



STATISTICS OF INDIA'S SHIP BUILDING AND SHIP REPAIRING INDUSTRY

2016-17



**Government of India
Ministry of Shipping
Transport Research Wing
New Delhi**

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सत्यमेव जयते

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गोपाल कृष्ण
GOPAL KRISHNA



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MINISTRY OF SHIPPING

P R E F A C E

Transport Research Wing (TRW) in the Ministry of Shipping is the nodal agency for providing information/data on various facets of water borne transport. The present issue “**Statistics of India’s Ship Building and Ship Repairing Industry 2016-17**” gives information on India’s Ship Building and Ship Repairing Industry.

The present volume consists of five sections and is designed to inform on developments on Ship Building, Ship Repairing, Employment and Financial position of India’s Ship Building & Ship Repair industry, including a section pertaining to Shipbuilding from a global perspective. The present volume includes features such as ship order book position in terms of export order and domestic order respectively and permanent and contractual labour employed in domestic ship building.

Information contained in the volume is obtained from a large number of sources spread across both public as well as private sector. I wish to record my deep appreciation of the outstanding support and cooperation provided by all who have contributed to improve and complete this issue. This publication is a joint endeavour, with each officer contributing their knowledge and professional commitment. Suggestions from the users of information are welcome to improve quality and coverage.

Vil 19/2/2018
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New Delhi
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ACRONYMS

-	- Nil
Neg	- Negligible
...	- 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
PCVs	- Pollution Control vessels
OPVs	- Offshore Patrol vessels
I V Barges	- Inland Vessel Barges
ACR	- A.C. Roy & Comp. Ltd.
APV	- Advanced Patrol vessels
AHTS	- Anchor handling Tug Supply vessels
CSL	- Cochin Shipyard Limited
C&CL	- Chowgule & Co Ltd
HSL	- Hindustan Shipyard Ltd.
BDIL	- Bharati Defence & Infrastructure Ltd.
BB	- Bristol Boats
MDL	- Mazagaon Dock Ltd
GRSE	- Garden Reach Ship-Builders & Engineers Ltd.
ABGS	- ABG shipyard Ltd.
AAL	- Alcock Ashdown (Gujarat) Ltd.
HDPEL	- Hooghly Dock & Port Engineers Ltd.
SWL	- Shalimar Works Ltd.
GSL	- Goa Shipyard Ltd.
TSL	- Tebma Shipyard Ltd.
L & T	- Larsen & Turbo Shipbuilding Ltd
PPV	- Pipavav
MIPL	- Modest Infrastructure Pvt. Ltd.
CSPL	- Chidambaram Shipcare Pvt. Ltd
SKL	- Sembmarine Kakinada Ltd.

AN OVERVIEW

Shipbuilding Industry is a technology driven, skill and material intensive assembly operation. It draws upon a large number of services and utilities. The end product is a high value floating asset. Shipbuilding not only spawns industrial entrepreneurship but engenders industrial cluster development as the experience of Japan and Korea demonstrates. For nearly three decades in the post World War II era, shipbuilding industry was dominated by Europe and the US. Shipbuilding being a labour intensive industry, the cost of labour plays an important determinant in a country's competitive position vis-à-vis others. Over the years, the industry has shifted from Europe to Japan and then to Republic of Korea and has now taken firm roots in People's Republic of China. The factors governing this shift have been relatively high wage in Europe coupled with strong competitive strength of manufacturing and steel making sectors and active state support in the leading shipbuilding nations of East & Far East Asia. This decisive shift in shipbuilding activities from Europe to Asia has opened up window of opportunities for Indian ship yards in both public and private sectors.

2. India has a coastline of 7,517 Kms. with 12 Major ports and 205 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 7.86% of India's overseas trade during 2015-16. 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 2017, Indian shipping tonnage was 12.35 million Gross Registered Tonnage (GRT) with 1371 ships.

3. With the opening of Indian economy to globalization, there has been a steady increase in handling of cargo traffic at Indian Ports. India's share in global exports has increased from 0.7% in 2000 to 1.65% in 2016 (Source: World Trade Organization). 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.

4. 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. At present, there are 27 shipyards, out of which 8 shipyards are in the public sector and the rest are in the private sector. The demand for ships, semi-submersibles and port auxiliary vessels viz new ship

building activities as well as ship-repair activities is projected to grow in view of rising cargo traffic from/to India in coming years.

The “Manufacturing Plan – Strategies for Accelerating Growth of Manufacturing in India in the 12th Five Year Plan and Beyond” released by the erstwhile Planning Commission lists “Ship building and Ship Repair” as one of the key sectors of strategic importance.

5. ‘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.

6. 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.

7. There are 36 dry-docks for repairing ships in India both in public and private sector as per data reported. These dry docks include the 10 dry docks operated by 6 major ports. The major ports which have no dry-dock facilities are JNPT, New Mangalore, Chennai, Ennore, and Haldia Dock Complex of Kolkata Port. Cochin Port Trust has handed over its Dry Dock to M/s Cochin Shipyard Ltd.

8. 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 GOVERNMENTS:

- Alcock Ashdown Co. Limited, Gujarat
- Shalimar Works Limited, Kolkata, West Bengal,

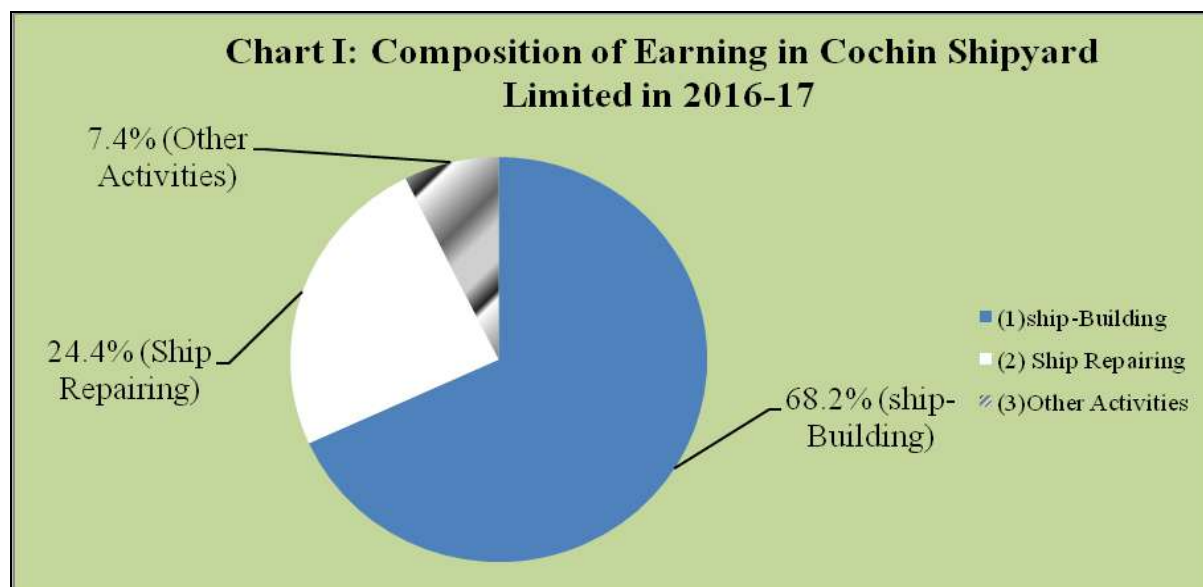
8.1 COCHIN SHIPYARD LIMITED (CSL)

8.1.1 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 Greenfield shipyard was incorporated in the year 1972 under technical collaboration with M/s MHI, Japan.

8.1.2 Some of the notable features and achievements of the shipyard are:

- This yard has capacity to build and repair large ships in India - shipbuilding – up to 1,10,000 DWT and Ship repair – upto 1,25,000 DWT.
- Delivered two of India's largest double hull crude oil tankers each with 92,000 DWT capacities.
- CSL has been selected to construct the first indigenous Air Defence Ship for the Indian Navy. The steel cutting for the ship commenced in April 2005.
- Yard has developed a complete 3D hull and outfit modeling of thirty thousand DWT Bulk carriers in Tribon.

8.1.3 The percentage shares of income earned by Cochin Shipyard Ltd. from ship building, ship repairing and other activities during 2016-17 are depicted in chart I.



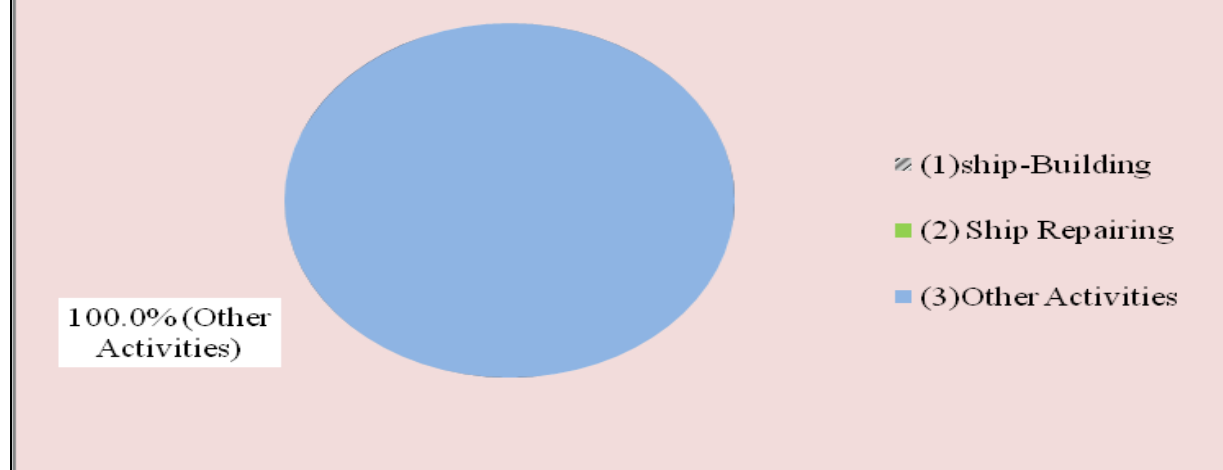
8.2 HOOGHLY DOCK & PORT ENGINEERS LIMITED, KOLKATA (HDPEL)

8.2.1 HDPEL, situated at 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 Limited, the Hooghly Dock & Port Engineers Limited was formed by an Act of Parliament “The Hooghly Docking and Engineering Company Limited (Acquisition and Transfer of Undertakings) Act, 1984”

8.2.2 The Government of India took it over to utilize the available infrastructure and augment the ship building capacity. The nationalized company was with the M/o Industry till July 1986 and thereafter was transferred to the then M/o Surface Transport now (Ministry of Shipping). The company has two production units at Saikia and Nazirgunze in Kolkata.

8.2.3 The percentage shares of income earned by Hooghly Dock & Port Engineers Ltd. from ship building, ship repairing and other activities during 2016-17 are depicted in chart II.

Chart II: Composition of Earning in Hooghly Dock & Port Engineers Ltd. in 2016-17

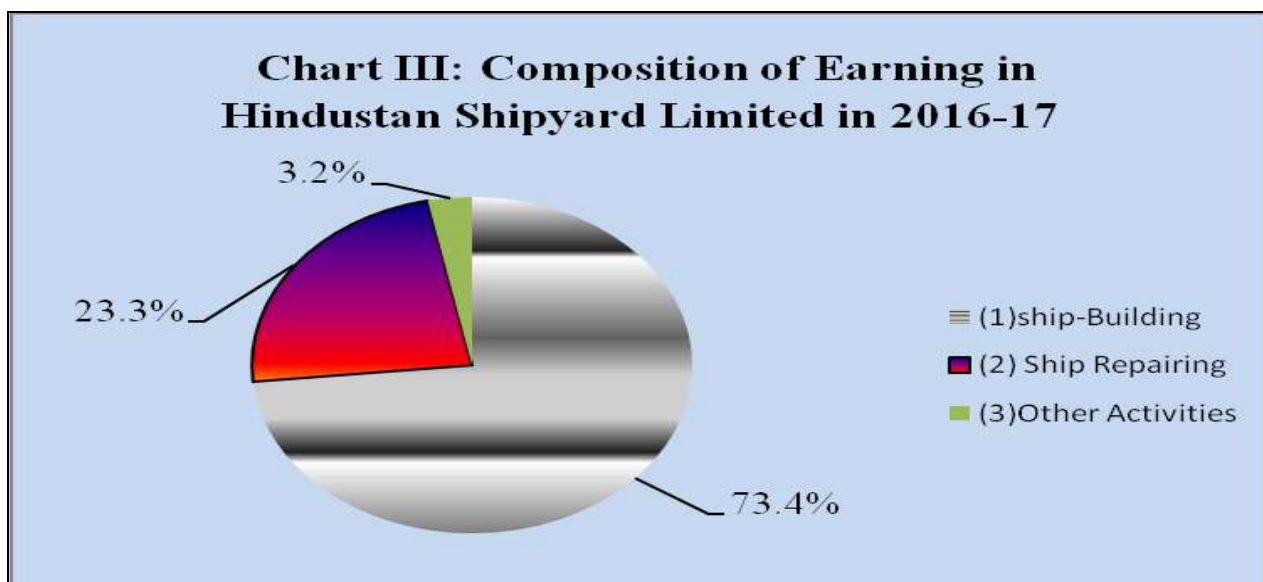


8.3 HINDUSTAN SHIPYARD LIMITED (HSL)

8.3.1 Hindustan Shipyard Limited is located in the east coast of the Indian peninsula, near Visakhapatnam. It is a premier ship building organisation engaged in ship building, ship repairs and offshore and onshore structures. It was established in the year 1941 by Scindia Steam Navigation Company. The Government of India took over the shipyard in the year 1952. Some of the unique features of this shipyard include:-

- This is the first shipyard in the country to obtain ISO-9001 accreditation for shipbuilding and structural fabrication
- Regularly imparts training to Graduate Engineers and Diploma holders as apprentices under Apprenticeship Act
- The yard has capacity to construct and repair ships up to 80,000 DWT each.

8.3.2 The percentage share of income earned by Hindustan Shipyard Ltd. during 2016-17 from ship building, ship repairing and other activities are shown in chart III.



9. NATIONAL SHIP DESIGN AND RESEARCH CENTRE (NSDRC), VISAKHAPATNAM

NSDRC is a Registered Society under the Registration of Societies Act XXI of 1860. In 1989, it came under the administrative control of the Ministry of Shipping is managed by a Governing Body with Secretary (Shipping) as the Chairman. The centre has become fully operational since May, 1993. NSDRC is designed to provide support to the Indian Shipbuilding Industry in the field of Ship Design, research in hydrodynamic structures, ocean water transport economy etc. The IMU Visakhapatnam Campus emerges from the confluence of the centrally established Indian Maritime University at Chennai, and the National Ship Design and Research Centre (NSDRC), India's premier ship design and maritime research institution. Pioneered in the early 90's by the Government of India to pilot and consolidate national domain knowledge with global vision, NSDRC has undertaken several milestone projects in the areas of Ship Design, Construction and Applied Research. Therefore, IMU Visakhapatnam Campus heralds the integration of visionary academic insight with the accumulated professional expertise and knowledge base on Ship Design and Maritime Technology.

10. MEASURES TO PROMOTE DOMESTIC SHIPBUILDING & REPAIR

A number of measures have been initiated by Ministry of Shipping to improve the viability of the ship manufacture and ship repair industry and encourage private sector participation, with emphasis on:

10.1 RESEARCH

The Department of Shipping has a scheme for providing grants-in-aid to educational and research institutions for carrying out Research and studies in shipbuilding. Since the 8th Plan eleven R&D projects have been executed under this scheme.

10.2 SUBSIDY AND BUDGETARY SUPPORT TO INDIAN SHIPBUILDING INDUSTRY

(a) Prior to the introduction of the scheme of payment of subsidy directly to the Public Sector Shipyards in 1981, a “Pricing Policy” existed since 1971, as per which the price of the vessels built by Indian Public Sector Yards was fixed by the government based on the valuation made by three international valuers. This was called the “International Parity Price” where the ship-owner would pay the international price and an additional 5% of the above towards partial cost of import substitution. In addition, Government would also pay the yard 5% towards the price differential of certain major components. Ship owners would also pay escalation due to statutory rise of price of controlled items, variations in customs duty and increase in wages.

(b) In 1981, Government brought in a major change in the policy wherein a subsidy equivalent to 20% of the International Parity Price was payable directly to the shipyard and the ship owners paid an additional 10% of the international parity price towards partial cost of import substitution.

(c) In 1997, Government further amended the subsidy scheme, applicable to both domestic and export orders, as follows:

(i) The yard was to participate in an open global tender and was to be permitted to match the lowest bid and in the case of a negotiated price the *modus operandi* was to be worked out by Ministry of Shipping in consultation with Ministry of Finance.

(ii) Fixation of price was to be in US\$ /JPY and payment was to be in INR at the exchange rate applicable on the date of payment.

(iii) Ships for which the import component was likely to exceed the price of the vessel would not be built indigenously.

(iv) Indian owners were to be permitted to raise External Commercial Borrowings.

(d) The above scheme was again further amended in 2002 extending the scheme to non-Central Public Sector shipyards and Private sector yards also with the stipulation that subsidy was to be calculated on the price at which the yard won the global tender and in case of price negotiation, a “Price Reasonableness Certificate” would have to be obtained from Director General of Shipping and based on which an “In Principle Approval” was to be issued by Ministry of Shipping. The Scheme was applicable up to August 14, 2007. The subsidy disbursed to Shipbuilding activity from 2003-04 to 2016-17 is presented in **Tables 1 and 2** below:-

Table –1: Shipbuilding- Total Subsidy Disbursed in term of Public Vs Private sector (Rupees in Crore)			
Year	Public Shipyards	Private Shipyards	Total
2003-04	10.00	Nil	10.00
2004-05	15.00	Nil	15.00
2005-06	101.53	Nil	101.53
2006-07	110.52	Nil	110.52
2007-08	169.96	19.28	189.24
2008-09	131.71	Nil	131.71
2009-10	107.40	71.80	179.20
2010-11	70.91	128.19	199.10
2011-12	5.77	116.65	122.42
2012-13	Nil	220.00	220.00
2013-14	Nil	179.00	179.00
2014-15	Nil	Nil	Nil
2015-16	Nil	Nil	Nil
2016-17	Nil	Nil	Nil

Table- 2: Shipbuilding- Total Subsidy Disbursed in term of Domestic Vs Export order (Rupees in Crore)			
Year	Domestic Orders	Export Orders	Total
2003-04	Nil	10.00	10.00
2004-05	Nil	15.00	15.00
2005-06	50.53	51.00	101.53
2006-07	40.52	70.00	110.52
2007-08	42.23	147.01	189.24
2008-09	22.80	108.91	131.71
2009-10	18.96	160.24	179.20
2010-11	Nil	199.10	199.10
2011-12	Nil	122.42	122.42
2012-13	Nil	220.00	220.00
2013-14	Nil	179.00	179.00
2014-15	Nil	Nil	Nil
2015-16	Nil	Nil	Nil
2016-17	Nil	Nil	Nil

10.3 The Government of India has introduced a Rs. 4000 Crores Shipbuilding Financial Assistance Policy for 10 years to encourage domestic shipbuilding. Financial assistance will be granted to Indian Shipyards equal to 20% of the lower of “Contract Price” or the “Fair Price” of each vessel built by them for a period of atleast 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.

11. STRUCTURE OF THE PUBLICATION

The present publication provides an overview of the current status of the ship-building industry & ship-repairing industry under five sections.

Section I gives a brief account of India’s Ship Building capacity as on 31st March 2017.

Section II contains information on Ship Repair Capacity of the Companies and Major Ports. This also contains Tables on Ship Repair Facilities available at Major Ports.

Section III provides data on the employment in Ship Building/Ship Repairing.

Section IV gives company-wise financial statistics.

Section V provides global perspective on the shipbuilding industry followed by glossary and terminology of Shipbuilding and Ship repairing given in appendix.

