



STATISTICS OF INDIA'S SHIP BUILDING AND SHIP REPAIRING INDUSTRY

2015-16



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

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सत्यमेव जयते

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राजीव कुमार
RAJIVE KUMAR
TEL. : 23714938
FAX : 23716656



सचिव
पोत परिवहन मंत्रालय
भारत सरकार
SECRETARY
MINISTRY OF SHIPPING
GOVERNMENT OF INDIA

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 2015-16" 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 with his knowledge and professional commitment. Suggestions from the users of information are welcome to improve quality and coverage.

(Rajive Kumar)

New Delhi
June, 2017

Officers & Staff involved in this Publication

Shri M.M. Hasija
Adviser (Statistics)

Shri Santosh Kumar Gupta
Deputy Director (Shipping)

Shri Ashish Kumar Saini
Senior Statistical Officer

Shri Rahul Sharma
Junior Statistical Officer

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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
LOA	-	Length Overall
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 & Tourbo Ltd
PPV	-	Pipavav

MIPL - Modest Infrastructure Pvt. Ltd.
CSPL- Chidambaranar 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 7.89% 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 2016, Indian shipping tonnage was 11.43 million Gross Registered Tonnage (GRT) with 1301 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 1.6% in 2015 (Source: WTO). 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. 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 39 dry-docks for repairing ships in India both in public and private sector as per data reported. These dry docks include the 11 dry docks operated by 7 major ports. The major ports which have no dry-dock facilities are Mormugao, JNPT, New Mangalore, Chennai, Ennore, and Haldia Dock Complex of Kolkata Port.

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,

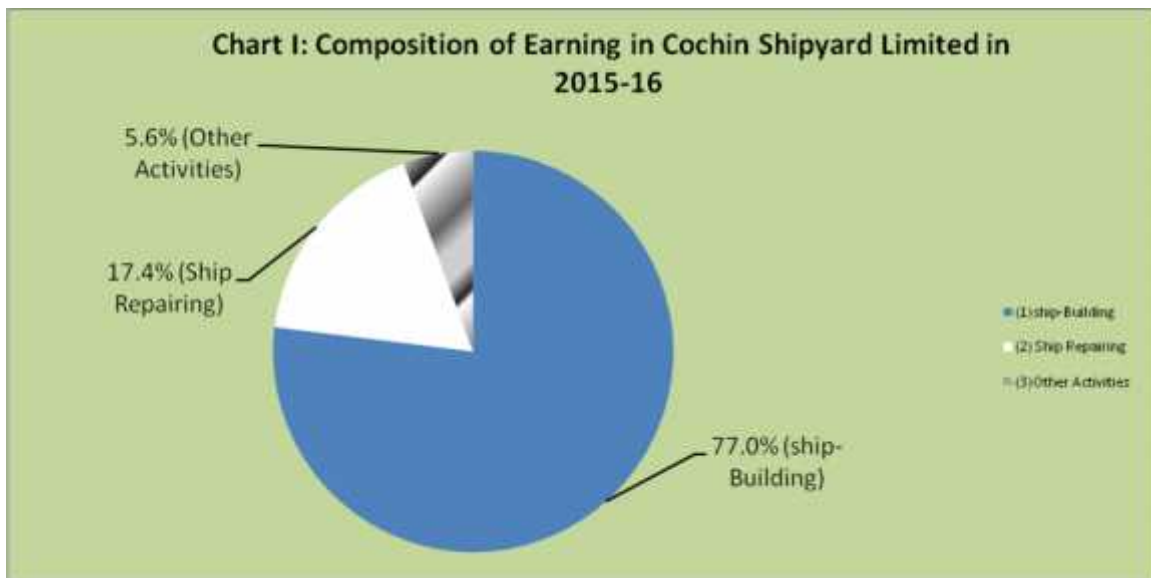
8.1 COCHIN SHIPYARD LIMITED (CSL)

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.

8.1.1 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 capacity.
-) 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.

8.1.2 The percentage shares of income earned by Cochin Shipyard Ltd. from ship building, ship repairing and other activities during 2015-16 are depicted in chart I.



