



STATISTICS OF INDIA'S SHIP BUILDING AND SHIP REPAIRING INDUSTRY

2021-22



**Government of India
Ministry of Ports, Shipping and Waterways
Transport Research Wing
New Delhi**

AND SHIP REPAIRING INDUSTRY

2021-22



सत्यमेव जयते

Government of India
Ministry of Ports, Shipping and Waterways
Transport Research Wing
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P R E F A C E

“Statistics of India’s Ship Building and Ship Repairing Industry 2021-22” is an Annual Publication of the Transport Research Wing (TRW) in the Ministry of Ports, Shipping & Waterways. The present issue gives information on India’s Ship Building and Ship Repairing Industry and various other related facets.

The present Volume consists of five Sections and is designed to provide information on developments in Ship Building, Ship Repairing, Employment and Financial position of India’s Ship Building and Ship Repair industry. It also includes a Section pertaining to Shipbuilding from a global perspective. Features such as ship order book position in terms of export orders and domestic orders respectively and data pertaining to permanent and contractual labour employed in domestic ship building industry have also been included.

Information contained in the Volume is obtained from a large number of sources spread across both public as well as private sector. I hope this publication will serve as the backbone for policy framing for promoting Domestic Ship Building and Ship Repairing Industry. The report will also be useful for research purposes and will provide a snapshot of the industry to all users.

I wish to record my deep appreciation of the outstanding support and cooperation provided by all who have contributed to improving and compiling this issue. This publication is a joint endeavour, with each officer contributing with their knowledge and professional commitment. Suggestions from the users of the information are welcome to help us in further improving the quality and coverage.

Sudhansh Pant
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ACRONYMS

N.A	-	Not available
(P)	-	Provisional
LST (T)	-	Landing Ship Tank (Large)
OSV	-	Offshore Supply vessels
PCV	-	Passenger Cargo vessels
DSV	-	Diving Support vessels
HSD	-	High Speed Diesel (Tanker)
FRP	-	Fiberglass Reinforced Plastic
SDBS	-	Seaward Defence Boats
FPVs	-	Fast Patrol vessels
MPV	-	Multi Purpose Vessels
AHTS	-	Anchor Handling Tug Supply Vessels
PCVs	-	Pollution Control vessels
OPVs	-	Offshore Patrol vessels
I V Barges	-	Inland Vessel Barges
KODS	-	Khidderpore Outer Dock Sill
GRP	-	Glass-reinforced Plastic
CGT	-	Compensated Gross Tonnage
GT	-	Gross Tonnage
DWT	-	Dead Weight Tonnage
APV	-	Advanced Patrol vessels
MPOV	-	Multi-purpose Offshore Vessels
PSV	-	Platform Support Vessel
MPSV/ MSV	-	Multi-purpose Support Vessel
GTRV	-	Geo-technical Research Vessel
GTV	-	Geo Technical Vessel
WSV	-	Well Stimulation Vessel
AE	-	Abhishek Engineers
ACRL	-	A.C. Roy & Comp. Ltd.
AHWBB	-	A.H. Wadia Boat Builders
ASMPL	-	A.S. Moolobhoy Pvt. Ltd.
AAL	-	Alcock Ashdown (Gujarat) Ltd.
BBPL	-	Bristol Boats Pvt. Ltd.
CSL	-	Cochin Shipyard Limited

C&CL	-	Chowgule & Co Ltd
CSPL	-	Chidambaram Shipcare Pvt. Ltd
DSEL	-	Dempo Shipbuilding & Engineering Pvt. Ltd.
ELPL	-	Equiptrans Logistics Pvt. Ltd.
FSL	-	Ferromar Shipping Pvt. Ltd.
GRSE	-	Garden Reach Ship-Builders & Engineers Ltd.
GSL	-	Goa Shipyard Ltd.
GSM	-	M/s Glory Shipmanagement Pvt. Ltd.
HSL	-	Hindustan Shipyard Ltd.
HSSA	-	High Seas Shipping Associates
HDPEL	-	Hooghly Dock & Port Engineers Ltd.
HEW	-	Homa Enigneering Works
ISR	-	Island Ship Repairers
JITF	-	JITF Shipyard Ltd.
KSINC	-	Kerala Shipping and Inland Navigation Corp. Ltd.
L & T	-	Larsen & Turbo Shipbuilding Ltd
MDSL	-	Mazagaon Dock Shipbuilders Ltd
MIPL	-	Modest Infrastructure Pvt. Ltd.
MDD	-	Mandovi Dry Docks
MFPL	-	Marine Frontiers Pvt. Ltd.
MMRPL	-	Marks Marine Radio Pvt. Ltd.
NNSE	-	N N Shipbuilders and Engineers Pvt. Ltd
PSPL	-	Patra Shipping Pvt. Ltd.
RNEL	-	Reliance Naval and Engineering Ltd.
RSRE	-	Roshini Ship Repairs and Engineers
SBSL	-	Sea Blue Shipyard Ltd.
SWL	-	Shalimar Works Ltd.
SSPL	-	Shoft Shipyard Pvt. Ltd.
TDPL	-	Timblo Drydocks Pvt. Ltd.
TSL	-	Tebma Shipyard Ltd
TWL	-	Titagarh Wagons Ltd.
VMS	-	Vijai Marine Shipyard
WCSL	-	West Coast Shipyard Ltd.
WSPL	-	Waterways Shipyard Pvt. Ltd.

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AN OVERVIEW

India has a coastline of 7,517 Kms. with 12 Major ports and 217 notified Non-major Ports facilitating sea-borne trade. Coastal and overseas cargo movement is effected through ocean-going vessels. In addition, small ships/crafts also ply on inland waterways and canals. Indian owned ships/vessels carried 5.62% of India's overseas trade during 2020-21. India's emergence as a major economic power would mean greater integration in terms of trade with the rest of the world requiring huge shipping tonnage. As on 31st March 2022, Indian shipping tonnage was 13.12 million Gross Tonnage (GT) with 1503 ships (Source: D.G. Shipping).

2. With the opening of Indian economy, there has been a steady increase in handling of cargo traffic at Indian Ports. India's share in global exports has increased from 0.8% in 2003 to 1.8% in 2021 (Source: World Trade Statistical Review, 2022). To sustain the momentum of foreign trade and improve competitiveness, the country would need adequate and efficient infrastructure in terms of ports, ships and maritime services.

3. At the time of independence, there were about a dozen shipyards around Kolkata and Mumbai, which rose to around 45 shipyards in the late seventies. Information is received from 33 Ship Building companies/ Ship Repairing companies, out of which 6 Ship Building companies/ Ship Repairing companies are in the public sector and the rest are in the private sector. The demand for ships, semi-submersibles and port auxiliary vessels, new ship building as well as ship-repair activities are projected to grow in view of rising cargo traffic from/to India in coming years.

4. 'Make in India' has been initiated to promote growth of manufacturing sector in the country as it has higher employment multiplier effects compared to service and agriculture sectors. An impetus on shipbuilding and ship repair industry in India is needed for the following reasons:-

(a) The shipbuilding industry has the same impact as infrastructure sectors due to higher multiplier effects on investment and turnover and high employment potential.

(b) The shipbuilding industry is a strategically important industry. To ensure safety of our vast coastline, naval requirement of sophisticated and modern vessels is growing rapidly.

5. The Indian Ship-Building Industry can broadly be categorized into following categories:-

- (i) Large ocean-going vessels catering to overseas as well as coastal trade;
- (ii) Medium size specialized vessels like Port Crafts, Fishing Trawlers, Offshore vessels, Inland and other smaller crafts and;
- (iii) Defence /Naval crafts and Coast Guard Vessels.

6. There are 38 dry-docks for repairing ships in India both in public and private sector as per data reported. Also there are 9 dry docks operated by 5 major ports. The major ports which have no dry-dock facilities are Mormugao Port, JNPT, New Mangalore, Chennai, Kamrajar, V.O. Chidambarnar and Haldia Dock Complex of Kolkata Port.

7. MAJOR SHIPYARDS AND R&D FACILITIES IN THE PUBLIC SECTOR

UNDER THE MINISTRY OF SHIPPING:

- Cochin Shipyard Limited, Kochi
- Hooghly Dock and Port Engineers Limited, Kolkata

UNDER MINISTRY OF DEFENCE:

- Hindustan Shipyard Limited, Visakhapatnam
- Mazagon Dock Limited, Mumbai
- Garden Reach Ship-builders and Engineers Limited, Kolkata*.

(*Rajabagan Dockyard Limited, under Central Inland Water Transport Corporation, Kolkata merged with Garden Reach Shipbuilders and Engineers Ltd. Kolkata w.e.f. 1st July 2006.)

- Goa Shipyard Limited, Goa

UNDER THE CONTROL OF STATE GOVERNMENT:

- Shalimar Works Limited, Kolkata, West Bengal,

7.1 COCHIN SHIPYARD LIMITED (CSL)

7.1.1 Cochin Shipyard is strategically located midway on the international sea route, connecting Europe, West Asia and the Pacific Rim. It has evolved into a builder of large size

vessels in India for the Merchant Navy and the Indian Navy. This shipyard was incorporated in the year 1972 under technical collaboration with M/s. MHI, Japan.

Shipbuilding Industry

7.1.2 The Maritime India Vision 2030 has been formulated with an objective to propel India to the fore-front of the global maritime sector.

7.1.3 Various government policies listed below are showing positive impacts in the segment and will act as enablers for the growth of the segment:

- a) Financial Assistance Policy on Shipbuilding (2016)
- b) Grant of Infrastructure Status (2016)
- c) AatmaNirbhar Bharat Policy (Revised in 2020)
- d) SOP for chartering/procurement of tugs (2020)
- e) Pradhan Mantri Matsya Sampada Yojana (2020)
- f) New Defence Acquisition Policy (DAP 2020)

7.1.4 Maritime India Vision 2030 envisions Indian ship building to become competitive with reaching the threshold on volumes by 2025 and then build the momentum in high volumes to reach “Make in India Make for World” levels and be one of the top 10 shipbuilding nations in the world. Major initiatives include channelizing the cargo to improve demand, improving the ecosystem for ancillary industries, generate standardised designs for better productivity with appropriate Governmental interventions to create level playing fields to make the industry competitive in International arena. The MIV 2030 document also advocates creation of a Maritime Development Fund to provide easy access to working capital and long-term finance needs across marine sectors which will give access to Indian ship owners to improve their capacity and shipyards to improve the infrastructure.

Some Key Sectors focused by CSL

7.1.5 Defence Shipbuilding: The Indian shipbuilding industry still continues to be driven by the defence requirements and the vision of Government of India (GOI) (Defence Production Policy), was “to make India among the top five countries of the world in Aerospace and Defence Industries”. CSL completed its contract negotiation of the Next Generation Missile

Vessel (NGMV) project for Indian Navy for which the contract is likely to be signed this year thus adding good order book value to the Company.

Inland and Coastal Shipping

7.1.6 Inland Water Transport: India has increased the share of cargo transported through waterways from 0.5% to 2% and continued a focus with over 20% year-on-year growth in cargo volumes over the last 5 years. Hooghly Cochin Shipyard Limited (HCSL), the wholly owned subsidiary of the Company in West Bengal is fully equipped with its infrastructure and is ready to cater to this segment. Company is fully focussed and equipped to tap this potential segment.

7.1.7 The future shipbuilding will be driven by alternate fuels, Carbon neutral solutions, autonomous vessels and cost-efficient technologies. New hydrogen policy announced by the government in 2021 has significant impact on the alternate fuel infrastructure. The Company with the research development funding of government is undertaking a pilot project to venture into this segment and build up the domestic technology to meet future requirement of the country as well as cater to the world fleet.

Tugs, Dredgers and Port Craft

7.1.8 The dredger market is showing significant demand in line with the huge infrastructure outlay the government is providing in the port/ inland and coastal shipping infrastructure. This can boost the opportunity for the Indian yards to bring necessary technology through alliance and bring business to India. CSL in technological partnership with the market leader IHC, Netherlands entered into a contract with Dredging Corporation of India (DCI) to build the country's largest trailer hopper dredger of 12000 cub. Mtr. capacity.

7.1.9 In addition, as envisaged, the new policy of the Ministry which stipulates all the service requirement of Tugs for the major ports to be reserved to Indian Built Indian Flag Tugs only has opened up new business opportunity to the Indian shipyards to service this segment. The demand in this segment has picked up and the Company won a new contract for building 2 Tugs under this scheme. More enquiries are received and this segment is showing high potential for further growth.

Cruise and Ferry Market

7.1.10 The Indian cruise industry, though in its nascent stage, is growing at faster pace due to multiple government interventions in the past years. The operations got dampened due to pandemic and travel restrictions in the recent past. However, it has been projected that, the Indian cruise market has the potential to increase by 8X driven by rising demand and disposable incomes with the young middle income groups. The MIV 2030 gives definitive plan towards the infrastructural development of ports to cater this industry. This in turn will result in great opportunity for the Indian shipbuilding as well ship repair and service industry catering to this growing segment. Company is well positioned on this segment offering services from multiple locations in east and west coast of India.

Fishing Segment

7.1.11 The Pradhan Mantri Matsya Sampada Yojana (PMMSY) scheme is aimed to strengthen critical gaps in the fish production, productivity, quality, technology, post-harvest infrastructure and management, modernisation and improvement of the value chain and to establish a robust fisheries management framework in the entire fishing segment. The scheme was announced with long term goals of the government to improve the livelihood of the fishers and also to increase the overall revenue growth in the segment. The earmarked investment of around ₹480 Crores is set aside as a support for acquisition of deep sea fishing vessels for traditional fishermen. CSL is actively engaged in the programme and was a member of the committee which published the guidelines for inspection and quality standards for the boat building yards towards manufacturing of standardised efficient deep sea fishing vessels. CSL is also gearing up to participate in this programme with different standard variants to suit the customer requirements of fishers from various states. As of now the Company is building 10 boats (through its wholly owned subsidiary) under this guideline which is expected to attract the attention of fishermen of various coastal states and thus bring in the momentum to the segment.

Green Shipping/ Low-carbon Shipping segment

7.1.12 The decarbonization of shipping is rapidly moving up the agenda for policymakers and industry alike. The International Maritime Organization (IMO) is announcing various policies to reduce the impact on the maritime industry by regulating exhaust emissions, anti-fouling,

ballast water, and more. According to the European Commission, the shipping industry releases 940 million tonnes of CO₂ and makes 2.5% of the GHG emissions. Green shipping initiatives of government promotes cleaner practices to enforce emission control, efficient port management and equipment management. CSL is presently constructing two nos. of Autonomous Electric Vessels for ASKO Maritime AS, Norway. Further, CSL is ready with the designs of various types of advanced green technology vessels with low emission, which would be ideally suited for the Inland Waterways and coastal shipping in India. CSL is also in advance stages of discussion with various European clients for construction of their new generation green technology vessels in CSL. This is a sunrise segment opening multiple opportunities for the company.

Ship Repair Industry

7.1.13 Ship repair industry being labour intensive, India has got the advantage of having strong work force to cater for the requirement. However, the untapped potential in the Indian ship repair market can be attributed to the presence of competing international ship repair yards on major trade routes and a capability gap of Indian yards in repairing certain kinds of vessels. Other reasons of cost disadvantages include high cost of financing, lack of supply of ship spares in India, ancillary support and technology related issues increasing ship repair execution cycle time.

7.1.14 To address the above gaps, under MIV 2030, Government of India is giving a strong forward thrust to the industry with multiple initiatives including channelising of domestic demands leveraging AatmaNirbhar Bharat Policy, infrastructure development through better access to financial instruments, providing better opportunities for overall development and enhanced business in the Industry by creating free trade depots, maritime clusters etc.

7.1.15 The COVID-19 pandemic had negatively impacted the global economy and thus, disrupted the global trade and allied ship repair and maintenance services industry. Ship repair and maintenance service activities were significantly reduced or suspended for several months. Operations globally, gradually resumed with new safety measures in place. These factors have collectively hampered the growth in global ship repair and maintenance market.

CSL Initiatives in Ship Repair

7.1.18 CSL is in the final phase of completion of work at “International Ship Repair Facility (ISRF)” at Willingdon Island, Cochin which would host a state-of-the-art Ship Lift System with six independent work stations. This new Greenfield facility, in close proximity to the Southern Command in Kochi is scheduled to be up and running shortly and would be capable of accommodating vessels up to 130 Mtrs length & 6000 T displacement. The Yard is also setting up a new dry-dock within its main premises to cater for the shipbuilding and ship repair activity which includes building of larger capacity vessels and repair of offshore rigs. CSL has also expanded its foot prints across the Indian coast by setting up ship repair units at Mumbai, Kolkata and Port Blair to cater to the demand in ship repair segment. CSL has also signed MoUs with various stakeholders in the field of ship repair, with a view to enhance business growth and technological advancement in the field.

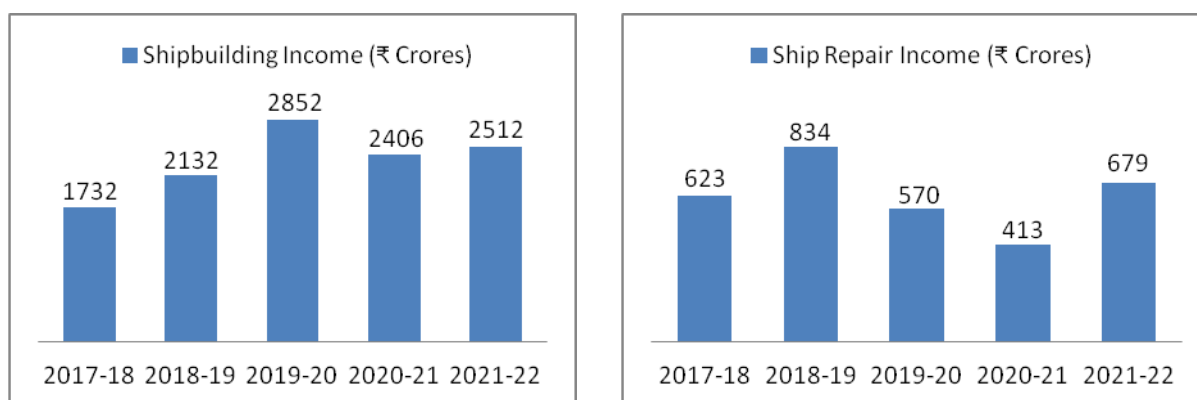
Financial Highlights

7.1.19 The Company achieved a total shipbuilding income of ₹2,511.48 Crores during 2021-22 as against ₹2,405.59 Crores in 2020-21. During the year 2021-22, CSL delivered four nos. of 8000 T Cargo Vessels built for JSW Shipping & Logistics Private Limited which opened up a new vertical in the coastal/ short sea shipping segment for the Company. CSL also delivered one no. of Technology Demonstration Vessel, INS Anvesh, built for Defence Research and Development Organisation (DRDO) which is a unique platform to be used to test various innovative products being developed by DRDO labs. In addition to above, CSL has also designed and delivered the first Hybrid Electric Aluminium Catamaran Hull Vessel for the Kochi Water Metro Project thus creating a revolutionary sustainable urban mobility water transportation solution. Furthermore, CSL has also successfully delivered six nos. of Floating Border Out-Post (FBOPs) Vessels out of nine FBOPs being built for the Ministry of Home Affairs. During the financial year 2021-22, the Company delivered a total of twelve vessels under defence as well as commercial segment.

7.1.20 During the year, the Company achieved a total ship repair income of ₹678.52 Crores as compared to ₹413.30 Crores during the year 2020-21. Major Vessels repaired during the year in the main Yard at Kochi include INS Deepak, INS Tir, INS Nireekshak, INS Sunayna, INS Investigator, GTV Samudra Sarvekshak, INS Sagardhwani, ICGS Sarathi and ORV

Sagar Nidhi. Major vessels repaired during the year in CSL Mumbai Ship Repair Unit (CMSRU) include DSV Samudra Prabha, MDL Y12705, ICGS Samudra Paheredar & MSV Samudra Sevak. Major vessels repaired during the year in CSL Kolkata Ship Repair Unit (CKSRU) include Dredge XV, M V Sentinel etc. Further, the Company commenced the ship repair activities at Marine Dockyard, Port Blair in November 2021 by undertaking emergency repair of MV Sindhu, followed by drydock repair of MV Rajhans.

The income earned by the CSL from shipbuilding and shiprepair during the last 5 years are given below:



Research and Development Activities

7.1.21 R&D policy of CSL is to enhance the Company's pre-eminence in shipbuilding, ship repair and other chosen fields and products through research and development. In-house R&D activities have been undertaken during the year 2021-22 mainly in the areas of welding procedure development and qualification of welders. Weld procedures were developed for welding of Aluminium plates (5083 grade H116) and High strength low alloy steel (DMR 249 Gr A) plates as below.

- (a) Capability building of welding of Aluminium plates with Double pulsed Metal Inert Gas and development of the weld procedures is of paramount importance to the Yard. In the above context weld procedure specifications have been prepared and welders were qualified to weld up to 40 mm thick plates in 4G & 1G weld positions, 3 to 24 mm thick plates in 3G position and 3 to 12 mm plates in 2G position. These new processes save considerable amount of man hour and effort. The procedures have been validated by DNV Classification Society.

7.1.22 Weld procedure were developed and welders were qualified for welding DMR 249 Gr A plates of 4 mm and 5 mm thickness in 4G and 2G positions using Flux Cored Arc Welding (FCAW) process and Submersible Arc Welding (SAW) process. The procedures have been validated by DNV Classification Society and Indian Navy.

During 2021-22, about 72.7% of its income is from Shipbuilding, 19.6% from Ship repairing and 7.7% rest from other sources.

7.2 HOOGHLY DOCK & PORT ENGINEERS LIMITED, KOLKATA (HDPEL)

7.2.1 Hooghly Dock & Port Engineers Limited (HDPEL), Kolkata, is one of the oldest shipyards in India. It was established in 1819 in the private sector known as Hooghly Docking & Engineering Company Limited. On merger of the Port Engineering Works with Hooghly Docking & Engineering Company Limited, the Hooghly Dock & Port Engineers Limited was formed by an Act of Parliament titled “The Hooghly Docking and Engineering Company Limited (Acquisition and Transfer of undertakings) Act, 1984.”

7.2.2 In accordance with the decision of the Union Cabinet dated 16.09.2015, the Competent Authority on 14.09.2017 has approved the Joint Venture proposal between Hooghly Dock and Port Engineers Limited (HDPEL) and Cochin Shipyard Limited (CSL). A new J.V. Company in the name of Hooghly Cochin Shipyard Ltd (HCSL) was incorporated on 23rd October, 2017.

7.2.3 HDPEL is under the process of closure and its 26% share in joint venture has been transferred to the CSL and as a result Hooghly Cochin Shipyard Ltd. (HCSL) has become wholly owned subsidiary of CSL.

7.3 GOA SHIPYARD LIMITED

Goa Shipyard Ltd (GSL) is one of the leading shipyards, building medium- sized sophisticated vessels for Indian Navy and Indian Coast Guard and others. Goa Shipyard Limited is located at Vasco da Gama, Goa on the southern bank of river Zuari. GSL is a CPSE under the administrative control of Ministry of Defence, Department of Defence Production with 98.3% of its shareholding held by the Government of India.

GSL is capable of indigenously designing and building state of the art high technology and sophisticated ships to cater for maritime security requirements of the country and its friendly

neighbours. GSL has its in-house R&D unit equipped with state of the art CAD/CAM facilities using world class AVEVA Marine and FORAN software which is recognized by DSIR, Ministry of Science & Technology, Govt. of India. GSL has designed, built and commissioned a wide range of sophisticated vessels for varied applications in the defence and commercial sectors with special expertise in building modern Patrol Vessels of Steel, Aluminium and now Composite (GRP) hull structure. Having built and delivered 227 ships and 157 GRP boats in the last six decades, GSL is a Miniratna, Category-I, ISO 9001:2015 (QMS), 14001:2015 (EMS) and 45001:2018 (OHSMS) certified company with state of the art infrastructure.

During 2021-22, about 59.4% of its income is from Shipbuilding, 22.0% from Ship repairing and 18.6% rest from other sources.

7.4 GARDEN REACH SHIPBUILDERS & ENGINEERS LIMITED

7.4.1. The odyssey of Garden Reach Shipbuilders & Engineers Ltd. (GRSE), began in 1884 as a small workshop to repair vessels of River Steam Navigation Company. During the Second World War (1939-45) the Company made its mark in carrying out construction, conversion and repair of around 4000 merchant & naval vessels. The Company was taken over by the Government of India in 1960. GRSE, then known as Garden Reach Workshop Ltd., was the first shipyard of independent India to build a Seaward Defence Boat (SDB) INS Ajay and delivered the same to the Indian Navy in 1961. GRSE was conferred the status of a Mini-Ratna Category - I Company in the year 2006.

7.4.2 GRSE is the biggest Defence Shipyard of India for asset holding and the facilities are spread across seven units over an area of 176.15 acres. GRSE is a Defence Public Sector Undertaking (DPSU) with shipbuilding as its core business and also the only DPSU shipyard of the country involved in Engineering and Engine business. It is a profit making and dividend paying DPSU for the last 28 years and listed in BSE & NSE on 10th October, 2018 with 74.5% shareholdings of the Govt. of India.

7.4.3 Over the years, GRSE has established well proven capabilities for in-house ship design & ship building and has made significant contribution to the success of indigenous warship construction program by successfully designing and building complex warships such as Frigates, Anti-Submarine Warfare Corvettes, Missile Corvettes, Fleet Tanker, Landing Ship

Tank (Large), Landing Craft Utility (LCU), Offshore Patrol Vessel, Fast Attack Crafts, Inshore Patrol Vessel, Fast Patrol Vessels, Water Jet Fast Attack Crafts, Survey Vessels, Hovercrafts, FRP Boats, Ocean Going Tugs etc. GRSE has a dedicated facility for construction of smaller warships for Indian Navy and Indian Coast Guard at its Raja Bagan Dockyard unit. This unit was acquired in 2006 from CIWTC and turned around from a sick unit to a profit making one. GRSE inducted latest technology in ship design by establishing the Virtual Reality Lab in 2018 for achieving better ergonomics and in-depth understanding of the details of the Ship at the Design Stage itself. The company also possesses the ‘Integrated Shipbuilding Facility’ for Modular Construction through massive modernization of shipbuilding infrastructure.

7.4.4 The In-House Design & Construction of “CGS Barracuda”- the first ever Export Warship of India, has been feather in the cap of GRSE for which GRSE received the Defence Minister’s Award for Excellence in in-house design development. GRSE also delivered its second export warship, the Fast Patrol Vessel (FPV), “SCG PS Zoroaster” to Govt. of Seychelles on 15 Feb 2021 that marks GRSE’s continual commitment towards national self-reliance/ AatmaNirbhar Bharat Abhiyan.

7.4.5 GRSE has built around 788 platforms which include 107 warships to Indian Navy, Indian Coast Guard, Govt. Republic of Mauritius & Govt. Republic of Seychelles which is the highest number of warships built & delivered by any shipyard in the country. From building of 05 ton boats to 24600 ton Fleet Tanker, GRSE has proved its mettle as a pioneer warship builder of the nation and is the only Indian Shipyard to achieve this Centennial Mark. The shipyard has received ISO 9001:2015, 14001:2015, 45001:2018 and 50001:2018 certification.

7.4.6 During 2021-22, GRSE had orders for construction of 03 Nos. P-17A Advanced Stealth Frigates for Indian Navy, 04 Nos. Survey Vessel Large (SVL) for Indian Navy, 08 Nos. Anti-Submarine Warfare Shallow Water Craft (ASW-SWC) for Indian Navy, 01 No. Fast Patrol Vessel (FPV) for Indian Coast Guard and two export contracts as (a) 01 No. Ocean Going Vessel (OGV) for Republic of Guyana of 12.73 Million USD (Rs. 94.22 Crs. Approx.) recd. on 13 Jan 2021 and (b) 06 Nos. Patrol Boats for Govt. of Bangladesh of value 1.82 Million USD (Rs. 13.66 Crs. Approx.) recd. on 01 Jul 2021. Design, construction and delivery of 06 Patrol Boats is the first export order from Bangladesh through global competitive bidding, with participants of other shipyards, including from Netherland, South Korea,

Finland and UAE. Launching of 01 No. warship, Keel Laying of 05 Nos. warships and Start Production of 04 Nos. warships are some of the important Milestones achieved during FY 2021-22.

7.4.7 Apart from shipbuilding & ship repairs, GRSE has diversified into Engineering Business and is the one of the Defence Shipyard to have done so. Engineering product profile includes pre-fabricated steel bridges of various ranges & types, various deck machinery items such as Anchor Capstans, Boat Davits, Pumps etc. The Engine Division of the company is involved in Assembly/ Testing/ Overhauling of Motor & Turbine Union (MTU) Diesel Engines.

Financial Performances of FY 2021-22.

7.4.8 During FY 2021-22, GRSE's Turnover - Value of Production (VoP) was Rs. 1748.34 Crs., wherein, 90.37% of Turnover is from Shipbuilding & Spares, 2.32% of Turnover from Ship repairing, 4.11% of Turnover from Engineering business, 3.17% of Turnover from its Engine business and Others 0.03%.

The other key financial performances of FY 2021-22 are as follows:-

- (a) Revenue from Operation: Rs. 1758 Crs.
- (b) Total Income: Rs. 1918 Crs.
- (c) Operating Profit for FY 2021-22: is Rs. 104 Crs.
- (d) Profit Before Tax (PBT): Rs. 257.24 Crs.
- (e) Profit After Tax (PAT): Rs. 189.53 Crs.

During 2021-22, about 81.9% of its income is from Shipbuilding, 9.7% from Ship repairing and 8.4% rest from other sources.

7.5 HINDUSTAN SHIPYARD LTD

7.5.1 Hindustan Shipyard Ltd (HSL), strategically located on the east coast of India at Visakhapatnam, Andhra Pradesh, is the nation's premier shipbuilding organisation catering to the needs of shipbuilding, ship repairs, submarine construction and refits as well as design and construction of sophisticated state-of-the-art offshore and onshore structures. Direct sea access, excellent infrastructure, skilled work force, rich expertise garnered over the years in building 200 vessels (including 11 wellhead platforms), repairing 2000 vessels of various

types and refitting 5 submarines enable HSL to offer competent services for the defence, maritime and oil sectors.

7.5.2 The shipyard was set up in the year 1941 as Scindia Shipyard by the Scindia Steam Navigation Company. The shipyard was acquired by GoI and incorporated as Hindustan Shipyard Ltd on 21 Jan 1952. It became a fully owned GoI undertaking in 1961 under the administrative control of Ministry of Shipping. Considering the strategic requirements of the nation, the yard was brought under the administrative control of the Ministry of Defence on 22 Feb 2010. The Registered Office of the company is located in Visakhapatnam and has a regional office at New Delhi.

7.5.3 BUSINESS UNITS

1. The shipyard has three independent business units viz. Shipbuilding, Ship Repairs and Submarine divisions with exclusive facilities and infrastructure.
2. **Shipbuilding**. Sprawling in an area of 142 acres, the shipyard has an ergonomic layout that ensures unidirectional material flow. 2000 T / month of steel can be processed in the yard with a stockyard that can hold 30,000 tonnes of steel, modern plate and section treatment plant, NC Cutting Machines, heavy duty presses, self-elevating trucks capable of handling blocks up to 250 tonnes and large prefabrication shops with EOT cranes of adequate capacity. The Shipbuilding facilities include a fully-covered Building Dock (240 x 53 M) with intermediate gate facility capable of building vessels up to 80,000 DWT and three Slipways is capable of launch ships upto 33000 DWT. The Yard has a long outfitting quay (460 m) of 10 M clear depth equipped with self-contained services and facilities.
3. **Ship Repairs**. Ship Repairs Complex is equipped with necessary facilities and infrastructure for undertaking repairs of all types of ships, marine structure & offshore platforms. The Dry dock, constructed in the year 1971, is an important adjunct to the Ship Repairs Complex for undertaking repairs of all types of ships and oil rigs. With a size of 244 x 38 M, it is capable of handling vessels up to 70,000 DWT. The Dry Dock, the biggest and modern dock in the East Coast is capable of docking multiple ships. Ship Repairs Complex also has 544 meters of waterfront with adequate draft all along and necessary cranae. Ship Repair Complex, has accomplished intricate repair jobs on a variety of Naval Ships, Offshore platforms, Drill Ships, Merchant Ships and Oil Rigs. In Apr 2021, the Ship Repair division has executed repairs of two foreign ships named ‘North Ocean LV 105’ and ‘Go-Sirius’ and earned a revenue in foreign currency for the first time.