Section-1

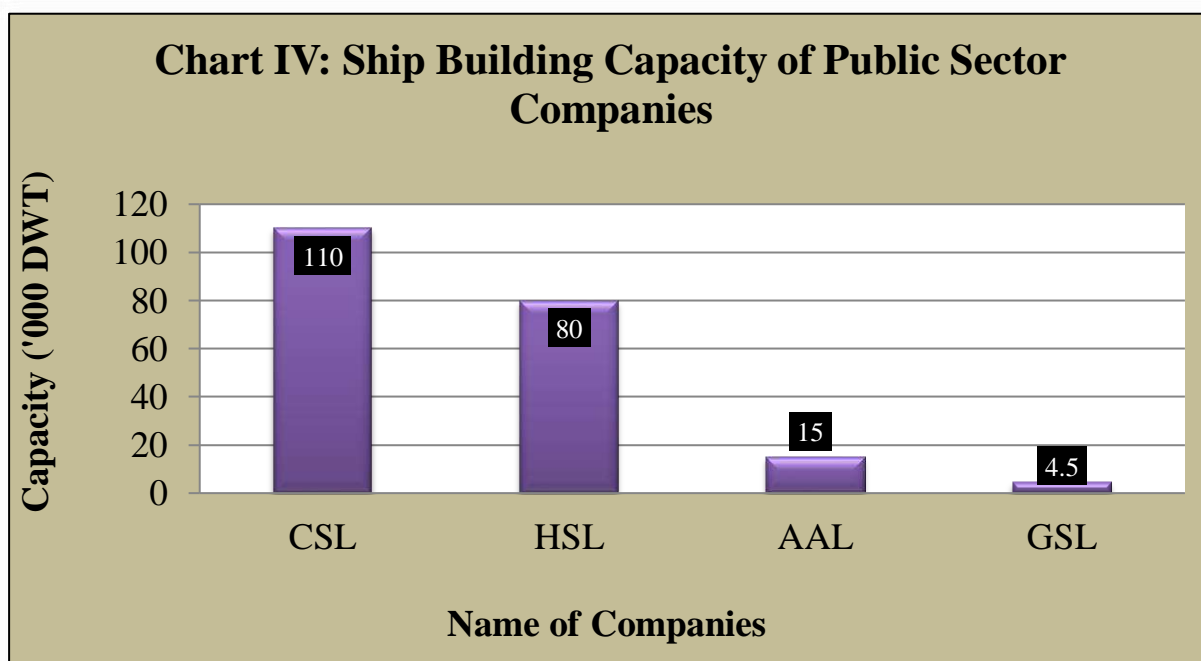
INDIA'S SHIP-BUILDING INDUSTRY

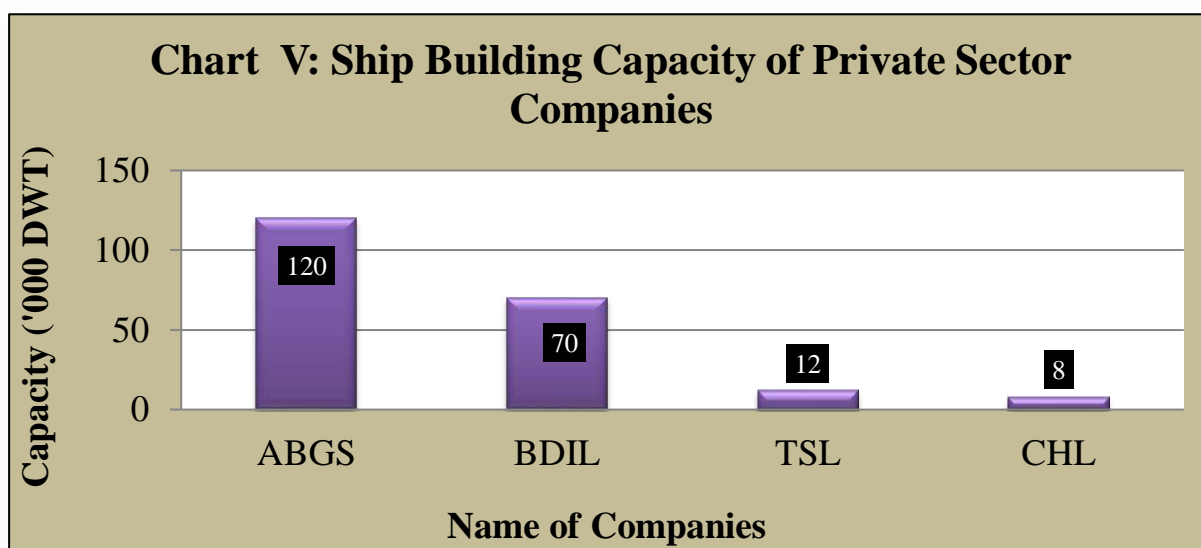
INDIA'S SHIPBUILDING INDUSTRY

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) possessed the maximum ship building capacity (110 thousand DWT) followed by Hindustan Shipyard Ltd. (HSL) (80 thousand DWT), Alcock Ashdown Ltd (AAL) (15 thousand DWT) and Goa Shipyard Ltd. (GSL) (4.50 thousand DWT). Amongst the reporting private sector companies, ABG Shipyard Ltd. (ABGS) possessed the maximum ship building capacity (120 thousand DWT) followed by Bharti Defence & Infrastructure Ltd. (BDIL) (70 thousand DWT), Tebma Shipyard Ltd. (TSL) (12 thousand DWT) and Chowgule & Co. Ltd. (CHL) (8 thousand DWT). Charts IV and V presents the ship building capacity (in terms of their DWT) of some of the big shipbuilding companies as on 31st March 2017 in public & private sector.





SHIPS ON ORDER

1.3 Indian ship-building companies at the end of 2016-17 had orders of 248 ships with DWT 2188.81 thousand tonnes. As on 31st March, 2017 the public sector shipyards had orders of 78 ships of 206.74 thousand DWT. Out of these, 3 ships of 0.90 thousand DWT were export order and remaining were orders from domestic companies. In terms of numbers, Garden Reach Ship-Building & Engineers Ltd. had the highest number of ships on order (19) followed by Goa Shipyard Ltd (15), Mazagon Dock Ltd. (14) and Hindustan Shipyard Ltd. (10). Order book in terms of DWT was highest for Cochin Shipyard Ltd. at 73.69 thousand DWT followed by Mazagon Dock Ltd with 64.10 thousand DWT and Hindustan Shipyard Ltd. with 56.91 thousand DWT.

1.4 In private sector category as on 31st March, 2017, the shipyards had orders for 170 ships of total 1982.07 thousand DWT. Out of these, 61 ships with total capacity of 1697.58 thousand DWT were export orders. Amongst the reporting ship building companies in the private sector, Bharti Defence & Infrastructure Ltd. had the highest number of ships on order (56) with a total capacity of 216.49 thousand DWT followed by ABG Shipyard Ltd. (47) number of ships on order with a total capacity of 595.91 thousand DWT in 2016-17.

COMPOSITION OF ORDER BOOK POSITION:

1.5 In the current order book, out of total 248 ships, 78 are with public sector yards and 170 are with private sector yards amounting to 206.74 thousand DWT and 1982.07 thousand DWT respectively. In term of vessel types, bulk cargo had largest contribution in the order book position in both public and private sector as compared to other vessel types. **Table 3** gives the Order Book with Indian Shipyards as on 31st March, 2017.

Table- 3: Current Order Book By Types of Vessels as on 31st March, 2017							
(‘000 DWT)							
Vessel		Tankers	Dry Cargo	Bulk Cargo	Passengers	Others	Total
Type	Yards						
Public Sector	No.	7	-	1	8	62	78
	DWT	4.23	-	53.00	10.22	139.29	206.74
Private Sector	No.	-	24	23	2	121	170
	DWT	-	1160.30	644.00	2.24	175.53	1982.07
Total	No.	7	24	24	10	183	248
	DWT	4.23	1160.30	697.00	12.46	314.82	2188.81

SHIPS DELIVERED

1.6 During the year 2016-17, among public sector companies, Cochin Shipyard Ltd. delivered highest tonnage with 45.54 thousand DWT consisting of 5 ships followed by Goa Shipyard Ltd at 0.99 thousand DWT (9 ships) and Hindustan Shipyard Ltd. at 0.46 thousand DWT (3 ships). Amongst reporting companies in the private sector, the highest tonnage was delivered by Modest Infrastructure Pvt. Ltd. of 3.30 thousand DWT (1 ship) followed by A.C. Roy & Comp. Ltd. at 0.38 thousand DWT (4 ships). Amongst reporting companies, in terms of tonnage delivered, the public sector and private sector accounted for a share of 92.2% (47.45 thousand DWT) and 7.8% (4.04 thousand DWT)* respectively in the total tonnage (51.49 thousand DWT) delivered during 2016-17.

* Last reported data has been repeated for Pipavav i.e. 2014-15 & Sembamarine Kakinada Ltd. i.e. 2015-16 and so it is excluded from the total.

1.7 **Table 4** depicts the size and number of ships delivered by both public and private ship yards in India during 2015-16 and 2016-17.

Table No. 4 : Size and Number of Ships Delivered				
Name of the Company	Ship Delivered			
	2015-16		2016-17	
	No.	DWT('000)	No.	DWT('000)
(1)	(2)	(3)	(4)	(5)
A. PUBLIC SECTOR (Total)	32	48.51	23	47.45
1. Alcock Ashdown & Co. Ltd.	0	0	0	0
2. Cochin Shipyard Ltd.	6	1.50	5	45.54
3. Garden Reach Ship- Builders & Engineers	1	45.00	4	0.41
4. Goa Shipyard Ltd.	15	1.27	9	0.99
5. Hindustan Shipyard Ltd.	3	0.46	3	0.46
6. Hooghly Dock & Port Engineers Ltd.	4	0.24	-	-
7. Mazagon Dock Ltd.	2	-	1	-
8. Shalimar Works Ltd.	1	0.04	1	0.05
B. PRIVATE SECTOR (Total)	23	94.53	13	80.54
9. Dempo Shipbuilding & Engineering Ltd.	-	-	4	-
10. ABG Shipyard Ltd.	3	1.70	-	-
11. Bharati Shipyard Ltd.	2	0.03	-	-
12. Chowgule & Co. Ltd.	4	2.65	-	-
13. Ferromar Shipping Pvt. Ltd.	-	-	-	-
14. Vedanta Ltd.	-	-	-	-
15. A.C. Roy & Comp. Ltd.	3	1.49	4	0.38
16. Bristol Boats	-	-	-	-
17. Tebma Shipyard Ltd.	4	5.56	1	0.36
18. Larsen & Toubro Ltd.	2	5.00	-	-
19. N.N. Shipbuilders & Engineers Ltd.	-	-	-	-
20. Pipavav***	3	76.50	3	76.50
21. Modest Infrastructure Pvt. Ltd.	2	1.60	1	3.30
22. Chidambaram Shipcare Pvt. Ltd.	-	-	-	-
23. Sembmarine Kakinada Ltd***	-	-	-	-
24. Neptunus PPS Pvt. Ltd.
25. A.S. Moloobhoy Pvt. Ltd.
Grand Total (A + B)	55	143.04	36	127.99

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 1.1

Ship Building Capacity of the Company By Types & Size
(As on 31st March, 2017)

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)	(a) Bulk Carrier (b) Tankers (c) Tugs/Barges/OSV	130.00 130.00 63.00	20.00 20.00 14.60	8.70 8.70 4.00	15.00 15.00 1.20
2	Cochin Shipyard Ltd.(CSL)	All types of ships including bulk carriers, oil tankers, passenger vessels, tugs, dredgers etc.	250.00	38.00	5.00	110.00
3	Garden Reach Ship-Builders & Engineers Ltd. (GRSE)	(a) Anti-submarine warfare corvettes (b) Landing Craft Utility (c) Water Jet Fast Attack Craft (d) Fast Patrol Vessel	109.10 62.80 48.90 48.90	12.80 11.00 7.50 7.50	4.25 1.70 2.12 2.12	0.11 0.22 0.06 0.06
4	Goa Shipyard Ltd.(GSL)	Advanced Offshore Petrol Vessels, Fast Patrol Vessels. Fast Attack Crafts, Survey Vessels, Sail Train-ing Ships, Missile Crafts, Landing Crafts, Tugs, Dredgers, Launches, Passenger Ferries, Fishing Vessels, GRP boats and other medium sized sophisticated vessels	130.00	20.00	5.00	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)	a) Tanker b) Dredger/Passengers/Light Ship c) Work accomodation Boat d) Cargo/Tug/Trawler	67.00 90.00 24.00 30.00	12.50 16.00 8.00 12.00	4.00 4.50 1.50 4.50	1.20 3.00 0.06 -
7	Mazagaon Dock Ltd.(MDL)	Annual capacity is 0.97 EFU (Effective Frigate Unit)				
8	Shalimar Works Ltd.(SWL)	Barge/Ferry Craft	65.00	12.00	3.50	0.05
B.	<u>PRIVATE SECTOR</u>					
9	Dempo Shipbuilding & Engineering Pvt Ltd.(DSEL)	(a) MBC/Barges/Hopper Barges/Crane Barges/Pontoons/Tankers (b) Tugs/Dredger (c) Pilot Launches	100.00 60.00 25.00	20.00 14.00 8.00	3.50 3.50 2.50	5.50 - -
10	ABG Shipyard Ltd.(ABGS)	Anchor handling tugs & supply vessels, diving support vessels. Well head maintenance vessels, dynamic positioning vessels, tugs, offshore support vessels. Bulk carriers, tankers, floating cranes, pollution control vessels, special purpose vessels. Handymax and Supramax Bulk Carriers, Anchor handling tugs & supply vessels, offshore support vessels, tankers, special purpose vessels, Platform Supply Vessels.	150.00 231.00	22.00 47.00	8.50 13.00	20.00 120.00
11	Bharti Defence & Infrastructure Ltd. (BDIL)	All types of Ships upto 250.0 meter in length Presently Incl. Cargo vessels, (Dry & bulk), Tankers Passenger Vessels/Ferries, Off shore petrol vessels, off-shore support/supply vessels, AHTS,Tugs, Tankers,Dredgers, Ro-Ro vessels etc.	250.00	45.00	5.50	70.00
12	Chowgule & Co. Ltd. (CHL)	(a) Sea going Multipurpose Cargo Carriers, Container Carriers, Tankers, Dredgers. (b) River sea vessel (RSV) Type I to IV (c) Offshore Patrol Vessel and other support vessel for Indian Navy and Indian Coast Guard (d) Tugs, Offshore Support vessels. (e) ICE Class Vessel, Multipurpose Cargo Vessels.	110.00 110.00 90.00 60.00 110.00	18.00 18.00 16.00 16.00 18.00	3.30 3.30 3.30 3.30 3.30	8.00 6.00 - - 8.00
13	Ferromar Shipping Pvt. Ltd. (FSL)	I.R.S. Type for heavy cargo Bureau Veritas for heavy cargo	70.00 64.00	13.00 11.50	1.20 1.20	2.00 1.20

Table No. 1.1 Cont...

Ship Building Capacity of the Company By Types & Size
(As on 31st March, 2017)

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)
B.	<u>PRIVATE SECTOR (Contd.)</u>					
14	Vedanta Limited	All types of vessels	80.00	15.00	9.10	2.40
15	A.C.Roy & Co. Ltd.(ACRL)	(a) Launch	26.00	7.00	2.50	0.04
		(b) Tug	20.00	6.00	2.50	0.03
		(c) Barge	65.00	12.00	3.00	1.50
16	Bristol Boats(BB)	(a) FRP Petrol Crafts	20.00	5.00	4.00	0.05
		(b) Others	12.00	4.00	3.50	0.015
17	Tebma Shipyard Ltd. (TSL)	Offshore Vessels (PSV, MPSV, AHTs), Geo Technical Survey Vessels, Harbour craft all type Tugs, Dredgers, Launches, Barges, Ferries, Cargo vessels	125.00	22.00	6.00	12.00
18	L&T Shipbuilding Ltd.	Any type of Commercial/ Defence Vessels upto a length of 200 mtr. And beam of 46 mtr.				
19	N N Shipbuilders and Engineers Pvt. Ltd(NNSE)	(a) Tugs	40.00	10.00	2.30	-
		(b) Pontoons	40.00	12.00	4.00	-
		(c) Ferry/Barges	30.00	10.00	2.30	-
20	Pipavav(PPV) ***	Cargo Ships, Naval Vessels and submarines Offshore vessels, Rigs, Platforms & others i.e. Dredgers Passengersvessels etc.	350.00	63.00	-	400.00
21	Modest Infrastructure Pvt. Ltd. (MIPL)	a) Fuel Barge/Oil Tanker	58.00	11.00	3.00	0.50
		b) Multi Purpose Vessel	72.00	13.00	2.50	0.80
		c) Product Tanker	60.00	12.00	3.20	1.00
		d) Cement Carrier	78.00	13.50	3.00	2.20
		e) Ferry Craft	72.00	12.80	2.80	200 men
		f) Tug	33.00	11.50	4.10	Bollard Pull- 65 T
		g) Offshore Survey Vessel	59.20	15.00	2.50	-
		h) Axiliary Vessel	80.00	13.00	2.80	-
		i) Dredger	27.00	12.00	2.50	1250 m3/hr
		j) Offshore Dumb Barge	72.00	20.00	3.50	3.50
22	Chidambaranar Shipcare Pvt. Ltd. (CSPL)	
23	Sembmarine Kakinada Ltd. (SKL) ***	Offshore Vessels, Barges, Bulk carrier, Drill ships, Tankers, Tugs, Geo-technical vessels, Diving Support vessels, Passenger vessels and others.	200.00	40.00	8.50	50.00
24	Neptunus Power Plant Services Pvt. Ltd.
25	A.S. Molobhoy Pvt. Ltd.

*** No updated information is received from these companies. Hence last reported data has been repeated for Pipavav (2014-15) & Sembmarine Kakinada Ltd (2015-16).

Table No. 1.2

**Ship Building Capacity - By Company-wise
(2013-14 to 2016-17)**

(DWT in thousand tons)

Name of The Company	2013-14	2014-15	2015-16	2016-17
(1)	(2)	(3)	(4)	(5)
<u>A. PUBLIC SECTOR</u>				
1. Alcock Ashdown (Gujarat) Ltd.	15.00	15.00	15.00	15.00
2. Cochin Shipyard Ltd.	110.00	110.00	110.00	110.00
3. Garden Reach Ship-Builders & Engineers Ltd.	0.55	0.55	0.55	0.22
4. Goa Shipyard Ltd.	4.50	10.00	4.50	4.50
5. Hindustan Shipyard Ltd.	80.00	80.00	80.00	80.00
6. Hooghly Dock & Port Engineers Ltd.	12.00	12.00	3.00	3.00
7. Mazagon Dock Ltd.	* *
8. Shalimar Works Ltd.	1.20	1.20	1.20	0.05
<u>B. PRIVATE SECTOR</u>				
9. Dempo Shipbuilding and Engineering Ltd.	5.50	5.50	5.50	5.50
10. ABG Shipyard Ltd.	20.00	20.00	20.00	120.00
11. Bharati Defence & Infrastructure Ltd.	70.00	70.00	70.00	70.00
12. Chowgule & Co. Ltd.	8.00	8.00	8.00	8.00
13. Ferromar Shipping Pvt. Ltd.	3.00	2.00	2.00	2.00
14. Vedanta Ltd.	-	-	-	2.40
15. A.C.Roy & Co. Ltd.	1.50	1.50	1.50	1.50
16. Bristol Boats	0.05	0.05	0.05	0.05
17. Tebma Shipyard Ltd.	12.00	12.00	12.00	12.00
18. L&T Shipbuilding Ltd.	65.00	30.00	30.00	*
19. N N Shipbuilders And Engineers Pvt Ltd	-	-	-	-
20. Pipavav ***	400.00	400.00	400.00	400.00
21. Modest Infrastructure Pvt. Ltd.	...	3.50	3.50	3.50
22. Chidambaranar Shipcare Pvt. Ltd.
23. Sembmarine Kakinada Ltd.***	...	50.00	50.00	50.00
24. Neptunus Power Plant Services Pvt. Ltd.
25. A.S. Moloobhoy Pvt. Ltd.

