



एक कदम स्वच्छता की ओर

माझगांव डॉक शिपबिल्डर्स लिमिटेड
(भारत सरकार का उपक्रम)

Mazagon Dock Shipbuilders Ltd.
(Formerly Mazagon Dock Limited)
(A Govt. of India Undertaking)
CIN : U35100MH1934GOI002079

डॉकयार्ड रोड, माझगांव, मुंबई - 400 010
Dockyard Road, Mazagon, Mumbai - 400 010

Certified - ISO 9001-2015

संदर्भ क्रमांक
Ref. No.

दिनांक
Date

30 Aug 2022

To
BSE Limited
Phiroze Jeejeebhoy Towers
Dalal Street,
Mumbai- 400 001
Scrip Code: 543237

To
National Stock Exchange of
India Limited
Exchange Plaza, C-1, Block G
Bandra Kurla Complex
Bandra (E), Mumbai - 400 051
NSE Symbol: MAZDOCK

Sub: Intimation under Regulation 30 of SEBI (Listing Obligations and Disclosures Requirements) Regulations, 2015 –Publication.

Dear Sir,

1. We are enclosing herewith a copy of MDL's reply for the questionnaire sent by PSU Watch.
2. The above information is submitted in terms of Regulation 30 of SEBI (Listing Obligations and Disclosures Requirements) Regulations, 2015.

This is for your kind information.

Thanking You,
Yours Faithfully,
For MAZAGON DOCK SHIPBUILDERS LIMITED

(Vijayalakshmi Kumari)
Company Secretary



Encl: as above



IRQS
A DEPARTMENT OF
INDIAN REGISTER OF
SHIPPING

फोन +91(22) 2376 2000
Phone +91(22) 2376 3000
+91(22) 2376 4000

फैक्स (Design) +91(22) 2373 8159
Fax (Material) +91(22) 2373 8151
(Finance) +91(22) 2373 8338

(Proj-C) +91(22) 2373 8147
(East Yd.) +91(22) 2373 8333

वेबसाईट : www.mazagondock.in
Website : www.mazagondock.in

REPLIES OF QUESTIONNAIRE FROM PSU WATCH

- 1. Sir, how has the pandemic affected deliveries of ships? Is MDL back on track?**

Ans- Mazagon Dock Shipbuilders Limited, being manpower intensive industry, was affected by the Covid-19 pandemic. Despite all the odds MDL have delivered three (03) defence platforms (02 Scorpene Submarines & 01 Missile guided Destroyer) in a single calendar year of 2021 which is a remarkable feat. For FY 2021-22, the shipyard has recorded the highest ever turnover of Rs 5733 Cr. reflecting a growth of 41.64% over the last financial year. The Company by all means left no stones unturned to achieve the targets vis-a-vis following all Covid-19 protocols and safety measures at workplaces.

- 2. A lot of thrust these days is on indigenisation. How is MDL taking it up?**

Ans- Indigenous warship building has been a distinct success story in MDL's attempt to be self-reliant in Defence through Make in India policy. Today, the country is capable of building Destroyers, Frigates, Corvettes as well as strategic submarines. Indigenous contents have steadily increased in these construction programs and presently it is pegged at 72-75%. More can be done in this direction by a collaborative approach amongst all stakeholders.

Defence sector is witnessing technological advancements of an unprecedented magnitude. In this context, it is imperative that all stake holders of warship building and submarine building put concerted efforts for technological self-

reliance. The indigenous content in warship building has increased from 40% to 75% in fourth series of vessels. MDL is playing a facilitator role in liaison with the private sector for import substitution or progressive enhancement of local content of systems, hitherto being imported. At the platform level, the front line warships being built by MDL are fully 'Made in India' and as a shipyard MDL have significantly contributed in Indian Navy's transition from 'Buyers Navy' to 'Makers Navy'.

3. Tell us about the export initiatives, if any, taken by MDL.

Ans- MDL has a rich legacy in contributing to the defence needs of our country and exported 243 vessels since 1960. The impeccable quality of the products delivered has been internationally acclaimed and is being leveraged in a concerted manner for promoting exports. MDL's export portfolio covers a wide gamut of products comprising new builds for civilian and military end use, repairs of commercial vessels and refits of war vessels in the past.

In addition to constructing vessels, MDL is also ready to provide the services like design of warships and commercial ships, transfer of technology and imparting training in construction of large warships, auxiliary boats and ferries, handholding the Customer's Shipyard for construction, first line repairs, setting to work & trials of Warships and auxiliary vessels. MDL also has facilities & capacity for fabrication of Pressure hull subsections. Export of Pressure Hull sections to any other country manufacturing / procuring Scorpene class Submarines is also being explored. MDL also intends to undertake infrastructure development and become part of the global supply chain for

products. MDL targets countries in Asia, Africa, Middle East and Latin America regions.

MDL has been selected as the preferred production partner to undertake major ship construction activities for M/s SSK Zvezda Shipbuilding Complex, Russia. Zvezda Shipbuilding complex (SBC) is ambitious on development of a shipbuilding cluster in the far east of Russia and the project will open up a large scale export business opportunity for India and specifically to MDL in future as the envisaged quantum of work is really huge spanning many years. MDL intends to take this business opportunity forward.

4. How much is MDL's current order book?

Ans- The current order book is of around Rs. 43, 379 crores approx (till 31 Jul 2022).

5. Tell us about the AI initiatives undertaken by MDL if any.

Ans- New age technology has proved to be a boon for shipbuilding industries specially by facilitating intelligent decision making which has improved the overall efficacy thereby optimizing the time required for the process.

MDL being a premier Shipbuilding yard has continuously thrived to implement these technologies in order to improve the shipbuilding process. Listed below are few of the initiatives :-

a) AI assisted "Automatic Defect Recognition" in X-ray welding: X-Ray weld defect detection is a vital task when it comes to shipbuilding industry, which requires trained experts to perform routine inspection. Use of AI assisted

Automatic Defect Recognition reduces the time required by faster detection of defects in weld joints.

b) The use of Industry 4.0 technologies like Virtual & Augmented Reality and Artificial Intelligence are very imperative for MDL. We can now provide access to 3D design models to production and inspection teams working on the actual vessel. Not just that, it enables them to see each and every inch of design details in 1:1 scale by superimposing the model data on the physical ship.

c) Aveva Net: For enhancement of production activities on board it is envisaged that the 3D CAD Model of ship shall be made available to on board ship, Production, Planning SQC and other departments. Aveva Net system which is empowered with intelligent search can be accessed from MDL Intranet Portal. This will make the 3D CAD Model available along with other related information like drawings, sketches, Installation, Manuals, Inspection reports etc. attached to the model. This System bridges the gap between various departments and allows the proper synchronization between the Departments thereby reducing the time required for execution.

d) Virtual Reality and Augmented reality: Line out inspection of the ships are carried out as a part of preliminary inspection which is a time taking process as there are almost about 500 Compartments in the Ship. MDL in its VR Lab facilitates this Line out inspection by providing immersive 3D environment of the actual compartment in a lucid way to our esteemed clients thereby reducing ample amount of time required.