4. **Submarine Refits.** The shipyard has exclusive Submarine Refit facilities. HSL happens to be the only Shipyard in India to have carried out the refits of three classes of submarines (refit of two Egyptian submarines, refit of Foxtrot-class (INS Vagli) and EKM class (INS Sindhukirti & INS Sindhuvir) submarines of Indian Navy.

PRODUCT PROFILE

7.5.6 The product profile includes cargo liners, bulk carriers, passenger vessels, offshore platform vessels, inshore platform vessels, survey vessel, mooring Vessel, HSD oiler, landing ship tanks, training Ship, tugs, supply vessels, drill ship, dredgers, oil recovery and pollution control vessel, research vessel, floating cranes, barges etc. for varied number of customers like Indian Navy, Indian Coast Guard, ONGC, GML, Port trusts, DCI, SCI, Andaman & Nicobar administration etc.

DESIGN RESOURCES

7.5.7 HSL has a well-equipped Design & Drawing Office, which in the past has developed in-house design for a number of vessels. HSL's design department has been recognized as in-house R&D unit by Department of Scientific & Industrial Research (DSIR), Ministry of Science & Technology. HSL's design capability embraces wide spectrum of general and special purpose vessels. The design office has been upgraded in the recent past under modernisation program. With this, the design office has mastered the art of producing composite drawings which would enable adoption of integrated modular construction methodology with a high level of pre-outfitting of blocks-modules.

ORDER BOOK POSITION & FUTURE ORDERS

7.5.8 The present Shipbuilding order book comprises of projects viz. construction of 2 Nos Diving Support Vessels (DSV) and 1 No Floating Dock for Indian Navy.

HSL has been nominated by MoD for construction of 5 Nos Fleet Support Ships (FSS) for Indian Navy. The shipyard has finalized M/s Anadolu Shipyard as design collaborator and supply of Key Machinery Equipment.

HSL is expecting Normal Refit (NR) of INS Sindhukirti for a duration of 24 months. The schedule for commencement of the refit is Jul 2022.

FINANCIAL PERFORMANCE

7.5.9 HSL has undergone a major turnaround by achieving operating and net profit for the last five consecutive years (FY 2015-16 to 2019-20) despite many operational challenges. During FY 2021-22, HSL has achieved a VoP of Rs 762.30 (Prov.) and PAT of Rs 78.75 Cr (Prov.) which is the highest since inception.

AWARDS & RECOGNITIONS

7.5.9 The shipyard has received many awards and certificate of appreciations during the past few years.

- (a) Hon'ble Raksha Mantri's Award for Innovation in 2017
- (b) SODET's silver and bronze medals for 'Technology Development & Innovation' in 2018
- (c) VrukshaMitra KSR award for 'Environment' in 2018
- (d) 'Governance Now-6th PSU Award' for 'Resilient Growth'
- (e) 'SKOCH AWARDS' in the category of 'Corporate Excellence – Turnaround' in 2019
- (f) 'Governance Now - 7th PSU Awards' in the category of 'Research & Innovation (Financial)' and 'The PSU Leadership Award' in 2020
- (g) HR Excellence Award in 2021 from World HRD Congress
- (h) Rajbhasha Gaurav Sammaan for Excellence in Implementation of Rajbhasha Policy
- (i) Certificate of Appreciations for 'Learning & Development' from the jury of BML Munjal Awards 2018 and 2019.

During 2021-22, about 80.3% of income is from Shipbuilding, 18.9% from Ship repairing and 0.7% from other sources.

7.6. MAZGAON DOCK SHIPBUILDERS LIMITED

7.6.1 Mazagon Dock Shipbuilders Limited ("MDL"), is a defence public sector undertaking shipyard under the Ministry of Defence ("MoD"). It is one of the India's leading shipyards with a capacity to meet requirements of the Indian Navy. The shipyard builds warships and conventional submarines at its facilities in Mumbai and Nhava. MDL has the capacity to build warships, submarines, merchant ships up to 40,000 DWT.

Ship Building

1. MDL has constructed a variety of ships both for the defence and the commercial sector. The first modern warship to be built by the company was Frigate INS Nilgiri. The Nilgiri was launched in October, 1968 and commissioned in 1972. During the next nine years MDL built and delivered five more Frigates in this class for the Indian Navy. Indian naval ships INS Nilgiri, INS Himgiri, INS Udaygiri, INS Dunagiri, INS Taragiri and INS Vindhyagiri formed the versatile & cutting edge weapon & sensor intensive platforms of the Indian Navy in the seventies and eighties.
2. As the construction of the Leander series was nearing completion, the Indian Navy evolved a design for a new generation Frigate. MDL was responsible for making all production drawings in respect of the new Frigate. Unlike the Leanders, the new Frigate was Indian in concept, design and execution. The ship was larger than the Leander class Frigate with about 25% more displacement, and could embark two large helicopters. This new class was christened as the ‘Godavari Class’, and the first ship of the series, INS Godavari, was launched in May 1980 and commissioned in December 1983. INS Ganga and INS Gomati followed in 1985 and 1988.
3. MDL has also constructed three corvettes for the Indian Navy. The corvettes are smaller warships displacing about 1,500 tonnes. The first of the series, INS Khukri, was commissioned in 1989 and the second, INS Kuthar, in June 1990 and the third INS Kirch in 2001. MDL has also built missile boats for the Indian Navy. Three missile boats INS Vibhuti, INS Vipul and INS Nashak were commissioned into the Navy between 1991 and 1994. A fourth boat, INS Prabal, launched at the shipyard in September 2000 was commissioned in March 2002.
4. MDL has delivered three Shivalik class Stealth Frigates, INS Shivalik, INS Sahyadri and INS Satpura to the MoD for use by the Indian Navy between 2010 and 2012. The P-17 Frigates are multi-role Frigates and first-of-its kind warships built in India incorporating stealth features.
5. MDL has also delivered three each P15 and P-15A Destroyers, namely INS Delhi, INS Mysore, INS Mumbai & INS Kolkata, INS Kochi and INS Chennai to the MoD for use by the Indian Navy between 1997 and 2016. The role of the P15A Kolkata Class Destroyers is to coordinate a task force in exerting sea control in a multi-threat environment. P15 and P-15A Destroyers are capable of striking shore based targets and providing defence against hostile aircraft, submarines and surface ship.

6. MDL has also recently constructed and delivered First ship of P15B class Destroyers – INS Visakhapatnam and is currently building three ships of ‘P-15B Visakhapatnam’ Class Destroyers, four ‘P-17A Nilgiri Class’ advanced stealth Frigates.
7. Besides warships for the Indian Navy, MDL has also constructed a series of offshore patrol vessels for the Indian Coast Guard (“ICG”). Seven Coast Guard ships, which today form the mainstay of the ICG fleet, were built and delivered to the ICG between December 1983 and March 1990. MDL has also undertaken the construction of border outposts for Border Security Force. The border-out-posts are floating police stations, each with four high-speed boats. MDL has built and delivered nine such vessels from 2003-04.
8. MDL has undertaken repairs for their clients in the commercial sector and has constructed a variety of ships ranging from multipurpose support vessel, tugs, dredgers, water tankers, passenger cum cargo vessels, floating cranes, offshore supply vessels, pontoons etc.
9. Till date, MDL has delivered, 26 frontline warships and 6 conventional submarines to the Indian Navy.

Submarine Building

1. MDL has built and delivered SSK Class submarines INS Shalki and INS Shankul to the Indian Navy in the year 1992 & 1994 respectively.
2. MDL is constructing 06 Scorpene class Submarines under Project-75 in collaboration with French Collaborator M/s Naval Group, France. 04 Submarines has been delivered to Indian Navy & balance 02 Nos. are under trials.
3. MDL has also successfully completed refit & modernization of 04 SSK class Submarines and presently Medium Refit & Life Certification (MRLC) of 01 SSK class Submarine under progress.
4. As a part of diversification, submarine division has also penetrated in the business of manufacture of Cargo Containers.

R&D and Misc

1. MDL is registered as an In-house R&D unit by Department of Scientific and industrial research (DSIR).
2. MDL has undertaken focussed R&D initiatives through collaboration with Academic Institutions, Start Ups & MSME not only in the core Defence sector but also other critical

areas like Air & Solar Boats, AUVs, Underwater Autonomous technology, sustainable & environment friendly transport solutions etc

3. On the export front, MDL has exported two hundred forty-three vessels to various foreign clients since 1960. The vessel types exported includes cargo vessels, dredger, barges, tugs, tankers etc. Two multipurpose support vessels for carriage of diesel fuel, fresh water and deck cargo and fitted for Remote Operated Vessel operations and Azimuth thruster operations were the latest export by MDL.

4. MDL is committed to delivering quality ships in time. MDL has evolved from being a small dry dock in 1774 to being one of country's leading defence shipyard capable of meeting the requirements of the Indian Navy towards its warship & submarines building programmes and is the only Indian shipyard in India to build & provide Life Cycle Support for conventional submarines.

5. The current provisional order book position is Approx. Rs 45,800 Crore as on 31 March 2022.

6. In the year 2006, MDL was awarded the Mini Ratna Category – I status by the Department of Public Enterprises.

During 2021-22, about 86.6% of income is from Shipbuilding, 6.4% from Ship repairing and 7.0% from other sources.

7.7. SHALIMAR WORKS LIMITED

7.7.1 The Company at present is primarily engaged in construction and delivery of auxiliary ships to Indian Navy and repairing of vessels for West Bengal Tourism Development Corporation, Surface Transport Corporation and Kolkata Port Trust besides fabricating ship-blocks of warships for Garden Reach Shipbuilders & Engineers. Over the past few years the Company with conventional shipbuilding and launching practices, has been able to deliver on an average only 2 nos. ships per year of capacity max. 55M long x 10M wide at a price of approx. Rs. 11 Cr each.

7.7.2 Existing Facilities

The shipyard encompassing an approx. area of 46,000 M² has a total river frontage of approx. 240 M of which open land water frontage is 85 M for shipbuilding berths. The river being

tidal has a varying high-draft of 5.1 M to 6.8 M and corresponding low-draft of 0.8 M to 1.5 M over the months in reference to the KODS level of KoPT. The KODS level at the edge of the river bank in front of the building berth is varying between -0_2 to $+0_1$.

(a) Shipbuilding bay: Over the years the open land of the shipbuilding bay at the river bank has got eroded by nearly 20M inward and continuously getting eroded day by day, thus reducing the length of the ships that can be built. The existing building berth area is 4270M^2 only and nearly 1420M^2 of river bank has eroded away.

With accumulation of silt not only the launching draft is adversely affected but the launching length has to be increased for avoiding the vessels being grounded. As the shipyard follows the old conventional method of launching on wooden slipways, launching of long or heavy ship becomes an absolutely risky affair.

(b) Floating Fit-out area: There is only one 18.5M long Jetty protruding 45M into the river for floating fit-out work. As a result at times 2 or even 3 vessels are tied up against each other. This creates a serious constrain in moving materials and working by moving across from one vessel to the other. As the vessels are of different size and shape, during tidal bore in the river there is a high risk of side-hulls & railings of vessels getting damaged due to banging against each-other.

(c) Dry Docking / Wet Basin: Presently the shipyard has a small creek of 610M^2 for blocking / beaching small vessels up to 25M length for repairing. Therefore for any major under water work or repair the shipyard lacks the necessary facility of a dry basin with gate. Without the provision of a gate, the open creek in the tidal river is devoid of steady water level to be used as a wet basin.

(d) Fabrication Bays: There are 5 sheds available for panel fabrication, constructing doors, ladders, hatches, etc., ventilation ducting and pipe line construction layout, however nearly 40% of the floor area is utilized for storing of various materials.

(e) Material Handling: There is serious restriction of open passage movement of material and crane across the fabrication bays and building berths. Presently there are following handling facilities available:

EOT cranes in covered sheds – 3T- 1 no., 5T- 4 nos.and 10T- 2 nos. Total being 7 nos.

Open yard mobile cranes – 30T- 1 no, 14T (hydra)- 1 noand 10T- 1 no.Total 3 nos.

Gantry cranes (manual) – 2T- 2 nos., at Jetty and Main gate.

Fork lift – 3T- 1 no. and Lorry – 1 no.

(f) Storage space: Other than General Stores for consumables & Imported Bonded stores for small size items, there are no proper dedicated storage facilities for different category of materials and these are stored haphazardly scattered across the shipyard depending on free space availability.

(g) Production Facilities: The shipyard was primarily set-up for ship-repair and consequently has a large number of machine tools dating to British era for rectification of propulsion system and deck machinery and these machines e.g., lathe, boring, planer, radial drills, etc.,can be utilized but need to be repaired.

Moreover, the plate bending, pipe bending, nibbler, etc. have either pneumatic or line shaft belting as prime-mover. Thus the fabrication system of marking, cutting and bending the plates is totally depended on manual process having a higher level of scrap generation. Similarly in case of pipe line assembly the flanges and bends are welded, in absence of pipe bending and pipe flanging machines, however in case of plate welding TIG / MIG machines are used.

(h) Engineering Utilities: The shipyard has its power supply from CESC from 6.6KVA line and has a max. specified demand of 200KVA. The supply is stepped down to 440V. The power house has a 400KVA Transformer, circuit breaker and capacitor bank for pF which are required to be revamped to reduce power loss. There are 2 nos. 125KVA Gensets as power back-up and those require total reconditioning. The electrical Main panel and DBs with underground power cables also require a serious relook based on change of product-mixand construction area relocation.

The plant has an old electric driven compressor of 300 cfm for running pneumatic driven machines. It also has one portable diesel driven compressor for blasting & painting that is inadequate.

Though there are 3 nos. tower lights, but in general illumination level within the sheds and shipbuilding bay is poor.

There is a 10,000 Lt capacity overhead fresh-water storage tank.

7.7.7 Capability enhancement through upgradation

With the upgraded shipyard becoming operational, the overall capability enhancement at a glance would be as under:

- a) Yearly Turnover: From the existing volume of 2 ships per year the quantum will go up to 3 ships in a year for large and proto-type, while the volume can be even 4 ships in a year for smaller and repeat variety.
- b) Max. Ship size: At present the maximum length of ship that can be built is only 55M. With the shipbuilding bay being re-laid out, ship length of 90M can be constructed.
- c) Launching System: The upgraded launching system of carriage trolley on rails as against the existing system of launching on wooden slides, larger & heavier vessels can be launched positively without the risk of uncontrolled movement.
- d) Float Basin: In the existing *kanchhacreek* at the most 25M long small vessel can be blocked / beached. With the new weight cum dry basin 55M long vessel can be blocked for underwater repair and painting. Moreover the same basin in wet condition can also serve the purpose of a still-water floating jetty for carrying out final stern alignment and inclining experiment, etc.
- e) Job-quality: With introduction of CNC Plate Cutting and Plate Bending, Pipe Bending and Pipe Flaring Machines, the steel fabrication quality as well as pipe line system will certainly improve. Introduction of such machinery shall also reduce scrap generation.
- f) Productivity: With introduction of Cranes and other materials handling facility, new productive machines, systematic storing of materials shall reduce the time delay during production; thus improving overall productivity of the shipyard.
- g) FRP Boats: FRP Boats up to 25M long can be constructed in temperature and humidity controlled atmosphere, and such facility will add to production of new variety of vessels.

During 2021-22, about 32.42% of income is from Shipbuilding, 44.04% from Ship repairing and 23.54% from other sources.

MEASURES TO PROMOTE DOMESTIC SHIPBUILDING & REPAIR

A number of measures have been initiated by Ministry of Ports, Shipping and Waterways to improve the viability of the ship manufacture and ship repair industry and encourage private sector participation, with emphasis on research & development.

8. SUBSIDY AND BUDGETARY SUPPORT TO INDIAN SHIPBUILDING INDUSTRY

8.1 Government of India is supporting Indian shipbuilding industry since 1971 by various policy measures such as pricing policy and shipbuilding subsidy policy. However, these policies were only applicable to Central Public Sector Shipyards building commercial vessels viz. Hindustan Shipyard Ltd., Vishakapatnam in 1971. Later on in 1972 Cochin Shipyard was established and the policies were applicable to them also. The policies were modified from time to time in 1981, 1993, 1995, 1997 and 2000. In October 2002, Government of India extended the shipbuilding subsidy scheme to all Indian shipyards including Non Central Public Sector Shipyards and Private Shipyards. To make existing shipbuilding scheme applicable to all shipyards, following modifications were made:

- For domestic orders obtained only through global tender process for construction of sea going vessel as defined under section 3(41) of Merchant Shipping Act 1958, 30% on the bid price at which the global tender was won was payable to the yard. However, the vessel was to be a merchant vessel of minimum length of 80 metres.
- For export orders obtained through global tender process or otherwise for construction of any type/size of vessel, 30% subsidy on the bid price or reasonable price in cases of negotiated orders, as the case may be, was payable to the yard. Price reasonableness certificate was issued by DG (shipping) for negotiated orders.

8.2 The shipbuilding subsidy scheme was applicable for those shipbuilding orders whose contracts were signed upto 14.08.2007. In Feb. 2009, the CCEA approved liquidation of committed liabilities amounting to Rs. 5152 crore for 228 vessels and for which contracts were signed up to 14.08.2007.

8.3 Modified guidelines were issued on 29.09.2009. Till 31.03.2014, subsidy was released for 121 vessels amounting to Rs. 1142 crore. Partial subsidy (10%/20%) was released for 47 vessels. Full subsidy was released for 74 vessels.

8.4 New Financial Assistance Policy

8.4.1 To encourage domestic shipbuilding and to provide a level playing field vis a vis foreign shipyards, the Union Cabinet approved the Shipbuilding Financial Assistance Policy for Indian Shipyards on December 09, 2015. The Government of India has approved a Rs. 4000 cr Financial Assistance Policy (FAP) to shipyards for 10 years for shipbuilding contracts secured between 01.04.2016 and 31.03.2026 (including these dates). Financial assistance will be granted to Indian Shipyards equal to 20% of the lower of “Contract Price” or the “Fair Price” or actual payments received of each vessel built by them for a period of at least 10 years commencing 2016-17. This rate of 20% will be reduced by 3% every three years. The quantum of financial assistance for a vessel shall be the product of the applicable rate of financial assistance prevailing on the date of Contract, and, the lowest of the contract price or the fair price when converted in Indian Rupees: Provided that, at the time of release of financial assistance, if the actual payment received for a vessel is lower than the contract price, such payment shall replace the contract price in the formulae for computation of the financial assistance. Further, the guidelines have been modified and consolidated in December, 2021.

8.4.2 Ministry of Ports, Shipping and Waterways has released an amount of financial assistance on shipbuilding of Rs. 26.97 Cr in FY 2019-20, Rs. 58 Cr in 2020-21 and Rs. 65Cr in 2021-22.

8.4.3 The Cabinet Committee on Economic Affairs(CCEA) in its meeting held on 09.10.2019 has approved this Ministry’s proposal regarding settlement of subsidy claims for executed shipbuilding contracts under the shipbuilding subsidy scheme, 2002-2007 wherein CCEA has approved extension of timeline and budgetary support beyond 31.03.2014 for release of committed liability of shipbuilding subsidy through budgetary support of approx. Rs.153 crores for a total number of 51 vessels, including retained subsidy for 47 vessels and full subsidy for 4 vessels.

Section-1

INDIA'S SHIP-BUILDING INDUSTRY

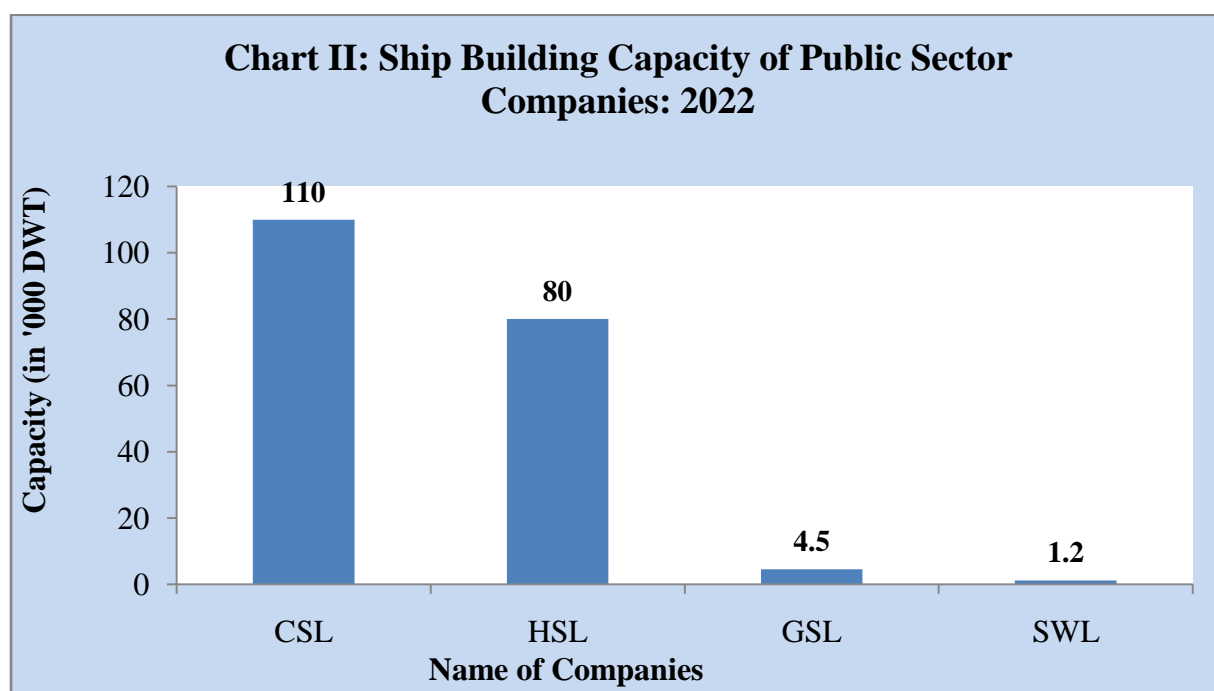
INDIA'S SHIPBUILDING INDUSTRY

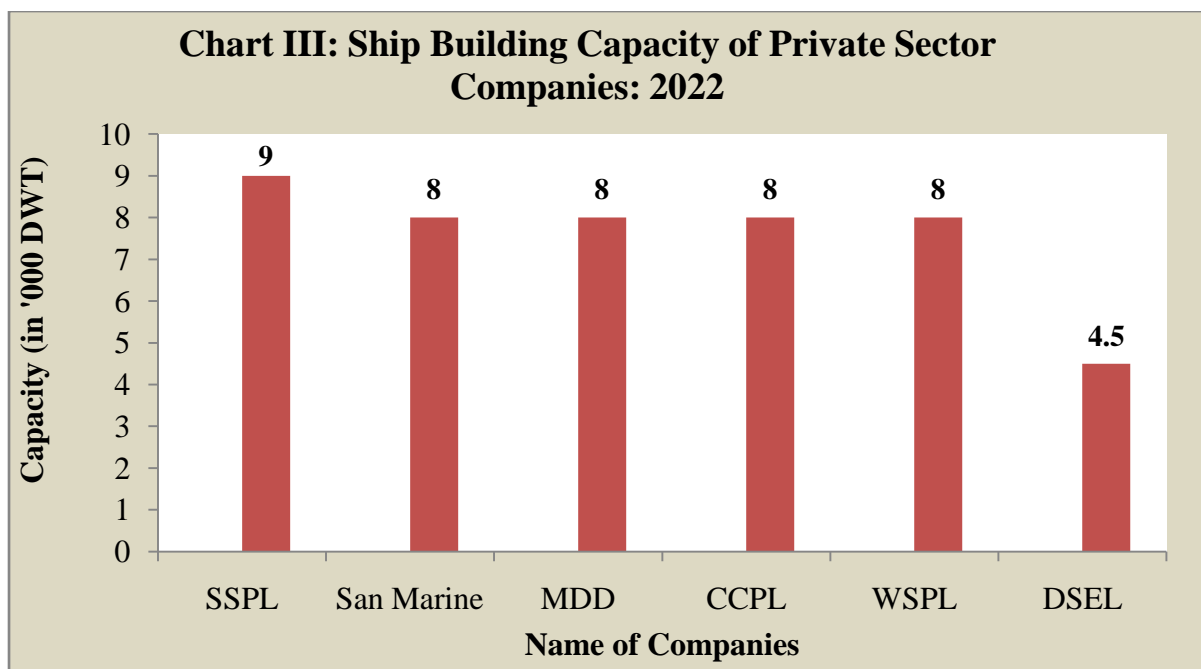
SHIPBUILDING CAPACITY:

1.1 Ship building capacity of a unit is defined in terms of the maximum carrying capacity of the ship that can be built by a shipyard measured in terms of Dead Weight Tonnage (DWT) which is the number of tonnes (one tonne = 2240 pounds) of stores, fuel and cargo that a ship can carry.

1.2 Amongst public sector companies, Cochin Shipyard Ltd. (CSL) possess the maximum ship building capacity (110 thousand DWT) followed by Hindustan Shipyard Ltd. (HSL) (80 thousand DWT), Goa Shipyard Ltd. (GSL) (4.5 thousand DWT) and Shalimar Works Ltd. (SWL) (1.2 thousand DWT). Amongst the reporting private sector companies, Shoft Shipyard Pvt. Ltd. possess the maximum ship building capacity (9 thousand DWT) followed by San Marine, Mandovi Drydocks Ltd. (MDD), Chowgule & Co. Ltd. (C&CL) and Waterways Shipyard Pvt. Ltd. (WSPL) (8 thousand DWT) each and Dempo Shipbuilding and Engineering Pvt. Ltd. (DSEL) (4.5 thousand DWT) (Table 1.3 (page 10-11)).

Charts II and III (below) presents, the ship building capacity (in terms of their DWT) of some of these shipbuilding companies in public & private sector respectively as on 31st March 2022. Table 1.2 (page 9) provides the information on company wise shipbuilding capacity from the year 2018-19 to 2021-22 (both in public & private sector).





SHIPS ON ORDER

1.3 Indian ship-building companies at the end of 2021-22 had orders of 338 ships with gross DWT 209.02 thousand tonnes. As on 31st March, 2022 the public sector shipyards had orders of 130 ships of 103.76 thousand DWT. Out of these, 17 ships with total capacity of 57.50 thousand DWT were export orders and remaining 113 ships with total capacity of 46.26 thousand DWT were domestic orders. Amongst reporting companies, in terms of numbers, Cochin Shipyard Ltd. (49) had the highest number of ships on order followed by Goa Shipyard Ltd (34 each), Garden Reach Ship-Building & Engineers Ltd. (23), Mazagaon Dock Shipbuilders Ltd. (9), Shalimar Works Ltd.(9) and Hindustan Shipyard Ltd. (6). Order book in terms of DWT was highest for Cochin Shipyard Ltd with 86.83 thousand DWT, followed by Garden Reach Ship-Building & Engineers Ltd. with 8.91 thousand DWT and Goa Shipyard Ltd. with 5.31 thousand DWT (Table 1.3 (page 10-11) & 1.4 (page 13)).

1.4 In public sector category, (1) Alcock Ashdown (Gujarat) informed that Company is closed. In private sector category (2) Reliance Naval and Engineering Ltd. is under corporate insolvency resolution process w.e.f 15th January, 2020 at NCLT Ahmedabad bench. (3) A.S. Moloobhoy Pvt. Ltd. informs that they are not shipbuilders/ agents. In view of this, information for above mentioned companies has been removed from the Publication for the

year 2019-20. Also Sembmarine Kakinada Ltd. has not furnished any information since 2016-17, hence deleted from the list.

1.5 In private sector category as on 31st March, 2022, the shipyards had orders for 208 ships of total 105.27 thousand DWT. Out of these, 8 ships with total capacity of 44.92 thousand DWT were export orders and remaining 200 ships with total capacity of 60.35 thousand DWT were domestic orders. Amongst the reporting ship building companies in the private sector, A.H Wadia Boat Builders (53) had the highest number of ships on order followed by AC Roy & Co. Ltd. (36) with a total capacity of 1.25 thousand DWT, Shoft Shipyard Ltd. (24) with a total capacity of 6.84 thousand DWT and Sea Blue Shipyard Ltd. (16) number of ships on order with a total capacity of 46.53 thousand DWT in 2021-22.

Amongst reporting companies, in terms of tonnage order book, the public sector and private sector accounted for a share of 49.6% (103.76 thousand DWT) and 50.4% (105.27 thousand DWT) respectively in the total tonnage (209.02 thousand DWT) of order book during 2021-22. Table 1.3 (a) (page 12) contains Total Ship Order Book of Vessels by Domestic Order and by Export Order as on 31st March 2022.

COMPOSITION OF ORDER BOOK POSITION:

1.6 In the current order book, out of total 338 ships, 130 are with public sector yards and 208 are with private sector yards amounting to 103.76 thousand DWT and 105.27 thousand DWT respectively. **Table 3** below gives the Order Book with Indian Shipyards as on 31st March, 2022. The details are given in Table 1.3. (page 10-11) Table 1.4 (page 13) provides the information on company wise number of ships on order from the year 2018-19 to 2021-22 in public and private sector.

Table- 3: Current Order Book By Types of Vessels as on 31st March, 2022						
(‘000 DWT)						
Vessel		Tankers	Dry Cargo	Bulk Cargo	Passengers	Others
Type Yards						Total
Public Sector	No.	3	0	8	27	92
	DWT	0.86	0	56.00	9.82	37.08
Private Sector	No.	0	9	4	16	179
	DWT	0	70.98	4.15	4.16	25.99
Total	No.	3	9	12	43	271
	DWT	0.86	70.98	60.15	13.98	63.07
						209.02

SHIPS DELIVERED

1.7 During the year 2021-22, among public sector companies, Cochin Shipyard Ltd. delivered highest tonnage with 36.47 thousand DWT consisting of 12 ships followed by Goa Shipyard Ltd. 0.94 thousand DWT (3 Ship), Hindustan Shipyard Ltd at 0.51 thousand DWT (4 ships) and Shalimar Works Ltd. at 0.01 thousand DWT (1 ships). Amongst reporting companies in the private sector, the highest tonnage was delivered by San Marine 10.29 thousand DWT (7 ships) followed by Chowgule & Co. Ltd. 8.44 thousand DWT (3 ships) and Mandovi Drydocks 4.6 thousand DWT (5 ships).

Amongst reporting companies, in terms of tonnage delivered, the private sector and public sector accounted for a share of 65.4% (71.75 thousand DWT) and 34.6% (37.92 thousand DWT) respectively in the total tonnage (109.67 thousand DWT) delivered during 2021-22. Company wise number of ships delivered along with the size from financial year 2018-19 to 2021-22 in both public and private sector are given in the Table 1.5 (page 14-16).

1.8 Company wise number of ships on order and delivered from 2018-19 to 2021-22 is given in Table 1.6 (page 17) and number of ships by keel laid, launched and ships under construction from financial year 2018-19 to 2021-22 are given in Table no 1.7 (page 18-19).

1.9 **Table 4** depicts the size and number of ships delivered by both public and private ship yards in India during 2020-21 and 2021-22.