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

** Annual capacity is 0.97 EFU (Effective Frigate Unit)

*** No updated information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e.2015-16.

Table No. 1.3

Ship Order Book Position by Type of Vessels
(As on 31st March, 2017)

(DWT in thousand tons)

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
A. Public Sector																								
1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-	-	-	-	-	-	5	1.11	-	-	-	-	-	-	-	-	-	-	5	1.11
2. Cochin Shipyard Ltd.	-	-	-	-	-	-	4	10.17	-	-	1	3.52	-	-	-	-	-	-	-	-	3	60.00	8	73.69
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	19	2.51	-	-	-	-	-	-	-	-	-	19	2.51	
4. Goa Shipyard Ltd.	4	4.00	-	-	-	-	-	-	-	-	7	3.23	-	-	-	-	-	-	-	-	1	-	12	7.23
5. Hindustan Shipyard Ltd.	-	-	-	-	1	53.00	-	-	-	-	2	3.42	1	0.19	-	-	-	-	-	-	6	0.30	10	56.91
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	64.10	14	64.10
8. Shalimar Works Ltd.	3	0.23	-	-	-	-	4	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	7	0.28	
Total	7	4.23	0	0.00	1	53.00	8	10.22	0	0.00	34	13.80	1	0.19	0	0.00	0	0.00	0	0.00	24	124.40	75	205.84
B. Private Sector																								
9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
10.ABG Shipyard Ltd.	-	-	-	-	10	180.00	-	-	-	-	3	2.65	-	-	-	-	21	58.16	-	-	-	34	240.81	
11.Bharati Defence & Infrastructure Ltd.	-	-	-	-	-	-	2	2.24	-	-	1	3.70	-	-	-	-	1	2.00	-	-	26	2.77	30	10.71
12.Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3	0.00	
13.Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
14.Vedanta Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
15. A.C. Roy & Co. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	3.64	-	10	3.64	
16.Bristol Boats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
17.Tebma Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	1	0.36	-	1	0.36	
18.L&T Shipbuilding Ltd.**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	...	0	0.00	
19. N N Shipbuilders and Engineers Pvt Ltd #	-	-	-	-	-	-	-	-	-	-	4	0.47	-	-	-	-	-	-	-	-	-	4	0.47	
20. Pipavav ***	-	-	-	-	-	-	-	-	-	-	20	18.00	-	-	-	-	7	10.50	-	-	-	27	28.50	
21. Modest Infrastructure Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
22. Chidambaram Shipcare Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
23. Sembmarine Kakinada Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00	
24. Neptunus Power Plant Services Pvt. ltd.	0	0.00	
25. A.S. Moloobhoy Pvt. Ltd.	0	0.00	
Total	0	0.00	0	0.00	10	180.00	2	2.24	0	0.00	31	24.82	1	0.36	0	0.00	29	70.66	10	3.64	26	2.77	109	284.49
Total (A + B)	7	4.23	0	0.00	11	233.00	10	12.46	0	0.00	65	38.62	2	0.55	0	0.00	29	70.66	10	3.64	50	127.17	184	490.33

0.47 is Displacement of Ship

Table No. 1.3 (Contd.)

Ship Order Book Position by Type of Vessels
(As on 31st March, 2017)

(DWT in thousand tons)

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/Passenger-cum-		Product Carriers		Others		Port Craft		Fishing Trawlers		Off-shore Sector		IWT		Others		Total (A + B)	
	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
A. Public Sector																								
1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
2. Cochin Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	3	0.90	-	-	-	-	-	-	-	-	-	-	3	0.90
5. Hindustan Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
8. Shalimar Works Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
Total	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	3	0.90	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	3	0.90
B. Private Sector																								
9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
10. ABG Shipyard Ltd.	-	-	-	-	7	344	-	-	-	-	-	-	-	-	-	-	6	11.1	-	-	-	-	13	355.10
11. Bharati Defence & Infrastructure Ltd.	-	-	5	25.90	6	120.00	-	-	4	25.00	-	-	-	-	-	-	11	34.88	-	-	-	-	26	205.78
12. Chowgule Shipping Ltd.	-	-	4	16.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	16.90
13. Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
14. Vedanta Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
15. A.C. Roy & Co. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
17. Tebma Shipyard Ltd.	0	0.00
18. L&T Shipbuilding Ltd.**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.30	-	-	-	-	3	2.30
19. N N Shipbuilders and Engineers Pvt Ltd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
20. Pipavav ***	-	-	15	1117.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	1117.50
21. Modest Infrastructure Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
22. Chidambaram Shipcare Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
23. Sembmarine Kakinada Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
24. Neptunus Power Plant Services Pvt. Ltd.	0	0.00
25. A.S. Moloobhoy Pvt. Ltd.	0	0.00
Total	0	0.00	24	1160.30	13	464.00	0	0.00	4	25.00	0	0.00	0.00	0.00	0.00	0.00	20.00	48.28	0.00	0.00	0.00	0.00	61	1697.58
Total (A + B)	0	0.00	24	1160.30	13	464.00	0	0.00	4	25.00	3	0.90	0	0.00	0	0.00	20	48.28	0	0.00	0	0.00	64	1698.48

** Data pertains only of its commercial ships. Data of Defence vessels not included.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 1.3 (a)

**Total Ship Order Book of Vessels by Domestic Order and
by Export Order (As on 31st March, 2017)**

(DWT in thousand tons)

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
A. Public Sector						
1. Alcock Ashdown (Gujarat) Ltd.	5	1.11	0	0.00	5	1.11
2. Cochin Shipyard Ltd.	8	73.69	0	0.00	8	73.69
3. Garden Reach Ship-builders & Engineers Ltd.	19	2.51	0	0.00	19	2.51
4. Goa Shipyard Ltd.	12	7.23	3	0.90	15	8.13
5. Hindustan Shipyard Ltd.	10	56.91	0	0.00	10	56.91
6. Hooghly Dock & Port Engineers Ltd.	0	0.00	0	0.00	0	0.00
7. Mazagon Dock Ltd.	14	64.10	0	0.00	14	64.10
8. Shalimar Works Ltd.	7	0.28	0	0.00	7	0.28
Total	75	205.84	3	0.90	78	206.74
B. Private Sector						
9. Dempo Shipbuilding & Engineering Ltd.	0	0.00	0	0.00	0	0.00
10. ABG Shipyard Ltd.	34	240.81	13	355.10	47	595.91
11. Bharati Defence & Infrastructure Ltd. \$	30	10.71	26	205.78	56	216.49
12. Chowgule Shipping Ltd.	3	0.00	4	16.90	7	16.90
13. Ferromar Shipping Pvt. Ltd.	0	0.00	0	0.00	0	0.00
14. Vedanta Ltd.*	0	0.00	0	0.00	0	0.00
15. A.C. Roy & Co. Ltd.	10	3.64	0	0.00	10	3.64
16. Bristol Boats	0	0.00	0	0.00	0	0.00
17. Tebma Shipyard Ltd.	1	0.36	0	0.00	1	0.36
18. L&T Shipbuilding Ltd.**	0	0.00	3	2.30	3	2.30
19. N N Shipbuilders and Engineers Pvt Ltd	4	0.47	0	0.00	4	0.47
20. Pipavav ***	27	28.50	15	1117.50	42	1146.00
21. Modest Infrastructure Pvt. Ltd.	0	0.00	0	0.00	0	0.00
22. Chidambaranar Shipcare Pvt. Ltd.	0	0.00	0	0.00	0	0.00
23. Sembmarine Kakinada Ltd.***	0	0.00	0	0.00	0	0.00
24. Neptunus Power Plant Services Pvt. Ltd.	0	0.00	0	0.00	0	0.00
25. A.S. Moloobhoy Pvt. Ltd.	0	0.00	0	0.00	0	0.00
Total	109	284.49	61	1697.58	170	1982.07
Total (A + B)	184	490.33	64	1698.48	248	2188.81

** Data pertains only of its commercial ships. Data of Defence vessels not included.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 1.4

**No. of Ships on Order - Company-wise
2014-2017**

Name of the Company	As on 31st March			
	2014	2015	2016	2017
(1)	(2)	(3)	(4)	(5)
<u>A. PUBLIC SECTOR(Total)</u>	101	93	104	78
1. Alcock Ashdown (Gujarat) Ltd.	5	5	5	5
2. Cochin Shipyard Ltd.	15	7	11	8
3. Garden Reach Ship-Building & Engineers Ltd.	17	15	15	19
4. Goa Shipyard Ltd.	9	10	32	15
5. Hindustan Shipyard Ltd.	24	24	13	10
6. Hooghly Dock & Port Engineers Ltd.	6	4	0	0
7. Mazagaon Dock Ltd.	13	17	17	14
8. Shalimar Works Ltd.	12	11	11	7
<u>B. PRIVATE SECTOR(Total)</u>	249	199	192	170
9. Dempo Shipbuilding and Engg. Ltd.	0	0	1	0
10. ABG Shipyard Ltd.	66	64	63	47
11. Bharati Defence & Infrastructure Ltd.	61	61	57	56
12. Chowgule & Co. Ltd.	9	3	1	7
13. Ferromar Shipping Pvt. Ltd.	0	0	0	0
14. Vedanta Ltd	0	0	0	0
15. A.C.Roy & Co. Ltd.	3	9	9	10
16. Bristol Boats	0	0	0	0
17. Tebma Shipyard Ltd.	6	6	6	1
18. L&T Shipbuilding Ltd.**	55	8	8	3
19. N N Shipbuilders and Engineers Pvt Ltd	4	4	4	4
20. Pipavav ***	45	42	42	42
21. Modest Infrastructure Pvt. Ltd.	-	2	1	0
22. Chidambaram Shipcare Pvt. Ltd.	-	0	0	0
23. Sembmarine Kakinada Ltd.***	-	0	0	0
24. Neptunus Power Plant Services Pvt. Ltd.
25. A.S. Moloobhoy Pvt. Ltd.
C. Total (A + B)	350	292	296	248

** Data pertains only of its commercial ships. Data of Defence vessels not included.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 1.5

**Size And Number Of Ships Delivered, Company-wise
(2013-14 to 2016-17)**

Name of the Company	Year	Ship Delivered		Size ('000 DWT)	
		No.	DWT('000)	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)
<u>A. PUBLIC SECTOR</u>	2016-17	23	47.45		
	2015-16	32	48.51		
	2014-15	15	106.91		
	2013-14	26	196.71		
1. Alcock Ashdown (Gujarat) Ltd.	2016-17	0	0.00	0.00	0.00
	2015-16	0	0.00	0.00	0.00
	2014-15	1	0.13	0.13	0.13
	2013-14	1	0.13	0.13	0.13
2. Cochin Shipyard Ltd.	2016-17	5	45.54	45.54	45.54
	2015-16	6	1.50	1.50	1.50
	2014-15	7	10.60	4.00	1.10
	2013-14	10	19.70	4.00	1.10
3. Garden Reach Ship-Builders and Engineers Ltd.	2016-17	4	0.41	0.22	0.06
	2015-16	1	45.00	45.00	45.00
	2014-15	2	85.00	45.00	40.00
	2013-14	2	120.00	60.00	60.00
4. Goa Shipyard Ltd.	2016-17	9	0.99	0.46	0.062
	2015-16	15	1.27	0.46	0.014
	2014-15	2	0.44	0.44	0.004
	2013-14	6	0.92	0.43	0.002
5. Hindustan Shipyard Ltd.	2016-17	3	0.46	0.20	0.07
	2015-16	3	0.46	0.20	0.06
	2014-15	-	-	-	-
	2013-14	5	53.72	53.00	0.06
6. Hooghly Dock & Port Engineers Ltd.	2016-17	-	-	-	-
	2015-16	4	0.24	0.06	0.06
	2014-15	-	-	-	-
	2013-14	-	-	-	-
7. Mazagon Dock Ltd.	2016-17	1	-	-	-
	2015-16	2	-	-	-
	2014-15	2	10.70	7.30	3.40
	2013-14	-	-	-	-
8. Shalimar Works Ltd.	2016-17	1	0.05	0.05	0.05
	2015-16	1	0.04	0.04	0.04
	2014-15	1	0.04	0.04	0.04
	2013-14	2	2.24	1.12	1.12
<u>B. PRIVATE SECTOR</u>	2016-17	13.0	80.5		
	2015-16	23.0	94.5		
	2014-15	24.0	97.7		
	2013-14	30.0	213.0		
	2016-17	4	-	-	-
9. Dempo Shipbuilding & Engineering Ltd.	2015-16	-	-	-	-
	2014-15	1	2.90	2.90	2.90
	2013-14	2	6.30	3.15	3.15
	2016-17	-	-	-	-
10. ABG Shipyard Ltd.	2015-16	3	1.70	1.50	0.10
	2014-15	-	-	-	-
	2013-14	4	7.35	2.50	1.20
	2016-17	-	-	-	-
11. Bharati Defence & Infrastructure Ltd.	2015-16	2	0.03	0.02	0.02
	2014-15	4	0.64	0.21	0.02
	2013-14	2	6.21	4.11	2.10
	2016-17	-	-	-	-
12. Chowgule & Co. Ltd.	2015-16	4	2.65	2.65	2.65
	2014-15	4	3.10	1.55	1.54
	2013-14	3	14.97	6.00	3.32

Table No. 1.5

**Size And Number Of Ships Delivered, Company-wise
(2013-14 to 2016-17)**

Name of the Company	Year	DWT(in thousand tons)			
		Ship Delivered		Size (DWT)	
		No.	DWT	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)
13. Ferromar Shipping Pvt. Ltd.	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
14. Vedanta Ltd.	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	1	-	-	-
15. A.C.Roy & Comp. Ltd.	2016-17	4	0.38	0.23	0.04
	2015-16	3	1.49	1.44	0.03
	2014-15	3	1.49	1.44	0.03
	2013-14	-	-	-	-
16. Bristol Boats	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	3	20.10	6.70	6.70
17. Tebma Shipyard Ltd.	2016-17	1	0.36	0.36	0.36
	2015-16	4	5.56	4.65	0.36
	2014-15	4	5.56	4.65	0.36
	2013-14	6	7.55	4.65	2.90
18. L&T Shipbuilding Ltd**	2016-17	-	-	-	-
	2015-16	2	5.00	2.50	2.50
	2014-15	2	5.00	2.50	2.50
	2013-14	6
19. N N Shipbuilders and Engineers Pvt Ltd	2016-17
	2015-16
	2014-15
	2013-14
20. Pipavav ***	2016-17	3	76.50	73.50	1.50
	2015-16	3	76.50	73.50	1.50
	2014-15	3	76.50	73.50	1.50
	2013-14	3	150.50	74.50	1.50
21. Modest Infrastructure Pvt. Ltd.	2016-17	1	3.30	3.30	3.30
	2015-16	2	1.60	0.80	0.80
	2014-15	3	2.50	1.50	0.50
22. Chidambaram Shipcare Pvt. Ltd.	2016-17
	2015-16
	2014-15
23. Sembmarine Kakinada Ltd. ***	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
24. Neptunus Power Plant Services Pvt. Ltd.	2016-17
25. A.S. Moloobhoy Pvt. Ltd.	2016-17
Grand Total (A + B)	2016-17	36	127.99		
	2015-16	55	143.04		
	2014-15	39	204.60		
	2013-14	56	409.69		

** Data pertains only of its commercial ships. Data of Defence vessels not included.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 1.6**No. Of Ships On Order And No. Of Ships Delivered -Company-wise (2013-14 to 2016-17)**

Name of The Company	No. of Ships On Order During the year				Ships Delivered During the year			
	2013-14	2014-15	2015-16	2016-17	2013-14	2014-15	2015-16	2016-17
1	2	3	4	5	6	7	8	9
<u>A. PUBLIC SECTOR</u>	101	93	104	78	26	15	32	23
1. Alcock Ashdown (Gujarat) Ltd.	5	5	5	5	1	1	0	0
2. Cochin Shipyard Ltd.	15	7	11	8	10	7	6	5
3. Garden Reach Shipbuilders & Eng. Ltd	17	15	15	19	2	2	1	4
4. Goa Shipyard Ltd.	9	10	32	15	6	2	15	9
5. Hindustan Shipyard Ltd.	24	24	13	10	5	-	3	3
6. Hooghly Dock & Port Engineers Ltd.	6	4	0	0	-	-	4	-
7. Mazagon Dock Ltd.	13	17	17	14	-	2	2	1
8. Shalimar Works Ltd.	12	11	11	7	2	1	1	1
<u>B. PRIVATE SECTOR</u>	249	199	192	170	30	24	23	13
9. Dempo Shipbuilding & Engg. Ltd.	0	0	1	0	2	1	0	4
10. ABG Shipyard Ltd.	66	64	63	47	4	-	3	-
11. Bharati Defence & Infrastructure Ltd.	61	61	57	56	2	4	2	-
12. Chowgule & Co. Ltd.	9	3	1	7	3	4	4	-
13. Ferromar Shipping Pvt. Ltd.	0	0	0	0	-	-	-	-
14. Vedanta Ltd.	0	0	0	0	1	-	-	-
15. A.C.Roy & Comp. Ltd.	3	9	9	10	-	3	3	4
16. Bristol Boats	0	0	0	0	3	0	0	-
17. Tebma Shipyard Ltd.	6	6	6	1	6	4	4	1
18. L&T Shipbuilding Ltd **	55	8	8	3	6	2	2	-
19. N N Shipbuilders and Engineers Pvt Ltd	4	4	4	4	-	-	-	-
20. Pipavav ***	45	42	42	42	3	3	3	3
21. Modest Infrastructure Pvt. Ltd.	-	2	1	0	-	3	2	1
22. ChidambaramShipcare Pvt. Ltd.	-	0	0	0	-	-	-	-
23. Sembmarine Kakinada Ltd. ***	-	0	0	0	-	-	-	-
24. Neptunus Power Plant Services Pvt. Ltd.
25. A.S. Moloobhoy Pvt. Ltd.
TOTAL(A+B)	350	292	296	248	56	39	55	36

** Data pertains only of its commercial ships. Data of Defence vessels not included.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 1.7

No. Of Ships - By Keel Laid, Launched And Ships Under Construction, Company-wise (2013-14 to 2016-17)

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)
<u>A. PUBLIC SECTOR</u>					
1. Alcock Ashdown (Gujarat) Ltd.	2016-17	5	-	5	-
	2015-16	5	-	5	-
	2014-15	5	-	5	-
	2013-14	5	-	5	-
2. Cochin Shipyard Ltd.	2016-17	-	-	-	2
	2015-16	1	-	-	2
	2014-15	1	2	-	3
	2013-14	2	4	-	-
3. Garden Reach Ship-building & Engineers Ltd.	2016-17	-	3	4	11
	2015-16	3	6	-	6
	2014-15	5	3	2	3
	2013-14	4	2	1	5
4. Goa Shipyard Ltd.	2016-17	-	4	7	6
	2015-16	16	4	11	12
	2014-15	2	2	7	2
	2013-14	3	-	2	4
5. Hindustan Shipyard Ltd.	2016-17	6	-	-	4
	2015-16	6	1	5	6
	2014-15	3	-	-	4
	2013-14	3	-	1	3
6. Hooghly Dock & Port Engineers Ltd.	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	4	-	4	-
	2013-14	4	-	4	-
7. Mazagon Dock Ltd.	2016-17	-	1	-	-
	2015-16	-	1	-	-
	2014-15	-	-	-	-
	2013-14	3	3	1	-
8. Shalimar Works Ltd.	2016-17	-	-	4	1
	2015-16	-	-	5	2
	2014-15	-	-	5	2
	2013-14	2	-	5	2
<u>B. PRIVATE SECTOR</u>					
9. Dempo Shipbuilding & Engineering Ltd.	2016-17	-	-	-	-
	2015-16	-	-	1	-
	2014-15	-	-	-	-
	2013-14	-	-	-	1
10. ABG Shipyard Ltd.	2016-17	46	-	-	1
	2015-16	62	-	-	1
	2014-15	-	-	-	-
	2013-14	-	-	-	-
11. Bharati Defence & Infrastructure Ltd.	2016-17	-	-	40	8
	2015-16	-	3	36	8
	2014-15	-	4	39	9
	2013-14	-	-	39	7

Table No. 1.7(Contd...)