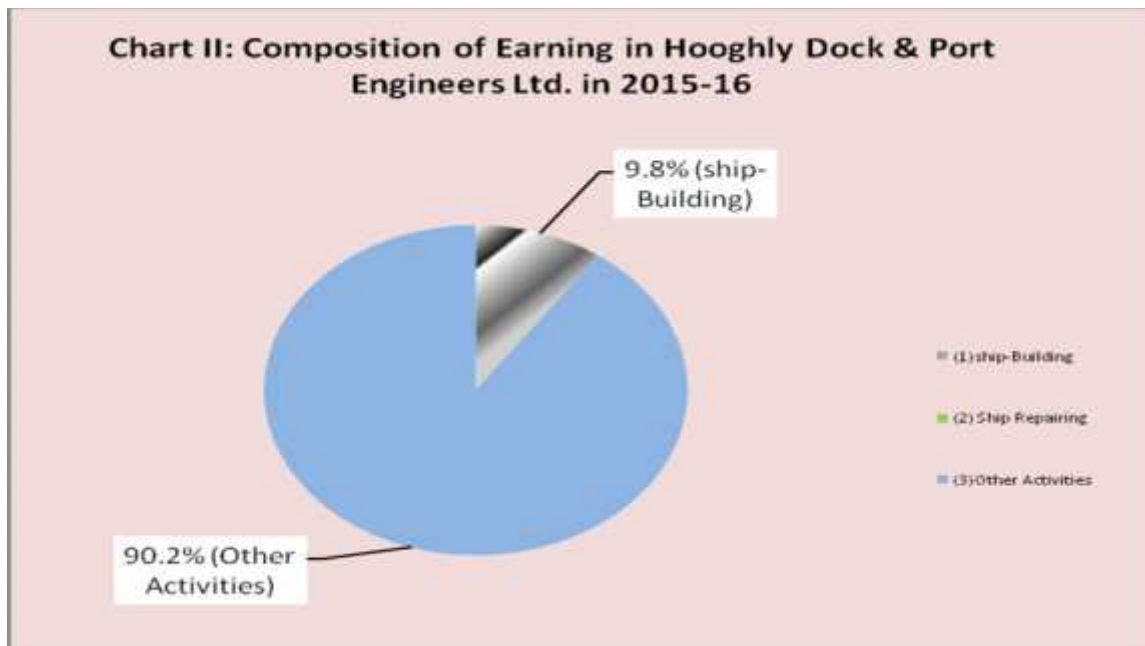
8.2. HOOGHLY DOCK & PORT ENGINEERS LIMITED, KOLKATA (HDPEL)

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”

8.2.1 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.

8.2.2 The percentage shares of income earned by Hooghly Dock & Port Engineers Ltd. from ship building, ship repairing and other activities during 2015-16 are depicted in

chart II. The company is undergoing restructuring process of entering into a Joint Venture with another Shipbuilding company.

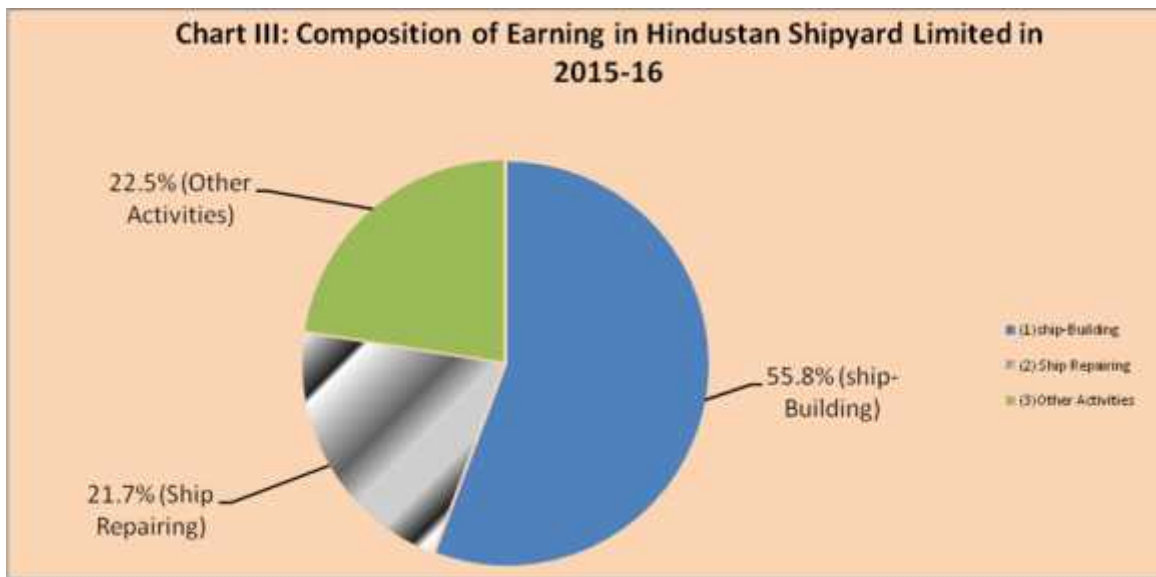


8.3 HINDUSTAN SHIPYARD LIMITED (HSL)

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.

8.3.1 The percentage share of income earned by Hindustan Shipyard Ltd. during 2015-16 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 2002-03 to 2015-16 is presented in **Tables 1 and 2** below:-

Year	Public Shipyards	Private Shipyards	Total
2002-03	25.36	Nil	25.36
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

Table- 2: Shipbuilding- Total Subsidy Disbursed in term of Domestic Vs Export order (Rupees in Crore)			
Year	Domestic Orders	Export Orders	Total
2002-03	13.33	12.03	25.36
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

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 2016. 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 the public sector companies, Cochin Shipyard Ltd. possessed the maximum size of ship building capacity (110 thousand DWT) followed by Hindustan Shipyard Ltd. (80 thousand DWT), Alcock Ashdown Ltd (15.00 thousand DWT) and Goa Shipyard Ltd. (4.50 thousand DWT). Charts IV and V present the ship building capacity (in terms of their DWT) of some of the big shipbuilding companies as on 31st March 2016 in public & private sector.