Table No. 4 : Size and Number of Ships Delivered				
Name of Companies	Ships Delivered			
	2020-21		2021-22	
	No.	DWT('000)	No.	DWT('000)
(1)	(2)	(3)	(4)	(5)
A. PUBLIC SECTOR (Total)	22	7.49	22	37.92
1. Alcock Ashdown & Co. Ltd.@				
2. Cochin Shipyard Ltd.	13	2.29	12	36.47
3. Garden Reach Ship- Builders & Engineers	3	0.33	0	0
4. Goa Shipyard Ltd.	2	0.92	3	0.94
5. Hindustan Shipyard Ltd.	1	3.35	4	0.51
6. Hooghly Dock & Port Engineers Ltd.**	0	0		
7. Mazagaon Dock Shipbuilders Ltd.	1	N.A	2	N.A
8. Shalimar Works Ltd.	2	0.60	1	0.01

	Ships Delivered			
	2020-21		2021-22	
	No.	DWT('000)	No.	DWT('000)
B. PRIVATE SECTOR (Total)	47	22.79	91	71.75
9. Abhishek Engineers**	N.A	N.A		
10. A.C. Roy & Comp. Ltd.	1	0.10	0	0
11. A.H. Wadia Boat Builders	2	0.005	18	0
12. A.S. Moloobhoy Pvt. Ltd. @				
13. Bristol Boats Pvt. Ltd.	8	0.001	11	0.001
14. Chidambaram Shipcare Pvt. Ltd	N.A	N.A	N.A	N.A
15. Chowgule & Co. Ltd.	4	8.44	3	8.44
16. Dempo Shipbuilding & Engineering Ltd.	1	0.74	0	0
17. Equiptrans Logistics Pvt. Ltd.**	N.A	N.A		
18. Ferromar Shipping Pvt. Ltd.	N.A	N.A	N.A	N.A
19. M/s Glory Shipmanagement Pvt. Ltd.	N.A	N.A	N.A	N.A
20. High Seas Shipping Associates	N.A	N.A	N.A	N.A
21. Homa Engineering Works	Carry out only ship repairing in Mumbai Harbour and at Mumbai Port Trust			
22. Island Ship Repairers			N.A	N.A
23. JITF Shipyard Ltd.	N.A	N.A	N.A	N.A
24. KSINC	N.A	N.A	N.A	N.A
25. Larsen & Toubro Ltd.			10	-
26. Mandovi Dry Docks	7	5.6	5	4.6
27. Marine Care & Associates	N.A	N.A	N.A	N.A
28. Marine Frontiers Pvt. Ltd.	0	0	0	0
29. Modest Infrastructure Pvt. Ltd.	1	1.66	6	0.14
30. N.N. Shipbuilders & Engineers Ltd.	N.A	N.A	N.A	N.A
31. Patra Shipping Pvt. Ltd.			1	0.02
32. Reliance Naval & Engineering Ltd. @				
33. Roshini Ship Repairs and Engineers			N.A	N.A
34. San Marine	5	1.4	7	10.29
35. Sea Blue Shipyard Ltd.	6	1.30	16	45.2
36. Sembmarine Kakinada Ltd. @				
37. Shoft Shipyard Pvt. Ltd.	3	0.08	8	0.20
38. Udupi Cochin Shipyard Ltd./ Tebma Shipyard Ltd. \$			2	0.02
39. Timblo Drydocks Pvt. Ltd.**	N.A	N.A		
40. Titagarh Wagons Ltd.	1	0.19	0	0
41. Vijai Marine Shipyards**	7	0.9		
42. West Coast Shipyard Ltd.**	N.A	N.A		
43. Waterways Shipyard Pvt. Ltd.	1	2.5	4	2.9
Grand Total (A + B)	69	30.28	113	109.67

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

Note: New companies (At S.No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

** No information is received for 2021-22.

\$ Udupi Cochin Shipyard Ltd. earlier known as Tebma Shipyard Ltd

Table No. 1.1

Ship Building Capacity of the Company By Types & Size
(As on 31st March, 2022)

S. No.	Name of the company	Type of vessel/ship	Max. Size/Capacity			
			Length (Mts.)	Width (Mts.)	Draft (Mts.)	DWT (in thousand)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A.	<u>PUBLIC SECTOR</u>					
1	Alcock Ashdown (Gujarat) Ltd.(AAL) @					
2	Cochin Shipyard Ltd.(CSL)	All types of ships including bulk carriers, oil tankers, passenger vessels, tugs, dredgers etc.	250.00	38.00	5.50	110.00
3	Garden Reach Shipbuilders & Engineers Ltd. (GRSE)	<p>01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Dry Dock – 1 (Old) of Main Unit (Dry Dock's Length:- 160 mts., Width:- 25 mts. & Draft:- 8 mts.above KODS*)</p> <p>01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Dry Dock – 2 (New) of Main Unit (Dry Dock's Length:- 180 mts., Width:- 29 mts. & Draft:-12mts.which is 02 mts. below KODS* and 10 mts.above KODS*)</p> <p>03 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Dry Dock – 2 of RBD Unit (Dry Dock's Length:- 158mts., Width:- 18 mts. & Draft:- 8 mts. above KODS*)</p> <p>01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Building Berth (BB)/ Inclined Berth (IB) – 1 (Old) of Main Unit (BB/ IB – 1 (Old) Length:- 162mts., Width:- 25 mts. and Sill Height:- 0.9 mts. above KODS*)</p> <p>01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Building Berth (BB)/ Inclined Berth (IB) – 2 (New) of Main Unit (BB/ IB – 2 (New) Length:- 180 mts., Width:- 23 mts. and Sill Height 0.0 mts. above KODS*)</p> <p>02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Dry Dock – 1 of RBD Unit (Functional Length:179 mts., Breadth:12.34 mts. at Bottom and 27.20mts., at Top, Depth: 6.46 mts., Dock bed: 2.38 mts. above KODS*)</p> <p>01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Finger Jetty – 1 of FOJ Unit (Finger Jetty's Length:- 184.5 mts., Width:- 11.5 mts. & Draft:- 7.0mts.minimum above KODS*)</p> <p>01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Finger Jetty – 2 of FOJ Unit (Finger Jetty's Length:- 184.5 mts., Width:- 11.5 mts. & Draft:- 7.0 mts. minimum above KODS*)</p> <p>02 No. each of Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Naval Jetty of FOJ Unit (Naval Jetty's Length:- 229 mts., Width:- 10 mts. & Draft:- 8.0 mts. minimum above KODS*)</p> <p>01 Nos. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Wet Basin of Main Unit (Wet Basin's Length:- 109mts., Width:- 23mts.Draft:- 8.0 mts., with Sill Height:- 1.83 mts. above KODS*)</p> <p>01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Western Jetty of Main Unit (Western Jetty's Length:- 100 mts. with Pontoon of Length:- 25 mts., Width:- 9 mts., and Height:- 4.5 mts.,)</p> <p>01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Canteen Jetty of Main Unit (Canteen Jetty's Length:- 100 mts., with Pontoon of Length:- 13.5 mts., Width:- 4.5 mts., and Height:- 1.0 mts.,)</p> <p>01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Hooghly Jetty of RBD Unit (Hooghly Jetty's Length:- 88 mts., with Pontoon of Length:- 25 mts., Width:- 9.0 mts., and Height:- 1.9 mts.,)</p> <p>01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Ganga Jetty of RBD Unit (Ganga Jetty's Length:- 75 mts., with Pontoon of Length:- 25 mts., Width:- 9.0 mts., and Height:- 1.9 mts.,)</p>	< 160	24.00	4.00	
			< 180	< 29	4.00	
			≤ 50	≤ 8	4.00	
			< 160	24.00	4.00	
			< 180	< 23	4.00	
			≤ 50	≤ 8	4.00	
			180.00	24.00	4.00	
			180.00	24.00	4.00	
			180.00	24.00	4.00	
			80.00	11.00	4.00	
			80.00	11.00	4.00	
			80.00	11.00	4.00	
			80.00	11.00	4.00	
			135.00	25.00	5.50	4.50
4	Goa Shipyard Ltd.(GSL)	Advanced Offshore Petrol Vessels (APOV), Fast Patrol Vessels (FPV), Fast Attack Crafts (XFAC), Survey Vessels (HSV), Sail Training Ships (STS), Missile Crafts, Frigates, Landing Crafts, Tugs, Dredgers, Launchers, Passenger Ferries, Fishing Vessels, GRP boats and other medium sized sophisticated vessels	135.00	25.00	5.50	4.50
5	Hindustan Shipyard Ltd.(HSL)	All types of ocean going vessels	195.00	38.00	17.00	80.00
6	Hooghly Dock & Port Engineers Ltd. (HDPE)**	NIL				

Table No. 1.1 Cont...

Ship Building Capacity of the Company By Types & Size
(As on 31st March, 2022)

S. No.	Name of the company	Type of vessel/ship	Max. Size/Capacity			
			Length	Width	Draft	DWT
			(Mts.)	(Mts.)	(Mts.)	(in thousand)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
7	Mazagaon Dock Shipbuilders Ltd.(MDSL)	Warships	200.0	18.0	5.5	-
		Merchant Ships	200.0	18.0	5.5	-
		Submarines	70.0	6.5	5.5	-
8	Shalimar Works Ltd.(SWL)	Barge/Ferry Craft	65.00	12.00	3.50	1.20
B.	<u>PRIVATE SECTOR</u>					
9	Abhishek Engineers** (AE)	Ore Carriers, IV Vessels	75.00	15.00	4.50	2.50
		Sea Going (Coastal)	80.00	16.00	5.00	2.70
		Tugs, Dredgers, Hooper, Barges	52.00	9.00	3.00	0.70
10	A.C.Roy & Co. Ltd.(ACRL)	Launch	26.00	7.00	2.50	0.04
		Tug	20.00	6.00	2.50	0.03
		Barge	65.00	12.00	3.00	1.50
11	A.H. Wadia Boat Builders (AHWBB)	Steel Mooring Boat	9.70	3.30	1.50	0.001
		Steel Pilot Launch	19.00	5.30	3.00	0.01
		FRP Staff Boat	14.00	4.50	2.00	0.003
12	A.S. Moloobhoy Pvt. Ltd.@					
13	Bristol Boats Pvt. Ltd.(BBPL)	FRP Petrol Crafts	20.00	5.00	4.00	0.05
		FRP Shipping Vessels	27.00	3.60	1.80	0.001
		Others	12.00	4.00	3.50	0.015
14	Chidambaram Shipcare Pvt. Ltd. (CSPL)	N.A				
15	Chowgule & Co. Pvt. Ltd. (C&CL)	Dry Cargo Vessels, Tanker, Container Vessels.	120.00	20.00	4 to 6	8.00
		Defence Vessels	120.00	20.00	4 to 6	
		Passenger Vessels	120.00	20.00	4 to 6	
		Tugs, Fishing Trawlers, Launches	120.00	20.00	4 to 6	
16	Dempo Shipbuilding & Engineering Pvt Ltd.(DSEL)	Barges - Sea Going, RSV, Containers, Tankers, MPV, Crane Barges, Passenger Ferries, Split Barges, Ro-Ro Vessels, Spud Pontoons, Jackup Barges	100.00	20.00	1.80	4.50
		Tugs - Sea Going, IV, RSV, Dredgers, AHTS	100.00	20.00	1.80	-
		Supply Vessels - Offshore, Pilot Launches, Mooring Launches, Harbour Crafts.	100.00	20.00	1.80	-
17	Equiptrans Logistics Pvt. Ltd.(ELPL)**	Bulk Carrier	120.00	20.00	4.50	8.00
		Tug	55.00	14.00	4.50	0.75
18	Ferromar Shipping Pvt. Ltd. (FSL)	Inland Vessel	70.00	13.00	1.20	2.00
		Coastal Vessel	100.00	13.00	1.30	2.50
19	M/s Glory Shipmanagement Pvt. Ltd.(GSM)	N.A				
20	High Seas Shipping Associates (HSSA)	N.A				
21	Homa Engineering Works (HEW)	N.A				
22	M/s Island Ship Repairers (ISR)	N.A				
23	JITF Shipyard Ltd (JITF)	N.A				
24	KSINC	Cargo	38	9.5	1.8	0.3
		Tanker	38	9.5	1.8	0.3
		RoRo	38	9.5	1.8	0.048
25	L&T Shipbuilding Ltd.(L&T)	Any type of Commercial/ Defence Vessels upto a length of 200 Mtr & any Beam 46 Mtr				
26	Mandovi Dry Docks (MDD)	Bulk Carrier	120.00	20.00	3.50	8.00
		Crane Barge	60.00	26.00	3.50	1.00
		50 Ton Bollard Pull TUG	33.00	10.00	3.50	0.24
27	Marine Care 'N' Associates (MCA)	N.A				

Table No. 1.1 Cont...

Ship Building Capacity of the Company By Types & Size
(As on 31st March, 2022)

S. No.	Name of the company	Type of vessel/ship	Max. Size/Capacity			
			Length	Width	Draft	DWT
			(Mts.)	(Mts.)	(Mts.)	(in thousand)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
28	Marine Frontiers Pvt. Ltd. (MFPL)	25.0 m Steel Landing Craft	25.00	7.00	2.10	0.12
		36.0 m Utility Vessel	36.00	7.60	2.40	0.12
		22.0 m Passenger Ferry	22.00	6.00	1.60	0.02
		20.0 m Barge	17.00	5.00	0.62	0.05
		17.0 m Landing Craft	17.00	5.40	0.60	0.03
		17.0 m Mini Tug	17.00	5.90	0.75	0.02
		12.0 m Fast Patrol Vessel	12.00	3.80	0.50	0.003
		9.5 m Fast Patrol Vessel	9.50	3.30	0.44	0.002
		8.5 m RIB	8.50	3.30	0.60	0.001
		7.0 m RIB	7.00	2.36	0.45	0.001
		Punt Boat	5.00	1.52	0.25	0.001
		Pontoon Boat	5.85	2.20	0.85	0.001
29	Modest Infrastructure Pvt. Ltd. (MIPL)	Fuel Barge/Oil Tanker	58.00	11.00	3.00	0.50
		Multi Purpose Vessel	72.00	13.00	2.50	0.80
		Product Tanker	60.00	12.00	3.20	1.00
		Cement Carrier	78.00	13.50	3.00	2.20
		Ferry Craft	72.00	12.80	2.80	200 men
		Tug	33.00	11.50	4.10	Bollard Pull- 65 T
		Offshore Survey Vessel	59.20	15.00	2.50	Nil
		Axiliary Craft	80.00	13.00	2.80	Nil
		Dredger	27.00	12.00	2.50	1250 m ³ /hr
		Offshore Dumb Barge	72.00	20.00	3.50	3.50
		Non Propelled Stowage Barge	40.00	18.00	2.50	<1000T
		Slave Docking Pontoon	78.00	15.00	2.15	1.66
		Caisson Gate	30.40	9.15	7.60	0.45
		Berthing and Anchorage Pontoons and Gangways for IAC-1	40.00	9.00	1.30	0.96
30	N N Shipbuilders and Engineers Pvt. Ltd.(NNSE)	Small Crafts	50.00	12.00	5.00	0.10
31	Patra Shipping Pvt. Ltd (PSPL)	Passenger Vessels	85.00	12.00	18.00	
		Pilot Vessels	25.50	6.00	12.00	
		Tug	40.00	10.00	4.50	
32	Reliance Naval and Engineering Ltd. (RNEL) @					
33	Roshini Ship Repairs and Engineers (RSRE)	NA				
34	San Marine	Dumb Barges	91.50	27.50	5.50	7.80
		Tugs/ Survey Boats/ Utility Vessels	25.00	8.00	2.30	0.15
		Bulk Carriers	85.00	20.00	6.50	8.00
35	Sea Blue Shipyard Ltd. (SBSL)	Crane Barge	45.70	15.00	1.50	0.34
		Dredger	38.00	7.20	1.00	0.14
		Ammonia Barge	51.44	9.66	1.40	0.31
		Tug	35.00	10.00	2.80	0.17
		Passenger Vessel	50.44	7.50	2.10	0.15
		Dry Cargo Vessel	46.00	8.50	3.30	0.25
		Patrol Vessel	48.00	7.50	2.00	0.18
36	Sembmarine Kakinada Ltd @					
37	Shoft Shipyard Pvt. Ltd.(SSPL)	All types Cargo Vessels & Barges	135.00	34.00	4.00	9.00
		Tugs, Multi Utility Crafts & Work Boats	45.00	12.00	4.50	N.A
		OSVs & Accomodation Barges	120.00	34.00	4.00	1.95
		Dredgers of all types	120.00	34.00	4.00	1.95
		Passenger Vessels and Ferries	120.00	24.00	4.00	1.95
		Other Special purpose vessels	120.00	34.00	4.00	1.95
		Warships with moderate weapon outfit, Other Naval Auxiliary Vessels such as OPVs, FPs, TLRVs, Survey Vessels etc.	150.00	20.00	4.00	1.2
38	Udupi Cochin Shipyard Ltd/ Tebma Shipyards Ltd. (TSL)\$	Bulk Carriers, Barges and Offshore Vessels	80.00	20.00	6.00	3.00
		Tugs	40.00	15.00	4.20	0.26
		Ferries	80.00	20.00	4.00	3.00
		Fishing Vessels	70.00	15.00	4.00	3.50
39	Timblo Drydocks Pvt. Ltd.(TDPL)**	Tugs, Fishing Trawlers	100-110	15-20	2.70	5.40
		Oil Tankers, Bulk Carrier, Dredgers etc.	110.00	15.00	2.70	5.40
40	Titagarh Wagons Ltd. (TWL)	Cargo Ships	150	-	4	-
		Passenger	50	-	3	-
		Naval others	30.00	-	2.00	-
41	Vijai Marine Shipyard (VMS)**	Passanger	105.00	20.00	2.50	0.20
		Tankers	105.00	20.00	2.50	2.70
		Cargo	105.00	20.00	2.50	2.90
42	West Coast Shipyard Ltd. (WCSL)**	Hopper Barge	130.00	20.00	3.20	
		Dredger	33.20	7.95	1.50	
		Ferry	17.50	7.50	0.45	
		Pontoons/ Fishing Vessels	70.00	30.00	2.00	
43	Waterways Shipyard Pvt. Ltd.(WSPL)	All Types	130.00	30.00	3.00	8.00

*Khidderpore Outer Dock Sill

** No information is received for 2021-22

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 1.2

**Ship Building Capacity - By Company-wise
(2018-19 to 2021-22)**

(DWT in thousand tons)					
S. No.	Name of The Company	2018-19	2019-20	2020-21	2021-22
(1)	(2)	(3)	(4)	(5)	(6)
	<u>A. PUBLIC SECTOR</u>				
1	Alcock Ashdown (Gujarat) Ltd. @	15.00			
2	Cochin Shipyard Ltd.	110.00	110.00	110.00	110.00
3	Garden Reach Shipbuilders & Engineers Ltd.	-	-	-	-
4	Goa Shipyard Ltd.	4.50	4.50	4.50	4.50
5	Hindustan Shipyard Ltd.	80.00	80.00	80.00	80.00
6	Hooghly Dock & Port Engineers Ltd.**	3.00	3.00	NIL	
7	Mazagaon Dock Shipbuilders Ltd.	40.00	40.00	-	-
8	Shalimar Works Ltd.	0.50	1.20	1.20	1.20
	<u>B. PRIVATE SECTOR</u>				
9	Abhishek Engineers**			2.70	
10	A.C.Roy & Co. Ltd.	1.50	1.50	1.50	1.50
11	A.H. Wadia Boats Builders			0.02	0.01
12	A.S. Moloobhoy Pvt. Ltd. @	-			
13	Bristol Boats Pvt. Ltd.	0.05	0.05	0.05	0.05
14	Chidambaram Shipcare Pvt. Ltd.	N.A	N.A	N.A	N.A
15	Chowgule & Co. Pvt. Ltd.	8.00	12.00	8.00	8.00
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	4.50	4.50	4.50	4.50
17	Equiptrans Logistics Pvt. Ltd.**			8.00	
18	Ferromar Shipping Pvt. Ltd.	2.50	2.50	2.50	2.50
19	M/s Glory Shipmanagement Pvt. Ltd.			N.A	N.A
20	High Seas Shipping Associates			N.A	N.A
21	Homa Engineering Works	N.A	N.A		
22	M/s Island Ship Repairers				N.A
23	JITF Shipyard Ltd	N.A	N.A	N.A	N.A
24	KSINC			0.30	0.30
25	L&T Shipbuilding Ltd.	*	*		*
26	Mandovi Dry Docks	5.10	5.10	8.00	8.00
27	Marine Care 'N' Associates		N.A	N.A	N.A
28	Marine Frontiers Pvt. Ltd.	0.12	0.12	0.12	0.12
29	Modest Infrastructure Pvt. Ltd.	3.50	3.50	3.50	3.50
30	N N Shipbuilders And Engineers Pvt Ltd	N.A	N.A	2.00	0.10
31	Patra Shipping Pvt Ltd				-
32	Reliance Naval and Engineering Ltd. @	400.00			
33	Roshini Ship Repairs and Engineers				N.A
34	San Marine		8.22	8.22	8.00
35	Sea Blue Shipyard Ltd.		0.34	0.34	0.34
36	Sembmarine Kakinada Ltd @				
37	Shoft Shipyard Pvt. Ltd.	2.35	2.35	9.00	9.00
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards	5.00	5.00		3.50
39	Timblo Drydocks Pvt. Ltd. **	7.50	5.40		
40	Titagarh Wagons Ltd.	8.00	8.00	8.00	-
41	Vijai Marine Shipyards**	2.90	2.90	2.90	
42	West Coast Shipyard Ltd.**	2.20	2.20	N.A	
43	Waterways Shipyard Pvt. Ltd			8.00	8.00

* Any type of Commercial/ Defence Vessels upto a length of 200 mtr. and beam of 46 mtr.

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

** No information is received for 2021-22 \$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Table No. 1.3

Ship Order Book Position by Type of Vessels
(As on 31st March, 2022)

(DWT in thousand tons)

S. No.	Name of Company	Type of Ship on Domestic Order (A - For Sea Going Vessels)												Type of Ship on Domestic Order (B - For Other Crafts)												Total (A + B)	
		Tanker		Dry Cargo		Bulk Carriers		Passenger/Passenger-cum-Cargo Ships		Product Carriers		Others		Port Craft		Fishing Trawlers		Off-shore Sector		IWT		Others					
		No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
	A. Public Sector																										
1	Alcock Ashdown (Gujarat) Ltd. @																										
2	Cochin Shipyard Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	26	9.32	N.A	N.A	1	19.10	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	12	1.41	39	29.83		
3	Garden Reach Ship-builders and Engineers Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	16	8.41	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	16	8.41		
4	Goa Shipyard Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	2	0.56	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	3	0.03	29	4.72	34	5.31		
5	Hindustan Shipyard Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	3	1.32	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	3	0.00	6	1.32		
6	Hooghly Dock & Port Engineers Ltd.**	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00		
7	Mazagaon Dock Shipbuilders Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	9	N.A	9	0.00		
8	Shalimar Works Ltd.	3	0.86	N.A	N.A	N.A	N.A	1	0.51	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	5	0.04	9	1.40		
	Total (A)	3	0.86	0	0.00	0	0.00	27	9.82	2	0.56	20	28.83	0	0.00	0	0.00	0	0.00	3	0.03	58	6.17	113	46.26		
	B. Private Sector																										
9	Abhishek Engineers**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
10	A.C.Roy & Co. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	36	1.25	N.A	N.A	36	1.25		
11	A.H. Wadia Boat Builders	N.A	N.A	N.A	N.A	N.A	N.A	7	0.00	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	46	0	53	0.00		
12	A.S. Molobhoy Pvt. Ltd. @																										
13	Bristol Boats Pvt. Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00		
14	Chidambaram Shipcare Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
15	Chowgule & Co. Pvt. Ltd.#	N.A	N.A	N.A	N.A	1	3	N.A	N.A	N.A	N.A	9	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	10	2.50		
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00		
17	Equiptrans Logistics Pvt. Ltd**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
18	Ferromar Shipping Pvt. Ltd.	N.A	N.A			N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
19	M/s Glory Shipmanagement Pvt. Ltd.																										
20	High Seas Shipping Associates																										
21	Homa Engineering Works																										
22	M/s Island Ship Repairers	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
23	JITF Shipyard Ltd	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
24	KSINC	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
25	L&T Shipbuilding Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
26	Mandovi Dry Docks	NIL	NIL	NIL	NIL	NIL	NIL	1	0	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	8	9.13	9	9.15		
27	Marine Care 'N' Associates	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
28	Marine Frontiers Pvt. Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00		
29	Modest Infrastructure Pvt. Ltd.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	10	1.44	10	1.44		
30	N N Shipbuilders And Engineers Pvt Ltd	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
31	Patra Shipping Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	6	0.02	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	6	0.02		
32	Reliance Naval and Engineering Ltd. @																							0	0.00		
33	Roshini Ship Repairs and Engineers	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
34	San Marine	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	6	1.47	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	6	1.47		
35	Sea Blue Shipyard Ltd	N.A	N.A	2	26.14	3	2	5	3	N.A	N.A	3	2	1	0.20	N.A	N.A	N.A	N.A	N.A	N.A	1	0.32	15	33.80		
36	Sembmarine Kakinada Ltd @																							0	0.00		
37	Shoft Shipyard Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	8	6.28	3	0.20	N.A	N.A	N.A	N.A	13	0.36	N.A	N.A	24	6.84		
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd.\$	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2	0.52	N.A	N.A	1	0	N.A	N.A	N.A	N.A	8	0.07	11	0.67		
39	Timblo Drydocks Pvt. Ltd. **	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
40	Titagarh Wagons Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	1	N.A	N.A	N.A	1	N.A	6	N.A	N.A	N.A	N.A	N.A	5	N.A	5	N.A	18	0.00		
41	Vijai Marine Shipyards**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
42	West Coast Shipyard Ltd.**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00		
43	Waterways Shipyard Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	1	0.85	N.A	N.A	1	2.38	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2	3.22		
	Total (B)	0	0.00	2	26.14	4	4.15	15	4.08	0	0.00	36	12.95	10	0.40	1	0.08	0	0.00	54	1.61	78	10.96	200	60.35		
	Total (A + B)	3	0.86	2	26.14	4	4.15	42	13.90	2	0.56	56	41.78	10	0.40	1	0.08	0	0.00	57	1.64	136	17.12	313	106.61		

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

Chowgule & Co. Pvt. Ltd. Builds Mega Blocks; data shown in others.

** No information is received for 2021-22

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Table No. 1.3 (Contd.)

Ship Order Book Position by Type of Vessels
(As on 31st March, 2022)

(DWT in thousand tons)																									
S. No.	Name of Company	Type of Ship on Export Order (A - For Sea Going Vessels)												Type of Ship on Export Order (B - For Other Crafts)										Total (A + B)	
		Tanker		Dry Cargo		Bulk Carriers		Passenger/Pas senger-cum- Cargo Ships		Product Carriers		Others		Port Craft		Fishing Trawlers		Off-shore Sector		IWT		Others			
		No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT	No. of Ships	DWT
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	A. Public Sector																								
1	Alcock Ashdown (Gujarat) Ltd. @																								
2	Cochin Shipyard Ltd.	N.A	N.A	N.A	N.A	8	56.00	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2	1.00	10	57.00
3	Garden Reach Ship-builders and Engineers Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	1	0.49	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	6	0.02	7	0.50
4	Goa Shipyard Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00
5	Hindustan Shipyard Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00
6	Hooghly Dock & Port Engineers Ltd.**	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00
7	Mazagaon Dock Shipbuilders Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
8	Shalimar Works Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
	Total (A)	0	0.00	0	0.00	8	56.00	0	0.00	0	0.00	1	0.49	0	0.00	0	0.00	0	0.00	0	0.00	8	1.02	17	57.50
	B. Private Sector																								
9	Abhishek Engineers**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
10	A.C.Roy & Co. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
11	A.H. Wadia Boat Builders	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
12	A.S. Molobhoy Pvt. Ltd. @																								
13	Bristol Boats Pvt. Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00
14	Chidambaram Shipcare Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
15	Chowgule & Co. Pvt. Ltd.	N.A	N.A	6	32.10	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	6	32.10
16	Dempo Shipbuilding and Engineering Pvt. Lt	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00
17	Equiptrans Logistics Pvt. Ltd**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
18	Ferromar Shipping Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
19	M/s Glory Shipmanagement Pvt. Ltd.	Carry out only ship repairing																							
20	High Seas Shipping Associates	Carry out only ship repairing																							
21	Homa Engineering Works	Carry out only ship repairing in Mumbai Harbour and at Mumbai Port Trust																							
22	M/s Island Ship Repairers	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
23	JITF Shipyard Ltd	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
24	KSINC	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
25	L&T Shipbuilding Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
26	Mandovi Dry Docks	NIL	NIL	NIL	NIL	NIL	NIL	1	0.08	NIL	NIL	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	1	0.08
27	Marine Care 'N' Associates	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
28	Marine Frontiers Pvt. Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0.00
29	Modest Infrastructure Pvt. Ltd.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0	0.00
30	N N Shipbuilders And Engineers Pvt Ltd	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
31	Patra Shipping Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
32	Reliance Naval and Engineering Ltd. @																							0	0.00
33	Roshini Ship Repairs and Engineers	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
34	San Marine	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
35	Sea Blue Shipyard Ltd	N.A	N.A	1	12.74	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	1	12.74
36	Sembmarine Kakinada Ltd @																							0	0.00
37	Shoft Shipyard Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd.\$	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
39	Timblo Drydocks Pvt. Ltd. **	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
40	Titagarh Wagons Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
41	Vijai Marine Shipyards**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
42	West Coast Shipyard Ltd.**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
43	Waterways Shipyard Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	0	0.00
	Total (B)	0	0.00	7	44.84	0	0.00	1	0.08	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	8	44.92
	Total (A + B)	0	0.0	7	44.84	8	56.00	1	0.08	0	0.00	1	0.49	0	0.00	0	0.00	0	0.00	0	0.00	8	1.02	25	102.42

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Table No. 1.3 (a)

**Total Ship Order Book of Vessels by Domestic Order and
by Export Order (As on 31st March, 2022)**

(DWT in thousand tons)

S.No.	Name of Company	Domestic Order		Export Order		Total Ship Order	
		No. of Ships	DWT	No. of Ships	DWT	No. of Ships (2+4)	DWT (3+5)
1	2	3	4	5	6	7	8
	A. Public Sector						
1	Alcock Ashdown (Gujarat) Ltd. @						
2	Cochin Shipyard Ltd.	39	29.83	10	57.00	49	86.83
3	Garden Reach Shipbuilders & Engineers Ltd.	16	8.41	7	0.50	23	8.91
4	Goa Shipyard Ltd.	34	5.31	0	0.00	34	5.31
5	Hindustan Shipyard Ltd.	6	1.32	0	0.00	6	1.32
6	Hooghly Dock & Port Engineers Ltd.**	0	0.00	0	0.00	0	0.00
7	Mazagaon Dock Shipbuilders Ltd.	9	0.00	0	0.00	9	0.00
8	Shalimar Works Ltd.	9	1.40	0	0.00	9	1.40
	Total (A)	113	46.26	17	57.50	130	103.76
	B. Private Sector						
9	Abhishek Engineers**	0	0.00	0	0.00	0	0.00
10	A.C.Roy & Co. Ltd.	36	1.25	0	0.00	36	1.25
11	A.H. Wadia Boat Builders	53	0.00	0	0.00	53	0.00
12	A.S. Moloobhoy Pvt. Ltd. @						
13	Bristol Boats Pvt. Ltd.	0	0.00	0	0.00	0	0.00
14	Chidambaram Shipcare Pvt. Ltd.	0	0.00	0	0.00	0	0.00
15	Chowgule & Co. Pvt. Ltd.#	10	2.50	6	32.10	16	34.60
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	0	0.00	0	0.00	0	0.00
17	Equiptrans Logistics Pvt. Ltd.**	0	0.00	0	0.00	0	0.00
18	Ferromar Shipping Pvt. Ltd.	0	0.00	0	0.00	0	0.00
19	M/s Glory Shipmanagement Pvt. Ltd.	0	0.00	0	0.00	0	0.00
20	High Seas Shipping Associates	0	0.00	0	0.00	0	0.00
21	Homa Engineering Works	0	0.00	0	0.00	0	0.00
22	M/s Island Ship Repairers	0	0.00	0	0.00	0	0.00
23	JITF Shipyard Ltd	0	0.00	0	0.00	0	0.00
24	KSINC	0	0.00	0	0.00	0	0.00
25	L&T Shipbuilding Ltd.	0	0.00	0	0.00	0	0.00
26	Mandovi Dry Docks	9	9.15	1	0.08	10	9.23
27	Marine Care 'N' Associates	0	0.00	0	0.00	0	0.00
28	Marine Frontiers Pvt. Ltd.	0	0.00	0	0.00	0	0.00
29	Modest Infrastructure Pvt. Ltd.	10	1.44	0	0.00	10	1.44
30	N N Shipbuilders And Engineers Pvt Ltd	0	0.00	0	0.00	0	0.00
31	Patra Shipping Pvt. Ltd.	6	0.02	0	0.00	6	0.02
32	Reliance Naval and Engineering Ltd. @						
33	Roshini Ship Repairs and Engineers	0	0.00	0	0.00	0	0.00
34	San Marine	6	1.47	0	0.00	6	1.47
35	Sea Blue Shipyard Ltd	15	33.80	1	12.74	16	46.53
36	Sembmarine Kakinada Ltd @						
37	Shoft Shipyard Pvt. Ltd.	24	6.84	0	0.00	24	6.84
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd.\$	11	0.67	0	0.00	11	0.67
39	Timblo Drydocks Pvt. Ltd. **	0	0.00	0	0.00	0	0.00
40	Titagarh Wagons Ltd.	18	0.00	0	0.00	18	0.00
41	Vijai Marine Shipyards**	0	0.00	0	0.00	0	0.00
42	West Coast Shipyard Ltd.**	0	0.00	0	0.00	0	0.00
43	Waterways Shipyard Pvt. Ltd.	2	3.22	0	0.00	2	3.22
	Total (B)	200	60.35	8	44.92	208	105.27
	Total (A + B)	313	106.61	25	102.42	338	209.02

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

Chowgule & Co. Pvt. Ltd. Builds Mega Blocks; data shown in others.