No. Of Ships - By Keel Laid, Launched And Ships Under Construction, Company-wise (2013-14 to 2016-17)

Name of The Company	Year	Keel-laid	Launched	No. of Ships	
				Under Constru- ction at Berth	Under Fitting at Jetty Quay
(1)	(2)	(3)	(4)	(5)	(6)
12. Chowgule & Co. Ltd.	2016-17	-	-	1	-
	2015-16	-	-	-	-
	2014-15	2	4	6	-
	2013-14	7	2	5	-
13. Ferromar Shipping Pvt. Ltd.	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
14. Vedanta Ltd.	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
15. A. C. Roy & Comp. Ltd.	2016-17	9	-	-	1
	2015-16	6	-	-	6
	2014-15	6	-	-	6
	2013-14	3	-	-	3
16. Bristol Boats	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
17. Tebma Shipyard Ltd.	2016-17	-	-	-	1
	2015-16	2	1	1	-
	2014-15	2	1	1	-
	2013-14	2	2	2	-
18. L&T Shipbuilding Ltd.**	2016-17	-	-	-	3
	2015-16	4	3	4	3
	2014-15	4	3	4	3
	2013-14	6	-	-	2
19. N N Shipbuilders and Engineers Pvt Ltd	2016-17	4	...
	2015-16	4	...
	2014-15	4	...
	2013-14	4	...
20. Pipavav ***	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
21. Modest Infrastructure Pvt. Ltd.	2016-17	-	-	-	-
	2015-16	-	1	-	1
	2014-15	2	1	1	4
22. Chidambaranar Shipcare Pvt. Ltd.	2016-17
	2015-16
	2014-15
23. Sembmarine Kakinada Ltd.***	2016-17	-	-	-	-
	2015-16	-	-	-	-
	2014-15	-	-	-	-
24. Neptunus Power Plant Services Pvt. Ltd.	2016-17
25. A.S. Molobhoy Pvt. Ltd.	2016-17
Total (A+B)	2016-17	66	8	65	38
	2015-16	105	20	72	47
	2014-15	36	20	78	36
	2013-14	44	13	69	27

** Data pertains only of its commercial ships. Data of Defence vessels not included.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

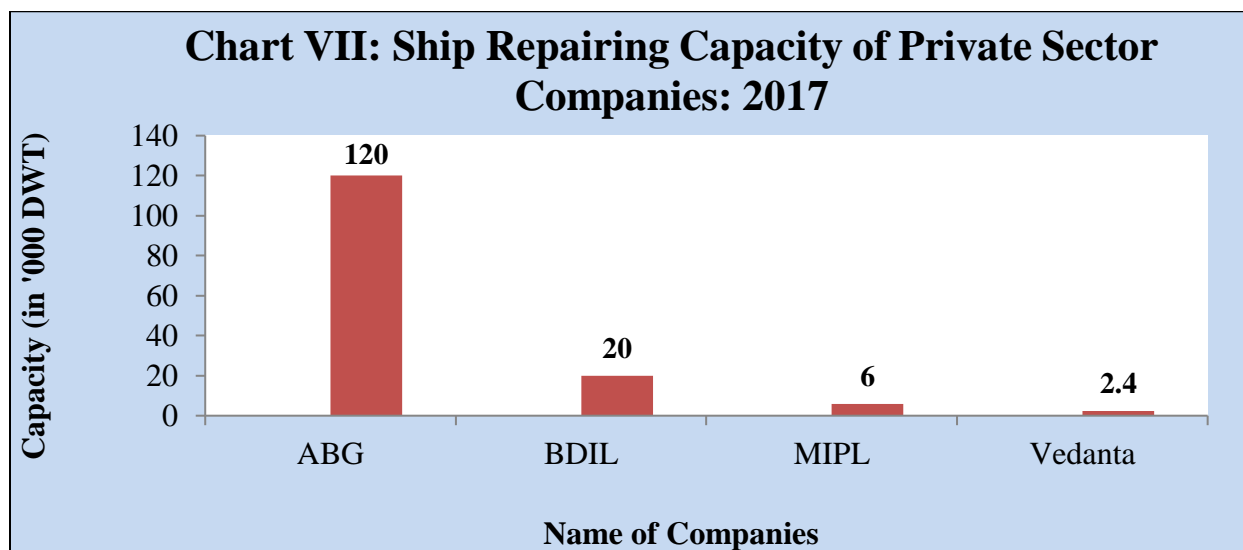
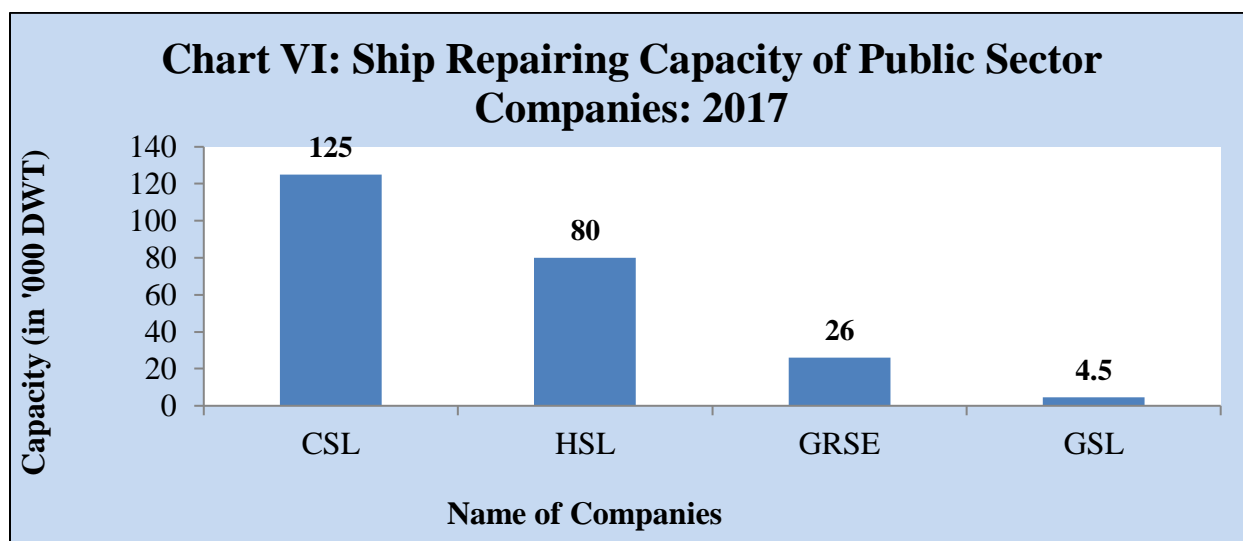
Section-2

INDIA'S SHIP-REPAIRING INDUSTRY

2. INDIA'S SHIP-REPAIRING INDUSTRY

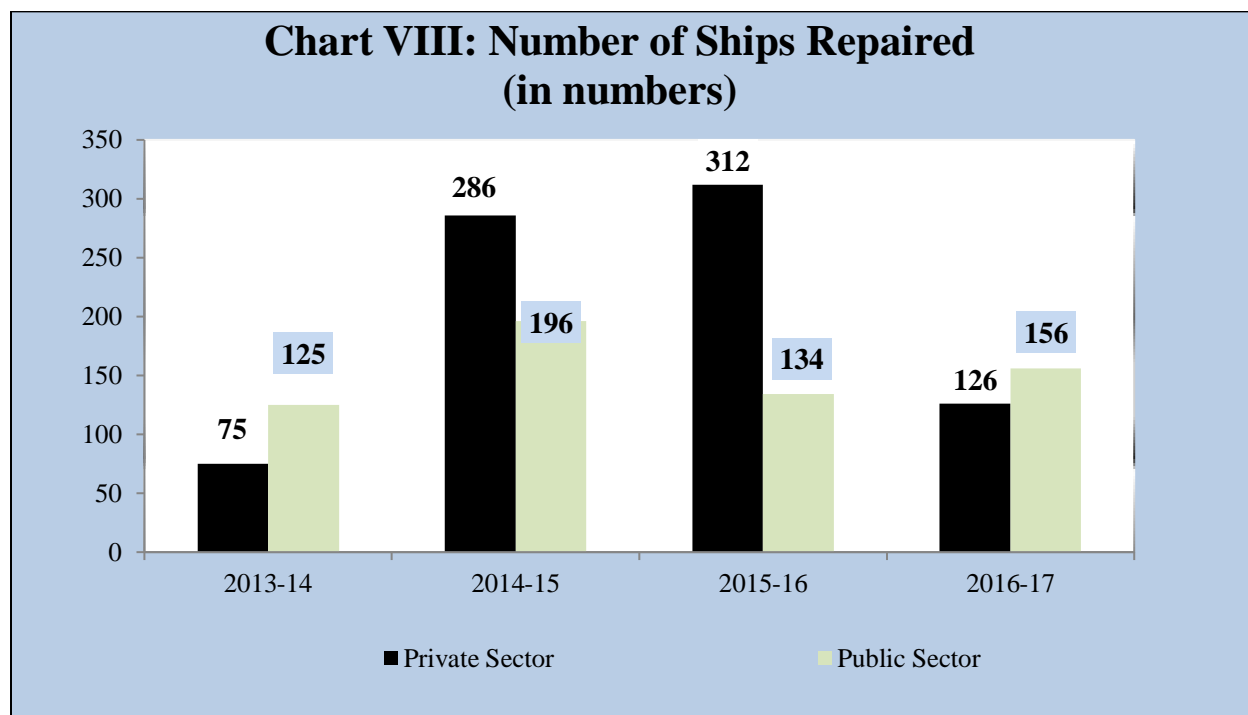
2.1 Ship repair capacity essentially reflects capability in terms of the number of ships repaired and maximum size of ship that can be repaired in terms of DWT.

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) , Garden Reach Shipbuilders and Engineers Ltd (GRSE) (26 thousand DWT) and Goa Shipyard Ltd. (GSL) (4.5 thousand DWT) in 2016-17. In private sector category amongst the reporting companies, ABG Shipyard Ltd. (ABG) (120 thousand DWT) followed by Bharati Defence & Infrastructure Ltd. (BDIL) (20 thousand DWT), Modest Infrastructure Pvt. Ltd. (MIPL) (6 thousand DWT) and Vedanta has (2.4 thousand DWT) ship-repairing capacities. Charts VI & VII depict the ship repairing capacity of major public and private sector shipbuilding yards as on 31st March 2017.



NUMBER OF SHIPS REPAIRED

2.3 In 2016-17 total 282 ships were repaired out of which 126 ships were repaired by private sector shipyards and 156 ships were repaired by public sector shipyards against 446 in 2015-16. Chart–VIII given below depicts comparative picture of the number of ships repaired by all public and private sector shipbuilding yards during 2013-14 to 2016-17.



2.4 In 2016-17 amongst the Public sector, Cochin Shipyard Ltd (CSL) had repaired the highest number of ships (128 ships with earning of Rs. 543.05 crore) followed by Goa Shipyard Ltd. (GSL) (15 ships with earning Rs 193.40 crore). In the private sector, amongst the reporting companies; Dempo Shipbuilding & Engg. Ltd.(DSEL) had the highest number of ships repaired (56 ships with earning Rs 8.24 crore) followed by A.C. Roy & Company Ltd. (ACRCL) (24 ships repaired with an earning of Rs 1.45 crore), L&T Shipbuilding Ltd (14 ships repaired with an earning of Rs. 77.32 crore) and Bristol Boats Ltd. (5 ships repaired with an earning of Rs. 1.71 crore).

2.5 Table Number -5 given below depicts the number of ships repaired and earnings by both public and private ship yards in India during 2015-16 and 2016-17.

Table No. 5 : Number of Ships Repaired and Earnings												
Name of The Company	2015-16						2016-17					
	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)	122	61182.16	12	6635.54	134	67817.70	156	88727.22	0	0	156	88727.22
1. Alcock Ashdown & Co. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
2. Cochin Shipyard Ltd.	89	35552.00	-	-	89	35552.00	128	54304.93	-	-	128	54304.93
3. Garden Reach Ship-Builders & Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
4. Goa Shipyard Ltd.	14	10459.43	12	6635.54	26	17094.97	15	19339.95	-	-	15	19339.95
5. Hindustan Shipyard Ltd.	16	15042.89	-	-	16	15042.89	12	15052.72	-	-	12	15052.72
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
8. Shalimar Works Ltd.	3	127.84	-	-	3	127.84	1	29.62	-	-	1	29.62
B. PRIVATE SECTOR (Total)	257	13668.97	55	2422.87	312	16091.84	119	15756.09	7	885.27	126	16641.36
9. Dempo Ship building & Engg. Ltd.	73	1218.62	-	-	73	1218.62	56	824.00	-	-	56	824.00
10. ABG Shipyard Ltd.	...	700.50	-	-	...	700.50	-	368.60	-	-	-	368.60
11. Bharati Defence & Infrastructure Ltd.	-	1019.92	-	-	-	1019.92	-	214.36	-	-	-	214.36
12. Chowgule Pvt. Ltd
13. Ferromar Shipping Pvt. Ltd.
14. Vedanta Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
15. A.C.Roy & Co. Ltd.	26	155.00	-	-	26	155.00	24	145.00	-	-	24	145.00
16. Bristol Boats	1	4.75	-	-	1	4.75	5	170.56	-	-	5	170.56
17. Tebma Shipyard Ltd
18. L & T Shipbuilding Ltd	23	3149.44	8	1332.57	31	4482.01	14	7731.94	-	-	14	7731.94
19 NN Shipbuilders & Engg. Pvt Ltd	-	-	-	-	-	-	-	-	-	-	-	-
20 Pipavav ***	-	-	-	-	-	-	-	-	-	-	-	-
21. Modest Infrastructure Pvt. Ltd.	-	-	-	-	-	-	1	82.26	-	-	1	82.26
22. Chidambaram Shipcare Pvt. Ltd	115	1201.37	40	205.03	155	1406.40	-	-	-	-	-	-
23. Sembmarine Kakinada Ltd.***	19	6219.37	7	885.27	26	7104.64	19	6219.37	7	885.27	26	7104.64
24 Neptunus PPS Pvt Ltd
25 A.S. Moloobhoy Pvt Ltd
Grand Total (A + B)	379	74851.13	67	9058.41	446	83909.54	275	104483.31	7	885.27	282	105368.58
Note : S : No. of Ships ; E : Earnings in Rs. Lakh; *** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.												

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, Table 2.6 & Table 2.7).

2.7 Available data on Ship repair facilities reveal that Kolkata Port has a maximum number of dry docks (5), Mumbai, Visakhapatnam, Kandla, Paradip and V.O. Chidambaranar ports have 1 Dry Dock each. The remaining major Ports do not have any ship repairing facilities. With regard to cranes availability and capacity, Kolkata port has five cranes followed by Mumbai port, Kandla Port, Visakhapatnam Port and Paradip Port (1 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. At Kolkata port, the charges are different for different dry docks.

Table No. 2.1

Ship Repairing Capacity Of The Company
(As on 31st March, 2017)

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
A.	<u>PUBLIC SECTOR</u>					
1	Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-
2	Cochin Shipyard Ltd.	All types of vessels	270.0	40.0	7.0	125.0
3	Garden Reach Shipbuilders and Engineers Ltd.	All types of diesel propulsion vessels	165.0	21.0	7.0	26.0
4	Goa Shipyard Ltd.	Advanced Offshore Petrol Vessels, Fast Patrol Vessels, Fast Attack Crafts, Survey Vessels, Sail Training Ships, Missile Crafts, Landing Crafts, Tugs, Dredgers, Launches, Passenger Ferries, Fishing Vessels, GRP boats and other medium sized sophisticated vessels	130.0	20.0	5.0	4.5
5	Hindustan Shipyard Ltd.	Cargo Vessels/Passenger Vessel/ Tugs/OPV/Dredgers/Naval Ships/ Oil Tankers/Fishing Trawlers, Floating Docks, Submarine Retrofit.	220.0	32.2	18.0	80.0
6	Hooghly Dock & Port Engineer Ltd.	Indian Coast Guard	45.0	12.0	4.0	-
		Inland Vessel	65.0	12.5	4.0	-
		Tanker/Cargo	65.0	12.3	4.0	-
7	Mazagon Dock Ltd.	Presently MDL is not carrying out any ship-repairing work.				
8	Shalimar Works Ltd.	Survey Vessels	55.0	11.0	3.0	0.07
		Tug/Launch	10.0	4.0	1.5	0.015
B.	<u>PRIVATE SECTOR (Contd.)</u>					
9	Dempo Shipbuilding and Engineering Ltd.	a) MBC/Barges/Hopper Barges/ Crane Barges/ Pantoons/ Tankers	85.0	16.0	2.2	-
		b) Pilot Launches	-	-	2.2	-
		c) Tugs	85.0	16.0	2.2	-
10	ABG Shipyard Ltd.	Anchor Handling Tugs, Supply Vessels, Offshore Support Vessels, Bulk Carriers, Tankers, Floating Cranes, Special Purpose Vessels, Tugs	150.0	22.0	8.5	20.0
		Handymax & Supramax bulk carriers, Anchor Handling Tugs & Supply Vessels, Offshore Support Vessels, Tankers, Special Purpose Vessels, Platform supply vessels.	231.0	47.0	13	120.0
11	Bharati Defence & Infrastructure Ltd.	All types of ships upto 155.0 mtrs in length presently including Cargo vessels, (Dry & bulk), Tankers, Passenger vessels/Ferries, Off shore petrol vessels, off-shore support/supply vessels, AHTS, Tugs, Tankers, Dredgers, Ro-Ro vessels etc.	155.0	25.0	5.5	20.0
12	Chowgule & Company Ltd.	-	-	-	-	-
13	Ferromar Shipping Pvt. Ltd.	Barges & Other vessels for Goa operations	70.0	13.0	1.2	2.0

Table No. 2.1 (Contd.)

Ship Repairing Capacity Of The Company
(As on 31st March, 2017)

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
14	A.C. Roy & Co. Ltd.	a) launch b) barge c)Tug	25.0 60.0 20.0	7.0 16.0 6.0	2.0 3.5 2.0	0.03 2.00 0.03
15	Bristol Boats	Various FRP crafts, life Boats and Rescue Boats 10 to 20 Nos.	20.0	5.0	4.0	0.05
16	L&T Shipbuilding Ltd	Any type of Commercial/ Defence Vessels upto a length of 200 mtr. and beam of 46 mtr.				
17	Vedanta Ltd.	All types of vessels.	8.0	15.0	2	2.4
18	Tebma Shipyard Ltd.	
19	N N Shipbuilders and Engineers Pvt Ltd	a) Tugs/Pomntoons b) Small Ship c) Barges	30.0 - 30.0	10.0 12.0 -	2.3 2.0 2.3	- - -
20	Pipavav ***	Cargo Ships, Naval Vessels & Submarines Offshore vessels Rigs Platforms and others i.e. Derdgers, Passengers vessels etc	350.0	63.0	-	400.0
21	Modest Infrastructure Pvt. Ltd.	a) General Cargo b) Tug c) Survey Vessel d) OSV e) Cement Carrier f) Product Tanker g) Dry Bulk Carrier h) Container Carrier	99.0 33.0 42.18 59.2 97.0 75.0 82.0 67.2	18.0 11.5 8.53 15.0 17.0 13.0 14.0 12.8	4.5 4.1 3.96 2.5 4.2 5.6 4.2 3.2	6.0 Bollard Pull - 65 T - - 4.0 3.3 4.2 94 TEU
22	Chidambarm Shipcare Pvt. Ltd.
23	Sembmarine Kakinada Ltd.***	All types of vessels with a docking displacement of Max. 15000 T	200.0	32.2	6.5 (Docking Draft)	54.0
24	Neptunus Power Plant Services Pvt. Ltd.
25	A.S. Moloobhoy Pvt. Ltd.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 2.2 Ship Repairing Capacity-By Company and Maximum Size (2014-2017)

(DWT in thousand)

Name of The Company	As on end 31st March			
	2014	2015	2016	2017
1	2	3	4	5
<u>A. PUBLIC SECTOR</u>				
1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-
2. Cochin Shipyard Ltd.	125.0	125.0	125.0	125.0
3. Garden Reach Shipbuilders & Engineers Ltd.	9.0	9.0	9.0	26.0
4. Goa Shipyard Ltd.	4.5	10.0	4.5	4.5
5. Hindustan Shipyard Ltd.	80.0	80.0	80.0	80.0
6. Hooghly Dock & Port Enginers Ltd.	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-
8. Shalimar Works Ltd.	0.7	0.7	0.7	0.07
<u>B. PRIVATE SECTOR</u>				
9. Dempo Shipbuilding & Engineering Ltd.	5.5	-	-	-
10. ABG Shipyard Ltd.	20.0	20.0	20.0	120.0
11. Bharati Defence & Infrastructure Ltd.	20.0	20.0	20.0	20.0
12. Chowgule & Co. Ltd.	-	-	-	-
13. Ferromar Shipping Pvt. Ltd.	3.0	2.0	2.0	2.0
14. Vedanta Ltd.	2.4
15. A.C Roy & Comp. Ltd.	2.0	2.0	2.0	2.0
16 Bristol Boats	0.05	0.05	0.05	0.05
17. Tebma Shipyards Ltd.
18. L&T Shipbuilding Ltd	65.0	30.0	30.0	*
19. N N Shipbuilders and Engineers Pvt Ltd	-	-	-	-
20. Pipavav ^{***}	400.0	400.0	400.0	400.0
21. Modest Infrastructure Pvt. Ltd.	-	6.0	6.0	6.0
22. Chidambaram Shipcare Pvt. Ltd.	-	-	-	-
23. Sembmarine Kakinada Ltd. ^{***}	-	54.0	54.0	54.0
24. Neptunus Power Plant Services Pvt. Ltd
25. A.S. Moloobhoy Pvt. Ltd.