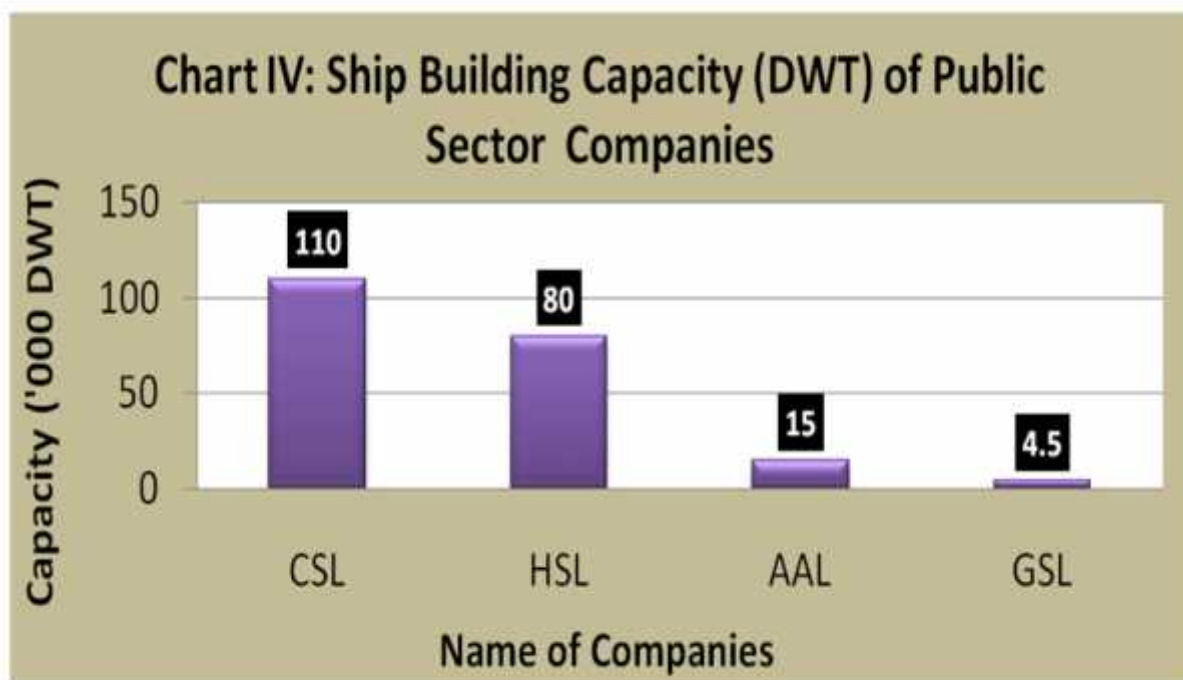
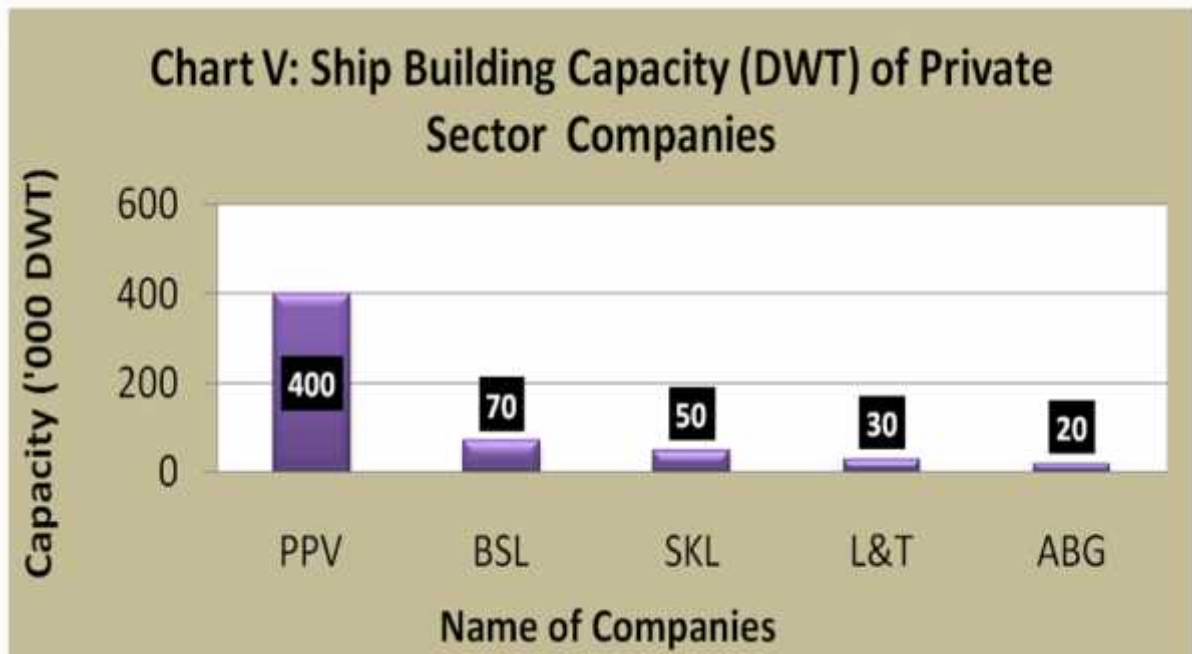


Table 1.1 gives detailed company-wise maximum size/ capacity of shipbuilding by public sector and private sector companies.



SHIPS ON ORDER

1.3. Indian ship-building companies at the end of 2015-16 had orders of 296 ships with DWT 2742.06 thousand tonnes. As on 31st March, 2016 the public sector shipyards had orders of 104 ships of 173.07 thousand DWT. Out of these, 16 ships of 1.12 thousand DWT were export order and remaining were orders from domestic companies. In terms of numbers, Goa Shipyard Ltd had the highest number of ships on order (32) followed by Mazagon Dock Ltd. (17) and Garden Reach Ship-Building & Engineers Ltd. (15). Order book in terms of DWT was highest for Mazagon Dock Ltd with 86.00 thousand DWT followed by Hindustan Shipyard Ltd. at 57.37 thousand DWT and Cochin Shipyard Ltd. with 16.99 thousand DWT.