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 1.4

**No. of Ships on Order - Company-wise
2019-2022**

S.No.	Name of the Company	As on 31st March			
		2019	2020	2021	2022
(1)	(2)	(3)	(4)	(5)	(6)
	<u>A. PUBLIC SECTOR(Total)</u>	111	128	125	130
1	Alcock Ashdown (Gujarat) Ltd. @	5			
2	Cochin Shipyard Ltd.	47	62	50	49
3	Garden Reach Ship-builders and Engineers Ltd.	14	18	17	23
4	Goa Shipyard Ltd.	9	12	25	34
5	Hindustan Shipyard Ltd.	16	10	9	6
6	Hooghly Dock & Port Engineers Ltd.**	0	0	0	
7	Mazagaon Dock Shipbuilders Ltd.	14	14	14	9
8	Shalimar Works Ltd.	6	12	10	9
	<u>B. PRIVATE SECTOR(Total)</u>	77	121	155	208
9	Abhishek Engineers**			8	
10	A.C.Roy & Co. Ltd.	17	26	36	36
11	A.H. Wadia Boat Builders			12	53
12	A.S. Moloobhoy Pvt. Ltd. @	N.A			
13	Bristol Boats Pvt. Ltd.	0	0	0	0
14	Chidambaram Shipcare Pvt. Ltd.	0	0	0	0
15	Chowgule & Co. Pvt. Ltd.	7	22	14	16
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	1	1	0	
17	Equiptrans Logistics Pvt. Ltd**			0	
18	Ferromar Shipping Pvt. Ltd.	0	0	0	0
19	M/s Glory Shipmanagement Pvt. Ltd.			0	0
20	High Seas Shipping Associates			0	0
21	Homa Engineering Works	N.A	N.A	N.A	
22	M/s Island Ship Repairers				N.A
23	JITF Shipyard Ltd		N.A	N.A	N.A
24	KSINC			N.A	N.A
25	L&T Shipbuilding Ltd.	2	2	0	0
26	Mandovi Dry Docks	6	11	6	10
27	Marine Care 'N' Associates		N.A	0	0
28	Marine Frontiers Pvt. Ltd.	2	1	0	0
29	Modest Infrastructure Pvt. Ltd.	2	1	1	10
30	N N Shipbuilders And Engineers Pvt Ltd	2	2	0	0
31	Patra Shipping Pvt. Ltd.				6
32	Reliance Naval and Engineering Ltd. @	28			
33	Roshini Ship Repairs and Engineers				N.A
34	San Marine		5	14	6
35	Sea Blue Shipyard Ltd		14	18	16
36	Sembmarine Kakinada Ltd @	0	0		
37	Shoft Shipyard Pvt. Ltd.	0	27	26	24
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd.\$	0	0	0	11
39	Timblo Drydocks Pvt. Ltd. **	0	0	0	
40	Titagarh Wagons Ltd.	1	N.A	12	18
41	Vijai Marine Shipyards**	9	9	6	
42	West Coast Shipyard Ltd.**	0	0	0	
43	Waterways Shipyard Pvt. Ltd.			2	2
	C. Total (A + B)	188	249	280	338

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 1.5

**Size and Number of Ships Delivered, Company-wise
(2018-19 to 2021-22)**

S.No	Name of the Company	Year	Ship Delivered		Size (DWT)	
			No.	DWT	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	A. PUBLIC SECTOR	2021-22	22	37.92		
		2020-21	22	7.49		
		2019-20	27	2.54		
		2018-19	17	3.31		
	Alcock Ashdown (Gujarat) Ltd.@	2021-22			0.00	0.00
		2020-21			0.00	0.00
		2019-20			0.00	0.00
		2018-19	0	0.00	0.00	0.00
	Cochin Shipyard Ltd.	2021-22	12	36.47	8.00	0.05
		2020-21	13	2.29	0.08	0.05
		2019-20	16	1.03	0.05	0.05
		2018-19	3	0.15	0.06	0.06
	Garden Reach Ship-Builders and Engineers Ltd.	2021-22	0	0.00	0.00	0.00
		2020-21	3	0.33	0.22	0.06
		2019-20	4	0.85	0.52	0.06
		2018-19	4	0.71	0.22	0.06
	Goa Shipyard Ltd.	2021-22	3	0.94	0.46	0.01
		2020-21	2	0.92	0.46	0.46
		2019-20	1	0.46	0.46	0.46
		2018-19	3	2.00	1.00	1.00
	Hindustan Shipyard Ltd.	2021-22	4	0.51	0.13	0.13
		2020-21	1	3.35	3.35	3.35
		2019-20	5	0.20	0.07	0.065
		2018-19	6	0	0.19	0.00
	Hooghly Dock & Port Engineers Ltd.**	2021-22	0	0	0	0
		2020-21	0	0	0	0
		2019-20	N.A	N.A	N.A	N.A
		2018-19	N.A	N.A	N.A	N.A
	Mazagaon Dock Shipbuilders Ltd.	2021-22	2	N.A	N.A	N.A
		2020-21	1	N.A	N.A	N.A
		2019-20	1	N.A	N.A	N.A
		2018-19	N.A	N.A	N.A	N.A
	Shalimar Works Ltd.	2021-22	1	0.01	0.01	0.01
		2020-21	2	0.60	0.51	0.09
		2019-20	N.A	N.A	N.A	N.A
		2018-19	1	0.05	0.05	0.05
	B. PRIVATE SECTOR	2021-22	91	71.75		
		2020-21	47	22.79		
		2019-20	51	28.72		
		2018-19	24	21.46		
9	Abhishek Engineers**	N.A				
10	A.C.Roy & Comp. Ltd.	2021-22	0	0.00	0.00	0.00
		2020-21	1	0.10	0.10	0.10
		2019-20	17	0.60	0.09	0.03
		2018-19	2	1.01	0.62	0.39
11	A.H. Wadia Boat Builders	2021-22	18	0.00	0.00	0.00
		2020-21	2	0.005	0.005	0.005
12	A.S. Moloooboy Pvt. Ltd.@	2021-22				
		2020-21				
		2019-20				
		2018-19	N.A	N.A	N.A	N.A
13	Bristol Boats Pvt. Ltd.	2021-22	11	0.001	0.0003	0.0002
		2020-21	8	0.001	0.000	0.000
		2019-20	2	0	0	0
		2018-19	N.A	N.A	N.A	N.A

Table No. 1.5

**Size and Number of Ships Delivered, Company-wise
(2018-19 to 2021-22)**

DWT(in thousand tons)

S.No	Name of the Company	Year	Ship Delivered		Size (DWT)	
			No.	DWT	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)	(7)
14	Chidambaram Shipcare Pvt. Ltd.	2021-22	N.A	N.A	N.A	N.A
		2020-21	N.A	N.A	N.A	N.A
		2019-20	N.A	N.A	N.A	N.A
		2018-19	N.A	N.A	N.A	N.A
15	Chowgule & Co. Pvt. Ltd.	2021-22	3	8.44	4.22	4.22
		2020-21	4	8.44	4.22	4.22
		2019-20	5	8	4	4
		2018-19	2	N.A	N.A	N.A
16	Dempo Shipbuilding & Engineering Pvt. Ltd.	2021-22	0	0.00	0.00	0.00
		2020-21	1	0.7	0.7	0.7
		2019-20	0	0.0	0.0	0.0
		2018-19	3	0	0	0
17	Equiptrans Logistics Pvt. Ltd**	2020-21	N.A	N.A	N.A	N.A
18	Ferromar Shipping Pvt. Ltd.	2021-22	N.A	N.A	N.A	N.A
		2020-21	N.A	N.A	N.A	N.A
		2019-20	N.A	N.A	N.A	N.A
		2018-19	N.A	N.A	N.A	N.A
19	M/s Glory Shipmanagement Pvt. Ltd.	N.A				
20	High Seas Shipping Associates	N.A				
21	Homa Engineering Works	N.A				
22	M/s Island Ship Repairers	N.A				
23	JITF Shipyard Ltd	N.A				
24	KSINC	2021-22	N.A	N.A	N.A	N.A
		2020-21	N.A	N.A	N.A	N.A
25	L&T Shipbuilding Ltd	2021-22	10	-	-	-
		2020-21	-	-	-	-
		2019-20	-	-	-	-
		2018-19	1	1.91	1.91	1.91
26	Mandovi Dry Docks	2021-22	5	4.6	2.2	0.08
		2020-21	7	5.6	3.2	0.00
		2019-20	7	9.72	5.1	0.0
		2018-19	4	12.97	5.1	1.31
27	Marine Care 'N' Associates	N.A				
28	Marine Frontiers Pvt. Ltd.	2021-22	0	0.00	0.0	0.00
		2020-21	0	0.00	0.0	0.00
		2019-20	0	0.00	0.0	0.00
		2018-19	4	0.03	0.0	0.01
29	Modest Infrastructure Pvt. Ltd.	2021-22	6	0.14	0.03	0.01
		2020-21	1	1.66	1.66	1.66
		2019-20	1	0.35	0.35	0.35
		2018-19	N.A	N.A	N.A	N.A
30	N N Shipbuilders and Engineers Pvt Ltd	2021-22	N.A	N.A	N.A	N.A
		2020-21	N.A	N.A	N.A	N.A
		2019-20	N.A	N.A	N.A	N.A
		2018-19	N.A	N.A	N.A	N.A
31	Patra Shipping Pvt. Ltd.	2021-22	1	0.02	0.02	0.02
32	Reliance Naval & Engineering Ltd. @	2021-22				
		2020-21				
		2019-20				
		2018-19	1	N.A	N.A	N.A
33	Roshini Ship Repairs and Engineers	N.A				
34	San Marine	2021-22	7	10.29	8.00	0.50
		2020-21	5	1.4	0.8	0.1
35	Sea Blue Shipyard Ltd.	2021-22	16	45.2	26.5	0.1
		2020-21	6	1.3	0.4	0.1
		2019-20	14	5.0	1.1	0.1
36	Sembmarine Kakinada Ltd @	2021-22*				
		2020-21				
		2019-20				
		2018-19	N.A	N.A	N.A	N.A

Table No. 1.5

**Size and Number of Ships Delivered, Company-wise
(2018-19 to 2021-22)**

DWT(in thousand tons)						
S.No	Name of the Company	Year	Ship Delivered		Size (DWT)	
			No.	DWT	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)	(7)
37	Shoft Shipyard Pvt. Ltd.	2021-22*	8	0.20	0.028	0.028
		2020-21	3	0.08	0.025	0.025
		2019-20	N.A	N.A	N.A	N.A
		2018-19	3	2.43	2.26	0.084
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd.\$	2021-22	2	0.02	0.01	0.01
		2020-21				
		2019-20	0	0.00	0.00	0.00
		2018-19	N.A	N.A	N.A	N.A
39	Timblo Drydocks Pvt. Ltd. **	2021-22	0	0.00	0.00	0
		2020-21				
		2019-20	0	0.00	0.00	0
		2018-19	0	0.00	0.00	0
40	Titagarh Wagons Ltd.	2021-22	0	0.00	0.00	0.00
		2020-21	1	0.19	0.19	0.19
		2019-20	3	1.67	1.30	0.19
		2018-19	3	2.78	1.30	0.19
41	Vijai Marine Shipyards**	2021-22	7	0.9	0.7	0.4
		2020-21				
		2019-20	2	2.9	2.5	0.2
		2018-19	1	0.2	0.2	0.2
42	West Coast Shipyard Ltd.**	2021-22				
		2020-21	N.A	N.A	N.A	N.A
		2019-20	N.A	N.A	N.A	N.A
		2018-19	N.A	N.A	N.A	N.A
43	Waterways Shipyard Pvt. Ltd.	2021-22	4	2.9	2.5	0.1
		2020-21	1	2.5	2.5	2.5
Grand Total (A + B)		2021-22	113	109.67		
		2020-21	69	30.28		
		2019-20	78	31.26		
		2018-19	41	24.77		

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

* Includes one Hull Structure

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note: New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 1.6

No. of Ships on Order and No. of Ships Delivered -Company-wise (2018-19 to 2021-22)

S.No.	Name of The Company	No. of Ships On Order During the year				Ships Delivered During the year			
		2018-19	2019-20	2020-21	2021-22	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10
	<u>A. PUBLIC SECTOR</u>	111	128	125	130	17	27	22	22
1	Alcock Ashdown (Gujarat) Ltd. @	5				0			
2	Cochin Shipyard Ltd.	47	62	50	49	3	16	13	12
3	Garden Reach Shipbuilders & Eng. Ltd	14	18	17	23	4	4	3	0
4	Goa Shipyard Ltd.	9	12	25	34	3	1	2	3
5	Hindustan Shipyard Ltd.	16	10	9	6	6	5	1	4
6	Hooghly Dock & Port Engineers Ltd.	0	0	0		0	0	0	
7	Mazagaon Dock Shipbuilders Ltd.	14	14	14	9	-	1	1	2
8	Shalimar Works Ltd.	6	12	10	9	1	0	2	1
	<u>B. PRIVATE SECTOR</u>	77	121	155	208	24	51	47	91
9	Abhishek Engineers			8				N.A	
10	A.C.Roy & Comp. Ltd.	17	26	36	36	2	17	1	0
11	A.H. Wadia Boat Builders			12	53			2	18
12	A.S. Moloobhoy Pvt. Ltd. @	N.A				N.A			
13	Bristol Boats Pvt. Ltd.	0	0	0	0	N.A	2	8	11
14	Chidambaram Shipcare Pvt. Ltd.	0	0	0	0	N.A	N.A	N.A	N.A
15	Chowgule & Co. Pvt. Ltd.	7	22	14	16	2	5	4	3
16	Dempo Shipbuilding & Engineering Pvt. Ltd.	1	1	0	0	3	0	1	0
17	Equiptrans Logistics Pvt. Ltd			N.A				N.A	
18	Ferromar Shipping Pvt. Ltd.	0	0	N.A	N.A	0	0	N.A	N.A
19	M/s Glory Shipmanagement Pvt. Ltd.			N.A	N.A			N.A	N.A
20	High Seas Shipping Associates			N.A	N.A			N.A	N.A
21	Homa Engineering Works	N.A	N.A	N.A		N.A	N.A	N.A	
22	M/s Island Ship Repairers				N.A				N.A
23	JITF Shipyard Ltd		N.A	N.A	N.A		N.A	N.A	N.A
24	KSINC			N.A	N.A			N.A	N.A
25	L&T Shipbuilding Ltd	2	2		0	1	N.A		10
26	Mandovi Dry Docks	6	11	6	10	4	7	7	5
27	Marine Care 'N' Associates		N.A	N.A			N.A	N.A	
28	Marine Frontiers Pvt. Ltd.	2	1	0	0	4	0	0	0
29	Modest Infrastructure Pvt. Ltd.	2	1	1	10	N.A	1	1	6
30	N N Shipbuilders and Engineers Pvt Ltd	2	2	N.A	N.A	N.A	N.A	N.A	N.A
31	Patra Shipping Pvt. Ltd				6				1
32	Reliance Naval & Engineering Ltd. @	28				1			
33	Roshini Ship Repairs and Engineers				N.A				N.A
34	San Marine		5	14	6		N.A	5	7
35	Sea Blue Shipyard Ltd.		14	18	16		14	6	16
36	Sembmarine Kakinada Ltd. @	0	0			N.A	N.A		
37	Shoft Shipyard Pvt. Ltd.	0	27	26	24	3	-	3	8
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd.\$	0	0		11	0	0		2
39	Timblo Drydocks Pvt. Ltd.	0	0			0	0		
40	Titagarh Wagons Ltd.	1	N.A	12	18	3	3	1	0
41	Vijai Marine Shipyards	9	9	6		1	2	7	
42	West Coast Shipyard Ltd	0	0	N.A		N.A	N.A	N.A	
43	Waterways Shipyard Pvt. Ltd.			2	2			1	4
	TOTAL(A+B)	188	249	280	338	41	78	69	113

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 1.7

**No. of Ships - By Keel Laid, Launched And Ships Under
Construction, Company-wise (2018-19 to 2021-22)**

S.No.	Name of The Company	Year	Keel-laid	No. of Ships Launched	Under Construction at	Under Fitting at Jetty Quay
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<u>A. PUBLIC SECTOR</u>						
1	Alcock Ashdown (Gujarat) Ltd.@	2021-22 2020-21 2019-20 2018-19	5	NA	5	NA
2	Cochin Shipyard Ltd.	2021-22 2020-21 2019-20 2018-19	1 6 6 6	3 2 2 2	0 NA NA 2	9 7 14 3
3	Garden Reach Shipbuilding & Engineers Ltd.	2021-22 2020-21 2019-20 2018-19	5 4 NA 2	2 1 NA NA	16 4 3 NA	3 1 3 6
4	Goa Shipyard Ltd.	2021-22 2020-21 2019-20 2018-19	6 3 NA NA	0 NIL NA NA	16 15 2 5	2 3 3 2
5	Hindustan Shipyard Ltd.	2021-22 2020-21 2019-20 2018-19	2 2 7 NA	1 2 NA NA	NIL NIL NA NA	2 5 NA 7
6	Hooghly Dock & Port Engineers Ltd.	2021-22 2020-21 2019-20 2018-19	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
7	Mazagaon Dock Shipbuilders Ltd.	2021-22 2020-21 2019-20 2018-19	1 2 14 2	3 3 8 6	3 3 NA 4	1 2 NA 2
8	Shalimar Works Ltd.	2021-22 2020-21 2019-20 2018-19	0 0 0 0	0 0 0 0	4 4 6 5	5 6 6 1
<u>B. PRIVATE SECTOR</u>						
9	Abhishek Engineers**	2021-22 2020-21	1	NA	NA	NA
10	A. C. Roy & Comp. Ltd.	2021-22 2020-21 2019-20 2018-19	0 10 25 0	36 26 1 6	NA NA NA 10	NA NA NA 0
11	A.H. Wadia Boat Builders	2021-22 2020-21	NIL 5	NIL 2	NIL 1	NIL 0
12	A.S. Moloobhoy Pvt. Ltd.@	2021-22 2020-21 2019-20 2018-19	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA
13	Bristol Boats Pvt. Ltd.	2021-22 2020-21 2019-20 2018-19	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA
14	Chidambaram Shipcare Pvt. Ltd.	2021-22 2020-21 2019-20 2018-19	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA
15	Chowgule & Co. Pvt. Ltd.	2021-22 2020-21 2019-20# 2018-19	1 2 4 6	0 NA NA NA	11 5 9 3	0 NA NA 1
16	Dempo Shipbuilding & Engineering Pvt. Ltd.	2021-22 2020-21 2019-20 2018-19	NIL NA NA NA	NIL NA NA NA	NIL NA NA 1	NIL NA 1 NA
17	Equiptrans Logistics Pvt. Ltd**	2021-22 2020-21	NA NA	NA NA	NA NA	NA NA
18	Ferromar Shipping Pvt. Ltd.	2021-22 2020-21 2019-20 2018-19	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA

Table No. 1.7(Contd...) **No. Of Ships - By Keel Laid, Launched And Ships Under Construction, Company-wise (2018-19 to 2021-22)**

S.No.	Name of The Company	Year	Keel-laid	No. of Ships Launched	Construction at Berth	Under Fitting at Jetty Quay
(1)	(2)	(3)	(4)	(5)	(6)	(7)
19	M/s Glory Shipmanagement Pvt. Ltd			NA		
20	High Seas Shipping Associates			NA		
21	Homa Engineering Works			NA		
22	M/s Island Ship Repairers			NA		
23	JITF Shipyard Ltd			NA		
24	KSINC	2021-22 2020-21	0 0	0 1	1 1	1 0
25	L&T Shipbuilding Ltd.	2021-22 2020-21 2019-20 2018-19	0 NA NA	0 NA NA	0 NA NA	0 2 2
26	Mandovi Dry Docks	2021-22 2020-21 2019-20 2018-19	0 0 9 6	0 0 6 3	3 6 3 NA	4 0 NA NA
27	Marine Care 'N' Associates			NA		
28	Marine Frontiers Pvt. Ltd.	2021-22 2020-21 2019-20 2018-19	0 NA NA 1	0 NA NA NA	0 NA 2 1	0 NA NA NA
29	Modest Infrastructure Pvt. Ltd.	2021-22 2020-21 2019-20 2018-19	10 1 1 1	Nil Nil NA NA	10 1 1 1	Nil Nil NA NA
30	N N Shipbuilders and Engineers Pvt Ltd	2021-22 2020-21 2019-20 2018-19	2 2 NA NA	0 0 NA NA	0 2 2 2	0 0 NA NA
31	Patra Shipping Pvt. Ltd	2021-22	5	0	0	0
32	Reliance Naval & Engineering Ltd.@	2021-22 2020-21 2019-20 2018-19				
33	Roshini Ship Repairs and Engineers			2	2	7
34	San Marine	2021-22 2020-21 2019-20	NA NA NA	NA NA NA	NA 5 5	NA 6 NA
35	Sea Blue Shipyard Ltd	2021-22 2020-21 2019-20	NA NA NA	NA NA NA	NA NA NA	NA NA NA
36	Sembmarine Kakinada Ltd. @	2021-22 2020-21 2019-20 2018-19	NA NA NA	NA NA NA	NA NA NA	NA NA NA
37	Shoft Shipyard Pvt. Ltd.	2021-22 2020-21 2019-20 2018-19	13 24 27 2	0 5 7 2	3 23 7 2	3 23 7 2
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd.\$	2021-22 2020-21 2019-20 2018-19	12 NA NA	3 NA NA	9 NA NA	0 NA NA
39	Timblo Drydocks Pvt. Ltd. **	2021-22 2020-21 2019-20 2018-19	0 0 NA	0 0 NA	0 0 NA	0 0 NA
40	Titagarh Wagons Ltd.	2021-22 2020-21 2019-20 2018-19	1 NA NA NA	NA NA NA NA	7 NA NA NA	NA NA NA 1
41	Vijai Marine Shipyards**	2021-22 2020-21 2019-20 2018-19	NA NA NA	1 NA 1	3 2 5	2 7 4
42	West Coast Shipyard Ltd.**	2021-22 2020-21 2019-20 2018-19	NA NA NA	NA NA NA	NA NA NA	NA NA NA
43	Waterways Shipyard Pvt. Ltd.	2021-22 2020-21	1 NA	0 NA	1 2	0 NA
Total (A+B)		2021-22 2020-21 2019-20 2018-19	60 62 93 33	48 43 24 22	84 75 42 48	30 55 43 38

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

Includes 3 Mega Blocks at Under Construction at Berth

** No information is received for 2021-22

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

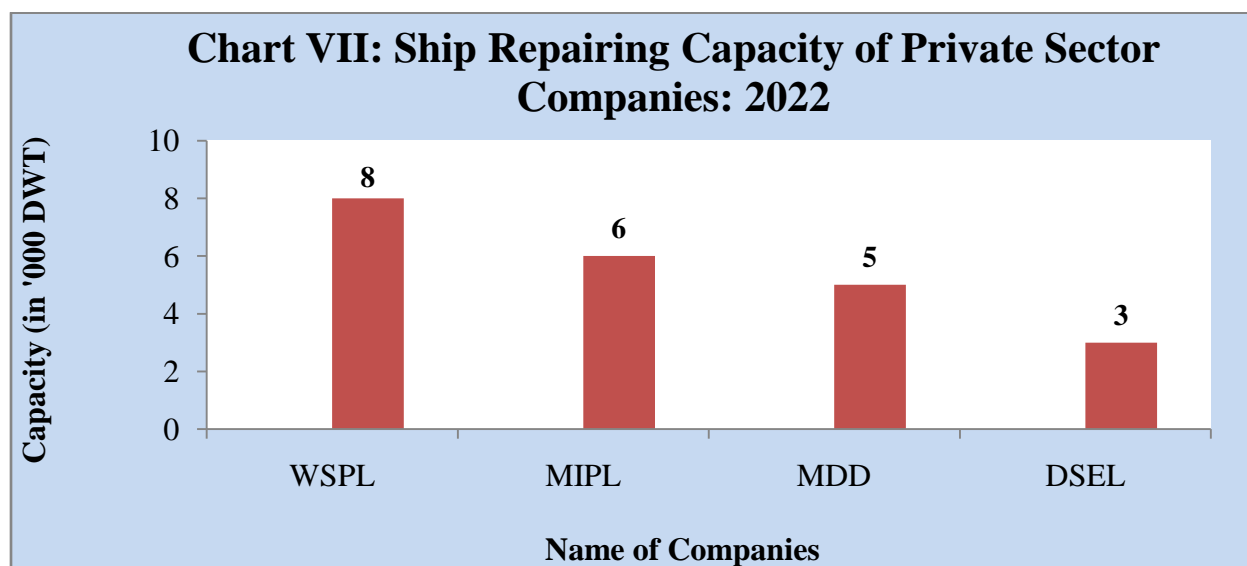
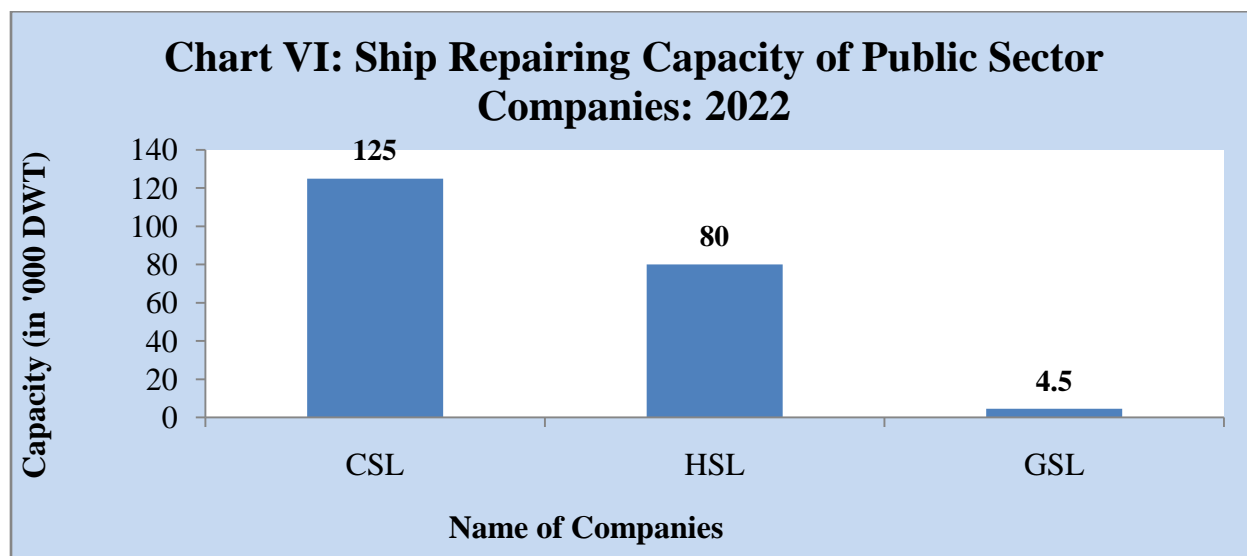
Section-2

INDIA'S SHIP-REPAIRING INDUSTRY

2. INDIA'S SHIP-REPAIRING INDUSTRY

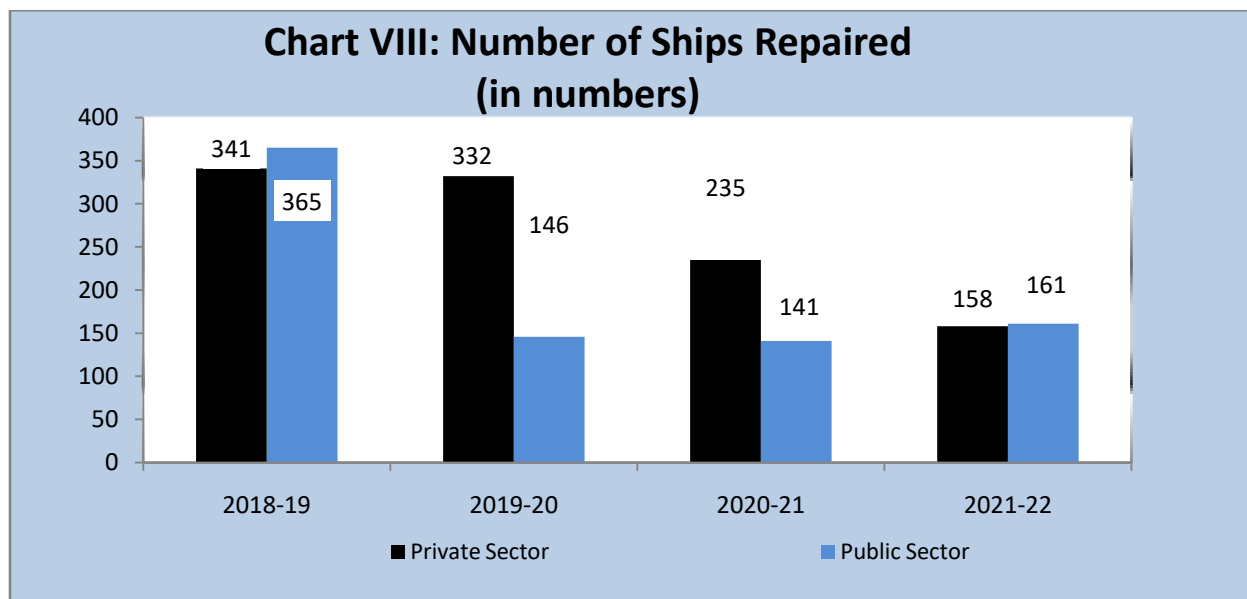
2.1 Ship repair capacity essentially reflects capability in terms of the number of ships repaired and maximum size of ship that can be repaired in terms of DWT.

2.2 Amongst public sector companies, Cochin Shipyard Ltd (CSL) had the highest capacity for ship repairing (125 thousand DWT) followed by Hindustan Shipyard Ltd. (HSL) (80 thousand DWT) and Goa Shipyard Ltd. (GSL) (4.5 thousand DWT) in 2021-22. In private sector category amongst the reporting companies, Waterways Shipyard Pvt. Ltd. (WSPL) (8.00 thousand DWT) had the highest capacity for ship repairing followed by Modest Infrastructure Pvt. Ltd. (MIPL) (6 thousand DWT), Mandovi Drydocks (MDD) (5 thousand DWT) and Dempo Shipbuilding and Engineering Pvt. Ltd. (3 thousand DWT). Charts VI& VII below depict the ship repairing capacity of major public and private sector shipbuilding yards as on 31st March 2022 and details of the same are given in table 2.1 (page 25-27).