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

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 2.3

Ship Repairing Facilities-Company-Wise for Dry Docks and Wet Docks (As on 31st March, 2017)

Sl. No.	Name of Company	Dry Dock Owned					Wet Docks/Basin Owned				
		Capacity					Capacity				
		No.	Length (Mtrs.)	Width (Mtrs.)	Draft (Mtrs.)	DWT (in thousand tons)	No.	Length (Mtrs.)	Width (Mtrs.)	Draft (Mtrs.)	DWT (in thousand tons)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
A. PUBLIC SECTOR											
1	Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-	-	-	-	-	-
2	Cochin Shipyard Ltd.	1	270.0	45.0	12.0	125.0	-	-	-	-	-
		2	255.0	43.0	9.0	110.0	-	-	-	-	-
3	Garden Reach Ship-builders & Engineers Ltd.	1	180.0	27.0	8.0	-	1	109.0	25.0	8.0	-
		1	180.0	29.0	10.0	-	-	-	-	-	-
		1	160.0	18.0	8.0	-	-	-	-	-	-
4	Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-
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.	1	94.0	13.4	8.6	1.0	-	-	-	-	-
7	Mazagon Dock Ltd.					Ship Repair facilities closed.					
8	Shalimar Works Ltd.	-	-	-	-	-	-	-	-	-	-
B. PRIVATE SECTOR											
9	Dempo Shipbuilding and Engineering Ltd.	2	85.0	18.0	2.2	4.0	2	100.0	20.0	3.5	4.0
		1	155.0	30.0	7.5	20.0	-	-	-	-	-
		1	125.0	22.5	5.6	15.0	-	-	-	-	-
10	ABG Shipyard Ltd.	1	231.0	47.0	13.0	120.0	-	-	-	-	-
		-	125.0	22.5	5.6	-	-	-	-	-	-
		1	450.0	40.0	-	-	-	-	-	-	-
11	Bharati Defence & Infrastructure Ltd.	1	120.0	18.0	6.0	15.0	1	125.0	20.0	5.5	10.0
		1	180.0	40.0	6.0	50.0	-	-	-	-	-
12	Chowgule & Co. Ltd.	-	-	-	-	-	-	-	-	-	-
13	Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	3	70.0	13.0	3.2	2.2
14	Vedanta Ltd.	1	150	15	1.5	2.4	-	-	-	-	-
15	A.C. Roy & Co. Ltd.	-	-	-	-	-	2	50.0	18.0	3.0	2.0
16	Bristol Boats	1	25.0	8.0	1.5	0.05	-	-	-	-	-
17	Tebma Shipyard Ltd.
18	L&T Shipbuilding Ltd	6	115-210	open	-	-	4	200-260	open	10.0	-
19	N N Shipbuilders and Engineers Pvt Ltd	-	-	-	-	-	-	-	-	-	-
20	Pipavav ***	1	662.0	65.0	11.5	400.0	1	740.0	60.0	-	400.0
21	Modest Infrastructure Pvt. Ltd.	2	95.0	16.0	3.5	3.5		-	-	-	-
			120.0	21.0	4.5	6.0		-	-	-	-
22	Chidambaram Shipcare Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-
23	Sembmarine Kakinada Ltd.***	1	200.0	32.2	6.5	54.0	635 m length wet berth available with depth of 12 m				
24	Neptunus Power Plant Services Pvt. Ltd.
25	A.S. Molooobhoy Pvt. Ltd.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 2.3a

**Ship Repairing Facilities-Company-Wise
(As On 31st March, 2017)**

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.	-	-	-	-	-	-
3	Garden Reach Ship-Building and Engineers Ltd.	Finger Jetty-1	1	229.0	-	-	-
		Finger Jetty-2	1	194.0	-	-	-
		River Jetty-Ganga	1	25.0	9.0	1.9	-
		River Jetty-Hoogly	1	25.0	9.0	1.9	-
		River Jetty-Canteen	1	13.5	4.5	1.0	-
		River Jetty-Bargepuri	1	12.5	4.5	1.0	-
		River Jetty-Sawmill	1	21.5	6.0	1.5	-
		River Jetty-Dolphin 1	1	10.0	5.0	6.0	-
		River Jetty-Dolphin 2	1	10.0	5.0	6.0	-
		River Jetty-West Jetty	1	75.0	8.0	6.0	-
		River Jetty-East Jetty	1	33.0	8.0	6.0	-
		Repair Berth-1	1	130.0	29.5	-	-
		Repair Berth-2	1	130.0	30	-	-
		Construction Berth 3	1	136.0	42.5	-	-
		Construction Berth 4	1	136.0	44.0	-	-
4	Goa Shipyard Ltd.	Shiplift	1	120.0	25.0	-	6.0
		New Jetty	1	250.0	16.0	5.5	-
		Outfit & Commissioning Jetty	1	105.0	17.0	5.5	-
		Berthing Jetty alongside the construction berth 3	1	136.0	-	-	-
		Ship Assembly Workshop-1 (SAW-1)	1	126.0	35.0	36	-
		Ship Assembly Workshop-2 (SAW-2)	1	126.0	35.0	36	-
		New construction Bay	1	96.5	26.0	14.1	-
		Slipway	1	119.0	22.0	4	1.0
5	Hindustan Shipyard Ltd.	Dolphin Jetty	1	150.0	-	8.0	-
6	Hooghly Dock & Port Engineers Ltd.	Jetty	3	45.0-36.0	-	-	At Salkia works-One & at Nazir gunge works-Two
7	Mazagaon Dock Ltd.			Ship Repair facilities closed.			
8	Shalimar Works Ltd.	Kuccha Basin	2	-	-	-	-
		Fitting out jetty	1	-	-	-	-

Table No. 2.3a(Contd...)

**Ship Repairing Facilities-Company-Wise
(As On 31st March, 2017)**

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	Dempo Shipbuilding and Engineering Ltd.	-	-	-	-	-	-
10	ABG Shipyard Ltd.	Slipway	1	110.0	35.0
		Slipway	1	220.0	25.0
11	Bharati Defence & Infrastructure Ltd.	a) Slipway with Haul up facility	1	125.0	20.0	5.5	10.0
		b) Berth	1	120.0	20.0	5.5	10.0
		c) Submersible ship/platform	1	112.0	32.0	5.0	15.0
12	Chowgule PVT Ltd	-	-	-	-	-	-
13	Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	-
14	Vedanta Ltd.	-	-	-	-	-	-
15	A.C. Roy & Company Ltd.	-	-	-	-	-	-
16	Bristol Boats	-	-	-	-	-	-
17	Tebma Shipyard Ltd.	-	-	-	-	-	-
18	L&T Shipbuilding Ltd	-	1	201.0	46.0	8.0	-
19	N N Shipbuilders and Engineers Pvt Ltd	Slipways	3	70.0	7.0	2.3	...
20	Pipavav ***	Outfitting Quay	1	688.0	18.0	-	400.0
21	Modest Infrastructure Pvt. Ltd.	-	-	-	-	-	-
22	Chidambaram Shipcare Pvt. Ltd.	-	-	-	-	-	-
23	Sembmarine Kakinada Ltd.***	1 No. Dolphin with bollard for carrying out bollard pull test for Anchor handling vessels up to 150 T					
24	Neptunus Power Plant Services Pvt. Ltd.
25	A.S. Moloobhoy Pvt. Ltd.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 2.4

**No. Of Ships Repaired And Earnings, Company-wise -
(2013-14 to 2016-17)**

(Rs. in Lakhs)

Name of The Company	Year	Indian Vessels		Foreign Vessels		Total	
		No.	Earnings	No.	Earnings	No.	Earnings
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>A. PUBLIC SECTOR(Total)</u>	2016-17	156	88727.22	0	0.00	156	88727.22
	2015-16	122	61182.16	12	6635.54	134	67817.70
	2014-15	195	31544.20	1	2779.54	196	34323.74
	2013-14	123	35400.75	2	191.00	125	35591.75
1. Alcock Ashdown (Gujarat) Ltd.	2016-17	-	-	-	-	0	0.00
	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
2. Cochin Shipyard Ltd.	2016-17	128	54304.93	-	-	128	54304.93
	2015-16	89	35552.00	-	-	89	35552.00
	2014-15	158	19595.00	-	-	158	19595.00
	2013-14	73	22788.41	-	-	73	22788.41
3. Garden Reach Ship-builders and Engineers Ltd.	2016-17	-	-	-	-	0	0.00
	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
4. Goa Shipyard Ltd.	2016-17	15	19339.95	-	-	15	19339.95
	2015-16	14	10459.43	12	6635.54	26	17094.97
	2014-15	19	7616.69	-	2679.70	19	10296.39
	2013-14	33	7080.37	-	-	33	7080.37
5. Hindustan Shipyard Ltd.	2016-17	12	15052.72	-	-	12	15052.72
	2015-16	16	15042.89	-	-	16	15042.89
	2014-15	15	4204.67	1	99.84	16	4304.51
	2013-14	14	5376.95	2	191.00	16	5567.95
6. Hooghly Dock & Port Engineers Ltd.	2016-17	-	-	-	-	0	0.00
	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
7. Mazagon Dock Ltd.	2016-17	-	-	-	-	0	0.00
	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
8. Shalimar Works Ltd.	2016-17	1	29.62	-	-	1	29.62
	2015-16	3	127.84	-	-	3	127.84
	2014-15	3	127.84	-	-	3	127.84
	2013-14	3	155.02	-	-	3	155.02
<u>B. PRIVATE SECTOR (Total)</u>	2016-17	119	15756.09	7	885.27	126	16641.36
	2015-16	257	13668.97	55	2422.87	312	16091.84
	2014-15	231	13344.85	55	2761.87	286	16106.72
	2013-14	72	2739.57	3	0.00	75	4867.57
9. Dempo Shipbuilding & Engg. Ltd.	2016-17	56	824.00	-	-	56	824.00
	2015-16	73	1218.62	-	-	73	1218.62
	2014-15	21	803.00	-	-	21	803.00
	2013-14	29	804.00	-	-	29	804.00
10. ABG Shipyard Ltd.	2016-17	-	368.60	-	-	0	368.60
	2015-16	-	700.50	-	-	0	700.50
	2014-15	-	1864.00	-	-	0	1864.00
	2013-14	-	1111.00	-	-	0	1111.00

**No. Of Ships Repaired And Earnings, Company-wise -
(2013-14 to 2016-17)**

(Rs.in Lakhs)

Name of The Company	Year	Indian Vessels		Foreign Vessels		Total	
		No.	Earnings	No.	Earnings	No.	Earnings
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
11. Bharati Defence & Infrastructure Ltd.	2016-17	-	214.36	-	-	0	214.36
	2015-16	-	1019.92	-	-	0	1019.92
	2014-15	-	623.47	-	-	0	623.47
	2013-14	-	633.96	-	-	0	633.96
12. Chowgule Pvt. Ltd.	2016-17
	2016-17	0	0.00
13. Ferromar Shipping Pvt. Ltd.	2015-16	0	0.00
	2014-15	0	0.00
	2013-14	0	0.00
	2016-17	-	-	-	-	0	0.00
14. Vedanta Ltd.	2015-16	-	-	-	-	0	0.00
	2014-15	20	963.52	-	-	20	963.52
	2013-14	-	-	-	-	0	-
	2016-17	24	145.00	-	-	24	145.00
15. A.C.Roy & Co. Ltd.	2015-16	26	155.00	-	-	26	155.00
	2014-15	26	155.00	-	-	26	155.00
	2013-14	24	181.00	-	-	24	181.00
	2016-17	5	170.56	-	-	5	170.56
16. Bristol Boats	2015-16	1	4.75	-	-	1	4.75
	2014-15	1	3.70	-	-	1	3.70
	2013-14	1	9.61	-	-	1	9.61
17. Tebma Shipyard Ltd.	2016-17
	2016-17	14	7731.94	-	-	14	7731.94
18. L&T Shipbuilding Ltd	2015-16	23	3149.44	8	1332.57	31	4482.01
	2014-15	23	3149.44	8	1332.57	31	4482.01
	2013-14	18	...	3	...	21	2128.00
19. N N Shipbuilders and Engineers Pvt. Ltd.	2016-17	-	-	-	-	-	-
20. Pipavav ***	2016-17	-	-	-	-	-	-
	2016-17	1	82	-	-	1	82.26
21. Modest Infrastructure Pvt. Ltd.	2015-16	-	-	-	-	0	0.00
	2014-15	1	48.92	-	-	1	48.92
	2016-17	-	-	-	-	-	-
22. Chidambaram Shipcare Pvt. Ltd.	2015-16	115	1201.37	40	205.03	155	1406.40
	2014-15	115	1201.37	40	205.03	155	1406.40
	2016-17	19	6219.37	7	885.27	26	7104.64
23. Sembmarine Kakinada Ltd. ***	2015-16	19	6219.37	7	885.27	26	7104.64
	2014-15	24	4532.43	7	1224.27	31	5756.70
24. Neptunus Power Plant Services Pvt. Ltd.	2016-17
25. A.S. Moloobhoy Pvt. Ltd.	2016-17
C. Grand Total (A + B)	2016-17	275	104483.31	7	885.27	282	105368.58
	2015-16	379	74851.13	67	9058.41	446	83909.54
	2014-15	426	44889.05	56	5541.41	482	50430.46
	2013-14	195	38140.32	5	191.00	200	40459.32

\$\$ earnings of L&T Shipbuilding Ltd included in the total only as break-up by vessels is not available for the year 2013-14.

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Table No. 2.5**Dry Dock & Ship Repairing Facilities at Major Ports 2016-17**

Name of Ports	No. of Dry Docks and their Size	No. of Work-shops	No. of Cranes & Capacity	No. of Vessels Repaired during 2016-17	No. of days at Dry Dock Occupancy during 2016-17
1	2	3	4	5	6
Kandla	<u>One</u> Length : 95mtrs.+ 4.5 mtrs. Extended platform Width : 20 mtrs. Depth : 5.5 mtrs.	-	<u>One</u> 5 T	52	349
Mumbai	<u>One</u> Length : 1000 ft. Breadth : 102 ft. Depth : 44 ft.	-	<u>One</u> 20 T	46	269
Chennai	NIL				
Kamarajar	NIL				
Cochin	The Dry Dock has been handed over to M/s Cochin Shipyard Ltd. w.ef 11.04.2013 for development and operation of International Ship Repair Facility at Willingdon Island				
V.O.Chidambaranar*	<u>One</u> Length : 150 feet Width : 32 feet Draft : 6.5 feet	0			
Visakhapatnam	<u>One</u> Length : 140.2 mtrs. Breadth : 18.2 mtrs. Depth : 5.6 mtrs.	0	<u>One</u> 4 T	17	248
Paradip	<u>One</u> Length : 75 mtrs. Breadth : 15 mts. Depth : 6 mts.	1	<u>One</u> 3/10 T	16	298
Kolkata	<u>NSD-1</u> <u>(178X32.3X14.3)</u>	---	2 Nos. 3/6T, 1 No. 3T	13	1685
	<u>NSD-2</u> <u>(182.9X32.3X14.3)</u>				
	<u>KPD-1</u> <u>(166.7X21.2X7.6)</u>		1 No. 5T		
	<u>KPD-2</u> <u>(151.5X21.2X7.5)</u>		1 No. 7T		
	<u>KPD-3</u> <u>(106.7X18.3X7.3)</u>				

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					
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	122719.8	4963.92	147114.00	5951.22	171634.38	6943.16
Dry dock hire from 2nd day to 8 day (both days inclusive) per day or part thereof	43386.12	1755.1	52065.86	2106.22	60745.62	2457.36
Dry dock hire from 9th day to 20th day (both days inclusive) per day or part thereof	65082.56	2632.78	78096.72	3159.26	91114.22	3685.86
Dry dock hire from 21st day or part thereof	104853.56	4241.66	125824.84	5090.00	146794.22	5938.30
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.			6900.06 per block		279.12 per block	
Mormugao	National Charges				It doesnot have any Dry Dock of its own.	
	International Charges					
Paradip	National Charges				Rs. 23000/-	
	International Charges					
Mumbai	Charges for Docking and Undocking:					
		Coastal Vessel (in Rs.)		Foreign going vessel (in US \$)		
	Upto 1000 GRT	114717.80		5451.24		
	1001 to 2000 GRT	140938.90		7077.86		
	2001 to 3000 GRT	167160.10		8349.24		
	3001 to 4000 GRT	193381.20		9710.64		
	4001 to 5000 GRT	219602.30		11027.2		
	Above 5000 GRT	219602.3 + 26221 for every addl. 1000GRT or part thereof		11027.02+1245.53 for every addl. 1000GRT or part thereof		
Cochin	The Dry Dock has been leased out to M/s Cochin Shipyard Ltd. w.ef 11.04.2013 and as such no hire charges have been collected by this Port in 2016-17.					
Vishakapatnam				1st day to 14th day	15th day to 30th day	31st day onwards
	National Charges (in Rs.)			83901	125811	167802
	International Charges (in US\$)			2985	4477	5971
V.O. Chidambaranar	Available Port Dry-dock at Zone – B is beyond economical repairs.					

Table No. 2.6 Cont....

Dry Dock Hire Charges Existing at Major Ports

Name of Ports	Dry Dock Hire Charges for different sizes of vessels						
1	2						
Kolkata	I. During first 10 days of occupancy of vessel (part day or part thereof):						
	Size of vessel in GRT	1 & 2 N.S. Dry Dock		1 & 2 K.P. Dry Dock		3 K.P. Dry Dock	
		Foreign going vessel (in US \$)	Coastal Vessel (in Rs.)	Foreign going vessel (in US \$)	Coastal Vessel (in Rs.)	Foreign going vessel (in US \$)	Coastal Vessel (in Rs.)
	Upto 1000 GRT	2520	55440	2268	52920	2268	50400
	1001 to 2000	2772	60480	2520	57960	2268	54180
	2001 to 3000	3024	65520	2772	63000	2268	55440
	3001 to 4000	3276	75600	3024	70560	2268	56700
	4001 to 5000	3528	85680	3276	78120	2268	57960
	5001 to 10000	4032	95760	3528	88200	2268	60480
	10001 & above	4536	105840	3780	98280	2268	63000
	II. From 11 th to 30 th days of occupation: 200% of rates as stated above per day or part thereof.						
	III. Beyond 30 th days of occupation: 300% of rates as stated above per day or part thereof.						
	IV. If the undocking on the day as per the undocking list is deferred on account of Kopt, the corresponding dry dock hire charges for the days of delay will not be charged. This shall, however, not be applicable for Saturdays/ Sundays/ Holidays.						
	V. In case the vessel occupies the dry dock beyond the period for which the dry dock has been initially allotted due to reasons attributable to the Kopt, the dry dock hire charges for the period of such extension will not be chargeable. This shall, however, not be applicable for Saturdays/ Sundays/ Holidays.						
	VI. In case the vessel occupies the dry dock beyond the period for which the dry dock has been initially allotted for reasons other than (iv) and (V) above, hire charges shall be levied at double the rate prescribed at (i) to (iii) above for the period of such overstay or proportional incremental charges for the entire period of occupancy as per the following slabs, which ever is higher:						
	Total stay period			Rate			
	Up to 15 days			Rate as prescribed at (i) to (iii) above			
	More than 15 days but less than/equal to 30 days			1.25 times the rate as prescribed (i) to (iii) above			
	More than 30 days but less than/equal to 45 days			1.5 times the rate as prescribed (i) to (iii) above			
	More than 45 days but less than/equal to 60 days			2 times the rate as prescribed (i) to (iii) above			
	More than 60 days			5 times the rate as prescribed (i) to (iii) above			
	VII. If the vessel has requisitioned for a dry dock but it is not ready to dock at the time specified according to the docking programme, no charges shall be leviable provided an intimation of cancellation/postponement of dry docking is given (excluding the day of docking) 2 days in advance of the specified time of docking. In such cases a cancellation fee of US dollar 52.5/ Rs 2100/- will be recovered in such cases in case of Foreign/ Coastal respectively. However, if no such intimation is given 5% additional charge shall be recovered calculated on the rates applicable during the first 10 days of occupation for the period the vessel did not actually occupy the dry dock.						