1.4. In private sector category as on 31st March, 2016, the shipyards had orders for 192 ships of total 2568.98 thousand DWT. Out of these, 53 ships with total capacity of 1357.03 thousand DWT were export orders. Amongst the reporting ship building companies in the private sector, ABG Shipyard Ltd. had the highest number of ships on order (63) with a total capacity of 1168.21 thousand DWT followed by Bharati Shipyard Ltd. (57) number of ships on order with a total capacity of 216.29 thousand DWT, Pipavav* (42) with 1146.00 thousand DWT and Larsen* (8) with 20.00 thousand DWT in 2015-16.

* No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

COMPOSITION OF ORDER BOOK POSITION:

1.5. In the current order book, out of total 296 ships, 104 are with public sector yards and 192 are with private sector yards amounting to 173.07 thousand DWT and 2568.98 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, 2016.

Table- 3: Current Order Book By Types of Vessels							
(As on 31st March, 2016)							
(‘000 DWT)							
Vessel	Tankers	Dry Cargo	Bulk Cargo	Passengers	Others	Total	
Type Yards							
Public Sector	No.	7	-	1	12	84	104
	DWT	4.29	-	53.00	10.26	105.52	173.07
Private Sector	No.	2	20	40	2	128	192
	DWT	5.88	1143.40	1218.80	2.24	198.66	2568.98
Total	No.	9	20	41	6	212	296
	DWT	10.17	1143.40	1271.8	12.50	304.19	2742.06

SHIPS DELIVERED

1.6. During the year 2015-16, among public sector companies, Garden Reach Ship-Builders & Engineers delivered highest tonnage with 45.0 thousand DWT consisting of 1 ship followed by Cochin Shipyard Ltd. at 1.5 thousand DWT (6 ships) and Goa Shipyard Ltd at 1.27 thousand DWT (15 ships). In the private sector, the highest tonnage was delivered by Pipavav* of 76.50 thousand DWT (3 ships) followed by Tebma Shipyard Ltd. at 5.56 thousand DWT (4 ships). In terms of tonnage delivered, the public sector and private sector accounted for a share of 34.19 % (48.51 thousand DWT) and 65.81.0 % (94.53 thousand DWT) respectively in the total tonnage (143.04 thousand DWT) delivered during 2015-16.

* No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

1.7. Table number - 4 depicts the size and number of ships delivered by both public and private ship yards in India during 2014-15 and 2015-16.

Table No. 4 : Size and Number of Ships Delivered				
Name of the Company	Ship Delivered			
	2014-15		2015-16	
	No.	DWT('000)	No.	DWT('000)
(1)	(2)	(3)	(4)	(5)
A. PUBLIC SECTOR (Total)	15	106.91	32	48.51
1. Alcock Ashdown & Co. Ltd.	1	0.13	0	0
2. Cochin Shipyard Ltd.	7	10.60	6	1.50
3. Garden Reach Ship- Builders & Engineers	2	85	1	45
4. Goa Shipyard Ltd.	2	0.44	15	1.27
5. Hindustan Shipyard Ltd.	-	-	3	0.46
6. Hooghly Dock & Port Engineers Ltd.	-	-	4	0.24
7. Mazagon Dock Ltd.	2	10.70	2	-
8. Shalimar Works Ltd.*	1	0.04	1	0.04
B. PRIVATE SECTOR (Total)	24	97.69	23	94.53
9. Dempo Shipbuilding & Engineering Ltd.	1	2.90	-	-
10. ABG Shipyard Ltd.	-	-	3	1.70
11. Bharati Shipyard Ltd.	4	0.64	2	0.03
12. Chowgule & Co. Ltd.	4	3.10	4	2.65
13. Ferromar Shipping Pvt. Ltd.*	-	-	-	-
14. Vedanta Ltd.	-	-	-	-
15. A.C. Roy & Comp. Ltd.*	3	1.49	3	1.49
16. Bristol Boats	-	-	-	-
17. Tebma Shipyard Ltd.*	4	5.56	4	5.56
18. Larsen & Toubro Ltd.*	2	5.00	2	5.00
19. N.N. Shipbuilders & Engineers Ltd.*	...	...	...	...
20. Pipavav*	3	76.50	3	76.50
21. Modest Infrastructure Pvt. Ltd.	3	2.5	2	1.60
22. Chidambaranar Shipcare Pvt.* Ltd.	...	...	...	...
23. Sembmarine Kakinada Ltd.	...	...	...	...
Grand Total (A + B)	39	204.60	55	143.04

* No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Ship Building Maximum Size/ Capacity of the Company By Types & Size
(As on 31st March, 2016)

Table No. 1.1

No.	Name of the company	Type of vessel/ship	Max.Size/Capacity			
			Length (Mts.)	Width (Mts.)	Draft (Mts.)	DWT (‘000)
(1)	(2)	(3)	(4)	(5)	(6)	(7)

A. PUBLIC SECTOR

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, platform supply vessels, passenger vessels, tugs, barrages, dredgers etc.	250.00	38.00	5.00	110.00
3	Garden Reach Ship-Builders & Engineers Ltd.* (GRSE)	(a) Anti-submarine warfare corvettes (b) Mauritius offshore patrol vessel (c) Inshore patrol vessel (d) Landing craft utility (e) Water Jet Fast Attack Craft	109.10 74.10 48.90 62.90 48.90	14.17 11.40 7.50 11.00 7.50	3.90 3.50 2.20 1.70 2.20	0.55 0.41 0.06 0.21 0.06
4	Goa Shipyard Ltd.(GSL)	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	120.00	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/Traveler	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	1.20

Ship Building Maximum Size/ Capacity of the Company By Types & Size

Table No. 1.1 (Contd..)

