would connect Ennore port and Kattupalli port. The road project is estimated to cost Rs 360 crore.^[17]

Jun 2015

- L&T Ship Building at Kattupalli is fully functional.

Construction of New Build Projects: In 2015 L&T has bagged order for construction of 07 Offshore patrol vessels for Indian Coast Guard and Floating Dock for Indian Navy which will be designed in house at L&T Ship Design Centre. At commercial new build front L&T Shipbuilding is currently executing eight offshore vessels at Kattupalli Yard for Overseas Client. Presently L&T is executing a project for construction of 54 Interceptor Boats for Indian Coast Guard. Designed in-house with waterjet propulsion and aluminium hull, these boats have a speed of over 45 knots and excellent manoeuvrability.^{[18][19]}

Design Centre: L&T Shipbuilding has a design centre with capability of in-house designing of Naval ships and submarines and has already developed basic designs of Interceptor Boats, Offshore Patrol Vessels, Corvettes etc. which can be adapted to customer requirements. 3D Modelling integrated with Product Lifecycle Management and other Design and Analysis software suites enable accuracy, revision control and output aligned with yard infrastructure.^{[18][20]}

Ship Repairs, Refits & Conversions: L&T Shipbuilding is geared to handle ship repairs, refits and conversions catering to commercial and Defence ships/submarines and offshore platforms. A shiplift of 200m x 46m with lifting capacity of 21050 tons (future extension planned for larger vessels) along with transfer system and dry berths enables quick turnaround of ships. There are 04 wet berths of 260 / 200 meters length. Many refit projects have been successfully completed.^{[21][22]}

Jan 2016

- Larsen & Toubro (L&T) to modernize Kilo-class submarines in its Kattapulli yard

Larsen & Tourbo (L&T), is gearing up to host a major modernization plan of the Indian Navy. In an official letter to the Indian government, a Russian shipyard has put forward its willingness to work alongside L&T. If all decks are cleared, L&T will play a major role in a planned Rs. 5000 crore Kilo-class submarine modernization plan of the Indian Navy. L&T will accordingly upgrade three of the four remaining submarines in its Kattupalli shipyard ^[23]

See also

- Chennai Port
- Ennore Port
- Ports in India

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External links

- [Larsen & Toubro Limited, Engineering Construction & Contracts Division \(http://www.larsentoubro.com/homepage/develop_ports.htm\)](http://www.larsentoubro.com/homepage/develop_ports.htm)
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