Source: All major ports.

Table No. 2.7

Equipments available at Major Ports

Name of Ports	Equipments available in the Workshops
1	2
Kandla	-
Mormugao	Mormugao port trust has lease out its port to Western India Shipyard Ltd. and the lease is getting over in April, 2018.
Mumbai	Nil. Private contractors are deployed by the vessel owners.
Cochin	The Dry Dock has been handed over to M/s Cochin Shipyard Ltd. w.e.f 11.04.2013 for development and operation of International Ship Repair Facility at Willingdon Island.
Visakhapatnam	NIL
Paradip*	<p>1 Overhead crane, capacity: 10 Ton</p> <p>1 Lathe Machine type- EP3225, Height = 16 inches, Chuck = 24 inch, Bed length = 12 feet</p> <p>1 Lathe Machine Type-H 26, Height = 10 inches, Chuck = 14 inches, Bed length = 12 feet</p> <p>1 Bending Machine (3 rollers), Rollers Diameter = 200mm (1 nos.); 180mm (2 nos.)</p> <p>Length = 2 meters</p> <p>1 Stand Radial Drill Machine , Make : HMT,</p> <p>Machine no. 32358</p> <p>1 Electric Saw</p>
Kolkata	<p>Commercial (Non-KoPT) vessels are repaired by the concerned Dry Dock users by their own arrangement.</p> <p>KoPT-owned vessels are repaired by KoPT-through contractors by open tendering process.</p>
V.O.Chidambaranar	-

* Repeated last year information.

Section- 3

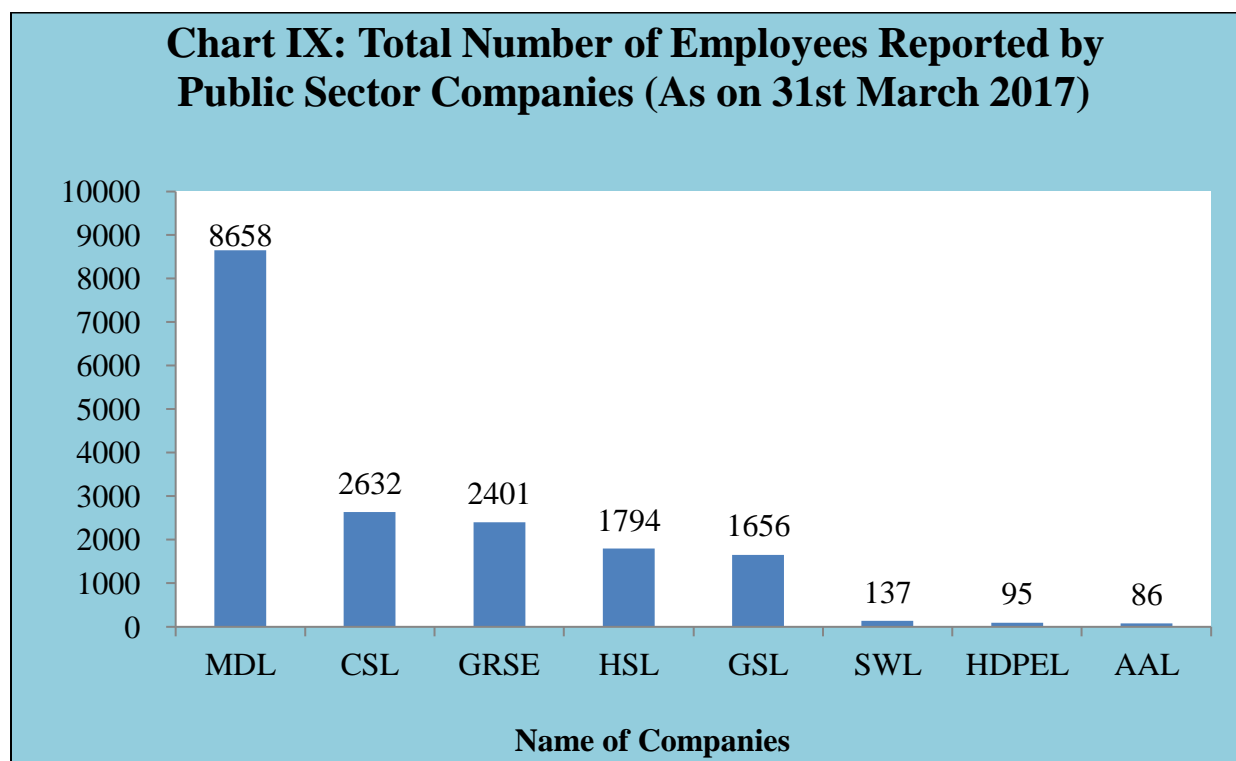
EMPLOYMENT IN SHIP-BUILDING/SHIP- REPAIRING INDUSTRY

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

3.1 The total number of employees under the eight Public Sector Shipyards during 2016-17 was 17459 which included 3202 officers (18.34 % of the total number of employees). The maximum number of employees in the public sector Shipyards as on 31st March 2017 was 8658 in Mazagon Dock Ltd (MDL) followed by 2632 in Cochin Shipyard Ltd (CSL), 2401 in Garden Reach Ship Builders and Engineers Ltd. (GRSE), 1794 in Hindustan Shipyard Ltd. (HSL) and 1656 in Goa Shipyard Ltd. (GSL).

3.2 The total number of employees in private sector companies were 8560 as on 31st March 2017 of which total number of officers were 2039 (23.82 % of the total number of employees). Bharti Defence & Infrastructure Ltd. (BDIL) had highest number of employees 981 followed by ABG Shipyard Ltd. (ABGS) 784 and L&T Shipbuilding Ltd. (L &T) 586.

3.3 The total number of employees among the eight public sectors undertakings is shown in chart IX.



3.4 Chart X given below depicts a clear downward employment trend in Ship-building and Ship-repairing industries during the period 2012-13 to 2016-17.

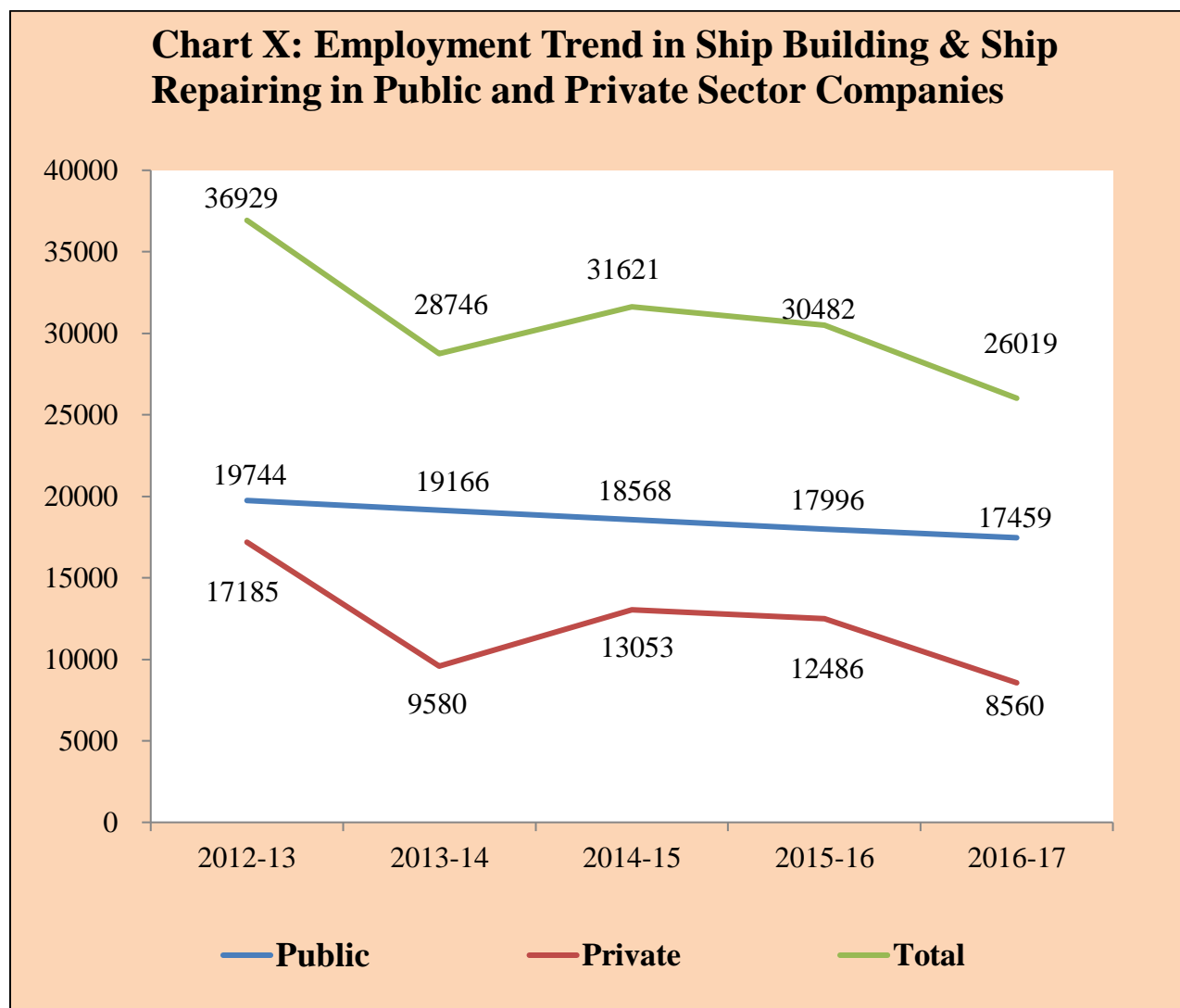


Table No. 3.1

**Employment In Ship-Building/Ship-Repairing Companies
(As On end 31st March, 2017)**

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)
A. PUBLIC SECTOR (Total)	3038	164	549	22	7469	4220	1711	286	12767	4692
1. Alcock Ashdown (Gujarat) Ltd.	24	8	-	-	34	-	18	2	76	10
2. Cochin Shipyard Ltd.	626	74	181	-	1184	416	151	-	2142	490
3. Garden Reach Ship-Builders & Engineers Ltd	504	-	131	-	1233	-	533	-	2401	0
4 Goa Shipyard Ltd.	447	18	-	-	794	70	313	14	1554	102
5. Hindustan Shipyard Ltd.	358	21	234	19	611	396	149	6	1352	442
6. Hooghly Dock & Port Engineers Ltd.	1	8	3	3	26	-	15	39	45	50
7. Mazagon Dock Ltd.	1074	11	-	-	3499	3338	512	224	5085	3573
8. Shalimar Works Ltd.	4	24	-	-	88	-	20	1	112	25
B. PRIVATE SECTOR (Total)	2015	24	19	2	2551	408	541	3000	5126	3434
9. Dempo Shipbuilding & Engg. L	34	2	3	-	-	136	-	-	37	138
10. ABG Shipyard Ltd.	414	-	-	-	299	-	71	-	784	0
11. Bharati Defence & Infrastructure Ltd.	93	-	-	-	551	-	337	-	981	0
12. Chowgule & Co. Ltd.	59	-	-	-	11	29	10	-	80	29
13. Ferromar Shipping Pvt. Ltd.	2	-	-	-	2	-	-	-	4	0
14. Vedanta Ltd.	7	-	-	-	-	29	-	-	7	29
15. A.C.Roy & Comp. Ltd.	30	-	1	-	4	10	13	-	48	10
16. Bristol Boats	6	-	-	-	18	-	1	-	25	0
17. Tebma Shipyard Ltd.	115	7	12	2	120	127	25	-	272	136
18. L&T Shipbuilding Ltd	491	15	-	-	3	77	-	-	494	92
19. N N Shipbuilders and Engineers Pvt Ltd	12	-	3	-	65	-	12	-	92	0
20. Pipavav***	633	-	-	-	1297	-	-	3000	1930	3000
21. Modest Infrastructure Pvt. Ltd	50	-	-	-	32	-	29	-	111	0
22. Chidambaram Shipcare Pvt. L	17	-	-	-	17	-	5	-	39	0
23. Sembmarine Kakinada Ltd. ***	16	-	-	-	79	-	-	-	95	0
24. Neptunus Power Plant Services Pvt. Ltd.
25. A.S. Moloobhoy Pvt. Ltd.	36	-	-	-	53	-	38	-	127	0
C. Grand Total (A + B)	5053	188	568	24	10020	4628	2252	3286	17893	8126

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Ka Ltd i.e. 2015-16.

Table No. 3.2

**Employment Pattern in Ship-Building/
Ship-Repairing Companies - (2013-2017)**

(In numbers)

Name of The Company	Particulars	As on 31st March				
		2013	2014	2015	2016	2017
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A. PUBLIC SECTOR (Total)	Total	19744	19166	18568	17996	17459
	Officers	2599	2566	2536	2628	3202
1. Alcock Ashdown (Gujarat) Ltd.	Total	132	132	109	96	86
	Officers	56	56	48	45	32
2. Cochin Shipyard Ltd.	Total	2306	2524	2544	2461	2632
	Officers	297	354	318	348	700
3. Garden Reach Ship-Builders & Engineers Ltd.	Total	3491	3133	2834	2592	2401
	Officers	501	463	484	496	504
4. Goa Shipyard Ltd.	Total	1602	1545	1545	1605	1656
	Officers	236	234	234	262	465
5. Hindustan Shipyard Ltd.	Total	2874	2568	2270	2001	1794
	Officers	408	374	364	403	379
6. Hooghly Dock & Port Engineers Ltd.	Total	486	447	408	135	95
	Officers	41	38	35	16	9
7. Mazagon Dock Ltd.	Total	8669	8635	8679	8927	8658
	Officers	1048	1025	1034	1039	1085
8. Shalimar Works Ltd.	Total	184	182	179	179	137
	Officers	12	22	19	19	28
B. PRIVATE SECTOR (Total)	Total	17185	9580	13053	12486	8560
	Officers	2782	2278	2329	2156	2039
9. Dempo Shipbuilding & Engg. Ltd.	Total	470	110	240	248	175
	Officers	49	47	38	18	36
10. ABG Shipyard Ltd.	Total	1321	1321	1020	784	784
	Officers	785	785	540	414	414
11. Bharati Defence & Infrastructure Ltd.	Total	5510	1303	1124	1090	981
	Officers	665	115	110	105	93
12. Chowgule & Co. Ltd.	Total	144	113	94	109	109
	Officers	117	86	72	59	59
13. Ferromar Shipping Pvt. Ltd.	Total	5	2	2	2	4
	Officers	3	2	2	2	2
14. Vedanta Ltd.	Total	60	76	139	18	36
	Officers	20	14	12	10	7
15. A.C.Roy & Comp. Ltd.	Total	58	58	58	58	58
	Officers	30	30	30	30	30
16. Bristol Boats	Total	33	13	12	24	25
	Officers	7	4	3	4	6
17. Tebma Shipyard Ltd.	Total	1083	656	725	725	408
	Officers	129	139	161	161	122
18. L&T Shipbuilding Ltd	Total	4056	843	4126	4126	586
	Officers	346	363	605	605	506
19. N N Shipbuilders and Engineers Pvt Ltd	Total	92	92	92	92	92
	Officers	12	12	12	12	12
20. Pipavav ***	Total	4353	4993	4930	4930	4930
	Officers	619	681	633	633	633
21. Modest Infrastructure Pvt. Ltd.	Total	-	-	352	141	111
	Officers	-	-	68	60	50
22. Chidambaranar Shipcare Pvt. Ltd.	Total	-	-	44	44	39
	Officers	-	-	27	27	17
23. Sembmarine Kakinada Ltd. ***	Total	-	-	95	95	95
	Officers	-	-	16	16	16
24. Neptunus Power Plant Services Pvt. Ltd.	Total
	Officers
25. A.S. Moloobhoy Pvt. Ltd.	Total	-	-	-	-	127
	Officers	-	-	-	-	36
C. Grand Total (A + B)	Total	36929	28746	31621	30482	26019
	Officers	5381	4844	4865	4784	5241

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

Section-4

FINANCIAL POSITION OF SHIPBUILDING AND SHIP REPAIRING COMPANIES

4. FINANCIAL POSITION OF SHIP BUILDING AND SHIP REPAIRING COMPANIES

4.1 The financial performance of the shipbuilding/ship repair companies in terms of gross income indicates that amongst public sector companies, the highest income earned during 2016-17 was Rs. 4158.95 crore by Mazagon Dock Ltd followed by Rs. 2222.45 crore by Cochin Shipyard Ltd (CSL), Rs. 1166.24 crore by Garden Reach Ship-Builders & Engineers Ltd (GRSE), Rs. 1102.57 crore by Goa Shipyard Ltd. (GSL) and Rs. 650.09 crore by Hindustan Shipyard Ltd (HSL).

In terms of profit, the highest profit was earned by Cochin Shipyard Ltd (Rs. 494.00 crore) followed by Mazagon Dock Ltd (MDL) (Rs. 488.43 crore), Goa shipyard Ltd (Rs. 177.24 crore), Hindustan Shipyard Ltd. (Rs 53.77 crore), Hoogly Dock & Port Engineers Ltd. (HDPEL) (Rs. 41.46 crore) and Garden Reach Ship-builders & Engineers Ltd. (Rs. 20.89) and Highest Loss was incurred Shalimar Works Ltd. (SWL) (Rs. 30.57 crore) followed by Alcock Ashdown Ltd. (AAL) (Rs 5.14 crore).

4.2 In private sector, the highest income earned during 2016-17 amongst the reporting companies was by L&T Shipbuilding Ltd. (Rs. 624.75 crore) followed by Tebma Shipyard Ltd. (TSL) (Rs 54.90 crore), A.S. Moloobhoy (Rs. 35.96 crore), Modest Infrastructure Pvt. Ltd. (MIPL) (Rs. 35.24 crore), Bharti Defence & Infrastructure Ltd. (BDIL) (28.69 crore), and A.C. Roy & Co. Ltd (Rs 27.91 crore).

In terms of profit, the highest profit was earned by A.C. Roy & Co. Ltd (Rs 6.90 crore) followed by A.S. Moloobhoy (Rs. 1.74 crore), Ferromar shipping (0.88 crore) and Bristol Boats Ltd (Rs. 0.11 crore). Highest Loss was incurred by ABG Shipyard Ltd. (ABG) (Rs. 1169.68 crore), followed by Bharti Defence & Infrastructure Ltd. (BDIL) (Rs 446.67 crore) and L&T Shipbuilding Ltd. (Rs 348.34 crore).