(As on 31st March, 2016)

Sl. No.	Name of the company	Type of vessel/ship	Max. Size/Capacity			
			Length (Mts.)	Width (Mts.)	Draft (Mts.)	DWT ('000)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
B. PRIVATE SECTOR						
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.	150.00	22.00	8.50	20.00
11	Bharti Defence & Infrastructure Ltd. \$	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.	110.00 110.00 90.00 60.00	18.00 18.00 16.00 16.00	3.30 3.30 3.30 3.30	8.00 6.00 - -
13	Ferromar Shipping Pvt. Ltd. (FSL) ® ***	I.R.S. Type-Strengthened for heavy cargo Bureau Veritas-Strengthened for heavy cargo	70.00 64.00	13.00 11.50	1.20 1.20	2.00 1.20
14	Vedanta Limited **	All types of vessels	80.00	15.00	9.10	-
15	A.C.Roy & Co. Ltd.(ACRL) ***	(a) Launch (b) Tug © Barge	26.00 20.00 65.00	7.00 6.00 12.00	2.50 2.50 3.00	0.04 0.03 1.50
16	Bristol Boats(BB)	(a) FRP Petrol Crafts (b) Others	20.00 12.00	5.00 4.00	4.00 3.50	0.05 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

Ship Building Maximum Size/ Capacity of the Company By Types & Size

Table No. 1.1 (Contd..)

(As on 31st March, 2016)

Sl. No.	Name of the company	Type of vessel/ship	Max.Size/Capacity			
			Length (Mts.)	Width (Mts.)	Draft (Mts.)	DWT ('000)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
B. PRIVATE SECTOR (Contd.)						
18	Larsen & Toubro Limited(L&T) ***	(a) Offshore: PSV, DSV, AHTs (b) Chemical Tankers (C) LPG Tankers (d) Offshore & sub-sea construction vessels (e) Dredgers CSD/TSHD (f) River Sea Vessels-RSV	80.00 200.00 180.00 160.00 105.00 160.00	18.00 30.00 30.00 27.00 19.00 27.00	6.00 15.00 15.00 9.50 5.00 8.00	3.50 30.00 25.00 18.00 6.00 15.00
19	N N Shipbuilders and Engineers Pvt. Ltd(NNSE) ***	(a) Tugs (b) Pontoons (c) Ferry/Barges	40.00 40.00 30.00	10.00 12.00 10.00	2.30 4.00 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 b) Multi Purpose Vessel c) Product Tanker d) Cement Carrier e) Ferry Craft f) Tug g) Offshore Survey Vessel h) Axiliary Vessel i) Dredger j) Offshore Dumb Barge	58.00 72.00 60.00 78.00 72.00 33.00 59.20 80.00 27.00 72.00	11.00 13.00 12.00 13.50 12.80 11.50 15.00 13.00 12.00 20.00	3.00 2.50 3.20 3.00 2.80 4.10 2.50 2.80 2.50 3.50	0.50 0.80 1.00 2.20 200 men Bollard Pull- 65 T - - 1250 m3/hr 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

* It includes information of Rajabagan Dockyard of CIWTC Ltd. which was merged with Garden Reach ship-builders & Engineers Ltd. w.e.f. 1.7.2006.

@ Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

** Formerly known as Sesa Sterlite Ltd. / Sesa Goa Ltd.

\$ Formerly Bharati Shipyard Ltd.(BSL)

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Ship Building Maximum Size/ Capacity - By Company-wise

(2012-13 to 2015-16)

Table No. 1.2

('000 DWT)

Name of The Company	2012-13	2013-14	2014-15	2015-16
(1)	(2)	(3)	(4)	(5)

A. PUBLIC SECTOR

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	0.55
4. Goa Shipyard Ltd.	4.50	4.50	10.00	4.50
5. Hindustan Shipyard Ltd.	80.00	80.00	80.00	80.00
6. Hooghly Dock & Port Engineers Ltd.	12.00	12.00	12.00	3.00
7. Mazagon Dock Ltd.	...	...	...	...
8. Shalimar Works Ltd. ***	1.20	1.20	1.20	1.20

B. PRIVATE SECTOR

9. Dempo Shipbuilding and Engineering Ltd.	5.50	5.50	5.50	5.50
10. ABG Shipyard Ltd.	20.00	20.00	20.00	20.00
11. Bharati Defence & Infrastructure Ltd. \$	70.00	70.00	70.00	70.00
12. Chowgule & Co. Ltd.	7.00	8.00	8.00	8.00
13. Ferromar Shipping Pvt. Ltd. @ ***	3.00	3.00	2.00	2.00
14. Vedanta Ltd. *	-	-	-	-
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. Larsen & Toubro 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
22. Chidambaranar Shipcare Pvt. Ltd. ***	...	...	...	...
23. Sembmarine Kakinada Ltd.	...	...	50.00	50.00

@ Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

* Formerly Sesa Goa/Sesa Sterlite Ltd.