NUMBER OF SHIPS REPAIRED

2.3 In 2021-22, total 319 ships were repaired out of which 158 ships were repaired by private sector shipyards and 161 ships were repaired by public sector shipyards against 376 ships repaired in 2020-21. Chart–VIII given below depicts comparative picture of the number of ships repaired by all public and private sector shipbuilding yards during 2018-19 to 2021-22 and details of the same are given in Table 2.4 (page 32-34).



2.4 In 2021-22 amongst the Public sector, Cochin Shipyard Ltd had repaired the highest number of ships (100 ships with earnings of Rs. 672.53 crore) followed by Goa Shipyard Ltd. (33 ships with earnings of Rs. 190.14 crore) and Hindustan Shipyard Ltd. (14 ships with earnings of Rs 72.26 crore). In the private sector, amongst the reporting companies Dempo Shipbuilding & Engineering Pvt. Ltd.(DSEL) had the highest number of ships repaired (40 ships with earnings of Rs 6.23 crore), followed by High Seas Shipping Associates (40 ships with earnings of Rs 9.87 crore), Sea Blue Shipyard Ltd.(16 ships repaired with an earnings of Rs 19.08 crore), Mandovi Drydocks (14 ships with earnings of Rs 4.69 crore) and JITF Shipyards Ltd (8 ships with earnings of Rs 0.50 crore). Amongst reporting companies, in terms of ships repaired, the private sector and public sector accounted for a share of 49.5% (158 Ships) and 50.5% (161 Ships) respectively in the total ships repaired (319 Ships) during 2021-22. Company wise ship repairing facilities for dry docks, wet docks and other repairing facilities as on 31st March 2022 is given in Table 2.3 (page 29) & 2.3(a) (page 30-31) respectively. Company wise earnings from the year 2018-19 to 2021-22 along with number of ships repaired by Indian vessels and foreign vessels is given in Table 2.4 (page 32-34).

2.5 Table 5 given below depicts the number of ships repaired and earnings by both public and private ship yards in India during 2020-21 and 2021-22.

Table No. 5 : Number of Ships Repaired and Earnings												
Name of The Company	2020-21						2021-22					
	Indian Vessels		Foreign Vessels		Total Vessels		Indian Vessels		Foreign Vessels		Total Vessels	
	S	E	S	E	S	E	S	E	S	E	S	E
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
A. PUBLIC SECTOR (Total)	138	118915.61	3	568.74	141	119484.35	156	132385.42	5	3093.34	161	135478.76
1. Alcock Ashdown & Co. Ltd.@												
2. Cochin Shipyard Ltd.	94	39025.33	3	535.74	97	39561.07	99	67088.51	1	164.20	100	67252.71
3. Garden Reach Shipbuilders & Engineers Ltd.	No Merchant Ships repaired during 2020-21						2	52.68	2	2437.90	4	2490.58
4. Goa Shipyard Ltd.	31	15415.00	-	33.00	31	15448.00	33	18904.09	N.A	110.24	33	19014.33
5. Hindustan Shipyard Ltd.	6	21174.16	-	-	6	21174.16	12	6845.00	2	381.00	14	7226.00
6. Hooghly Dock & Port Engineers Ltd.**	-	-	-	-	-	-						
7. Mazagon Dock Shipbuilders Ltd.	4	43263.00	-	-	4	43263.00	6	39368.17	0	0	6	39368.17
8. Shalimar Works Ltd.	3	38.12	-	-	3	38.12	4	126.97	0	0	4	126.97
B. PRIVATE SECTOR (Total)	211	8308.07	24	173.67	235	8481.74	157	8188.28	1	278.10	158	8466.38
9. Abhishek Engineers**	6	150.00	-	-	6	150.00						
10. A.C.Roy & Co. Ltd.	8	420.00	-	-	8	420.00	5	199.00	0	0	5	199.00
11. A.H. Wadia Boat Builders	-	-	-	-	-	-	0	0	0	0	0	0
12. A.S. Moloobhoy Pvt. Ltd.												
13. Bristol Boats Pvt. Ltd.	2	1.39	-	-	2	1.39	3	35.79	0	0	3	35.79
14. Chidambaram Shipcare Pvt. Ltd	82	721.64	21	162.79	103	884.42		272.90		233.81		506.71
15. Chowgule & Co. Pvt. Ltd	-	-	-	-	-	-	3	446.34	0	0	3	446.34
16. Dempo Shipbuilding & Engg. Ltd.	26	513.21	-	-	26	513.21	40	623.41	0	0	40	623.41
17. Equiptrans Logistics Pvt. Ltd.**	21	678.39	-	-	21	678.39						
18. Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	-	0	0	0	0	0	0
19. M/s Glory Shipmanagement Pvt. L	4	177.29	-	-	4	177.29	8	266.73	0	0	8	266.73
20. High Seas Shipping Associates	2	76.76	-	-	2	76.76	40	986.77	0	0	40	986.77
21. Homa Engineering Works	1	452.12	-	-	1	452.12						
22. M/s Island Ship Repairers							3	605.96	0	0	3	605.96
23. JITF Shipyards Ltd.	10	236.48	-	-	10	236.48	8	50.24	0	0	8	50.24
24. KSINC	1	14.00	-	-	1	14.00	1	14.00	0	0	1	14.00

25. L&T Shipbuilding Ltd												
26. Mandovi Drydocks	13	461.00	-	-	13	461.00	14	469.00	0	0	14	469.00
27. Marine Care 'N' Associates	8	987.00	-	-	8	987.00	2	286.00	0	0	2	286.00
28. Marine Frontiers Pvt. Ltd.	-	-	-	-	-	-	0	0	0	0	0	0
29. Modest Infrastructure Pvt. Ltd.	6	1686.63	-	-	6	1686.63	7	1931.50	0	0	7	1931.50
30. NN Shipbuilders & Engg. Pvt Ltd	-	-	-	-	-	-	0	0	0	0	0	0
31. Patra Shipping Pvt. Ltd.												
32. Reliance Naval & Engineering Ltd.@												
33. Roshini Ship Repairs and Engineers							4	186.82	0	0	4	186.82
34. San Marine	-	-	-	-	-	-	0	0	0	0	0	0
35. Sea Blue Shipyard Ltd.	15	1247.72	3	10.98	18	1258.60	15	1863.77	1	44.29	16	1908.06
36. Sembmarine Kakinada Ltd. @												
37. Shoft Shipyard Pvt. Ltd.	4	435.34	-	-	4	435.34	4	136.88	0	0	4	136.88
38. Tebma Shipyard Ltd							0	0	0	0	0	0
39. Timblo Drydocks Pvt. Ltd.**	-	-	-	-	-	-						
40. Titagarh Wagons Ltd.	-	-	-	-	-	-	0	0	0	0	0	0
41. Vijai Marine Shipyards**	1	35.03	-	-	1	35.03						
42. West Coast Shipyard Ltd.**	1	14.09	-	-	1	14.09						
43. Waterways Shipyard Pvt. Ltd.	-	-	-	-	-	-	0	0	0	0	0	0
Grand Total (A + B)	349	127223.68	27	742.41	376	127966.09	313	140573.70	6	3371.44	319	143945.14
Note (1): S : No. of Ships ; E : Earnings in Rs. Lakh; - : NIL Note (2): Note: New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Shipping Register. ** No information is received for 2021-22 @ Removed in view of Point 1.4 of Chapter 1 of the Publication												

SHIP REPAIR FACILITIES AVAILABLE AT MAJOR PORTS

2.6 Apart from shipbuilding yards, ship repair facilities are also available at major ports. Data provided by different major ports on dry docks, dry dock hire charges and equipments available for ship repairing have been compiled and presented in three different tables (Table 2.5 (page 35), Table 2.6 (page 36) & Table 2.7 (page 37)).

2.7 Available data on Ship repair facilities reveal that Syama Prasad Mukherjee Port (SMP, Kolkata) has a maximum number of dry docks (5), Mumbai Port Trust, Visakhapatnam Port Trust, Paradip Port Trust and Deendayal Port Trust have 1 Dry Dock each. The remaining major

Ports do not have any ship repairing facilities. With regard to cranes availability and capacity SMP (Kolkata) has five cranes followed by Visakhapatnam Port Trust and Deendayal Port Trust with 1 crane each.

DRY DOCK HIRE CHARGES

2.8 Dry dock hire charges vary from port to port depending upon a number of factors, which include the size and type of vessels and time spent at dock. The charges are different for different types of vessels (foreign going and coastal). The charges also vary for inner harbour and fishing harbour. The details of dry dock hire charges are given in the table 2.6 (page 36).

Table No. 2.1

**Company-wise Ship Repairing Capacity
(As on 31st March, 2022)**

Sl. No.	Name of the company	Type of Vessels/Ships	Ship repair capacity/Maximum size capacity			
			Length (Mts.)	Width (Mts.)	Draft (Mts.)	DWT (in thousand)
1	2	3	4	5	6	7
A.	PUBLIC SECTOR					
1	Alcock Ashdown (Gujarat) Ltd. @					
2	Cochin Shipyard Ltd.	All type of vessels	300/ 270	40.00	6.50	125.0
3	Garden Reach Shipbuilders and Engineers Ltd.	01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Dry Dock – 1 (Old) of Main Unit (Dry Dock's Length:- 160 mts., Width:- 25 mts.& Draft:- 8 mts. above KODS*) 01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Dry Dock – 2 (New) of Main Unit (Dry Dock's Length:- 180 mts., Width:- 29 mts.& Draft:- 12mts. which is 02 mts. below KODS* and 10 mts. above KODS*) 03 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Dry Dock – 2 of RBD Unit (Dry Dock's Length:- 158mts., Width:- 18 mts.& Draft:- 8 mts. above KODS*) 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Dry Dock - 1 of RBD Unit (Functional Length :- 179mts., Breadth:- 12.34 mts. At Bottom and 27.20 mts. At Top, Depth:- 6.46 mts., Dock Bed: 2.38 mts above KODS*) 01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Finger Jetty – 1 of FOJ Unit (Finger Jetty's Length:- 184.5 mts., Width:- 11.5 mts.& Draft:- 7.0 mts. minimum above KODS*) 01 No. Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Finger Jetty – 2 of FOJ Unit (Finger Jetty's Length:- 184.5 mts., Width:- 11.5mts.& Draft:- 7.0 mts. minimum above KODS*) 02 No. each of Fleet Tanker or Frigate or Corvette or Landing Ship Tank (Large) at Naval Jetty of FOJ Unit (Naval Jetty's Length:- 229 mts., Width:- 10 mts.& Draft:- 8.0 mts. minimum above KODS*) 01 Nos. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Wet Basin of Main Unit (Wet Basin's Length:- 109mts., Width:- 23mts.Draft:- 8.0 mts., with Sill Height:- 1.83 mts. above KODS*) 01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Western Jetty of Main Unit (Western Jetty's Length:- 100mts. with Pontoon of Length:- 25mts., Width:- 9mts.,and Height:- 4.5 mts.,) 01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Canteen Jetty of Main Unit (Canteen Jetty's Length:- 100mts., with Pontoon of Length:- 13.5mts., Width:- 4.5mts.,and Height:- 1.0 mts.,) 01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Hooghly Jetty of RBD Unit(Hooghly Jetty's Length:- 88mts., with Pontoon of Length:- 25mts., Width:- 9.0mts.,and Height:- 1.9 mts.,) 01 No. each of Offshore Patrol Vessel (OPV) or Landing Craft Utility (LCU). Alternatively, 02 Nos. each of Fast Attack Craft (FAC) or Inshore Patrol Vessel (IPV) or Fast Patrol Vessel (FPV) at Ganga Jetty of Main Unit(Ganga Jetty's Length:- 75 mts., with Pontoon of Length:- 25mts., Width:- 9.0mts.,and Height:- 1.9 mts.,)	< 160	24.00	4.00	
			< 180	< 29	4.00	
			≤50	≤8	4.00	
			≤50	≤8	4.00	
			180.00	24.00	4.00	
			180.00	24.00	4.00	
			180.00	24.00	4.00	
			80.00	11.00	4.00	
			80.00	11.00	4.00	
			80.00	11.00	4.00	
			80.00	11.00	4.00	
			80.00	11.00	4.00	
4	Goa Shipyard Ltd.	Advanced Offshore Petrol Vessels (APOV), Fast Patrol Vessels (FPV), Fast Attack Crafts (XFAC), Survey Vessels (HSV), Sail Training Ships (STS), Missile Crafts, Frigates, Landing Crafts, Tugs, Dredgers, Launchers, Passenger Ferries, Fishing Vessels, GRP boats and other medium sized sophisticated vessels	135.00	25.00	5.50	4.5
5	Hindustan Shipyard Ltd.	Cargo Vessels, Passenger Vessel, Tugs, OPVs, Dredgers, Naval Ships, Floating Docks, Oil Tankers, Fishing Trawlers, Submarine Retrofit.	220.00	32.20	18.00	80.00
6	Hooghly Dock & Port Engineer Ltd.**	NIL				

Table No. 2.1 contd.

Company-wise Ship Repairing Capacity
(As on 31st March, 2022)

Sl. No.	Name of the company	Type of Vessels/Ships	Ship repair capacity/Maximum size capacity			
			Length	Width	Draft	DWT
			(Mts.)	(Mts.)	(Mts)	(in thousand)
1	2	3	4	5	6	7
7	Mazagaon Dock Shipbuilders Ltd.	Warships	200.00	18.00	5.50	-
		Merchant Ships	200.00	18.00	5.50	-
		Medium Refit with Life Certification	70.00	6.50	5.50	-
8	Shalimar Works Ltd.	Survey Vessels	55.00	11.00	3.00	0.07
		Ro-Ro Vessels, Passenger Vessels	27.00	11.00	1.50	0.09
B.	PRIVATE SECTOR (Contd.)					
9	Abhishek Engineers**	Ore Carriers, Barges, IV	70.00	14.00	4.20	2.40
		Dredgers	36.00	12.00	2.00	N.A
		Tugs and Other Crafts	20.00	5.00	2.00	N.A
10	A.C. Roy & Co. Ltd.	Launch	25.00	7.00	2.00	0.03
		Barge	60.00	16.00	3.50	2.00
		Tug	20.00	6.00	2.00	0.03
11	A.H. Wadia Boat Builders					
12	A.S. Moloobhoy Pvt Ltd. @					
13	Bristol Boats Pvt. Ltd.	Various FRP crafts, life Boats and Rescue Boats	20.00	5.00	4.00	0.05
14	Chidambarm Shipcare Pvt. Ltd.	N.A				
15	Chowgule & Company Pvt. Ltd.	N.A				
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	MBC - Sea going, RSV, container.	80.00	16.00	1.80	3.00
		Barges - Sea Going, RSV, Containers, Tankers, MPV, Crane Barges, Passengers, Ferries, Split Barges, Ro-Ro Vessels, Spud Pontoon, Jackup Barges	80.00	16.00	1.80	2.50
		Tugs - Sea Going, IV, RSV, Dredgers, AHTS	80.00	16.00	1.80	N.A
17	Equiptrans Logistics Pvt. Ltd**	MBC	120.00	20.00	3.50	8.0
		Tug	55.00	14.00	3.50	0.8
18	Ferromar Shipping Pvt. Ltd.	Inland Vessel	70.00	13.00	1.20	2.00
		Coastal Vessel	100.00	13.00	1.30	2.50
19	M/s Glory Shipmanagement Pvt. Ltd.	Mini Bulk Carrier, Tugs, Offshore Patrol Vessels, Barges, Anchor Handling Tugs, Platform Supply Vessels	101.00	18.00	5.00	
20	High Seas Shipping Associates	NIL				
21	Homa Engineering Works	Repair all class of vessels, but do not have own dry dock and wet basin facility				
22	M/s Island Ship Repairers	Interceptor Boats of Indian Coast Guard and Navy	28.4	6.6	1.55	N.A
		Fast Patrolling vessels of Indian Coast Guard and Navy	50	7.6	1.5	N.A
23	JITF Shipyard Ltd	Cargo	78	14	3.5	2.71
24	KSINC	Cargo	38	9.5	1.8	0.3
		Tanker	38	9.5	1.8	0.3
		RoRo	38	9.5	1.8	0.05
25	L&T Shipbuilding Ltd	Any type of Commercial/ Defence Vessels upto a length of 200 mtr. and beam of 46 mtr.				
26	Mandovi Drydocks	Bulk Carrier	80	15.00	3.00	5.0
27	Marine Care 'N'Associates	Indian Coast Guard Ships	140.00	18.00	5.60	NIL
28	Marine Frontiers Pvt. Ltd.	All type of Boats	60.00	10.00	4.00	0.15

Table No. 2.1 (Contd.)

**Company-wise Ship Repairing Capacity
(As on 31st March, 2022)**

Sl. No.	Name of the company	Type of Vessels/Ships	Ship repair capacity/Maximum size capacity			
			Length	Width	Draft	DWT
			(Mts.)	(Mts.)	(Mts.)	(in thousand)
1	2	3	4	5	6	7
29	Modest Infrastructure Pvt. Ltd.	General Cargo	99.00	18.00	4.50	6.00
		Tug	33.00	11.50	4.10	Bollard Pull - 65 T
		Survey Vessel	42.18	8.53	3.96	NIL
		OSV	59.20	15.00	2.50	NIL
		Cement Carrier	97.00	17.00	4.20	4.00
		Product Tanker	75.00	13.00	5.60	3.30
		Dry Bulk Carrier	82.00	14.00	4.20	4.20
		Container Carrier	67.20	12.80	3.20	94 TEU
		Ferry Craft	62.10	9.40	2.00	0.80
		Grab Hooper Dredger	44.14	10.00	2.80	0.75
		Ammunition cum Torpedo cum Missile Non Propelled Barge	25.25	8.50	1.71	0.12
30	N N Shipbuilders and	Small crafts	50.00	12.00	5.00	0.10
31	Patra Shipping Pvt. Ltd	Dredger	95.00	12.00	3.50	
		Floating Crane	55.00	24.00	3.37	
		Tug	80.00	14.00	2.00	
32	Reliance Naval & Engineering Ltd. @					
33	Roshini Ship Repairs and Engineers	ICGS	25.50	6.20	1.30	0.02
34	San Marine	OSV	41.80	10.00	3.90	0.48
		Crane Barge	50.00	15.00	2.00	0.65
		SPUD Barge	38.00	16.00	2.30	0.55
		Fresh Water Barge	28.00	8.50	3.00	0.35
		Tugs	23.26	8.00	3.20	0.11
		Tugs	24.50	7.80	3.20	
35	Sea Blue Shipyard Ltd.	Patrol Vessels	94.00	12.20	3.60	0.30
		Research Vessels	65.00	11.98	3.10	0.41
		Dredger	65.00	12.50	2.00	0.55
		Tug Boat	48.00	12.50	4.50	0.54
		Dry Cargo Vessels	55.00	11.00	3.30	0.25
		Water/ OIL/ Ro RO Barge	54.00	10.00	2.00	0.30
		Passenger Vessels	50.90	11.60	2.10	0.15
		Jankar	35.00	10.00	2.50	0.28
36	Sembmarine Kakinada Ltd @					
37	Shoft Shipyard Pvt. Ltd.	Barges	100.00	34.00	3.00	3.00
		Cargo Ships	90.00	20.00	3.50	2.80
		Passenger Ships/ Crafts	90.00	20.00	3.50	1.50
		Barges/ Work Boats	70.00	14.00	2.50	1.50
		Tugs/ Dredgers etc.	40.00	10.00	3.50	N.A
		Naval Ships like OPV, TRV, Survey vessel, Auxiliary Crafts, IB etc.	100.00	20.00	3.00	0.90
38	Udupi Cochin Shipyard Ltd/ Tebma Shipyard Ltd \$	TUG, AHTS	48.00	14.00	5.00	2.10
		Barges Mini Bulk Carrier	120.00	20.00	3.00	2.50
		PSV	80.00	20.00	6.00	2.00
39	Timblo Drydocks Pvt. Ltd.**	Tugs, Fishing Trawlers	70.00	14.00	1.50	2.50
		Oil Tankers Bulk Carrier, Dredgers etc.	70.00	14.00	1.50	2.50
40	Titagarh Wagons Ltd.	NIL				
41	Vijai Marine Shipyards**	Tankers	75.00	14.50	2.20	2.50
		Cargo	75.00	14.50	2.20	2.50
		Passangers	75.00	14.50	2.20	0.20
42	West Coast Shipyard Ltd.**	Barges	73.00	16.00	2.20	N.A
		Passenger Vessels	82.00	14.00	3.94	2.95
		Goa Tourism Vessels	30.00	8.00	1.20	N.A
43	Waterways Shipyard Pvt. Ltd.	All Types	130.00	30.00	3.00	8.00

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 2.2

Ship Repairing Capacity-By Company and Maximum Size (2019-2022)

(DWT in thousand)

S.No	Name of The Company	As on 31st March			
		2019	2020	2021	2022
1	2	3	4	5	6
	A. PUBLIC SECTOR				
1	Alcock Ashdown (Gujarat) Ltd. @	No Repair			
2	Cochin Shipyard Ltd.	125.00	125.00	125.00	125.00
3	Garden Reach Shipbuilders & Engineers Ltd.	NIL	NIL	NIL	NIL
4	Goa Shipyard Ltd.	4.50	4.50	4.50	4.50
5	Hindustan Shipyard Ltd.	80.00	80.00	80.00	80.00
6	Hooghly Dock & Port Enginers Ltd.**	NIL	NIL	NIL	
7	Mazagaon Dock Shipbuilders Ltd.	30.00	40.00	N.A	N.A
8	Shalimar Works Ltd.	0.07	0.09	0.09	0.09
	B. PRIVATE SECTOR				
9	Abhishek Engineers**			2.40	
10	A.C Roy & Comp. Ltd.	2.00	2.00	2.00	2.00
11	A.H. Wadia Boat Builders			0.02	-
12	A.S. Moloobhoy Pvt. Ltd. @	N.A			
13	Bristol Boats Pvt. Ltd.	0.05	0.05	0.05	0.05
14	Chidambaram Shipcare Pvt. Ltd.	N.A	N.A	N.A	N.A
15	Chowgule & Co. Pvt. Ltd.	12.41	12.00	N.A	N.A
16	Dempo Shipbuilding & Engineering Pvt. Ltd.	3.00	3.00	3.00	3.00
17	Equiptrans Logistics Pvt. Ltd**			8.00	
18	Ferromar Shipping Pvt. Ltd.	2.50	2.50	2.50	2.50
19	M/s Glory Shipmanagement Pvt. Ltd.			N.A	N.A
20	High Seas Shipping Associates			0.30	NIL
21	Homa Engineering Works	Repair all class of vessels, but do not have own dry dock and wet basin facility			
22	M/s Island Ship Repairers				N.A
23	JITF Shipyard Ltd		2.71	2.71	2.71
24	KSINC			0.30	0.30
25	L&T Shipbuilding Ltd	*	*		*
26	Mandovi Drydocks	72 GT	2.00	5.00	5.00
27	Marine Care 'N' Associates		N.A	N.A	N.A
28	Marine Frontiers Pvt. Ltd.	0.15	0.15	0.15	0.15
29	Modest Infrastructure Pvt. Ltd.	6.00	6.00	6.00	6.00
30	N N Shipbuilders and Engineers Pvt Ltd	N.A	N.A	2.00	0.10
31	Patra Shipping Pvt. Ltd				N.A
32	Reliance Naval & Engineering Ltd. @	400.00			
33	Roshini Ship Repairs and Engineers				0.02
34	San Marine		7.80	7.80	0.65
35	Sea Blue Shipyard Ltd.		0.55	0.55	0.55
36	Sembmarine Kakinada Ltd @	54.00	54.00		
37	Shoft Shipyard Pvt. Ltd.	2.00	2.00	3.00	3.00
38	Udupi Cochin Shipyard Ltd/ Tebma Shipyard Ltd \$	2.50	2.50		2.50
39	Timblo Drydocks Pvt. Ltd.**	5.60	2.50		
40	Titagarh Wagons Ltd.	N.A	N.A	N.A	N.A
41	Vijai Marine Shipyards**	2.50	2.50	2.50	
42	West Coast Shipyard Ltd.**	2.20	2.20	2.95	
43	Waterways Shipyard Pvt. Ltd.	N.A	N.A	N.A	8.00

* Any type of Commercial/ Defence Vessels upto a length of 200 mtr. And beam of 46 mtr.

** No information is received for 2021-22

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 2.3

Ship Repairing Facilities-Company-Wise for Dry Docks and Wet Docks (As on 31st March, 2022)

Sl. No.	Name of Company	Dry Dock Owned Capacity					Wet Docks/Basin Owned Capacity				
		No.	Length (Mtrs.)	Width (Mtrs.)	Draft (Mtrs.)	DWT (in thousand tons)	No.	Length (Mtrs.)	Width (Mtrs.)	Draft (Mtrs.)	DWT (in thousand tons)
		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
A.	PUBLIC SECTOR										
1	Alcock Ashdown (Gujarat) Ltd. @										
2	Cochin Shipyard Ltd.	8	270.0	45.0	12.0	125.0	N.A	N.A	N.A	N.A	N.A
3	Garden Reach Shipbuilders & Engineers Ltd.	1	160.0	25.0	8.0	N.A	1	109.0	23.0	8.0	N.A
		1	180.0	29.0	12.0	N.A	N.A	N.A	N.A	N.A	N.A
		1	158.0	18.0	8.0	N.A	N.A	N.A	N.A	N.A	N.A
		1	179.0	27.20/12.34	6.46	N.A	N.A	N.A	N.A	N.A	N.A
4	Goa Shipyard Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
5	Hindustan Shipyard Ltd.	1	244.0	38.0	11.5	80.0	1	226.0	73.0	10.0	50.0
		1	168.0	73.0	10.0						30.0
6	Hooghly Dock & Port Engineers Ltd.**	NIL									
7	Mazagaon Dock Shipbuilders Ltd.	1	41.15	10.06	2.75	N.A	1	274.0	26.2	9.1	N.A
		1	216.00	18.90	5.49						
		1	129.87	16.76	4.89		1	225.0	112.0	6.0	
		1	89.93	17.00	5.00						
8	Shalimar Works Ltd.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
B.	PRIVATE SECTOR										
9	Abhishek Engineers**	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
10	A.C. Roy & Co. Ltd.	N.A	N.A	N.A	N.A	N.A	2	50.0	18.0	3.0	2.0
11	A.H. Wadia Boat Builders	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
12	A.S. Moloobhoy Pvt. Ltd. @										
13	Bristol Boats Pvt. Ltd.	1	25.0	8.0	1.5	0.05	N.A	N.A	N.A	N.A	N.A
14	Chidambaram Shipcare Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
15	Chowgule & Co. Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	2	90.0	18.0	1.8	3.0	N.A	N.A	N.A	N.A	N.A
17	Equiptrans Logistics Pvt. Ltd.**	1	122.0	23.0	4.5	4.0	1	82	32	5	N.A
18	Ferromar Shipping Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	3	100.0	13.0	3.2	2.5
19	M/s Glory Shipmanagement Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	1	101.0	18.0	5.0	
20	High Seas Shipping Associates	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
21	Homa Engineering Works	Do not have their own Dry Dock and Wet Basin facility									
22	M/s Island Ship Repairers Ltd	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
23	JITF Shipyard Ltd	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
24	KSINC	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
25	L&T Shipbuilding Ltd	6	115-210	-	-	-	4	200-260	-	10.0	-
26	Mandovi Drydocks	2	80	16	2.5	5.00	N.A	N.A	N.A	N.A	N.A
27	Marine Care'N' Associates	1	140.24	18.28	5.6	3.00	1	65	21	6	0.35
28	Marine Frontiers Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
29	Modest Infrastructure Pvt. Ltd.	2	95.0	16.0	3.5	3.5		NIL	NIL	NIL	NIL
			120.0	21.0	4.5	6.0		NIL	NIL	NIL	NIL
30	N N Shipbuilders and Engineers Pvt Ltd	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
31	Patra Shipping Pvt. Ltd	1	120	25	4.5	-	1	70	25	3	-
32	Reliance Naval and Engineering Ltd. @										
33	Roshini Ship Repairs and Engineers	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
34	San Marine	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
35	Sea Blue Shipyard Ltd	1	60	14	4	1.56	1	94	15	6	1.08
36	Sembmarine Kakinada Ltd @										
37	Shoft Shipyard Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	The outfitting jetty/Berth is located between slipway 1&2 as well as slipway 2&3. The vessels are kept afloat all the time with berthing Pontoons rigidly connected to the shore. Vessels of length upto 100 mts. With draft upto 5.5 mts can be kept afloat even during lowest of low tide. The vessels can also be berth side by side. the length is about 540 mts.			
38	Udupi Cochin Shipyard Ltd/ Tebma Shipyard Ltd \$										
39	Timblo Drydocks Pvt. Lt. **	1	N.A	N.A	N.A	N.A	1	N.A	N.A	N.A	N.A
40	Titagarh Wagons Ltd.	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
41	Vijai Marine Shipyards**	1	75	16	2.2	2.9	N.A	N.A	N.A	N.A	N.A
42	West Coast Shipyard Ltd.**	1	130	20	5.2	N.A	N.A	N.A	N.A	N.A	N.A
		1	73	16	2.2	N.A	N.A	N.A	N.A	N.A	N.A
43	Waterways Shipyard Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	1	100	15	3	8.00

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 2.3a

**Company-wise Ship Repairing Facilities
(As On 31st March, 2022)**

Sl. No.	Name of Company	Other repairing facilities					
		Item	Nos.	Capacity			
				Length (Mtrs.)	Width (Mtrs.)	Draft (Mtrs.)	DWT (in thousand tons)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
A.	<u>PUBLIC SECTOR</u>						
1	Alcock Ashdown (Gujarat) Ltd. @						
2	Cochin Shipyard Ltd.	Slipways	5	50	8		
		Berths	10	3566 (Total)			
		Ship Lift (under construction)	6	130	25		
3	Garden Reach Shipbuilding and Engineers Ltd.	Naval Jetty At FOJ unit	1	229.0	10.0	8.0	N.A
		Finger Jetty-1 at FOJ unit	1	184.5	11.5	7.0	N.A
		Finger Jetty-2 at FOJ unit	1	184.5	11.5	7.0	N.A
		River Jetty -Ganga	1	25.0	9.0	1.9	N.A
		River Jetty-Hoogly	1	25.0	9.0	1.9	N.A
		River Jetty-Canteen	1	13.5	4.5	1.0	N.A
		River Jetty-Bargepuri	1	12.5	4.5	1.0	N.A
		River Jetty-Dolphin 1	1	25.0	9.0	4.5	N.A
		River Jetty-West Jetty	1	25.0	9.0	4.5	N.A
4	Goa Shipyard Ltd.	Repair Berth-1	1	130.0	29.5	N.A	N.A
		Repair Berth-2	1	130.0	30	N.A	N.A
		Construction Berth 3	1	136.0	42.5	N.A	N.A
		Construction Berth 4	1	136.0	44.0	N.A	N.A
		Shiplift	1	120.0	25.0	N.A	6.0
		New Jetty	1	250.0	16.0	5.5	N.A
		Outfit & Commissioning Jetty	1	105.0	17.0	5.5	N.A
		Berthing Jetty alongside the construction berth 3	1	136.0	N.A	5.5	N.A
		Ship Assembly Workshop-1 (SAW-1)	1	126.0	35.0	36	N.A
		Ship Assembly Workshop-2 (SAW-2)	1	126.0	35.0	36	N.A
		New construction Bay	1	96.5	26.0	14.1	N.A
		Slipway	1	119.0	22.0	4	1.0
5	Hindustan Shipyard Ltd.	Dolphin Jetty	1	150.0	N.A	8	N.A
6	Hooghly Dock & Port Engineers Ltd.**	NIL					
7	Mazagaon Dock Shipbuilders Ltd.	South Yard 1	1	188	26	N.A	N.A
		South Yard 2	1	188	26	N.A	N.A
		North Yard	1	190	29	N.A	N.A
8	Shalimar Works Ltd.	Kuccha Basin	2	N.A	N.A	N.A	N.A
		Fitting out jetty	1	N.A	N.A	N.A	N.A

Table No. 2.3a(Contd...)