4.3 Chart XI 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 2017.

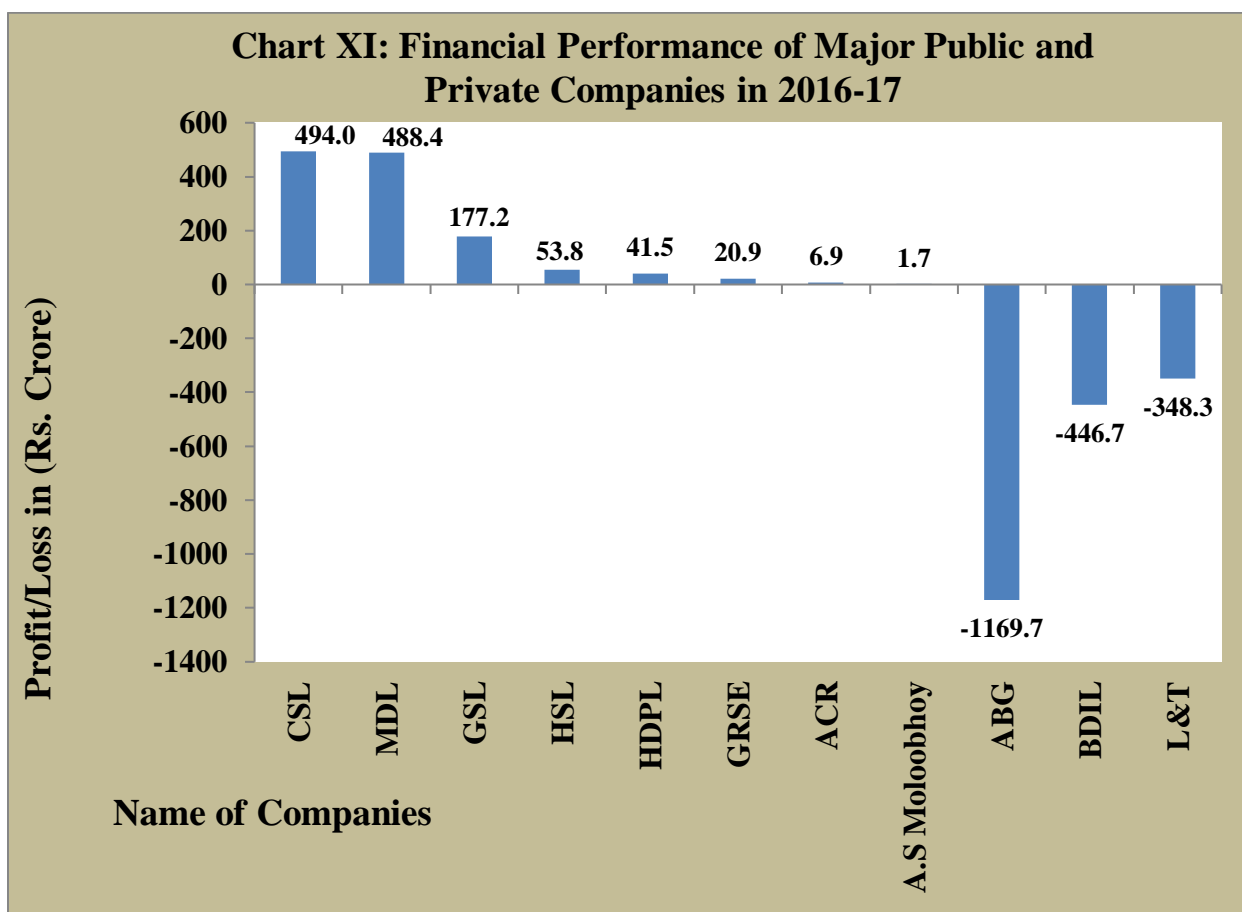


Table No. 4.1

Financial Performance (Income & Expenditure) : Company - wise
(2013 to 2017)

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.	2017	-	-	2668.61 (&)	2668.61	1013.35	155.66	2013.91	3182.92	-514.31
		2016	-	-	24079.67(&)	24079.67	22719.25	151.25	2011.08	24881.58	-801.91
		2015	-	-	4.01	4.01	4.23	1.60	66.85	72.68	-68.67
		2014	-	-	4.95	4.95	5.30	1.32	57.26	63.88	-58.93
		2013	109.89	-	13.96	123.85	145.80	1.32	73.28	220.41	-96.56
2	Cochin Shipyard Ltd.	2017	151582.17	54304.93	16357.63	222244.73	167939.99	3850.99	1053.58	172844.56	49400.17
		2016	162596.21	36749.03	11391.79	210737.03	163851.22	3719.25	1201.21	168771.68	41965.35
		2015	164299.24	19595.17	11402.22	195296.63	152875.64	3832.39	1832.16	158540.19	36756.44
		2014	140956.46	22788.41	7532.96	171277.83	147447.68	2428.62	1977.31	151853.61	19424.22
		2013	126759.37	28656.83	8817.37	164233.57	141472.04	1921.59	2313.17	145706.80	18526.77
3	Garden Reach Ship-Builders & Engineers Ltd.	2017	69880.04	1631.75	45112.20	116623.99	110958.45	2665.17	911.84	114535.46	2088.53
		2016	131451.60	1719.37	53070.92	186241.89	158107.60	2779.80	439.85	161327.25	24914.64
		2015 ©	201089.00	##1682.00	-552488.52	-351399.52	157340.00	2711.00	170.00	160221.00	7602.00
		2014	12435.00	##2385.00	154990.00	167425.00	148442.00	2207.00	438.00	151087.00	18723.00
		2013	23955.00	2098.00	122101.48	148154.48	139951.00	1391.00	45.00	141387.00	19315.00
4	Goa Shipyard Ltd.	2017	83702.00	19340.00	7215.00	110257.00	88541.00	3813.00	179.00	92533.00	17724.00
		2016	55501.00	17095.00	6041.00	78637.00	66611.00	882.00	104.00	67597.00	11040.00
		2015 (b)	46659.00	10296.00	11122.00	68077.00	61789.00	898.00	73.00	60253.00 **	68077.00
		2014	42167.00	8723.00	4362.00	55252.00	57762.00	1727.00	2042.00	61361.00 **	55252.00
		2013	39241.00	11421.00	5760.00	56422.00	50631.00	1817.00	2424.00	54872.00	1550.00
5	Hindustan Shipyard Ltd.	2017	47743.00	15162.00	2104.00	65009.00	57504.00	628.00	1500.00	59632.00	5377.00
		2016	36636.00	14258.00	14814.00	65708.00	61710.00	698.00	1400.00	63808.00	1900.00
		2015	12866.91	6284.00	13150.00	32300.91	50679.55	680.07	1225.10	52584.72	-20283.81
		2014	23914.00	21426.00	6567.00	51907.00	54850.00	753.00	925.00	56528.00	-4621.00
		2013	19608.00	28776.00	7867.00	56251.00	59202.00	789.00	1777.00	61768.00	-5517.00
6	Hooghly Dock & Port Engineers Ltd.	2017	-	-	8353.63	8353.63	2975.54	10.20	1221.84	4207.58	4146.05
		2016	1273.25	-	1532.68	2805.93	4111.14	14.26	660.52	4785.92	-1979.99
		2015	295.22	-	4931.53	5226.75	4390.66	50.57	537.97	4979.20	247.55
		2014	-	-	25006.40	25006.40	6544.80	29.45	431.41	7005.66	18000.74
		2013	512.84	-	2312.80	2825.64	6533.96	34.80	240.98	6809.74	-3984.10

Table No. 4.1 Contd...

Financial Performance (Income & Expenditure) : Company - wise
(2013 to 2017)

(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)
7	Mazagan Dock Ltd.	2017	351430.00	-	64465.00	415895.00	363187.00	3400.00	465.00	367052.00	48843.00
		2016	414117.00	66.00	74353.00	488536.00	421597.00	3150.00	7.00	424754.00	63782.00
		2015	361674.00	217.00	56257.00	418148.00	365900.00	3086.00	3.00	368989.00	49159.00
		2014	288672.00	-	61265.00	349937.00	308344.00	1823.00	9.00	310176.00	39761.00
		2013	229064.00	-	56966.00	286030.00	243204.00	1464.00	90.00	244758.00	41272.00
8	Shalimar Works Ltd.	2017	1768.49	29.62	164.27	1962.38	3170.02	34.91	1813.95	5018.88	-3056.50
		2016	4502.62	113.00	605.41	5221.03	6817.25	32.71	1800.89	8650.85	-3429.82
		2015	950.00	127.84	244.97	1322.81	1352.92	31.42	1716.59	3100.93	-1778.12
		2014	2408.83	155.02	535.96	3099.81	3188.21	27.57	1590.32	4806.10	-1706.29
		2013	887.29	123.46	270.84	1281.59	1889.35	30.61	1505.53	3425.49	-2143.90
B. PRIVATE SECTOR											
9	Dempo Shipbuilding and Engineering Ltd.	2017	1008.64	917.55	(-) 413.15	1513.04	1824.67	148.75	218.59	2192.01	-678.97
		2016	0.00	1218.62	782.02	2000.64	2044.71	167.88	253.80	2466.39	-465.75
		2015 (b)	4045.73	803.00	(-)372.36	4476.37	3812.63	204.33	251.63	4268.59	207.78
		2014 *	1542.86	804.46	1459.77	3807.09	4185.76	295.82	289.94	4771.52	-964.43
		2013 *	8549.30	446.58	(-)981.86	8014.02	6880.02	265.16	336.82	7482.00	532.02
10	ABG Shipyard Ltd.	2017#	-	368.60	213.56	582.16	57015.01	3560.84	56974.68	117550.53	-116968.37
		2016	2726.63	700.50	348.88	3776.01	222506.38	8150.79	145528.12	376185.29	-372409.28
		2015	36710.00	1864.00	1593.00	40167.00	76334.00	9914.00	72509.00	158757.00	-118590.00
		2014	146398.00	1111.00	15981.00	163490.00	126458.00	9178.00	57472.00	193108.00	-29618.00
		2013	194528.00	8683.00	11722.00	214933.00	147062.00	10371.00	40130.00	197563.00	17370.00
11	Bharati Defence & Infrastructure Ltd.	2017	0.90	214.36	2654.20	2869.46	27462.75	5996.74	14076.87	47536.36	-44666.90
		2016	4705.17	1019.92	1072.48	6797.57	229699.21	6094.00	31941.01	267734.22	-260936.65
		2015	2497.98	624.77	1250.02	4372.77	69158.02	6227.02	29656.46	105041.50	-100668.73
		2014	16686.10	634.23	2980.58	20300.91	37633.57	4939.92	51184.26	93757.75	-73456.84
		2013	50529.48	-	789.84	51319.32	55897.17	4684.43	44713.25	105294.85	-53975.53
12	Chowgule & Co.Ltd.	2017	219.65	272.13	229.44	721.22	1320.47	892.18	328.99	2541.64	-1820.42
		2016	2198.97	47.65	281.79	2528.41	2134.96	1183.27	330.29	3648.52	-1120.11
		2015	6514.16	-	168.86	6683.02	6226.81	1508.36	119.37	7854.54	-1171.52
		2014	8752.08	-	772.13	9524.21	5391.27	993.04	3.40	6387.71	3136.50
		2013	23066.78	-	2289.72	25356.50	22495.86	917.13	0.02	23413.01	1943.49
13	Vedanta	2017	

Table No. 4.1 Contd...

Financial Performance (Income & Expenditure) : Company - wise
(2013 to 2017)

(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)
14	Ferromar Shipping Pvt. Ltd.	2017	156.33	-	751.63@	907.96	326.88	305.75	187.33	819.96	88.00
		2016	88.11	-	784.49@	872.60	269.11	343.82	133.73	746.66	125.94
		2015	-	-	724.82@	724.82	169.45	391.18	125.64	686.27	38.55
		2014	-	-	740.57	740.57	414.87	107.62	25.41	547.90	192.67
		2013	-	-	604.78	604.78	194.22	253.74	111.23	559.19	45.59
15	A.C.Roy & Comp. Ltd.	2017	2354.00	145.00	292.00	2791.00	1437.00	583.00	81.00	2101.00	690.00
		2016	2529.00	116.00	105.00	2750.00	1435.00	571.00	23.00	2029.00	721.00
		2015	2312.00	155.00	171.00	2638.00	2035.00	71.00	17.00	2123.00	515.00
		2014	2162.00	181.00	275.00	2618.00	2017.00	69.00	21.00	2107.00	511.00
		2013	2084.00	221.00	199.00	2504.00	2008.00	83.00	19.00	2110.00	394.00
16	Bristol Boats	2017	-	170.56	31.10	201.66	180.61	3.91	6.29	190.81	10.85
		2016	-	4.74	40.50	45.24	65.26	3.85	0.19	69.30	-24.06
		2015	-	3.70	108.47	112.17	127.07	6.82	5.14	139.03	-26.86
		2014	209.15	9.61	16.80	152.78 **	244.77	8.69	18.98	272.44	-272.44
		2013	419.11	10.95	100.13	364.06 **	426.36	13.34	20.85	460.55	-460.55
17	Tebma Shipyard Ltd.	2017	5282.38	-	207.80	5490.18	7106.38	1271.22	4767.68	13145.28	-7655.10
		2016	9136.22	-	935.49	10071.71	10490.65	1390.61	3941.15	15822.41	-5750.70
		2015	15142.73	-	708.50	15851.23	14256.08	1814.48	3039.75	19110.31	-3259.08
		2014	29219.20	-	1108.90	30328.10	31881.23	1917.68	3198.52	36997.43	-6669.33
		2013	37105.48	-	3501.31	40606.79	34502.39	2015.35	3959.25	40476.99	129.80
18	L&T Shipbuilding Ltd	2017	58645.22	3460.20	369.65	62475.07	63507.44\$\$	9515.88	24286.06	97309.38	-34834.31
		2016	42267.13	3684.32	168.50	46119.95	89173.08\$	9244.37	18873.04	117290.49	-71170.54
		2015	54389.52	4482.01	404.34	59275.87	81281.10	15141.39	30199.94	126622.43	-67346.56
		2014	50816.78	2128.48	1612.34	54557.60	73741.14	17910.77	27744.13	119396.04	-64838.44
		2013	10347.00	-	1256.00	11603.00	17939.00	3233.00	4113.00	25285.00	-13682.00
19	N N Shipbuilders and Engineers Pvt Ltd	2017	1535.33	25.71	-	1561.04	1681.46	23.50	-	1704.96	-143.92
		2016	91.25	0.62	377.75	469.62	408.33	24.55	21.97	454.85	14.77
		2015	227.52	-	1502.65	1730.17	1626.72	28.00	-	1654.72	75.45
		2014	100.00	-	1282.55	1382.55	1305.51	25.00	-	1330.51	52.04
		2013	145.44	88.07	1176.45	1409.96	1309.59	30.84	-	1340.43	69.53

Table No. 4.1 Contd...

**Financial Performance (Income & Expenditure) : Company - wise
(2013 to 2017)**

(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)
B.	<u>PRIVATE SECTOR</u>										
20	Pipavav ***	2017	29303.55	40835.79	16068.57	86207.91	73814.39	13134.35	45269.29	132218.03	-46010.12
		2016	29303.55	40835.79	16068.57	86207.91	73814.39	13134.35	45269.29	132218.03	-46010.12
		2015	29303.55	40835.79	16068.57	86207.91	73814.39	13134.35	45269.29	132218.03	-46010.12
		2014	122917.03	-	108990.60	231907.63	166423.94	16170.40	46520.81	229115.15	2792.48
		2013	146930.00	-	114373.00	261303.00	205149.00	12270.00	39746.00	257165.00	4138.00
21	Modest Infrastructure Pvt. Ltd.	2017	3372.34	82.26	69.48	3524.08	4362.80	208.22	1469.39	6040.41	-2516.33
		2016	3155.95	-	105.92	3261.87	5267.43	228.46	2015.74	7511.63	-4249.76
		2015	5117.88	48.92	134.68	5301.48	5982.26	261.27	2093.42	8336.95	-3035.47
		2014	3735.32	-	216.32	3951.64	6163.66	939.11	2778.91	9881.68	-5930.04
22	Chidambaram Shipcare Pvt. Ltd.	2017	0.00	848.18	8.24	856.42	864.77	12.38	9.52	886.67	-30.25
		2016	0.00	1170.70	11.42	1182.12	1090.41	14.79	36.14	1141.34	40.78
		2015	36.09	1370.31	8.28	1414.68	1300.43	16.57	52.33	1369.33	45.35
		2014	187.63	1031.16	18.67	1237.46	1097.85	17.55	49.13	1164.53	72.93
23	Sembmarine Kakinada Ltd.***	2017	-	7104.64	3380.50	10485.14	6483.01	2341.25	4005.26	12829.52	-2344.38
		2016	-	7104.64	3380.50	10485.14	6483.01	2341.25	4005.26	12829.52	-2344.38
		2015	-	5756.63	804.70	6561.33	7836.62	3989.81	3475.61	15302.04	-8740.71
		2014	-	1336.03	1041.19	2377.22	2341.16	2653.30	2140.67	7135.13	-4757.91
24	Neptunus Power Plant Services Pvt. Ltd.	2017
25	A.S. Moloobhoy	2017	-	3551.86	44.38	3596.24	3266.46	106.58	48.71	3421.75	174.49
		2016	-	4278.35	39.23	4317.58	3855.02	132.65	59.85	4047.52	270.06

* Income from other sources excludes WIP Rs. 1229.38 lakh and Rs. 1858.59 lakh in 2013 & 2015 respectively . It includes Rs. 1085.29 lakh in 2014

(b) Provisional / Unaudited

*** No information is received from these companies. Hence last reported data has been repeated for Pipavav i.e. 2014-15 & Sembmarine Kakinada Ltd i.e. 2015-16.

(c) Income from other resources exclude Accr(+)/Decr(-) in WIP/Finished Goods Rs. 69450 lakhs

Income from Ship repairing sales

Data is upto 30.9.2016. Full Financial Year data will be furnished by the Company after Audit.

(&) Includes income from exceptional items.