\$ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 1.3

Ship Order Book Position by Type of Vessels
(As on 31st March, 2016)

('000 DWT)

Name of Company	Type of Ship on Domestic Order (A - For Sea Going Vessels)											
	Tanker		Dry Cargo		Bulk Carriers		Passenger/Passenger -cum-Cargo Ships		Product Carriers		Other	
	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

A. Public Sector

1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-	-	-	-	-	-	-	5	1.11
2. Cochin Shipyard Ltd.	-	-	-	-	-	-	4	10.17	-	-	-	4	6.82
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	15	3.27
4. Goa Shipyard Ltd.*	4	4.00	-	-	-	-	-	-	-	-	-	7	2.81
5. Hindustan Shipyard Ltd.	-	-	-	-	1	53.00	-	-	-	-	-	3	3.49
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-
8. Shalimar Works Ltd. ***	3	0.29	-	-	-	-	8	0.09	-	-	-	-	-
Total	7	4.29	0	0.00	1	53.00	12	10.26	0	0.00	34	17.50	

B. Private Sector

9. Dempo Shipbuilding & Engineering Ltd.	1	2.58	-	-	-	-	-	-	-	-	-	-	-
10. ABG Shipyard Ltd.	-	-	-	-	34	1098.80	-	-	-	-	-	3	2.65
11. Bharati Defence & Infrastructure Ltd. \$	-	-	-	-	-	-	2	2.24	-	-	-	1	3.70
12. Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-
13. Ferromar Shipping Pvt. Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-	-
14. Vedanta Ltd. *	-	-	-	-	-	-	-	-	-	-	-	-	-
15. A.C. Roy & Co. Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	-	-	-
17. Tebma Shipyard Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-	-
18. Larsen & Toubro Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-	-
19. N N Shipbuilders and Engineers Pvt Ltd ***	-	-	-	-	-	-	-	-	-	-	-	4	-
20. Pipavav ***	-	-	-	-	-	-	-	-	-	-	-	20	18.00
21. Modest Infrastructure Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-
22. Chidambaranar Shipcare Pvt. Ltd. ***	...	...	...	...	...	...	...	...	...	...	...	...	...
23. Sembmarine Kakinada Ltd. **	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	2.58	0	0.00	34	1098.80	2	2.24	0	0.00	28	24.35	
Total (A + B)	8	6.87	0	0.00	35	1151.80	14	12.50	0	0.00	62	41.85	

* Includes 1 ship as Fishing Research Vessel

Table No. 1.3 (Contd.)

**Ship Order Book Position by Type of Vessels
(As on 31st March, 2016)**

('000 DWT)

Name of Company	Type of Ship on Domestic Order (B - For Other Crafts)										Total (A + B)	
	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		
1	14	15	16	17	18	19	20	21	22	23	24	25

A. Public Sector

1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-	-	-	-	-	-	5	1.11
2. Cochin Shipyard Ltd.	-	-	-	-	-	-	-	-	3	-	11	16.99
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	15	3.27
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	5	0.02	16	6.83
5. Hindustan Shipyard Ltd.	2	0.38	-	-	-	-	-	-	7	0.50	13	57.37
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	0	0.00
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	17	86.00	17	86.00
8. Shalimar Works Ltd. ***	-	-	-	-	-	-	-	-	-	-	11	0.38
Total	2	0.38	0	0.00	0	0.00	0	0.00	32	86.52	88	171.95

B. Private Sector

9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	1	2.58
10. ABG Shipyard Ltd.	-	-	-	-	26	66.76	-	-	-	-	63	1168.21
11. Bharati Defence & Infrastructure Ltd. §	-	-	-	-	1	2.00	-	-	27	2.57	31	10.51
12. Chowgule Shipping Ltd.	-	-	1	0.05	-	-	-	-	-	-	1	0.05
13. Ferromar Shipping Pvt. Ltd. ***	-	-	-	-	-	-	-	-	-	-	0	0.00
14. Vedanta Ltd. *	-	-	-	-	-	-	-	-	-	-	0	0.00
15. A.C. Roy & Co. Ltd. ***	-	-	-	-	-	-	-	-	9	1.18	9	1.18
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	0	0.00
17. Tebma Shipyard Ltd. ***	2	0.36	...	...	...	...	...	...	1	0.56	3	0.92
18. Larsen & Toubro Ltd. ***	-	-	-	-	-	-	-	-	-	...	0	0.00
19. N N Shipbuilders and Engineers Pvt Ltd ***	-	-	-	-	-	-	-	-	-	-	4	0.00
20. Pipavav ***	-	-	-	-	7	10.50	-	-	-	-	27	28.50
21. Modest Infrastructure Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	0	0.00
22. Chidambaranar Shipcare Pvt. Ltd. ***	...	...	...	...	...	...	...	...	...	...	0	0.00
23. Sembmarine Kakinada Ltd. * *	-	-	-	-	-	-	-	-	-	-	0	0.00
Total	2	0.36	1	0.05	34	79.26	0	0.00	37	4.31	139	1211.95
Total (A + B)	4	0.74	1	0.05	34	79.26	0	0.00	69	90.83	227	1383.90

Table No. 1.3 (Contd.)