**Company-wise Ship Repairing Facilities
(As On 31st March, 2022)**

Sl. No.	Name of Company	Other repairing facilities					
		Item	Nos.	Capacity			
				Length (Mtrs.)	Width (Mtrs.)	Draft (Mtrs.)	DWT (in thousand tons)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
B. PRIVATE SECTOR							
9	Abhishek Engineers**	Slipway	1	75	14.0	1.8	0.6
10	A.C. Roy & Company Ltd.	N.A	N.A	N.A	N.A	N.A	N.A
11	A.H. Wadia Boat Builders	NIL	NIL	NIL	NIL	NIL	NIL
12	A.S. Moloobhoy Pvt. Ltd. @						
13	Bristol Boats Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A
14	Chidambaram Shipcare Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A
15	Chowgule & Co. Pvt. Ltd	N.A	N.A	N.A	N.A	N.A	N.A
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	Slipway	1	120.0	20	1.2	2.5
		Jetty	2	70.0	N.A	N.A	N.A
			1	80.0	N.A	N.A	N.A
17	Equiptrans Logistics Pvt. Ltd**	N.A	N.A	N.A	N.A	N.A	N.A
18	Ferromar Shipping Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A
19	M/s Glory Shipmanagement Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A
20	High Seas Shipping Associates	N.A	N.A	N.A	N.A	N.A	N.A
21	Homa Engineering Works	N.A	N.A	N.A	N.A	N.A	N.A
22	M/s Island Ship Repairers	Do not possess own dry docks however, hire Government dry docks to carry out repairs of the vessels. Have all the workshop facilities for to meet the requirements of Ship Repairing activities.					
23	JITF Shipyard Ltd	Slipway/ Jetty	1	100	15	N.A	N.A
24	KSINC	Slipway	1	38	38	9.5	0.3
25	L&T Shipbuilding Ltd	Shiplift	1	200-260	46.0	8.0	21.1
26	Mandovi Drydocks	N.A	N.A	N.A	N.A	N.A	N.A
27	Marine Care 'N' Associates	N.A	N.A	N.A	N.A	N.A	N.A
28	Marine Frontiers Pvt. Ltd.	N.A	1.00	50.00	10.50	8.00	0.15
29	Modest Infrastructure Pvt. Ltd.	NIL	NIL	NIL	NIL	NIL	NIL
30	N N Shipbuilders and Engineers Pvt Ltd	Slipways	3	60.0	15.0	4.0	0.10
31	Patra Shipping Pvt. Ltd	NIL	NIL	NIL	NIL	NIL	NIL
32	Reliance Naval and Engineering Ltd. @						
33	Roshini Ship Repairs and Engineers	N.A	N.A	N.A	N.A	N.A	N.A
34	San Marine	Jetty yards	2	90.0	50.0	NIL	8.4
35	Sea Blue Shipyard Ltd	N.A	N.A	N.A	N.A	N.A	N.A
36	Sembmarine Kakinada Ltd @						
37	Shoft Shipyard Pvt. Ltd.	Other (specific)- Slipway	3	100.00	18.00	2.50	N.A
				150.00	22.00	3.50	N.A
				135.00	36.00	3.00	N.A
38	Udupi Cochin Shipyard Ltd/ Tebma Shipyard Ltd \$						
39	Timblo Drydocks Pvt. Ltd.**	N.A	N.A	N.A	N.A	N.A	N.A
40	Titagarh Wagons Ltd.	N.A	N.A	N.A	N.A	N.A	N.A
41	Vijai Marine Shipyards**	Slipway	1.00	118.00	18.00	2.80	2.50
42	West Coast Shipyard Ltd.**	N.A	N.A	N.A	N.A	N.A	N.A
43	Waterways Shipyard Pvt. Ltd.	N.A	N.A	N.A	N.A	N.A	N.A

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 2.4

No. Of Ships Repaired And Earnings, Company-wise - (2018-19 to 2021-22)

(Rs. in Lakhs)

S.No	Name of The Company	Year	Indian Vessels		Foreign Vessels		Total	
			No.	Earnings	No.	Earnings	No.	Earnings
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	A. PUBLIC SECTOR (Total)	2021-22	156	132385.42	5	3093.34	161	135478.76
		2020-21	138	118915.61	3	568.74	141	119484.35
		2019-20	145	89511.70	0	0.00	146	89815.55
		2018-19	363	113159.60	0	0.00	365	113166.60
	Alcock Ashdown (Gujarat) Ltd. @	2021-22					0	0.00
		2020-21					0	0.00
		2019-20					0	0.00
		2018-19	NIL	NIL	NIL	NIL	0	0.00
	Cochin Shipyard Ltd.	2021-22	99	67088.51	1	164.20	100	67252.71
		2020-21	94	39025.33	3	535.74	97	39561.07
		2019-20	98	56222.00	1	291	99	56513.00
		2018-19	329	83197.46	NIL	NIL	329	83197.46
	Garden Reach Shipbuilders and Engineers Ltd.	2021-22	2	52.68	2	2437.90	4	2490.58
		2020-21	No Merchant Ships were repaired during 2020-21				0	0.00
		2019-20	No Merchant Ships were repaired during 2019-20				0	0.00
		2018-19	NIL	NIL	NIL	NIL	0	0.00
	Goa Shipyard Ltd.	2021-22	33	18904.09	N.A	110.24	33	19014.33
		2020-21	31	15415.00	NIL	33.00	31	15448.00
		2019-20	30	11876.19	NIL	13	30	11889.04
		2018-19	22	19825.96	NIL	NIL	22	19825.96
	Hindustan Shipyard Ltd.	2021-22	12	6845.00	2	381.00	14	7226.00
		2020-21	6	21174.16	0	0.00	6	21174.16
		2019-20	13	5410.37	0	0.00	13	5410.37
		2018-19	12	7454.18	1	7	13	7461.18
	Hooghly Dock & Port Engineers Ltd.**	2021-22					0	0.00
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	NIL	NIL	NIL	NIL	0	0.00
		2018-19	NIL	NIL	NIL	NIL	0	0.00
	Mazagaon Dock Shipbuilders Ltd.	2021-22	6	39368.17	NIL	NIL	6	39368.17
		2020-21	4	43263.00	NIL	NIL	4	43263.00
		2019-20	1	15893.00	NIL	NIL	1	15893.00
		2018-19	1	2682.00	NIL	NIL	1	2682.00
	Shalimar Works Ltd.	2021-22	4	126.97	NIL	NIL	4	126.97
		2020-21	3	38.12	NIL	NIL	3	38.12
		2019-20	3	110.14	NIL	NIL	3	110.14
		2018-19	0	0.00	NIL	NIL	0	0.00
2	B. PRIVATE SECTOR (Total)	2021-22	157	8188.28	1	278.10	158	8466.38
		2020-21	211	8308.07	24	173.67	235	8481.74
		2019-20	281	42675.19	51	961.79	332	43636.98
		2018-19	302	21972.72	39	1029.13	341	23001.85
	Abhishek Engineers**	2021-22			NIL	NIL	0	0.00
		2020-21	6	150.00	NIL	NIL	6	150.00
	A.C.Roy & Co. Ltd.	2021-22	5	199.00	NIL	NIL	5	199.00
		2020-21	8	420.00	NIL	NIL	8	420.00
		2019-20	7	534.00	NIL	NIL	7	534.00
		2018-19	12	65.00	NIL	NIL	12	65.00
	A.H. Wadia Boat Builders	2021-22	0	0.00	0	0	0	0.00
		2020-21	0	0.00	0	0	0	0.00
	A.S. Moloobhoy Pvt. Ltd. @	2021-22						
		2020-21						
		2019-20						
		2018-19	NIL	NIL	NIL	NIL	0	0.00
	Bristol Boats Pvt. Ltd	2021-22	3	35.79	NIL	NIL	3	35.79
		2020-21	2	1.39	NIL	NIL	2	1.39
		2019-20	2	51.34	NIL	NIL	2	51.34
		2018-19	4	51.12	NIL	NIL	4	51.12
	Chidambaram Shipcare Pvt. Ltd.	2021-22		272.90		233.81	0	506.71
		2020-21	82	721.64	21	162.79	103	884.42
		2019-20	80	333.02	44	76.52	124	409.54
		2018-19	130	818.08	30	143.86	160	961.94

Table No. 2.4 (Contd...)

No. Of Ships Repaired And Earnings, Company-wise - (2018-19 to 2021-22)

(Rs.in Lakhs)

S.No	Name of The Company	Year	Indian Vessels		Foreign Vessels		Total	
			No.	Earnings	No.	Earnings	No.	Earnings
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
15	Chowgule & Co. Pvt. Ltd.	2021-22	3	446.34	NIL	NIL	3	446.34
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	48	17005.26	NIL	NIL	48	17005.26
		2018-19	54	82.00	NIL	NIL	54	82.00
16	Dempo Shipbuilding & Engineering Pvt. Ltd.	2021-22	40	623.41	NIL	NIL	40	623.41
		2020-21	26	513.21	NIL	NIL	26	513.21
		2019-20	37	562.83	NIL	NIL	37	562.83
		2018-19	15	900.86	NIL	NIL	15	900.86
17	Equiptrans Logistics Pvt. Ltd**	2021-22					0	0.00
		2020-21	21	678.39	NIL	NIL	21	678.39
18	Ferromar Shipping Pvt. Ltd.	2021-22	NIL	NIL	NIL	NIL	0	0.00
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	NIL	NIL	NIL	NIL	0	0.00
		2018-19	NIL	NIL	NIL	NIL	0	0.00
19	M/s Glory Shipmanagement Pvt. Ltd.	2021-22	8	266.73	NIL	NIL	8	266.73
		2020-21	4	177.29	NIL	NIL	4	177.29
20	High Seas Shipping Associates	2021-22	40	986.77	NIL	NIL	40	986.77
		2020-21	2	76.76	NIL	NIL	2	76.76
21	Homa Engineering Works	2021-22					0	0.00
		2020-21	1	452.12	NIL	NIL	1	452.12
		2019-20	4	1792.49	NIL	NIL	4	1792.49
		2018-19	2	NIL	NIL	NIL	2	0.00
22	M/s Island Ship Repairers Ltd	2021-22	3	605.96	NIL	NIL	3	605.96
23	JITF Shipyard Ltd	2021-22	8	50.24	NIL	NIL	8	50.24
		2020-21	10	236.48	NIL	NIL	10	236.48
		2019-20	15	172.72	NIL	NIL	15	172.72
24	KSINC	2021-22	1	14.00	NIL	NIL	1	14.00
		2020-21	1	14.00	NIL	NIL	1	14.00
25	L&T Shipbuilding Ltd	2021-22					0	0.00
		2020-21			NIL	NIL	0	0.00
		2019-20	8	10385.01	NIL	NIL	8	10385.01
		2018-19	10	10932.17	NIL	NIL	10	10932.17
26	Mandovi Drydocks	2021-22	14	469.00	NIL	NIL	14	469.00
		2020-21	13	461.00	NIL	NIL	13	461.00
		2019-20	21	1097.18	NIL	NIL	21	1097.18
		2018-19	7	143.70	NIL	NIL	7	143.70
27	Marine Care 'N' Associates	2021-22	2	286.00	NIL	NIL	2	286.00
		2020-21	8	987.00	NIL	NIL	8	987.00
		2019-20	2	987.00	NIL	NIL	2	987.00
28	Marine Frontiers Pvt. Ltd.	2021-22	NIL	NIL	NIL	NIL	0	0.00
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	6	88.25	NIL	NIL	6	88.25
		2018-19	6	40.83	NIL	NIL	6	40.83
29	Modest Infrastructure Pvt. Ltd.	2021-22	7	1931.50	NIL	NIL	7	1931.50
		2020-21	6	1686.63	NIL	NIL	6	1686.63
		2019-20	4	937.44	NIL	NIL	4	937.44
		2018-19	4	263.50	NIL	NIL	4	263.50
30	N N Shipbuilders and Engineers Pvt. Ltd.	2021-22	NIL	NIL	NIL	NIL	0	0.00
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	NIL	NIL	NIL	NIL	0	0.00
		2018-19	NIL	NIL	NIL	NIL	0	0.00
31	Patra Shipping Pvt. Ltd	2021-22						
32	Reliance Naval & Engineering Ltd. @	2021-22					0	0.00
		2020-21					0	0.00
		2019-20					0	0.00
		2018-19	2	1775.97	NIL	NIL	2	1775.97
33	Roshini Ship Repairs and Engineers	2021-22	4	186.82	NIL	NIL	4	186.82
34	San Marine	2021-22	NIL	NIL	NIL	NIL	0	0.00
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	0	0	0	0	0	0.00
35	Sea Blue Shipyard Ltd	2021-22	15	1863.77	1	44.29	16	1908.06
		2020-21	15	1247.72	3	10.88	18	1258.60
		2019-20	14	1553.08	NIL	NIL	14	1553.08
36	Sembmarine Kakinada Ltd @	2021-22					0	0.00
		2020-21					0	0.00
		2019-20	19	6219.37	7	885.27	26	7104.64
		2018-19	19	6219.37	7	885.27	26	7104.64

Table No. 2.4 (Contd...)

No. Of Ships Repaired And Earnings, Company-wise - (2018-19 to 2021-22)

(Rs.in Lakhs)

		(Rs.in Lakhs)						
S.No	Name of The Company	Year	Indian Vessels		Foreign Vessels		Total	
		No.	Earnings	No.	Earnings	No.	Earnings	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
37	Shoft Shipyard Pvt. Ltd.	2021-22	4	136.88	NIL	NIL	4	136.88
		2020-21	4	435.34	NIL	NIL	4	435.34
		2019-20	3	218.48	NIL	NIL	3	218.48
		2018-19	5	501.40	NIL	NIL	5	501.40
38	Udupi Cochin Shipyard Ltd/ Tebma Shipyard ltd \$	2021-22	0	0.00	0.00	0.00	0	0.00
		2020-21					0	0.00
		2019-20	3	45.88	NIL	NIL	3	45.88
		2018-19	14	89	NIL	NIL	14	88.93
39	Timblo Drydocks Pvt. Ltd. **	2021-22					0	0.00
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	NIL	NIL	NIL	NIL	0	0.00
		2018-19	NIL	NIL	NIL	NIL	0	0.00
40	Titagarh Wagons Ltd.	2021-22	NIL	NIL	NIL	NIL	0	0.00
		2020-21	NIL	NIL	NIL	NIL	0	0.00
		2019-20	NIL	NIL	NIL	NIL	0	0.00
		2018-19	NIL	NIL	NIL	NIL	0	0.00
41	Vijai Marine Shipyards**	2021-22					0	0.00
		2020-21	1	35.03	NIL	NIL	1	35.03
		2019-20	6	602.05	NIL	NIL	6	603.37
		2018-19	16	NIL	2	NIL	18	0.00
42	West Coast Shipyard Ltd.**	2021-22					0	0.00
		2020-21	1	14.09	NIL	NIL	1	14.09
		2019-20	2	89.79	NIL	NIL	2	89.79
		2018-19	2	89.79	NIL	NIL	2	89.79
43	Waterways Shipyard Pvt. Ltd.	2021-22	NIL	NIL	NIL	NIL	NIL	NIL
		2020-21	N.A	N.A	N.A	N.A	N.A	N.A
C. Grand Total (A + B)		2021-22	313	140573.70	6	3371.44	319	143945.14
		2020-21	349	127223.68	27	742.41	376	127966.09
		2019-20	426	132186.89	51	961.79	478	133148.68
		2018-19	665	135132.32	39	1029.13	706	136161.45

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

* Includes expenditure on others

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Table No. 2.5

Dry Dock & Ship Repairing Facilities at Major Ports 2021-22 (P)

Name of Ports		No. of Dry Docks and their Size	No. of Work-shops	No. of Cranes & Capacity	No. of Vessels Repaired during 2021-22	No. of days at Dry Dock Occupancy during 2021-22
1		2	3	4	5	6
Chennai		No dry dock facility available in Chennai Port.				
Cochin		Cochin Port Trust has leased out its dry dock for 30 years to Cochin Shipyard Ltd. On 11.4.2013, and as such no dry dock hire charges have been collected by this Port in 2021-22.				
Deendayal Port Trust		<u>One</u> Length : 95mtrs.+ 4.5mtrs. Extended platform each at FWD and AFT ends Width : 20 mtrs. Depth : 5.5 mtrs.	1. One owned by Port. 2. Full fledge private workshops are also available	<u>One</u> 5 MT	31	341
SMP, Haldia		There is no dry dock facility at Haldia Dock Complex.				
JNPT		NIL				
Kamarajar		The dry dock facility is not available at Port.				
SMP, Kolkata**	NSDD-1	E*-(178X32.3X14.32) B@-(165.2X27.43X14.32)		2 Nos. 3T/6T, 1 No. 3T		
	NSDD-2	E-(182.88X32.3X14.32) B-(170.08X27.43X14.32)				
	KPDD-1	E-(166.72X21.23X7.62) B-(163.98X20.39X7.62)		1 No. 5T		
	KPDD-2	E-(151.48X21.233X7.46) B-(148.8X20.57X7.46)		1 No. 7T		
	KPDD-3	E-(106.68X18.28X7.31) B-(102.87X17.44X7.31)				
Mormugao Port Trust		NIL				
Mumbai		<u>One</u> Length : 1000 ft. Breadth : 100 ft. Depth : 44 ft.	Not available with the Port			
NMPT		NIL				
Paradip		One Length : 75 M Breadth : 15 M Depth : 6 M	1	NA	19	346
Visakhapatnam**		<u>One</u> Length : 140.24 mtrs. Breadth : 18.28 mtrs. Depth : 5.6 mtrs.	0	<u>One</u> 4 T	6	119
V.O.Chidambaranar		Dry Dock Facility not available				

E*: Entry Level

B@: Bottom Level

(P): Provisional

** No information is received for 2021-22

Table No. 2.6

Dry Dock Hire Charges Existing at Major Ports

Name of Ports	Dry Dock Hire Charges for different sizes of vessels					
1	2					
Cochin	Cochin Port Trust has leased out its dry dock for 30 years to Cochin Shipyard Ltd. on 11.4.2013, and hence no dry dock hire charges in 2020-21.					
Chennai	No Dry Dock facility available					
Deendayal Port Trust/ Kandla	Rate Per Vessel					
	Craft up to 30 mtrs		Craft between 30 to 60 mtrs		Craft above 60 mtrs	
Particulars	Coastal Vessel (in Rs.)	Foreign going vessel (in US \$)	Coastal Vessel (in Rs.)	Foreign going vessel (in US \$)	Coastal Vessel (in Rs.)	Foreign going vessel (in US \$)
Docking & undocking the vessel including 1st day hire and cleaning of dry dock	137547.27	5563.68	164888.87	6670.27	192371.88	7782.00
Dry dock hire from 2nd day to 8 day (both days inclusive) per day or part thereof	48628.19	1967.16	58356.65	2360.7	68085.13	2754.26
Dry dock hire from 9th day to 20th day (both days inclusive) per day or part thereof	72946.08	2950.88	87532.66	3540.97	102122.98	4131.2
Dry dock hire from 21st day or part thereof	117522.36	4754.15	141027.47	5704.99	164530.44	6655.79
Particulars			Coastal vessel (in Rs.)		Foreign going vessels (in US \$)	
Removing and refitting keel blocks in way of repairs. Besides, special blocks, if required to be laid on account of peculiarities in the construction of any vessel.			7591.04 per block		307.07 per block	
JNPT	Not Applicable					
Kamrajar	NIL					
Mormugao	Not Applicable					
Mumbai	Not available with MbPT.					
New Manglore	Not Applicable					
Paradip	Docking and Undocking charges is Rs. 712500/- each time					
SMP Haldia	No Dry Dock facility available					
Vishakapatnam**	1st day to 14th day		15th day to 30th day		31st day onwards	
National	90195/-		132250/-		180391/-	
International	US \$ 3150.15		US \$ 4723.69		US \$ 6300.28	
V.O. Chidambaranar	Dry Dock facility not available.					
SMP Kolkata**						

** No information is received for 2021-22

Table No. 2.7**Equipments available at Major Ports**

Name of Ports	Equipments available in the Workshops
1	2
Chennai	NIL
Cochin	Cochin Port Trust has leased out its dry dock for 30 years to Cochin Shipyard Ltd. On 11.4.2013, and hence no dry dock hire charges have been collected by this Port in 2021-22.
Deendayal Port Trust/ Kandla	NIL
SMP, Haldia	There is no dry dock facility at Haldia Dock Complex.
JNPT	The port doesn't have the facility for ship building and ship repairing.
Kamarajar Port	The dry dock facility is not available at Port.
SMP, Kolkata**	NIL
Mormugao	NIL
Mumbai	Not Available
NMPT	Not Applicable
Paradip	NIL
Visakhapatnam**	NIL
V.O.Chidambaranar	NIL

** No information is received for 2021-22

Section- 3

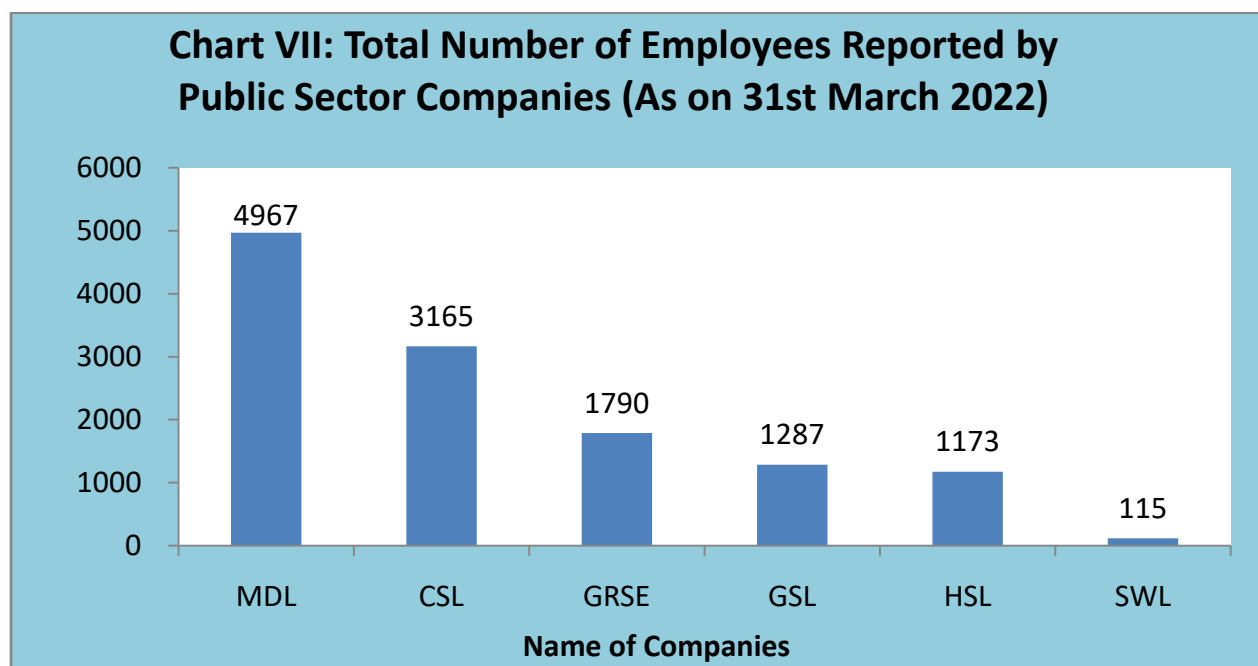
EMPLOYMENT IN SHIP- BUILDING/SHIP-REPAIRING INDUSTRY

3. EMPLOYMENT IN SHIP-BUILDING/SHIP-REPAIRING INDUSTRY

3.1 The total number of employees under Public Sector Shipyards during 2021-22 were 12497 which included 2608 officers (20.9% of the total number of employees). The maximum number of employees in the public sector Shipyards as on 31st March 2022 was 4967 employees in Mazgaon Dock Shipbuilders Ltd (MDSL) followed by 3165 in Cochin Shipyard Ltd (CSL), 1790 employees in Garden Reach Shipbuilders and Engineers Ltd.(GRSE), 1287 employees in Goa Shipyard Ltd. (GSL) and 1173 employees in Hindustan Shipyard Ltd. (HSL).

3.2 The total number of employees in private sector companies were 3757 as on 31st March 2022 of which total number of officers were 984 (26.2% of the total number of employees). Amongst the reporting companies, Shoft Shipyard Pvt. Ltd. (SSPL) had highest number of employees (1092) followed by Chowgule & Co. Ltd. (523 employees) and Titagarh Wagons Ltd. (510 employees).

3.3 The total number of employees among the public sectors undertakings is shown in chart VII below and details of the same are given in Table 3.1 (page 40).



3.4 Chart VIII given below depicts a downward trend in Ship-building and Ship-repairing industries during the period 2017-18 to 2021-22 and details of the same are given in Table 3.2 (page 41-42).

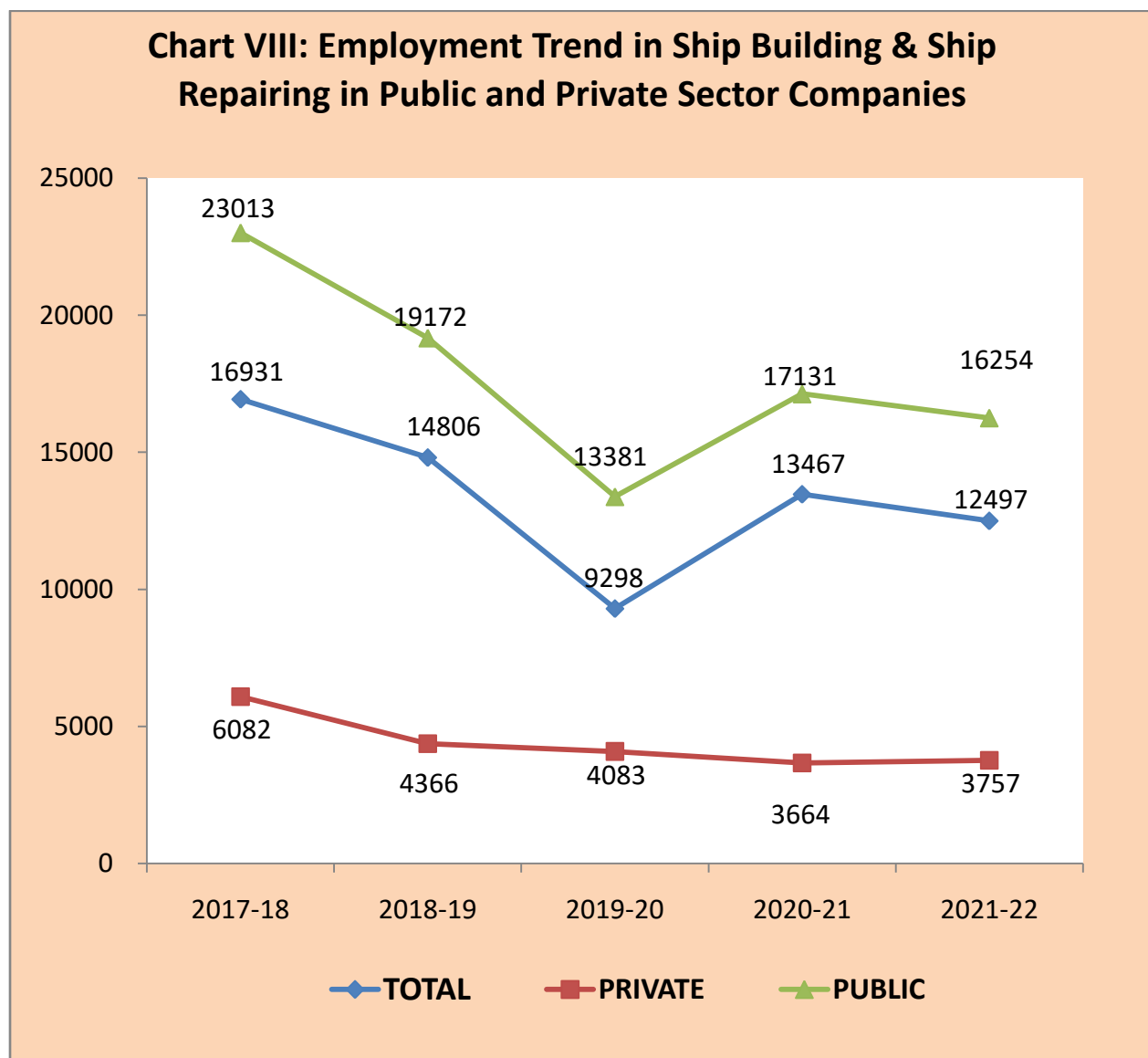


Table No. 3.1

Employment In Ship-Building/Ship-Repairing Companies
(As on 31st March, 2022)

S.No	Name of The Company	Officers		Supervisors		Workforce in Operation				Total	
		Permanent	Contractual	Permanent	Contractual	Directly involved in		Indirectly involved in		Permanent	Contractual
						Permanent	Contractual	Permanent	Contractual		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	A. PUBLIC SECTOR (Total)	2391	217	454	63	5296	3104	694	278	8835	3662
1	Alcock Ashdown (Gujarat) Ltd. @									0	0
2	Cochin Shipyard Ltd.	424	125	128	4	1048	1205	156	75	1756	1409
3	Garden Reach Shipbuilders & Engineers Ltd	479	4	107	39	993	1	167	0	1746	44
4	Goa Shipyard Ltd.	228	22	134	2	727	51	97	26	1186	101
5	Hindustan Shipyard Ltd.	291	44	85	18	328	303	43	61	747	426
6	Hooghly Dock & Port Engineers Ltd.**									0	0
7	Mazagaon Dock Shipbuilders Ltd.	963	0	0	0	2155	1514	220	115	3338	1629
8	Shalimar Works Ltd.	6	22	0	0	45	30	11	1	62	53
	B. PRIVATE SECTOR (Total)	777	207	38	25	600	1723	98	289	1513	2244
9	Abhishek Engineers**									0	0
10	A.C.Roy & Comp. Ltd.	30	0	1	0	4	10	13	0	48	10
11	A.H. Wadia Boat Builders	2	2	0	0	5	54	4	5	11	61
12	A.S. Moloobhoy Pvt. Ltd.@										
13	Bristol Boats Pvt. Ltd.	5	0	0	0	3	11	1	0	9	11
14	Chidambaram Shipcare Pvt. Ltd.	23	0	5	0	0	22	0	0	28	22
15	Chowgule & Co. Pvt. Ltd.	120	0	0	0	0	190	0	213	120	403
16	Dempo Shipbuilding & Engineering Pvt. Ltd.	29	0	0	0	0	140	0	30	29	170
17	Equiptrans Logistics Pvt. Ltd**									0	0
18	Ferromar Shipping Pvt. Ltd.	2	0	0	0	0	0	0	0	2	0
19	M/s Glory Shipmanagement Pvt. Ltd.	16	49	0	0	0	0	0	0	16	49
20	High Seas Shipping Associates	0	0	0	0	0	0	0	0	0	0
21	Homa Engineering Works									0	0
22	M/s Island Ship Repairers	14	0	3	0	45	15	5	3	67	18
23	JITF Shipyard Ltd	13	0	0	0	0	0	0	0	13	0
24	KSINC	15	0	0	0	22	0	6	0	43	0
25	L&T Shipbuilding Ltd									0	0
26	Mandovi Drydocks	38	26	0	0	0	168	0	0	38	194
27	Marine Care 'N' Associates	25	4	3	0	23	0	13	0	64	4
28	Marine Frontiers Pvt. Ltd.	12	0	4	0	21	0	0	0	37	0
29	Modest Infrastructure Pvt. Ltd.	70	0	0	0	18	0	14	0	102	0
30	N N Shipbuilders and Engineers Pvt	28	13	0	0	0	0	0	0	28	13
31	Patra Shipping Pvt Ltd	14	0	0	0	42	79	0	0	56	79
32	Reliance Naval & Engineering Ltd.@									0	0
33	Roshini Ship Repairs and Engineers	3	0	0	0	31	12	3	3	37	15
34	San Marine	10	5	3	1	16	18	9	5	38	29
35	Sea Blue Shipyard Ltd	32	6	7	0	28	84	1	0	68	90
36	Sembmarine Kakinada Ltd. @									0	0
37	Shoft Shipyard Pvt. Ltd.	175	75	0	0	314	505	11	12	500	592
38	Udupi Cochin Shipyard Ltd/ Tebma Shipyards Ltd. (TSL)\$	10	20	0	9	0	18	2	18	12	65
39	Timblo Drydocks Pvt. Ltd.**									0	0
40	Titagarh Wagons Ltd.	79	7	10	15	17	380	2	0	108	402
41	Vijai Marine Shipyards**									0	0
42	West Coast Shipyard Ltd.**									0	0
43	Waterways Shipyard Pvt. Ltd	12	0	2	0	11	17	14	0	39	17
	C. Grand Total (A + B)	3168	424	492	88	5896	4827	792	567	10348	5906