@ Includes Deferred Tax Provision

\$ Includes loss from discontinued operations

\$\$ Figure after adjustment of Exceptional Items and Tax Expense (reversal of earlier year provision)

Section -5

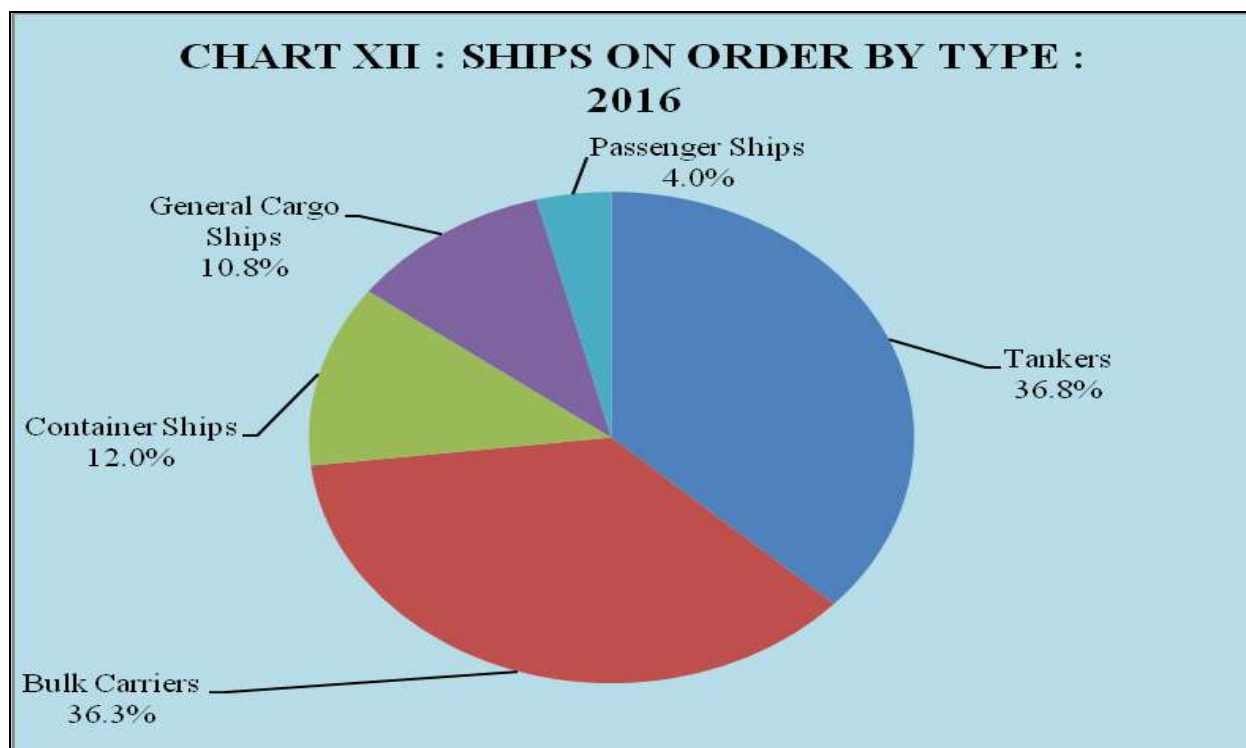
INTERNATIONAL SCENARIO

5. INTERNATIONAL SCENARIO

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

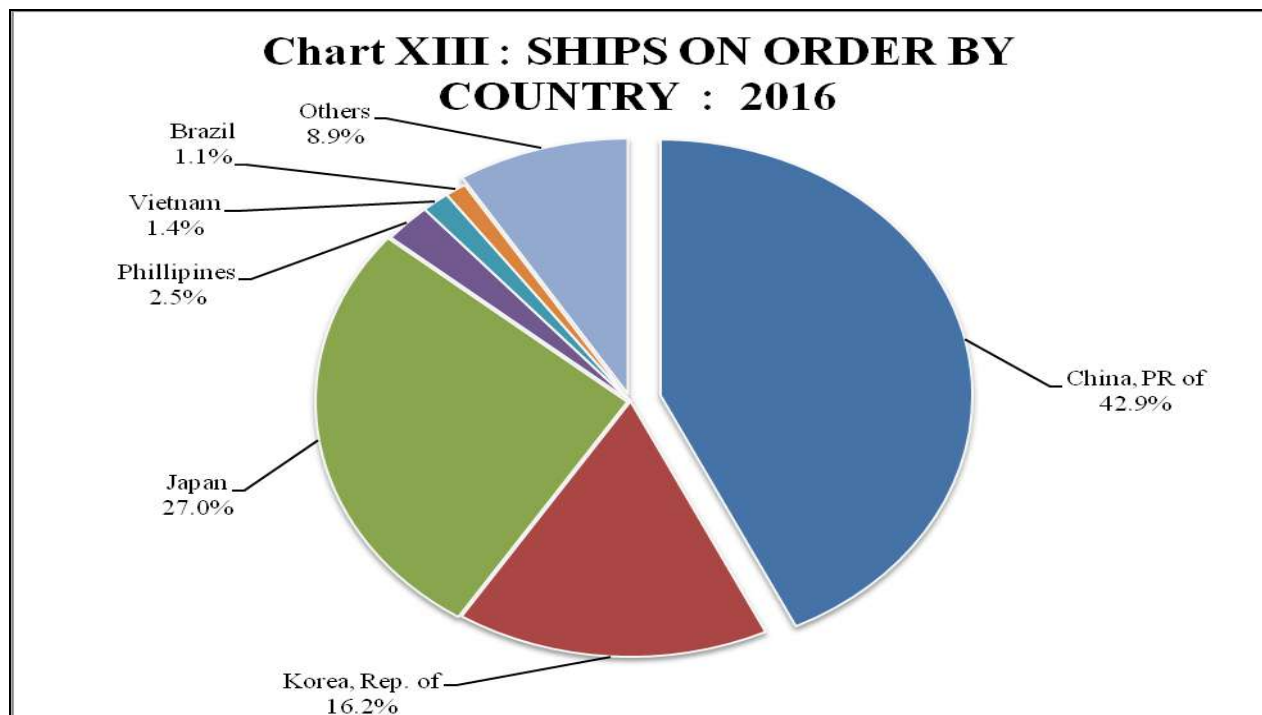
5.2 Table 5.1 shows that the number of ships on order reflects the demand side dynamics of the world shipping industry. Over the period (1998 to 2016), the number of ships on order at a global level has increased from 1917 units in 1998 to 3531 units in 2016. Ships on order in terms of gross tonnage (GT) have gone up from 53.42 million GT in 1998 to 91.87 million GT in 2016. During the year 1998 to 2016, order book of world shipbuilding industry had witnessed CAGR of 3.45% and 3.06% on order in term of numbers of ships and 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. During the year 2016, 3531 ship building were on order in the world. The maximum demand for ship building was Tanker ships (36.8%) followed by bulk carrier ships (36.3%), Container ships (12.0%) and General cargo ships (10.8%) shown in the chart XII.

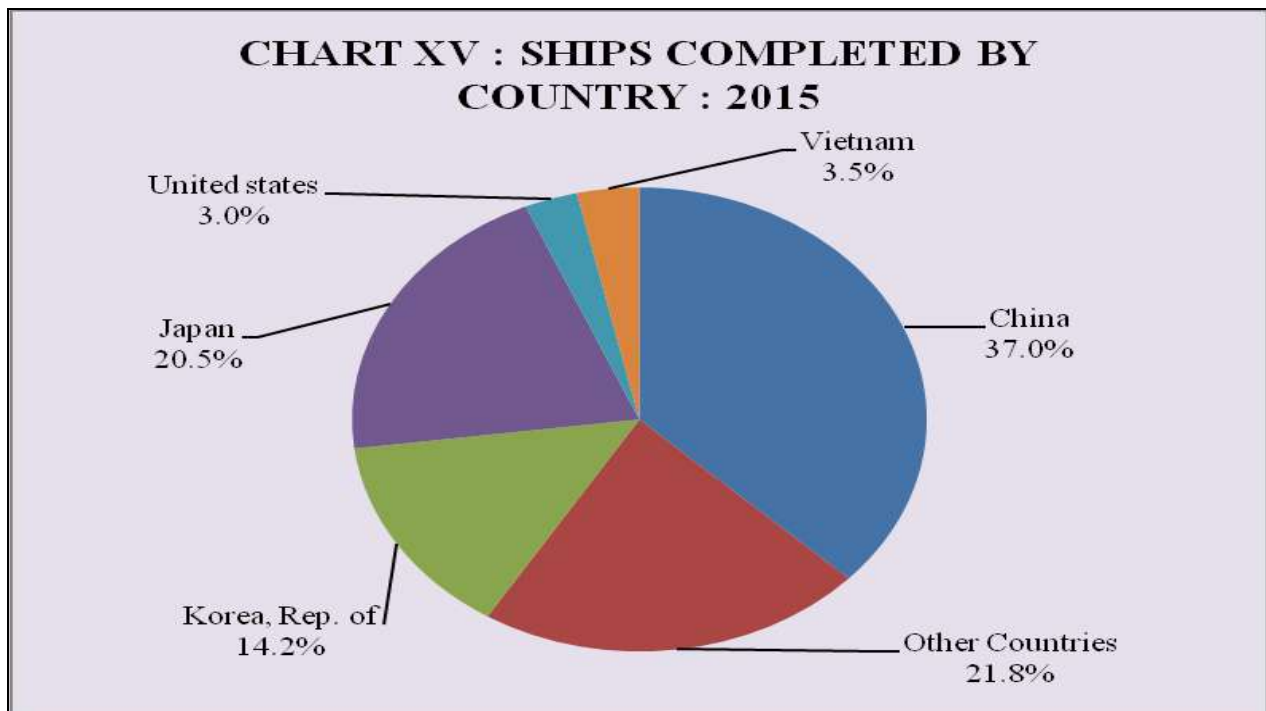
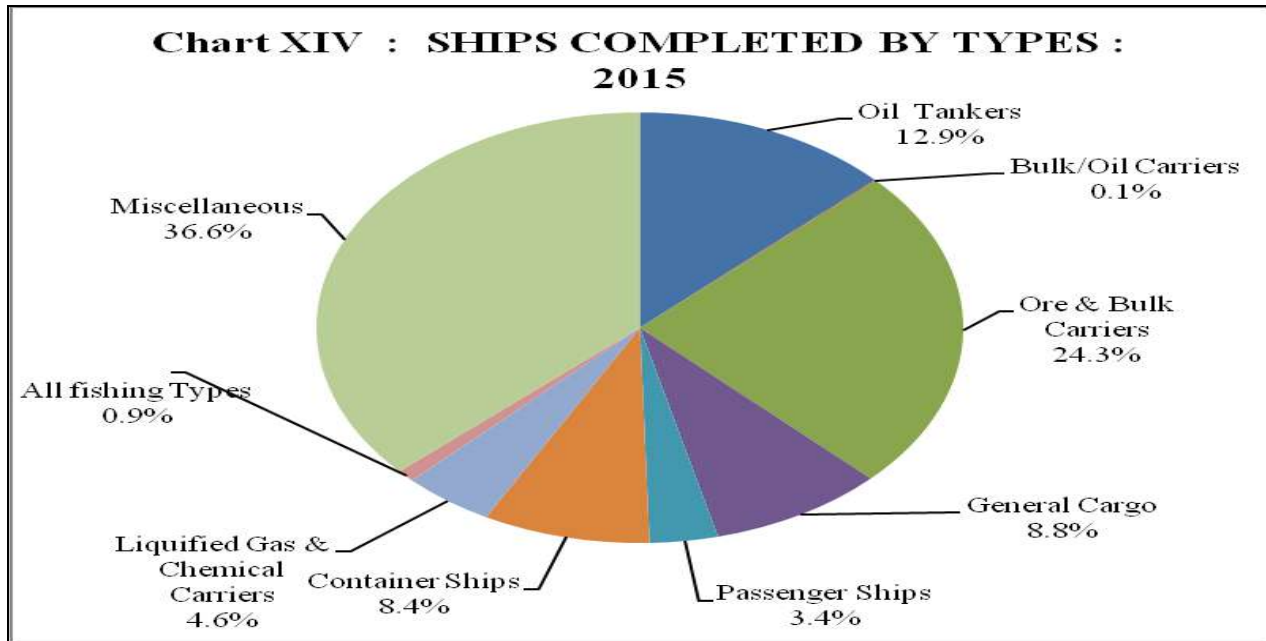


5.3 The number of ships built and delivered recorded in terms of gross tonnage (GT), were of the order 2522 ships with 67.63 million GT in 2015 (Table 5.4) reflecting an increase of 5.88 % over 63.88 million GT completed in 2014. In terms of number, the total number of ships completed increased to 2522 units in 2015 from 2200 units in 2014 reflecting an increase of 14.64%. Out of 67.63 GT of ship delivered during 2015; the percentage share of Ore & Bulk Carriers was 38% (contributed 25.9 million GT in 2015) which was highest among the other types of ships delivered in the same year.

5.4 Tables 5.2 provide country-wise data on the ship order book position during 2016 and table 5.4 presents the country-wise ships completion during the year 2015. The percentage share of Ships on order during 2016 was given in chart XIII. Chart suggest that, China, Republic of Korea and Japan were the top three nations which accounted for a global share of 42.9%, 16.2% and 27.0% respectively in ships on order in 2016. China, Republic of Korea and Japan were the top three nations which accounted for a global share of 36.7%, 25.6% and 23.8% respectively in ships on order in terms of gross tonnage in 2016.



5.5 The different types of ships on order and delivered in the world may be seen from the following charts.



Other Countries: All excluding United States, Japan, Vietnam, China & Rep. of Korea for Chart XV

Source: Shipping Statistics Yearbook 2016

Table No. 5.1

**World Ship-building - Ships On Order And Completed
During 1998 - 2016**

Year	Ships on Order *		Ships Completed @	
	No	1000 cgt	No	1000 gt
(1)	(2)	(3)	(4)	(5)
1998	1917	53416	1729	25334
1999	1752	52933	1564	27649
2000	1905	65147	1650	31766
2001	2055	74141	1695	31342
2002	1851	66778	1709	33557
2003	2248	49155	1731	36786
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 \$	3531	91868	-	-

Note: Figures of Ships on Order in the Table for the period 1998 to 2002 is as on 1st July and for the period 2003 onwards is as on 1st January.

* Ships of 300gt and Over.

@ Merchant Ships of 100gt and Over.

\$As on 1st July,2016

Source: Shipping Statistics Year Book 2016

Table No.5.2

Ships on Order by Major Types and Country of Build
(As on 1st July, 2016)

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)
1	Japan	300	7977	495	8928	67	3399	76	1218	14	311	952	21833
2	Korea Rep.	456	17831	20	589	75	4417	22	711	-	-	573	23548
3	Italy	1	14	-	-	-	-	1	10	20	1965	22	1989
4	China PR of	368	9009	676	14367	234	7047	211	2771	25	525	1514	33719
5	Germany	1	23	-	-	-	-	10	146	17	2028	28	2197
6	Poland	-	-	-	-	1	10	2	7	6	65	9	82
7	Croatia	7	150	7	91	1	14	12	238	9	124	36	617
8	Spain	4	121	-	-	-	-	2	11	1	34	7	166
9	Romania	15	390	1	31	-	-	2	9	2	5	20	435
10	Denmark	-	-	-	-	-	-	-	-	2	28	2	28
11	US	10	243	-	-	2	55	2	41	6	47	20	386
12	Taiwan	2	30	-	-	21	532	-	-	-	-	23	562
13	Ukraine	-	-	-	-	-	-	-	-	-	-	0	0
14	Netherlands	1	11	2	10	-	-	9	41	-	-	12	62
15	Bangladesh	16	38	-	-	-	-	10	68	-	-	26	106
16	France	-	-	-	-	-	-	-	-	5	824	5	824
17	Russia	18	130	-	-	-	-	9	7	-	-	27	137
18	Turkey	13	117	1	7	-	-	3	20	13	117	30	261
19	Norway	-	-	-	-	-	-	-	-	-	-	0	0
20	Portugal	-	-	-	-	-	-	-	-	1	7	1	7
21	Bulgaria	-	-	-	-	-	-	-	-	-	-	0	0
22	Philippines	10	296	59	1002	17	942	-	-	1	5	87	2245
23	UK	-	-	-	-	-	-	-	-	2	17	2	17
24	Finland	-	-	-	-	-	-	-	-	7	735	7	735
25	India	-	-	3	47	-	-	-	-	-	-	3	47
26	Greece	1	3	-	-	-	-	-	-	-	-	1	3
27	Iran	3	78	-	-	1	18	-	-	-	-	4	96
28	Australia	-	-	-	-	-	-	-	-	3	56	3	56
29	Brazil	35	677	-	-	3	61	1	9	-	-	39	747
30	Slovakia	-	-	-	-	-	-	-	-	-	-	0	0
31	Indonesia	12	113	-	-	-	-	-	-	2	6	14	119
32	Singapore	-	-	-	-	-	-	-	-	-	-	0	0
33	Vietnam	26	490	13	167	1	3	9	39	2	16	51	715
34	Argentina	2	33	6	54	-	-	-	-	-	-	8	87
35	UAE	-	-	-	-	-	-	-	-	-	-	0	0
36	Malaysia	-	-	-	-	-	-	-	-	-	-	0	0
37	Sri Lanka	-	-	-	-	-	-	-	-	-	-	0	0
38	Canada	-	-	-	-	-	-	-	-	2	12	2	12
39	Czech Republic	-	-	-	-	-	-	-	-	-	-	0	0
40	Chile	-	-	-	-	-	-	-	-	1	6	1	6
41	Egypt	-	-	-	-	-	-	1	15	-	-	1	15
42	Unknown	-	-	-	-	-	-	1	9	-	-	1	9
	Total	1301	37774	1283	25293	423	16498	383	5370	141	6933	3531	91868

Source : Shipping Statistics Year book 2016

Table No. 5.3

Ship on order by Type During 2014-16

Ships of 300gt and over

Ship Type	2014		2015		2016	
	No of Ships	1000 cgt	No of Ships	1000 cgt	No of Ships	1000 cgt
(1)	(4)	(5)	(6)	(7)	(6)	(7)
Tankers	1134	29292	1337	37881	1301	37774
Bulk Carriers	1767	34104	1948	38378	1283	25293
Container Ships	474	19220	440	17012	423	16498
General Cargo Ships	408	6296	369	5685	383	5370
Passenger Ships	96	3818	101	4881	141	6933
Grand Total	3879	92730	4195	103837	3531	91868

Note: Figures for the year 2014 & 2015 is as on 1st January and for the year 2016 is as on 1st July.

Source: Shipping Statistics Year Book 2016.

Table No. 5.4

Merchant Ships Completed By Country Of Build (2013-2015)

(Ships of 100 gt & Over) (a)

S. No.	Country of Build	2013		2014		2015	
		No.	1000 gt	No.	1000 gt	No.	1000 gt
1	2	3	4	5	6	7	8
(1)	Croatia	7	87.0	6	38.0	7	74.0
(2)	Brazil	28	147.0	18	240.0	31	400.0
(3)	Denmark (b)	1	0.0	2	1.0	-	-
(4)	Finland	2	64.0	4	102.0	2	112.0
(5)	France	3	182.0	2	2.0	5	4.0
(6)	China	950	26706.0	836	23033.0	934	25137.0
(7)	Germany (c)	11	345.0	14	499.0	10	385.0
(8)	Italy	9	169.0	6	305.0	6	219.0
(9)	Korea, Rep. Of	385	24704.0	321	21969.0	357	23178.0
(10)	Japan	418	14534.0	408	13365.0	518	13005.0
(11)	Netherlands	37	101.0	40	131.0	33	88.0
(12)	Norway	41	229.0	38	256.0	20	53.0
(13)	Poland	14	58.0	10	46.0	33	67.0
(14)	Spain	27	92.0	13	31.0	27	38.0
(15)	Philippines	24	1328.0	39	1865.0	40	1865.0
(16)	United Kingdom	3	2.0	1	1.0	6	3.0
(17)	United States	58	125.0	72	219.0	75	427.0
(18)	Vietnam	51	529.0	49	352.0	88	590.0
(19)	Other Countries (d)	329	1669.0	321	1425.0	330	1989
	World Total	2403	71071	2200	63876	2522	67634

(a) Ships of 300 gt and over

(b) Includes Faeroes from 1987

(c) Figures for the Federal Republic of Germany include the former German Democratic Republic from 1990 onwards.

(d) Incomplete information for 1970-1992.

Source : Shipping Statistics Year Book 2016.

Table No. 5.5

World Merchant Ships Completed By Principle Types (1987-2015)

(Ships of 100gt and over (a))

Year	Oil Tankers		Bulk/Oil Carriers(b)		Ore & Bulk Carriers		General Cargo(c),(e)		Passenger Ships	
	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1987	134	3052	6	499	105	3847	147	2133		
1988	173	4131	2	207	50	2088	153	1790		
1989	161	5013	2	42	103	3844	309	1180		
1990	151	5079	-	-	123	5536	350	1598	125	826
1991	175	6782	9	619	78	3083	386	1556		
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 (e)	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

World Merchant Ships Completed By Principle Types (1987-2015)

(Ships of 100gt and over (a))

Year	Container Ships(b)(d)		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)
1987	41	1125	60	202	526	260	380	1058	1399	12176
1988	38	1473	55	153	576	380	362	583	1409	10805
1989	46	1247	97	653	518	377	363	881	1599	13237
1990	68	1655	117	789	498	334	365	894	1672	15885
1991	78	1910	131	963	367	238	350	945	1574	16096
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 (e)	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

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

(b) : Incl. Ore/oil carriers.

(c) : Ships of 2000 gt. and over upto 1988.

(d) : 1989 to 2006 all ships of 100 gt. and over are included.

(e) : Since 2003 all ships of 300 gt and over.

Source : Shipping Statistics Year Book, 2016.

Table No. 5.6

Total Order Book - By Country of Build
(As on 1st July,2016)

(Ships of 300 gt and over)

Country	2015			2016		
	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	1764	78152	128561	1514	33720	119969
Croatia	27	653	766	36	618	752
Phillippines	67	4868	6580	87	2245	7354
Finland	5	606	63	7	735	60
France	4	786	70	5	824	95
Germany. FR of	24	1806	260	28	2196	327
Italy	16	1242	159	22	1988	187
Japan	892	37967	57924	952	21833	64843
Korea, Republic of	777	61045	83860	573	23548	63343
Netherlands	26	106	142	12	61	56
Poland	8	55	21	9	82	22
Romania	27	1845	3220	20	435	1952
Russia	18	76	111	27	137	217
Spain	2	46	8	7	166	654
Turkey	32	177	203	30	260	167
U.S	23	659	938	20	386	657
Other Countries	173	4614	7220	182	2634	6635
Total	3885	194703	290106	3531	91868	267290

Source: Shipping Statistics Year Book 2016

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.