Ship Order Book Position by Type of Vessels
(As on 31st March, 2016)

('000 DWT)

Name of Company	Type of Ship on Export Order (A - For Sea Going Vessels)											
	Tanker		Dry Cargo		Bulk Carriers		Passenger/Passenger-cum-Cargo Ships		Product Carriers		Other	
	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

A. Public Sector

1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
2. Cochin Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	4	0.96
5. Hindustan Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
8. Shalimar Works Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	4	0.96

B. Private Sector

9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
10. ABG Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
11. Bharati Defence & Infrastructure Ltd. \$	-	-	5	25.90	6	120.00	-	-	4	25.00	-	-
12. Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
13. Ferromar Shipping Pvt. Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-
14. Vedanta Ltd. *	-	-	-	-	-	-	-	-	-	-	-	-
15. A.C. Roy & Co. Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	-	-
17. Tebma Shipyard Ltd. ***	...	...	...	...	...	...	...	...	...	...	3	10.45
18. Larsen & Toubro Ltd. ***	-	-	-	-	-	-	-	-	-	-	-	-
19. N N Shipbuilders and Engineers Pvt Ltd ***	-	-	-	-	-	-	-	-	-	-	-	-
20. Pipavav ***	-	-	15	1117.50	-	-	-	-	-	-	-	-
21. Modest Infrastructure Pvt. Ltd.	1	3.30	-	-	-	-	-	-	-	-	-	-
22. Chidambaranar Shipcare Pvt. Ltd. ***	...	...	...	...	...	...	...	...	...	...	...	...
23. Sembmarine Kakinada Ltd. **	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	3.30	20	1143.40	6	120.00	0	0.00	4	25.00	3	10.45
Total (A + B)	1	3.30	20	1143.40	6	120.00	0	0.00	4	25.00	7	11.41

Table No. 1.3 (Contd.)

Ship Order Book Position by Type of Vessels
(As on 31st March, 2016)

('000 DWT)

Name of Company	Type of Ship on Export Order (B - for Other Crafts)										Total (A+B)	
	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		
1	12	13	14	15	16	17	18	19	20	21	22	23

A. Public Sector

1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-	-	-	-	-	-	-	0	0
2. Cochin Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	0	0.00
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	0	0.00
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	12	0.164	16	1.124
5. Hindustan Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	0	0
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	0	0
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	0	0
8. Shalimar Works Ltd. ***	-	-	-	-	-	-	-	-	-	-	0	0
Total	0	0.00	0	0.00	0	0.00	0	0.00	12	0.16	16	1.12

B. Private Sector

9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	0	0
10. ABG Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	0	0
11. Bharati Defence & Infrastructure Ltd. \$	-	-	-	-	11	34.88	-	-	-	-	26	205.78
12. Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	-	-	0	0
13. Ferromar Shipping Pvt. Ltd. ***	-	-	-	-	-	-	-	-	-	-	0	0
14. Vedanta Ltd. *	-	-	-	-	-	-	-	-	-	-	0	0
15. A.C. Roy & Co. Ltd. ***	-	-	-	-	-	-	-	-	-	-	0	0
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	0	0
17. Tebma Shipyard Ltd. ***	...	...	...	...	...	...	...	...	...	...	3	10.45
18. Larsen & Toubro Ltd. ***	-	-	-	-	8	20.00	-	-	-	-	8	20.00
19. N N Shipbuilders and Engineers Pvt Ltd ***	-	-	-	-	-	-	-	-	-	-	0	0
20. Pipavav ***	-	-	-	-	-	-	-	-	-	-	15	1117.50
21. Modest Infrastructure Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	1	3.30
22. Chidambaranar Shipcare Pvt. Ltd. ***	...	...	...	...	...	...	...	...	...	...	0	0.00
23. Sembmarine Kakinada Ltd. **	-	-	-	-	-	-	-	-	-	-	0	0.00
Total	0	0.00	0	0.00	19	54.88	0	0.00	0	0.00	53	1357.03
Total (A + B)	0	0.00	0	0.00	19	54.88	0	0.00	12	0.16	69	1358.154

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

* Formerly known as Sesa Sterlite Ltd. / Sesa Goa Ltd.

** Being new facility which is commissioned this year all orders are in tendering stage.

\$ Formerly Bharti Shipyard Ltd.

**Table No.
1.3(Contd.)**

**Total Ship Order Book of Vessels by Domestic Order and
by Export Order (As on 31st March, 2016)**

('000 DWT)

Name of Company	Domestic Order		Export Order		Total Ship Order	
	No. of Ships	DWT	No. of Ships	DWT	No. of Ships (Col. 2 + Col. 4)	DWT (Col. 3 + Col. 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.	11	16.99	0	0.00	11	16.99
3. Garden Reach Ship-builders and Engineers Ltd.	15	3.27	0	0.00	15	3.27
4. Goa Shipyard Ltd.	16	6.83	16	1.12	32	7.95
5. Hindustan Shipyard Ltd.	13	57.37	0	0.00	13	57.37
6. Hooghly Dock & Port Engineers Ltd.	0	0.00	0	0.00	0	0.00
7. Mazagon Dock Ltd.	17	86.0	0	0.00	17	86.00
8. Shalimar Works Ltd. ***	11	0.38	0	0.00	11	0.38