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Table No. 3.2

**Employment Pattern In Ship-Building/
Ship-Repairing Companies - (2019-2022)**

(In numbers)

S.No	Name of The Company	Particulars	2019	2020	2021	2022
			(4)	(5)	(6)	(7)
	A. PUBLIC SECTOR (Total)	Total	14806	9298	13467	12497
		Officers	2689	1977	2611	2608
1	Alcock Ashdown (Gujarat) Ltd. @	Total Officers	56 20			
2	Cochin Shipyard Ltd.	Total Officers	2452 453	2539 876	2841 518	3165 549
3	Garden Reach Shipbuilders & Engineers Ltd.	Total Officers	2100 472	1973 468	1900 490	1790 483
4	Goa Shipyard Ltd.	Total Officers	1604 287	1472 270	1389 269	1287 250
5	Hindustan Shipyard Ltd.	Total Officers	1473 346	1347 317	1252 323	1173 335
6	Hooghly Dock & Port Engineers Ltd.**	Total Officers	66 9	14 1	16 7	
7	Mazagaon Dock Shipbuilders Ltd.	Total Officers	6929 1077	1806 13	5939 974	4967 963
8	Shalimar Works Ltd.	Total Officers	126 25	147 32	130 30	115 28
	B. PRIVATE SECTOR (Total)	Total	4366	4083	3664	3757
		Officers	1489	1318	1027	984
9	Abhishek Engineers**	Total Officers			305 136	
10	A.C.Roy & Comp. Ltd.	Total Officers	58 30	58 30	58 30	58 30
11	A.H. Wadia Boat Builders	Total Officers			68 8	72 4
12	A.S. Moolobhoy Pvt. Ltd. @	Total Officers	142 92			
13	Bristol Boats Pvt. Ltd.	Total Officers	21 5	21 5	13 5	20 5
14	Chidambaram Shipcare Pvt. Ltd.	Total Officers	50 21	50 23	50 23	50 23
15	Chowgule & Co. Pvt. Ltd.	Total Officers	124 93	1062 215	544 112	523 120
16	Dempo Shipbuilding & Engineering Pvt. Ltd	Total Officers	203 32	203 32	199 29	199 29
17	Equiptrans Logistics Pvt. Ltd**	Total Officers			277 41	
18	Ferromar Shipping Pvt. Ltd.	Total Officers	2 2	2 2	2 2	2 2
19	M/s Glory Shipmanagement Pvt. Ltd.	Total Officers			65 65	65 65
20	High Seas Shipping Associates	Total Officers			28 10	0 0
21	Homa Engineering Works	Total Officers	23 7	23 7	13 4	
22	M/s Island Ship Repairers	Total Officers				85 14
23	JITF Shipyard Ltd	Total Officers		13 13	13 13	13 13
24	KSINC	Total Officers			43 15	43 15
25	L&T Shipbuilding Ltd	Total Officers	501 500	501 500		
26	Mandovi Drydcks	Total Officers	233 51	253 52	221 57	232 64
27	Marine Care 'N' Associates	Total Officers		90 35	66 27	68 29
28	Marine Frontiers Pvt. Ltd.	Total Officers	123 10	99 10	37 12	37 12
29	Modest Infrastructure Pvt. Ltd.	Total Officers	65 45	68 45	83 57	102 70
30	N N Shipbuilders and Engineers Pvt Ltd	Total Officers	92 12	92 12	6 2	41 41
31	Patra Shipping Pvt. Ltd	Total Officers				135 14
32	Reliance Naval & Engineering Ltd. @	Total Officers	1344 284			
33	Roshini Ship Repairs and Engineers	Total Officers				52 3
34	San Marine	Total Officers		67 15	67 15	67 15

Table No. 3.2

**Employment Pattern In Ship-Building/
Ship-Repairing Companies - (2019-2022)**

(In numbers)

S.No	Name of The Company	Particulars	2019	2020	2021	2022
			(4)	(5)	(6)	(7)
(1)	(2)	(3)				
35	Sea Blue Shipyard Ltd	Total		139	139	158
		Officers		28	28	38
36	Sembmarine Kakinada Ltd. @	Total	95	95		
		Officers	16	16		
37	Shoft Shipyard Pvt. Ltd.	Total	719	719	775	1092
		Officers	165	165	216	250
38	Udupi Cochin Shipyard Ltd / Tebma Shipyard Ltd \$	Total	42	42		77
		Officers	18	18		30
39	Timblo Drydocks Pvt. Ltd.**	Total	50	7	0	
		Officers	18	7	0	
40	Titagarh Wagons Ltd.	Total	387	387	387	510
		Officers	75	75	75	86
41	Vijai Marine Shipyards**	Total	86	86	86	
		Officers	11	11	11	
42	West Coast Shipyard Ltd.**	Total	6	6	19	
		Officers	2	2	10	
43	Waterways Shipyard Pvt. Ltd.	Total			100	56
		Officers			24	12
	C. Grand Total (A + B)	Total	19172	13381	17131	16254
		Officers	4178	3295	3638	3592

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

** No information is received for 2021-22

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

Section-4

FINANCIAL POSITION OF SHIPBUILDING AND SHIP REPAIRING COMPANIES

4. FINANCIAL POSITION OF SHIP BUILDING AND SHIP REPAIRING COMPANIES

4.1 Amongst public sector companies, the highest income earned during 2021-22 was Rs. 6166.91 crore by Mazagon Dock Shipbuilders Ltd followed by Rs. 3456.42 crore by Cochin Shipyard Ltd, Rs. 1918.17 crore by Garden Reach Shipbuilders & Engineers Ltd, Rs. 864.75 crore by Goa Shipyard Ltd. and Rs. 767.88 crore by Hindustan Shipyard Ltd.

4.2 In terms of profit, the highest profit was earned by Cochin Shipyard Ltd (Rs. 794.39 crore), followed by Mazagon Dock Shipbuilders Ltd (Rs. 786.66 crore), Garden Reach Shipbuilders & Engineers Ltd. (Rs. 257.24 crore) and Goa shipyard Ltd (Rs. 139.07 crore).

4.3 In private sector, the highest income earned during 2021-22 amongst the reporting companies was by Chowgule & Co. Pvt. Ltd. (Rs 157.93 crore) followed by San Marine (Rs. 125.74 crore), Shoft Shipyard Pvt. Ltd. (Rs. 106.77 crore), M/s Glory Shipmanagement Pvt. Ltd. (Rs. 55.04 crore), Mandovi Drydocks (Rs. 46.40 crore), Titagarh Wagons (Rs. 41.46 crore), Modest Infrastructure Pvt. Ltd (Rs. 39.02 crore) and AC Roy & Co. (Rs. 24.91 crore).

4.4 In terms of profit amongst the reporting companies, the highest profit was earned by Shoft Shipyard Pvt. Ltd. (Rs. 20.24 crore) followed by M/s Glory Shipmanagement Pvt. Ltd. (Rs. 19.21 crore), San Marine (Rs. 11.21 crore), Modest Infrastructure Pvt. Ltd. (Rs. 6.26 crore), A.C. Roy & Co. Ltd (Rs 5.89 crore), Chowgule & Co. Pvt. Ltd. (Rs. 5.80 crore) and Sea Blue Shipyard Ltd. (Rs. 5.47 crore).

4.5 Chart IX below shows the financial performance in terms of profit/ loss of the major public and private sector companies engaged in ship building/ repair as on 31st March 2022 and details of the same from the financial year 2019 to 2022 is given in Table 4.1 (page 45-47).

Chart IX: Financial Performance of Major Public and Private Companies in 2021-22

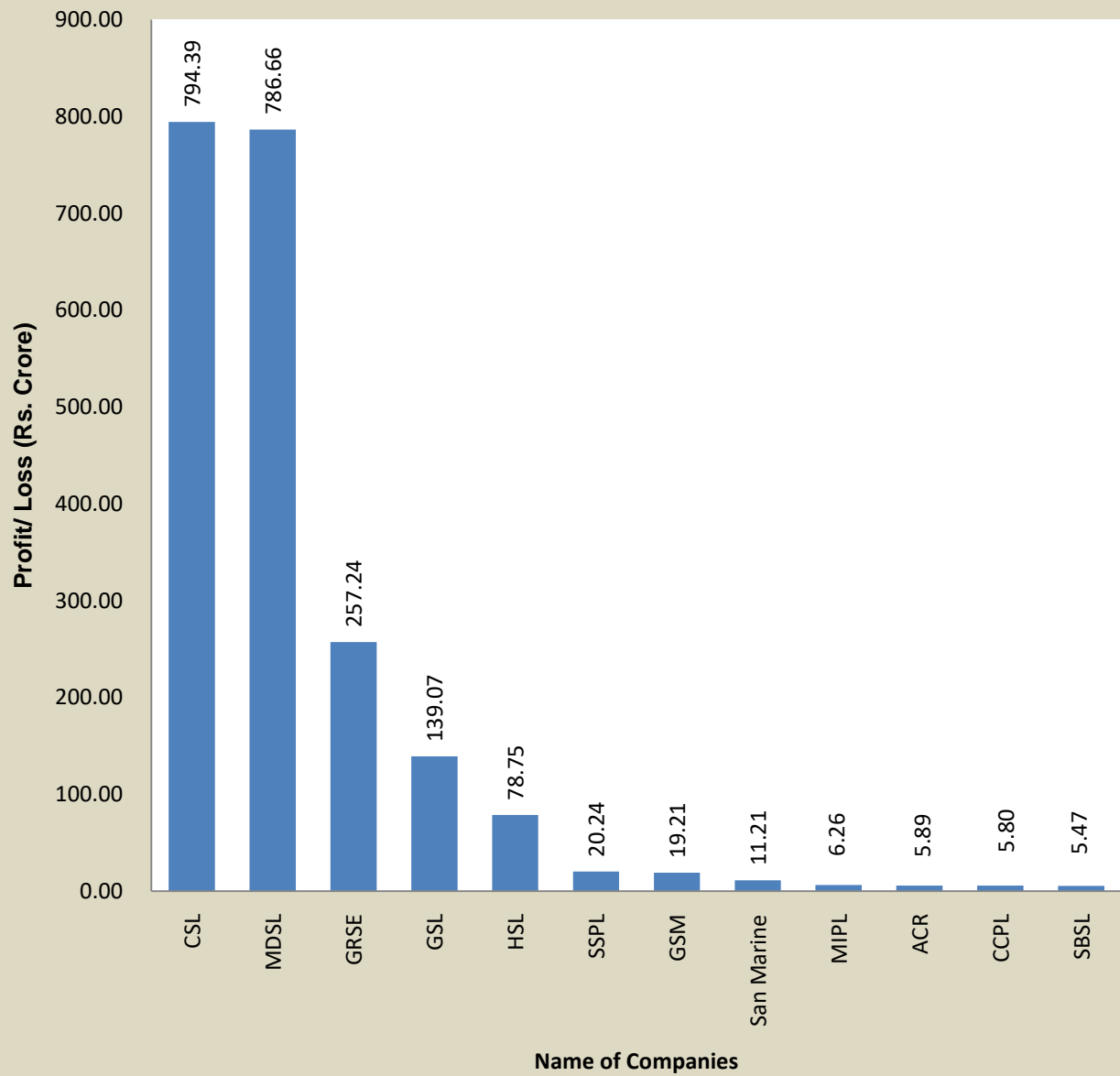


Table No. 4.1

Financial Performance (Income & Expenditure) : Company - wise (2019 to 2022)

(Rs. in lakhs)

Sl. No.	Name of the Company	As on 31st March	Income from (Rs. in lakhs)			Total Income	Expenditure incurred on (Rs. in lakhs)			Total Expenditure	Profit (+)/Loss(-)
			Ship Building	Ship Repairing	Other resources		Operating, establishment and other expenses	Provision for Depreciation	Interest		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
A.	<u>PUBLIC SECTOR</u>										
1.	Alcock Ashdown (Gujarat) Ltd. @	2022				0.00				0.00	0.00
		2021				0.00				0.00	0.00
		2020				0.00				0.00	0.00
		2019	0.00	0.00	75.64	75.64	22.00	147.02	2673.99	2843.01	-2767.37
2	Cochin Shipyard Ltd.	2022	251148.16	67852.09	26641.68	345641.93	255950.08	5604.75	4648.04	266202.87	79439.06
		2021	240559.27	41330.43	19386.07	301275.77	209863.44	5307.07	5046.62	220217.13	81058.64
		2020	285226.50	57022.89	24750.03	366999.42	293898.14	4873.12	4459.41	303230.67	63768.75
		2019	213202.07	83358.26	22728.42	319288.75	266325.32	3415.53	1430.11	271170.96	48117.79
3	Garden Reach Shipbuilders & Engineers Ltd.	2022	157101.33	18650.11	16065.38	191816.82	162445.17	3571.01	76.41	166092.59	25724.23
		2021	101032.81	13050.71	18759.56	132843.08	108952.49	2908.76	270.10	112131.35	20711.73
		2020	127522.88	15806.66	22549.94	165879.48	140349.89	3008.92	133.56	143492.37	22387.11
		2019	122845.05	15797.11	17123.93	155766.09	134965.63	2708.47	195.96	137870.06	17896.03
4	Goa Shipyard Ltd.	2022	51355.39	19014.33	16105.29	86475.01	66940.69	5601.80	25.52	72568.01	13907.00
		2021	67769.27	14969.55	15136.71	97875.53	72829.56	5012.65	26.17	77868.38	20007.15
		2020	78759.49	11534.94	16881.09	107175.52	74141.25	4752.93	1789.57	80683.75	26491.77
		2019	64953.54	19825.96	13849.00	98628.50	72713.81	4498.04	369.38	77581.23	21047.27
5	Hindustan Shipyard Ltd.	2022	61687.00	14544.00	557.00	76788.00	67841.00	422.00	650.00	68913.00	7875.00
		2021	27059.00	20736.00	1005.00	48800.00	49222.00	432.00	546.00	50200.00	-1400.00
		2020	26205.00	23292.00	2149.00	51646.00	53213.00	-3357.00	487.00	50343.00	1303.00
		2019	15100.00	44400.00	1100.00	60600.00	55200.00	475.00	1300.00	56975.00	3625.00
6	Hooghly Dock & Port Engineers Ltd.**	2022				0.00				0.00	0.00
		2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		2020	N.A	N.A	17117.55	17117.55	5352.56	0.21	0.57	5353.34	11764.21
		2019	N.A	N.A	578.89	578.89	277.67	3.09	1231.05	1511.81	-932.92
7	Mazagaon Dock Shipbuilders Ltd.	2022	533960.00	39368.00	43363.00	616691.00	529858.00	7451.00	716.00	538025.00	78666.00
		2021	361519.00	43263.00	60020.00	464802.00	382395.00	5965.00	836.00	389196.00	75606.00
		2020	475899.00	15893.00	58949.00	550741.00	465827.00	6875.00	926.00	473628.00	77113.00
		2019	462233.00	2682.00	64038.00	528953.00	439733.00	6142.00	410.00	446285.00	82668.00
8	Shalimar Works Ltd.	2022(P)	93.47	126.97	67.86	288.30	1111.65	45.00	2286.09	3442.74	-3154.44
		2021	2175.24	38.11	123.62	2336.97	3473.02	38.50	2175.08	5686.60	-3349.63
		2020	N.A	104.50	296.76	401.26	1184.53	43.37	2124.49	3352.39	-2951.13
		2019	1806.69	209.32	502.83	2518.84	3659.54	49.56	2024.25	5733.35	-3214.51
	B. PRIVATE SECTOR										
9	Abhishek Engineers **	2022				0.00				0.00	0.00
		2021	75.00	75.00	N.A	150.00	120.00	15.00	3.50	138.50	11.50
		2020	50.00	50.00	N.A	100.00	70.00	10.00	2.00	82.00	18.00
10	A.C.Roy & Comp. Ltd.	2022	2265.00	199.00	27.00	2491.00	1583.00	281.00	38.00	1902.00	589.00
		2021	1215.00	420.00	698.00	2333.00	1451.00	235.00	78.00	1764.00	569.00
		2020	1118.00	534.00	733.00	2385.00	1467.00	275.00	83.00	1825.00	560.00
		2019	3291.00	65.00	815.00	4171.00	2532.00	795.00	27.00	3354.00	817.00
11	A.H. Wadia Boat Builders	2022	1199.42	0.00	1.29	1200.71	1096.87	17.53	2.82	1117.22	83.49
		2021	922.67	0.00	1.19	923.86	852.74	13.83	1.89	868.46	55.40
		2020	733.72	0.00	1.97	735.69	650.70	8.96	2.51	662.17	73.52
12	A.S. Moloobhoy Pvt. Ltd. @	2022									
		2021									
		2020				0.00				0.00	0.00
		2019	N.A	4148.26	14.56	4162.82	3900.83	100.00	50.51	4051.34	111.48
13	Bristol Boats Pvt. Ltd.	2022	25.43	38.54	6.23	70.20	106.46	3.98	13.52	123.96	-53.76
		2021	4.17	1.39	28.97	34.53	81.80	3.60	9.98	95.38	-60.85
		2020	12.03	51.34	11.43	74.80	109.59	3.90	10.09	123.58	-48.78
		2019	0.00	51.12	42.97	94.09	112.53	4.17	9.90	126.60	-32.51
14	Chidambaram Shipcare Pvt. Ltd.	2022	N.A	506.71	529.46	1036.17	969.16	11.34	2.73	983.23	52.94
		2021	N.A	884.42	2.04	886.46	839.48	9.44	6.47	855.39	31.06
		2020	N.A	1026.07	1.80	1027.87	995.04	10.62	8.01	1013.67	14.20
		2019	0.00	961.94	0.40	962.34	899.44	12.41	13.55	925.40	36.94

Table No. 4.1 Contd...

Financial Performance (Income & Expenditure) : Company - wise (2019 to 2022)

(Rs. in lakhs)

Sl. No.	Name of the Company	As on 31st March	Income from (Rs. in lakhs)			Total Income	Expenditure incurred on (Rs. in lakhs)			Total Expenditure	Profit (+)/Loss(-)
			Ship Building	Ship Repairing	Other resources		Operating, establishment and other expenses	Provision for Depreciation	Interest		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
15	Chowgule & Co. Pvt. Ltd.	2022	11287.13	446.34	4060.35	15793.82	14644.96	367.58	201.18	15213.72	580.10
		2021	11779.76	-	1894.21	13673.97	12342.84	463.76	351.37	13157.97	516.00
		2020	11935.65	-	1752.06	13687.71	12221.21	534.26	717.62	13473.09	214.62
		2019	3282.61	5719.60	570.29	9572.50	8123.33	5253.60	661.03	14037.96	-4465.46
16	Dempo Shipbuilding and Engineering Pvt. Ltd.	2022	0.00	623.41	335.96	959.37	852.23	131.12	46.67	1030.02	-70.65
		2021	2379.62	513.21	-866.99	2025.84	2196.71	130.88	68.19	2395.78	-369.94
		2020	N.A	562.83	1044.47	1607.30	2011.25	133.69	34.76	2179.70	-572.40
		2019	184.40	900.86	151.82	1237.08	1326.74	134.94	65.80	1527.48	-290.40
17	Equiptrans Logistics Pvt. Ltd**	2022				0.00				0.00	0.00
		2021	-	678.39	-	678.39	523.65	-	-	523.65	154.74
		2020	-	1162.23	-	1162.23	1026.04	-	-	1026.04	136.19
18	Ferromar Shipping Pvt. Ltd.	2022(P)	755.20	N.A	517.97	1273.17	519.36	257.80	1.58	778.74	494.43
		2021	261.09	N.A	527.52	788.61	628.97	385.10	37.19	1051.26	-262.65
		2020	77.49	N.A	630.43	707.92	332.23	308.88	72.04	713.15	-5.23
		2019	N.A	N.A	832.14	832.14	380.42	320.62	91.13	792.17	39.97
19	M/s Glory Shipmanagement Pvt. Ltd.	2022	0.00	640.00	4864.00	5504.00	2753.00	715.00	115.00	3583.00	1921.00
		2021	0.00	152.00	4977.00	5129.00	3111.00	989.00	345.00	4445.00	684.00
		2020	0.00	258.00	3578.00	3836.00	2248.00	873.00	365.00	3486.00	350.00
20	High Seas Shipping Associates	2022	N.A	986.77	N.A	986.77	933.58	3.67	24.57	961.83	24.94
		2021	N.A	378.82	N.A	378.82	270.50	2.97	24.07	297.53	81.29
		2020	N.A	721.71	13.70	735.41	693.21	2.96	22.58	718.74	16.67
21	Homa Engineering Works	2022				0.00				0.00	0.00
		2021	N.A	452.12	12.12	464.24	412.65	6.99	27.24	446.88	17.36
		2020	N.A	1792.49	14.74	1807.23	1702.72	7.81	61.83	1772.36	34.87
		2019	N.A	1447.29	10.38	1457.67	1302.57	8.08	65.74	1376.39	81.28
22	M/s Island Ship Repairers	2022	0.00	1761.98	0.00	1761.98	1950.46	10.28	45.68	2006.42	-244.44
		2021	0.00	1394.75	0.00	1394.75	1296.30	12.10	47.12	1355.52	39.23
23	JITF Shipyard Ltd	2022 (P)	N.A	316.27	43.67	359.94	287.55	22.15	0.00	309.70	50.24
		2021	N.A	236.47	42.01	278.48	277.73	22.28	0.00	300.01	-21.53
		2020	N.A	172.72	283.73	456.45	244.96	22.72	0.00	267.68	188.77
		2019	N.A	170.36	133.28	303.64	193.93	22.63	0.84	217.40	86.24
24	KSINC	2022	N.A	N.A	1856.91	1856.91	2177.20	290.00	7.90	2475.10	-618.20
		2021	N.A	151.29	1576.63	1727.92	1591.78	319.98	2.99	1914.75	-186.83
		2020	42.67	21.35	1974.24	2038.26	1908.24	355.74	20.09	2284.07	-245.81
25	L&T Shipbuilding Ltd	2022				0.00				0.00	0.00
		2021				0.00				0.00	0.00
		2020	24587.30	10385.01	650.54	35622.85	34514.80	7988.45	26992.47	69495.72	-33872.87
		2019	49044.92	10932.17	626.53	60603.62	69629.21	7966.72	24517.69	102113.62	-41510.00
26	Mandovi Drydocks	2022	3516.00	469.00	655.00	4640.00	6386.00	82.00	141.00	6609.00	-1969.00
		2021	4117.00	461.00	1190.00	5768.00	4120.00	54.00	161.00	4335.00	1433.00
		2020	6007.00	1053.00	705.00	7765.00	6342.00	65.00	124.00	6531.00	1234.00
		2019	6028.32	793.95	1071.62	7893.89	6230.45	61.34	183.92	6475.71	1418.18
27	Marine Care 'N' Associates	2022	N.A	379.90	4.54	384.44	345.11	7.66	6.90	359.67	24.77
		2021	N.A	900.00	N.A	900.00	827.00	8.00	5.00	840.00	60.00
		2020	N.A	899.00	N.A	899.00	809.00	7.00	5.00	821.00	78.00
		2019	N.A	621.00	2.00	623.00	557.00	6.36	6.64	570.00	53.00
28	Marine Frontiers Pvt. Ltd.	2022	53.12	34.93	2.58	90.63	219.51	28.40	78.67	326.58	-235.95
		2021	685.56	153.95	25.25	864.76	795.49	34.93	85.01	915.43	-50.67
		2020	107.43	107.43	11.75	226.61	641.48	43.10	81.64	766.22	-539.61
		2019	1017.84	40.83	114.15	1172.82	1658.24	55.16	76.61	1790.01	-617.19
29	Modest Infrastructure Pvt. Ltd.	2022	1075.60	2214.78	611.38	3901.76	2382.50	149.99	743.58	3276.07	625.69
		2021	823.90	1686.63	64.32	2574.85	1953.57	162.36	984.97	3100.90	-526.05
		2020	814.02	937.44	99.60	1851.06	2024.22	164.47	1068.61	3257.30	-1406.24
		2019	574.51	744.41	338.68	1657.60	1272.81	165.87	1170.98	2609.66	-952.06
30	N N Shipbuilders and Engineers Pvt Ltd	2022	62.22	N.A	5.40	67.62	39.50	7.87	19.36	66.73	0.89
		2021	N.A	N.A	3.51	3.51	-11.97	10.49	20.02	18.54	-15.03
		2020	97.36	N.A	2.13	99.49	149.88	11.98	25.76	187.62	-88.13
		2019	12.03	N.A	816.26	828.29	879.82	14.16	26.85	920.83	-92.54

Table No. 4.1 Contd...

Financial Performance (Income & Expenditure) : Company - wise (2019 to 2022)

(Rs. in lakhs)

Sl. No.	Name of the Company	As on 31st March	Income from (Rs. in lakhs)			Total Income	Expenditure incurred on (Rs. in lakhs)			Total Expenditure	Profit (+)/Loss(-)
			Ship Building	Ship Repairing	Other resources		Operating, establishment and other expenses	Provision for Depreciation	Interest		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
31	Patra Shipping Pvt. Ltd	2022 2021	- 162.98	1045.17 476.93	16.70 16.89	1061.87 656.80	978.69 580.07	15.70 28.50	0.70 4.58	995.09 613.15	66.78 43.65
32	Reliance Naval & Engineering Ltd. @	2022 2021 2020 2019	 13017.26	 1775.97	 3669.81	 18463.04	 19526.60	 6565.81	 127807.42	 153899.83	 -135436.79
33	Roshini Ship Repairs and Engineers	2022 2021	0.00 0.00	347.67 332.59	0.00 0.00	347.67 332.59	270.24 302.22	4.08 3.46	2.57 2.57	276.89 308.25	70.78 24.34
34	San Marine	2022 2021 2020 2019	2390.80 1287.50 0.00 313.00	0.00 0.00 0.00 0.00	10183.11 11748.43 9515.10 9100.00	12573.91 13035.93 9515.10 9413.00	10265.10 9986.91 7595.80 7690.80	632.72 782.96 391.50 158.80	555.54 449.03 213.00 228.00	11453.36 11218.90 8200.30 8077.60	1120.55 1817.03 1314.80 1335.40
35	Sea Blue Shipyard Ltd	2022 2021 2020 2019	0.00 0.00 0.00 114.91	1908.06 1258.60 1553.09 281.64	37.96 197.77 12.78 24.40	1946.02 1456.37 1565.86 420.94	1211.43 994.26 985.76 1164.19	98.92 16.69 17.79 22.22	88.70 25.38 18.73 26.91	1399.05 1036.34 1022.29 1213.33	546.97 420.04 543.57 -792.38
36	Sembmarine Kakinada Ltd. @	2022 2021 2020 2019	 N.A	 7104.64	 3380.50	 10485.14	 6483.01	 2341.25	 4005.26	 12829.52	 -2344.38
37	Shoft Shipyard Pvt. Ltd.	2022 (P) 2021 2020 2019	10154.24 6835.85 7714.11 7553.05	136.88 433.46 432.80 501.40	386.27 519.98 1461.81 389.42	10677.39 7789.29 9608.72 8443.87	7882.24 5102.47 6181.06 6495.59	517.23 499.73 392.91 316.38	253.55 275.69 167.43 209.47	8653.02 5877.89 6741.40 7021.44	2024.37 1911.40 2867.32 1422.43
38	Udupi Cochin Shipyard Ltd./ Tebma Shipyards Ltd \$	2022 2021 2020 2019	641.98 0.00 116.38	0.00 0.00 45.88	366.08 74.74 15.18	1008.06 74.74 0.00 177.45	1412.04 -1086.82 235.65	1322.03 1284.46 87.88	53.45 23.14 N.A	2787.52 220.78 0.00 323.53	-1779.46 -146.04 0.00 -146.08
39	Timblo Drydock Pvt. Ltd.**	2022 2021 2020 2019	 874.75	 106.23	 2694.34	0.00 0.00 0.00 3675.32	 4710.17	 180.95	 991.95	0.00 0.00 0.00 5883.08	0.00 0.00 0.00 -2207.76
40	Titagarh Wagons Ltd.	2022 2021 2020 2019	4145.62 1452.01 2520.07 13151.65	N.A N.A N.A N.A	N.A N.A N.A N.A	4145.62 1452.01 2520.07 13151.65	3532.35 1776.93 2201.86 9769.50	46.74 20.77 50.01 186.46	0.40 N.A N.A N.A	3579.49 1797.70 2251.87 9955.96	566.13 -345.69 268.20 3195.69
41	Vijai Marine Shipyards**	2022 2021 2020 2019	 2215.74 2913.10 2447.05	 35.03 602.05 603.37	 426.87 266.18 489.49	0.00 2677.64 3781.33 3539.91	2171.37 2997.94 4037.30	67.05 89.64 103.61	48.56 187.29 186.86	0.00 2286.98 3274.87 4327.77	0.00 390.66 506.46 -787.86
42	West Coast Shipyard Ltd.**	2022 2021 2020 2019	 N.A	 433.00	 N.A	0.00 0.00 433.00 512.78	 N.A	 N.A	 N.A	0.00 0.00 0.00 348.37	0.00 0.00 433.00 164.41
43	Waterways Shipyard Pvt. Ltd.	2022 2021 2020	2029.60 2238.68 1661.94	N.A N.A N.A	194.67 120.57 257.84	2224.27 2359.25 1919.78	2133.70 1710.85 1520.25	67.96 41.37 46.82	80.13 300.53 151.17	2281.79 2052.75 1718.24	-57.52 306.50 201.54

(P) Provisional / Unaudited

** No information is received for 2021-22

Note : New companies (At S. No. 22, 31 & 33) have been added from 2021-22; based on the list obtained from Indian Register of Shipping.

@ Removed in view of Point 1.4 of Chapter 1 of the Publication

\$ Udupi Cochin Shipyard Ltd earlier known as Tebma Shipyard Ltd

Section -5

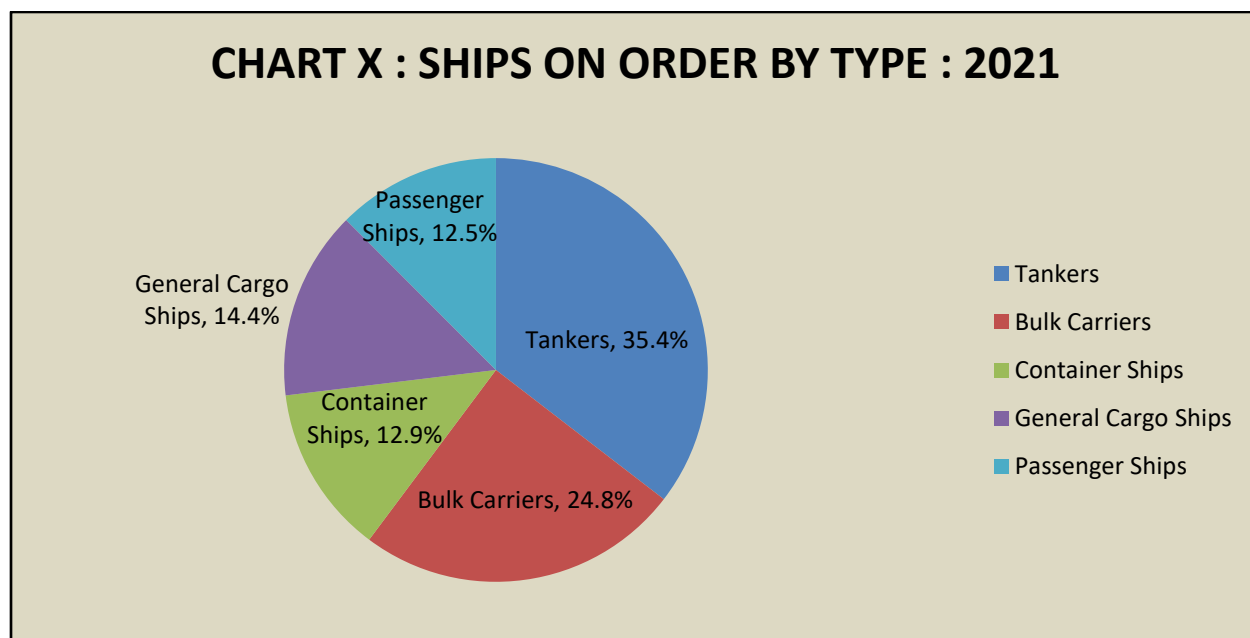
INTERNATIONAL SCENARIO

5. INTERNATIONAL SCENARIO

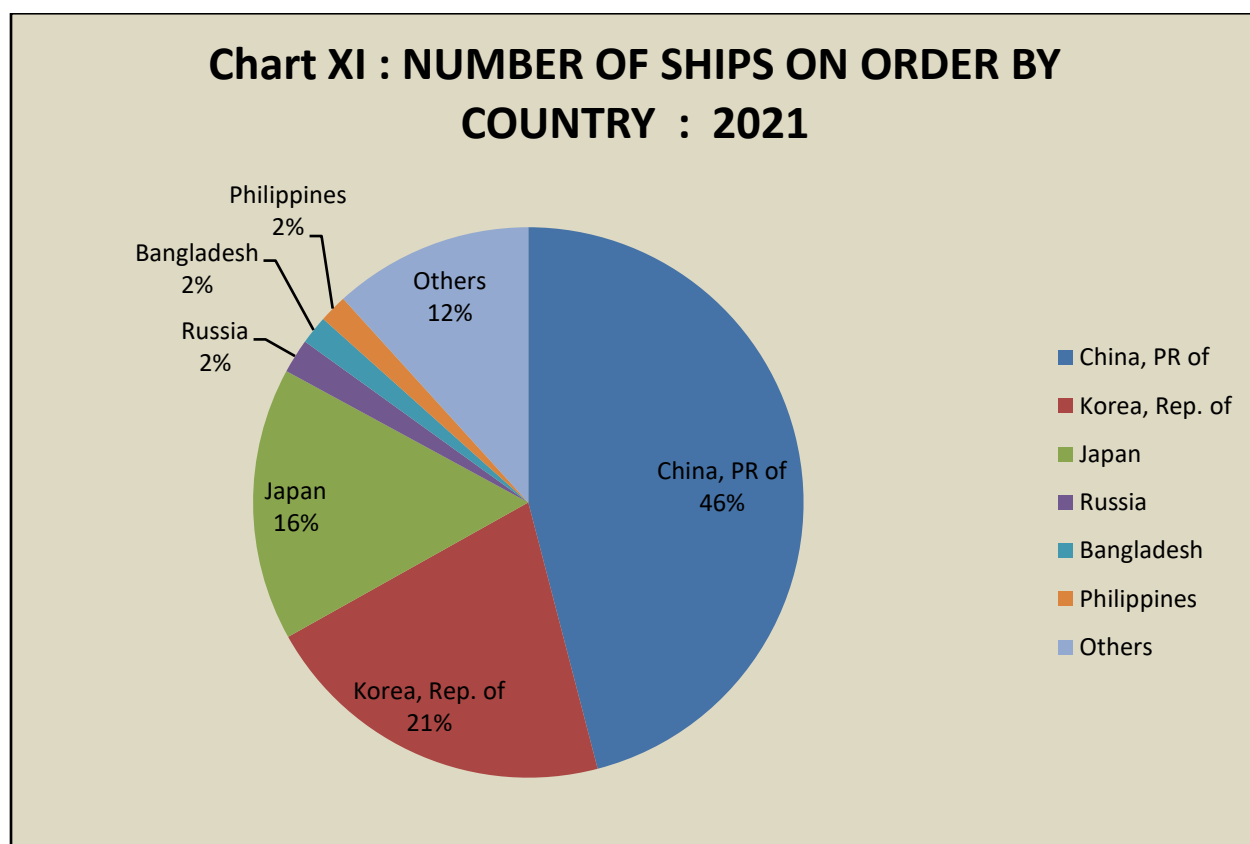
5.1 This section comprises comparative time series data on ship building activity in terms of order and completion and by type and country (Table 5.1 to 5.6 (page 51-57)).

5.2 Table 5.1 (page 51) shows that the number of ships on order reflects the demand side dynamics of the world shipping industry. Over the period 2004 to 2021 (as on 1st January), the number of ships on order at a global level has decreased from 2984 units in 2004 to 2370 units in 2021. During last three years from 2018 to 2021, number of ships on order has gone down from 3323 ships in 2018 to 2370 ships in 2021. Ships on order (as on 1st January) in terms of compensated gross tonnage (CGT) have gone down from 67.97 million CGT in 2004 to 65.77 million CGT in 2021. During the year 2004 to 2021, order book of world ship building industry had witnessed CAGR of (-1.35%) and (-0.19%) on order in term of numbers of ships and compensated gross tonnage respectively.

There are different types of ships built by any country. These are Tanker ships, Bulk carrier ships, Container ships, General cargo ships and Passenger ships. The maximum demand for ship building was for Tanker ships (35.4%) followed by Bulk Carrier ships (24.8%), General Cargo Ships (14.4%), Container Ships (12.9%) and Passenger Ships (12.5%) shown in the chart X below. (Table 5.3 (page 53))

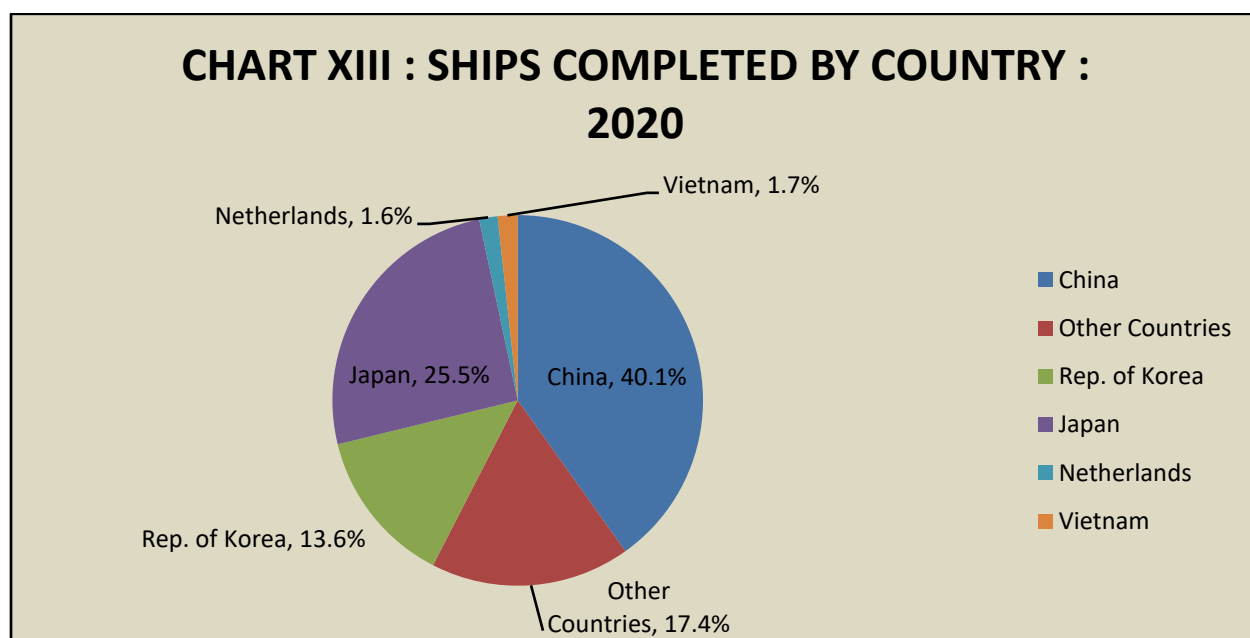
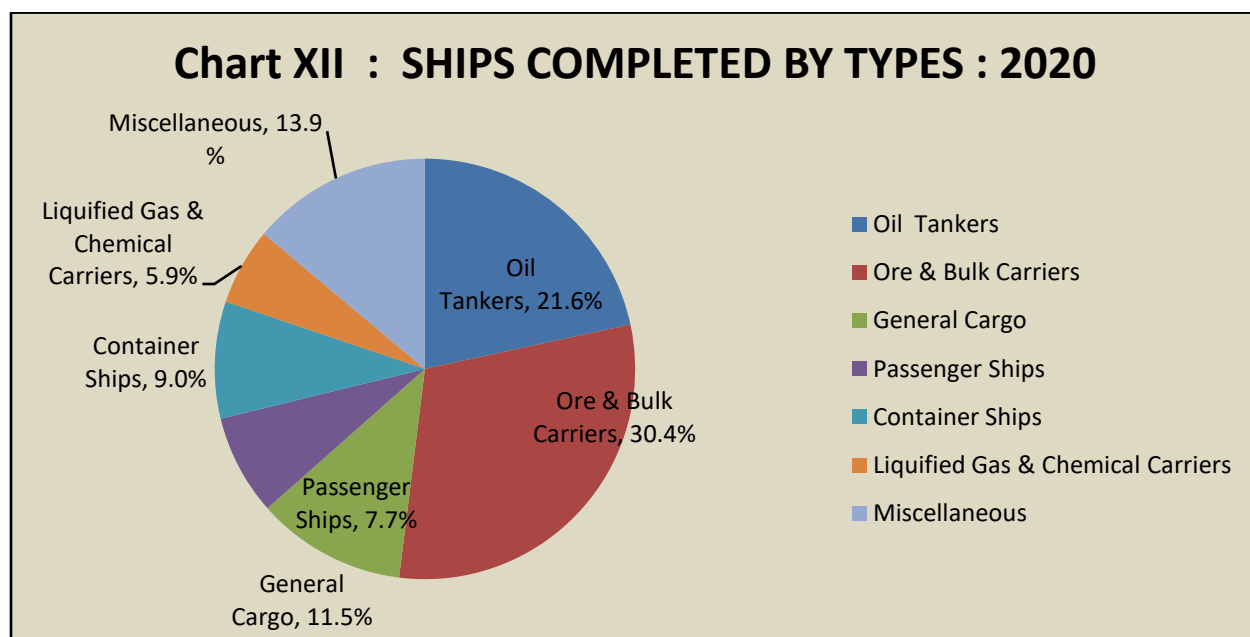


5.3 Table 5.2 (page 52) provide country-wise data on the ship order book position as on 1st July, 2021 and table 5.4 (page 54) presents the country-wise ships completion during the year 2020. Country-wise percentage share of Ships on order during 2021 was given in chart XI below. Chart suggest that, China, Republic of Korea and Japan were the top three nations which accounted for a global share of around 46%, 21% and 16% respectively in number of ships on order in 2021. China, Republic of Korea and Japan were the top three nations which accounted for a global share of 37.1%, 33.9% and 11.5% respectively in ships on order in terms of compensated gross tonnage (cgt) in 2021.



5.4 Country-wise number of ships built and delivered recorded in terms of gross tonnage (GT), were 57.72 million GT in 2020 (Table 5.4) reflecting a decrease of 12.5% over 66.00 million GT completed in 2019. In terms of number, the total number of ships completed decreased to 1555 units in 2020 from 1829 units in 2019 reflecting a decrease of 15.0%. Out of 57.72 million GT of ship delivered during 2020; the percentage share of Ore & Bulk carriers was 45.2% (contributed 26.12 million GT in 2020, Table 5.5 (page 55-56)) which was highest among the other types of ships delivered in the same year.

5.5 No ships were completed in Bulk/ Oil Carriers and All Fishing types category. The different types of ships completed in the world (Type-wise and Country-wise) may be seen in the following charts.



Other Countries: All excluding Netherlands, Japan, Vietnam, China & Rep. of Korea for Chart XIII

Source: Shipping Statistics Year Book 2021, Institute of Shipping Economics and Logistics, Germany

Table No. 5.1

**World Ship-building - Ships On Order And Completed
During 2004 - 2021**

(as on 1st January)

Year	Ships on Order *		Ships Completed @	
	No	1000 cgt	No	1000 gt
(1)	(2)	(3)	(4)	(5)
2004	2984	67965	1931	40586
2005	3948	91544	1993	47566
2006	4787	106205	2309	53529
2007	6045	125474	2611	57634
2008	8887	184010	3221	68477
2009	9501	191562	3432	78522
2010	7731	153869	3558	98477
2011	6525	130035	3434	103786
2012	4804	105047	3163	96565
2013	3589	81750	2403	71071
2014	3879	92729	2200	63876
2015	4195	103838	2522	67633
2016	3880	100531	1994	66783
2017	2944	78492	1840	65612
2018	3083	78482	1672	57966
2019	3323	81802	1829	65996
2020	2677	72346	1555	57720
2021	2370	65766	N.A	N.A
2021\$	2675	75752	N.A	N.A

* Ships of 300gt and Over.

@ Merchant Ships of 100gt and Over.

\$ As on 1st July,2021

Note: cgt-compensated gross tonnage, gt-gross tonnage

Source: Shipping Statistics Year Book 2021, Institute of Shipping Economics and Logistics, Germany

Table No.5.2

**Ships on Order by Major Types and Country of Build
(As on 1st July, 2021)**

Ships of 300 gt. And above

S. No.	Country of Build	Tankers		Bulk Carriers		Container Ships		General Cargo Ships		Passenger Ships		Total	
		No.	1000 cgt	No.	1000 cgt	No.	1000 cgt	No.	1000 cgt	No.	1000 cgt	No.	1000 cgt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	China PR of	299	6504	342	6860	337	11127	187	2298	64	1328	1229	28116
2	Korea Rep.	391	17359	6	241	150	7764	9	216	4	60	560	25676
3	Japan	104	1979	207	3865	71	2356	34	316	13	175	429	8691
4	Italy	-	-	-	-	-	-	-	-	36	3564	36	3564
5	Germany	1	9	-	-	-	-	3	41	22	2261	26	2311
6	France	-	-	-	-	-	-	-	-	11	1663	11	1663
7	Finland	-	-	-	-	-	-	-	-	13	1199	13	1199
8	Philippines	2	7	22	414	5	49	10	133	5	53	44	657
9	Vietnam	17	401	2	35	-	-	2	3	3	20	24	459
10	Russia	24	1149	-	-	-	-	22	156	8	58	54	1362
11	Norway	-	-	-	-	-	-	1	2	11	296	12	298
12	Taiwan	-	-	-	-	2	45	-	-	-	-	2	45
13	Spain	2	15	-	-	-	-	2	3	5	118	9	135
14	Croatia	2	45	-	-	-	-	2	35	3	130	7	210
15	US	-	-	-	-	2	37	-	-	10	72	12	110
16	Turkey	8	67	-	-	-	-	5	27	21	173	34	267
17	Bangladesh	10	45	-	-	-	-	24	89	11	42	45	177
18	Portugal	-	-	-	-	-	-	-	-	6	115	6	115
19	Netherlands	3	18	-	-	-	-	29	155	2	4	34	177
20	Others	13	113	1	1	1	3	32	135	41	305	88	520
	Total	876	27711	580	11416	568	21381	362	3609	289	11636	2675	75752

Note 1: cgt-compensated gross tonnage

Source: Shipping Statistics Year Book 2021, Institute of Shipping Economics and Logistics, Germany

Table No. 5.3

Ships on order by Type

During 2019-2021

Ships of 300gt and over

Ship Type	2019		2020		2021	
	No of Ships	1000 cgt	No of Ships	1000 cgt	No of Ships	1000 cgt
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Tankers	1048	29771	847	26164	840	27640
Bulk Carriers	1005	21601	815	17713	587	11856
Container Ships	452	13556	364	11364	305	10636
General Cargo Ships	455	4655	310	3462	342	3529
Passenger Ships	363	12219	341	13644	296	12106
Grand Total	3323	81802	2677	72347	2370	72346

Note 1: Figures from the year 2019 to 2021 is as on 1st January.

Note 2: cgt-compensated gross tonnage

Source: Shipping Statistics Year Book 2021, Institute of Shipping Economics and Logistics, Germany

Table No. 5.4

Merchant Ships Completed By Country Of Build (2018-2020)

(Ships of 100 gt & Over)

S. No.	Country of Build	2018		2019		2020	
		No.	1000 gt	No.	1000 gt	No.	1000 gt
1	2	3	4	5	6	7	8
(1)	Croatia	7	24	9	28	7	37
(2)	Brazil	19	227	10	143	6	3
(3)	Denmark	-	-	2	2	-	-
(4)	Finland	3	138	3	335	1	182
(5)	France	3	360	2	353	2	132
(6)	China, PR of	642	23232	653	23148	624	23226
(7)	Germany	10	479	8	487	5	288
(8)	Italy	6	477	8	527	6	518
(9)	Korea, Rep. Of	190	14633	231	21700	212	18180
(10)	Japan	338	14440	433	16238	396	12811
(11)	Netherlands	25	57	23	40	25	104
(12)	Norway	19	84	26	196	19	75
(13)	Poland	2	6	1	3	6	14
(14)	Spain	18	206	11	192	6	27
(15)	Philippines	32	1987	25	802	19	608
(16)	United Kingdom	1	0	1	1	-	-
(17)	United States	52	200	33	128	18	70
(18)	Vietnam	44	477	58	550	27	564
(19)	Other Countries	261	939	292	1122	176	881
	World Total	1672	57966	1829	65996	1555	57720

Note 1: gt-gross tonnage

Source: Shipping Statistics Year Book 2021, Institute of Shipping Economics and Logistics, Germany

Table No. 5.5

World Merchant Ships Completed By Principle Types (1992-2020)

(Ships of 100gt and over (a))

Year	Oil Tankers		Bulk/Oil Carriers(b)		Ore & Bulk Carriers		General Cargo		Passenger Ships	
	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1992	253	9275	14	854	64	2527	337	1698		
1993	268	9592	5	242	89	3910	322	1418		
1994	183	5459	2	91	192	6368	322	1594		
1995	163	6104	-	-	258	8459	314	1511	102	974
1996	159	6281	3	195	272	9508	338	1661		
1997	92	3866	4	305	309	9950	342	1926		
1998	140	6599	-	-	206	6039	289	2929		
1999	172	10045	4	252	187	6749	274	3453		
2000	225	11611	-	-	183	6962	311	3565	87	1254
2001	183	8137	2	78	309	11101	202	1589		
2002	254	12771	-	-	225	7726	194	1828		
2003	434	16972	2	142	160	5935	276	2440		
2004	447	16036	-	-	246	10003	436	3374		
2005	480	17173	-	-	307	12016	470	3613	86	828
2006	520	14743	-	-	322	13517	526	4485	69	1220
2007	629	17746	-	-	329	13344	615	5128	93	1490
2008	791	21115	-	-	381	13289	740	6713	104	1707
2009	838	27316	1	162	645	23601	686	6557	94	1395
2010	677	23296	4	688	1019	43605	633	7296	96	1858
2011	570	22477	3	516	1201	53674	650	7982	98	1099
2012	505	18211	-	-	1199	53818	503	6446	82	1199
2013	396	12257	-	-	760	33558	340	4856	60	780
2014	311	9483	-	-	576	25509	254	4056	88	947
2015	326	10593	2	6	614	25979	221	3190	86	955
2016	413	18192	1	3	559	25467	187	2976	95	1475
2017	451	21191	-	-	430	20252	189	3635	137	1592
2018	426	15837	-	-	275	14776	171	2626	169	1853
2019	434	20838	-	-	418	21756	256	2718	165	2172
2020	336	13250	-	-	472	26115	179	2088	120	1565

World Merchant Ships Completed By Principle Types (1992-2020)

(Ships of 100gt and over (a))

Year	Container Ships		Liquified Gas & Chemical Carriers		All Fishing Types		Miscellaneous		Total	
	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt
(1)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1992	88	2173	125	883	231	197	394	1026	1506	18633
1993	92	2083	131	1137	229	137	424	1196	1560	19715
1994	142	3128	106	1333	160	137	359	736	1466	18846
1995	166	3706	106	1243	157	86	401	1128	1565	22237
1996	201	4591	149	1746	175	99	435	1448	1732	25529
1997	247	5761	124	1627	186	94	546	1300	1850	24829
1998	256	6034	150	1759	164	74	524	1900	1729	25334
1999	124	2929	133	2186	144	104	526	1930	1564	27648
2000	155	5271	67	2028	247	163	462	2075	1650	31675
2001	188	6980	51	616	262	124	498	2716	1695	31341
2002	201	7217	64	1521	140	73	631	2420	1709	33556
2003	178	6261	107	2608	137	96	194	2065	1488	36519
2004	181	7204	90	2687	161	102	155	1928	1716	41334
2005	271	10250	86	2686	123	50	256	1778	1993	47566
2006	372	14932	124	3768	75	51	370	2033	2309	53529
2007	399	14247	133	4381	41	31	465	2757	2611	57634
2008	434	16067	171	7928	33	37	671	3327	3221	68476
2009	276	11824	201	7242	34	36	751	1785	3432	78523
2010	265	14955	90	1714	37	36	833	6887	3558	98477
2011	191	13365	70	1714	25	25	724	4033	3434	103786
2012	209	13672	63	610	31	21	653	3786	3163	96564
2013	203	14503	67	2613	29	20	608	3265	2403	71072
2014	201	16130	104	4340	2	3	752	4355	2200	63876
2015	211	17406	115	5336	23	25	924	4144	2522	67634
2016	131	9475	135	6733	-	-	473	2461	1994	66782
2017	153	11890	110	5213	-	-	370	1839	1840	65612
2018	175	13614	114	7447	-	-	342	1813	1672	57966
2019	161	10934	95	6366	-	-	300	1212	1829	65996
2020	140	8671	92	5283	-	-	216	748	1555	57720

(a) : Since 2007 all ships of 300 gt and over.

(b) : Incl. Ore/oil carriers.

Note 1: gt-gross tonnage

Source: Shipping Statistics Year Book 2021, Institute of Shipping Economics and Logistics, Germany

Table No. 5.6

Total Order Book - By Country of Build
(As on 1st July,2021)

(Ships of 300 gt and over)

Country	2020			2021		
	Total Order Book			Total Order Book		
	No	1000 cgt	1000 dwt	No	1000 cgt	1000 dwt
1	2	3	4	5	6	7
China, PR of	1071	23558	76098	1229	28116	77944
Croatia	9	193	150	7	210	128
Phillippines	44	681	2122	44	657	2126
Finland	11	1253	108	13	1199	122
France	11	1817	180	11	1663	137
Germany. FR of	27	2645	240	26	2311	230
Italy	41	3995	339	36	3564	285
Japan	539	9564	31109	429	8691	29153
Korea, Republic of	395	18821	45440	560	25676	64696
Netherlands	28	140	136	34	177	182
Poland	8	66	19	3	39	12
Romania	9	69	53	6	37	9
Russia	32	446	1367	54	1362	2298
Spain	13	175	22	9	135	23
Turkey	31	235	78	34	267	104
U.S	20	162	146	12	110	67
Other Countries	189	1876	2084	168	1538	1651
Total	2478	65696	159691	2675	75752	179167

Note 1: cgt-compensated gross tonnage, dwt-dead weight tonnage

Source: Shipping Statistics Year Book 2021, Institute of Shipping Economics and Logistics, Germany

APPENDIX

TERMINOLOGY USED IN SHIPPING

A. TERMS RELATING TO A SHIP

Ballast - Any material intended to provide stability to the ship when it is otherwise empty.

Bunker - Ship-space for storing fuel (Coal, Oil etc.).

Cargo Tonnage/Freight Ton - It refers to the earnings cargo carried by a ship and is expressed as either a weight or measurement. In the British countries the long tons of 2240 pounds for 40 cubic feet and under the metric system as in India, the metric tonne of 1000 Kg. for a cubic metre.

Dead Weight Tonnage (DWT) - It is the number of tons (2240 pounds) of stores, fuel and cargo that a ship can transport. This presents the actual carrying capacity of a ship.

Displacement Light - The weight of a ship without stores, bunker fuel, cargo, passengers and crew.

Displacement Loaded - The weight of a ship plus stores, bunker fuel, cargo, passengers and crew.

Draft - The depth necessary to submerge a ship to her load line.

Gross Registered Tonnage (GRT) - It applies to the vessel and not to cargo. It is the weight of the volume occupied by the closed – in – space of a ship taking 100 cubic feet of such closed-in-spaces as equivalent to one vessel ton. It thus refers to the cubic capacity of the vessels.

Lighterage - Loading into and discharging out of lighters.

Load Line - The outer line on the body of a ship up to which she submerges in water with safety. It varies according to the seasons and waters in which she plies.

Net Registered Tonnage (NRT) - It refers to the earning space capacity of a ship, available for the storage of cargo and accommodation of passengers. It is obtained by deducting from GRT the cubic capacity space (taking 100 cu. feet. = 1 ton) occupied by stores, fuel, machinery crew etc. and which does not represent the earning capacity of the ship.

Port Side - Left side of a ship.

Shipping Order - Authority given to a shipper to deliver the goods for loading.

Starboard Side - Right side of a ship.

B. TERMS RELATING TO TYPE OF SHIPS

Barge - A term applied to a flag officer's boat in naval usage, or to an elegantly fitted boat, or craft of ceremony propelled by oars or mechanically and reserved for the use of high officials when transported in State. In a legal sense a barge is usually held to be a boat or vessel and hence it is within the letter of the laws relating to such craft.

Bollard - Single or double cast steel post secured to a wharf or pier and used for mooring vessels by means of lines extending from the vessel and fastened to the wharf or pier.

Bollard Pull - The amount of pull exerted on a bollard of a ship.

Breaking Bulk - The commencing of discharging of cargo from ship.

Cargo Ship - A ship which is not a passenger ship

Coaster - A vessel specially designed, equipped, manned and licensed to engage regularly in the coasting trade, whether plying coast-wise or making short sea passage within certain specified geographical limits.

Coasting Ship - A ship exclusively employed in trading between any port or place in India and any other port or place in the continent of India or between ports or places in India and port or places in Sri Lanka, Bangladesh or Myanmar.

Collier - Generally a coastal ship designed to carry coal.

Craft - A term in marine parlance applied to every kind of vessels but more especially to small vessels when referred to collectively. For marine insurance purposes, a craft is any barge, lighter, river trades or any other boat or vessel employed in carrying, shipping or discharging the goods insured.

Dumb Barge - A barge which has no means of self propulsion in the way of sails or engine power and which has to be towed or is allowed to drift under the influence of the tide or current.

Fishing Vessel - A ship fitted with mechanical means of propulsion which is exclusively engaged in sea fishing for profit.

Foreign-Going Ship - A ship not being a home trade ship employed in trading between any port or place in India and any other port or place or between ports or places outside India.

Freighter - A ship designed to carry general cargo (with a limited passenger accommodation) operating on fixed routes with fixed sailing schedules and serving a group of ports.

Home-Trade Ship - A ship not exceeding three thousand tons gross which is employed in trading between any port or place in India and any other port or place in the continent of India or between ports or places in India and ports or places in Sri Lanka, Maldives Islands, Federation of Malaysia, Singapore, Bangladesh or Myanmar.

Hopper Barge - A steel or wooden barge with hopper doors employed in harbours and used for the disposal of mud, gravel, sand etc., taken from a dredger and then conveyed to a dumping ground where the cargo is discharged through the bottom; also called 'dump scow' and then conveyed to a dumping ground where the cargo is discharged through the bottom; also called 'dump scow'.

Inland Steam Vessel - A steam vessel which ordinarily plies on inland water.

Compensated Gross Tonnage (cgt) - Calculated by multiplying the tonnage of a ship by a coefficient, which is determined according to type and size of a particular ship. cgt is used as an indicator of volume of work that is necessary to build a gross ship.

Gross Tonnage (gt) - gt indicates that the ship has been measured in accordance with the requirements of the International Convention on Tonnage Measurement of Ships 1969 and is derived by formula in accordance with those requirements.

Lash - Lighter aboard ship.

Launch - A large, heavy and beamy ship's boat with flat floors and rather shallow draft, formerly used and designed for carrying stores and men.

Liner Ship - A ship that plies on regular scheduled services between groups of ports. The ships of a liner company are common carriers, offering cargo space or passenger accommodation to all shippers and passengers who require them. A liner company is generally engaged on trade-routes where large volume of cargo or passenger traffic is available.

Mooring Vessel - A vessel which is secured by moorings.

Ore/Oil and Bulk Carriers - A bulk cargo ship designed to carry ore and oil enabling it thereby to be loaded in both directions.

Passenger Liner - A ship or vessel employed in carrying passengers, mail and goods at stated intervals between regular ports.

Passenger Ship - A ship carrying more than twelve passengers.

Pilgrim Ship - A ship which makes a voyage to or from the Hedjaz during the season of the pilgrimage and which carries pilgrims in a proportion of not less than one pilgrim for every one hundred tons of the gross tonnage of the ship.

Reefer - A vessel with refrigerating facilities

Rig - The Rig of a vessel is the distinctive manner in which her masts and sails are disposed.

Roll On/Roll Off vessel - It is frequently called a vehicle FEERY. It is designed for the conveyance of road vehicles and private cars. At each terminal port, a tramp or linkspan is provided enabling the vehicles to drive on or off the vessels, thereby eliminating craneage and cargo handling (and also pilferage) and permitting a quick turn round of the ship.

Sailing Vessel - Any description of vessel provided with sufficient sail area for navigation under sails alone - whether or not fitted with mechanical means of propulsion, and would include rowing boat or crane but does not include a pleasure craft.

Sea-going Vessel - A vessel proceeding to sea beyond inland water or beyond waters declared to be smooth or partially smooth by the Central Government by notification in the official Gazette.

Sponson - In a paddle-wheel-steamer, a small out board platform strongly bracketed to the side plating and supporting the paddle-wheel bearing.

Steam Vessel - Every description of vessel propelled wholly or in part by the agency of steam.

Survey Vessel - Mechanically propelled sea-going vessel specially built and equipped to carry out hydrographic and other nautical surveys in coastal waters and on the high seas. Surveying vessels are in most instances Government owned.

Tanker - A cargo ship constructed or adopted for carriage in bulk of liquid cargoes of an inflammable nature.

Tramp - A cargo ship operating in all ports of the world without a fixed route and sailing schedule in search of primarily bulk cargo carried generally in ship-loads.

Trawler - A sail or mechanically propelled vessel engaged in sea fisheries with a drag net, the most modern development of which is the otter trawl; also called dragger.

Tug Boat - A mechanically propelled vessel of small tonnage with little or no cargo capacity, used for towing or assisting vessels at sea, in or out of harbour, rivers, and docks, also for coastal or harbour towage of barges, lighters and other small craft; also called tow boat, tug.

Unberthed Passenger - A passenger of the age of twelve years or upwards for whom no separate accommodation in any cabin, state room or saloon is reserved. In the computation of passengers, two persons of the age of one year or upwards and under the age of twelve years shall be reckoned as one un-berthed passenger.

Unberthed Passenger Ship - A ship carrying more than thirty un-berthed passengers.