Total

88 171.95 16 1.12 104 173.07

B. Private Sector

9. Dempo Shipbuilding & Engineering Ltd.	1	2.58	0	0.00	1	2.58
10.ABG Shipyard Ltd.	63	1168.21	0	0.00	63	1168.21
11.Bharati Defence & Infrastructure Ltd. \$	31	10.51	26	205.78	57	216.29
12.Chowgule Shipping Ltd.	1	0.05	0	0.00	1	0.05
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. ***	9	1.18	0	0.00	9	1.18
16.Bristol Boats	0	0.00	0	0.00	0	0.00
17.Tebma Shipyard Ltd. ***	3	0.92	3	10.45	6	11.37
18.Larsen & Toubro Ltd. ***	0	0.00	8	20.00	8	20.00
19. N N Shipbuilders and Engineers Pvt Ltd ***	4	0.00	0	0.00	4	0.00
20. Pipavav ***	27	28.50	15	1117.50	42	1146.00
21. Modest Infrastructure Pvt. Ltd.	0	0.00	1	3.30	1	3.30
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

Total

139 1211.95 53 1357.03 192 2568.98

Total (A + B)

227 1383.90 69 1358.15 296 2742.06

* Formerly known as Sesa Sterlite Ltd. / Sesa Goa Ltd.

\$ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 1.4**No. of Ships on Order - Company-wise
2013-2016**

Name of the Company (1)	As on 31st March			
	2013 (2)	2014 (3)	2015 (4)	2016 (5)
A. PUBLIC SECTOR (Total)	132	101	93	104
1. Alcock Ashdown (Gujarat) Ltd.	5	5	5	5
2. Cochin Shipyard Ltd.	25	15	7	11
3. Garden Reach Ship-Building & Engineers Ltd.	19	17	15	15
4. Goa Shipyard Ltd.	19	9	10	32
5. Hindustan Shipyard Ltd.	29	24	24	13
6. Hooghly Dock & Port Engineers Ltd.	6	6	4	0
7. Mazagaon Dock Ltd.	15	13	17	17
8. Shalimar Works Ltd. ***	14	12	11	11
B. PRIVATE SECTOR (Total)	219	249	199	192
9. Dempo Shipbuilding and Engg. Ltd.	3	0	0	1
10. ABG Shipyard Ltd.	87	66	64	63
11. Bharati Defence & Infrastructure Ltd.	64	61	61	57
12. Chowgule & Co. Ltd.	1	9	3	1
13. Ferromar Shipping Pvt. Ltd.@ ***	1	0	0	0
14. Vedanta Ltd *	0	0	0	0
15. A.C.Roy & Co. Ltd. ***	1	3	9	9
16. Bristol Boats	3	0	0	0
17. Tebma Shipyard Ltd. ***	12	6	6	6
18. Larsen & Toubro Limited ***	10	55	8	8
19. N N Shipbuilders and Engineers Pvt Ltd ***	4	4	4	4
20. Pipavav ***	33	45	42	42
21. Modest Infrastructure Pvt. Ltd.	-	-	2	1
22. Chidambaranar Shipcare Pvt. Ltd. ***	-	-	0	0
23. Sembmarine Kakinada Ltd.**	-	-	0	0
C. Total (A + B)	351	350	292	296

@ Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

** Being new facility which is commissioned this year all orders are in tendering stage.

* Formerly known as Sesa Sterlite Ltd. / Sesa Goa Ltd.

\$ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 1.5**Size And Number Of Ships Delivered, Company-wise
(2012-13 to 2015-16)**

Name of the Company (1)	Year (2)	Ship Delivered		Size ('000 DWT)	
		No. (3)	DWT('000) (4)	Maximum (5)	Minimum (6)
A. PUBLIC SECTOR (Total)	2015-16	32	48.51		
	2014-15	15	106.91		
	2013-14	26	196.71		
	2012-13	31	258.59		
1. Alcock Ashdown (Gujarat) Ltd.	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
	2012-13	1	0.13	0.13	0.13
2. Cochin Shipyard Ltd.	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
	2012-13	6	16.12	4.00	2.00
3. Garden Reach Ship-Builders and Engineers Ltd.	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
	2012-13	4	240.00	60.00	60.00
4. Goa Shipyard Ltd.	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
	2012-13	15	1.04	0.43	0.002
5. Hindustan Shipyard Ltd.	2015-16	3	0.46	0.20	0.06
	2014-15	-	-	-	-
	2013-14	5	53.72	53.00	0.06
	2012-13	1	0.18	0.18	0.18
6. Hooghly Dock & Port Engineers Ltd.	2015-16	4	0.24	0.06	0.06
	2014-15	-	-	-	-
	2013-14	-	-	-	-
	2012-13	1	-	-	-
7. Mazagon Dock Ltd.	2015-16	2	-	-	-
	2014-15	2	10.70	7.30	3.40
	2013-14	-	-	-	-
	2012-13	2	-	-	-
8. Shalimar Works Ltd. ***	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
	2012-13	1	1.12	1.12	1.12

**Table No. 1.5
Contd...**

**Size And Number Of Ships Delivered, Company-wise
(2012-13 to 2015-16)**

Name of the Company	Year	Ship Delivered		Size ('000 DWT)	
		No.	DWT('000)	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)
B. PRIVATE SECTOR (Total)	2015-16	23	94.53		
	2014-15	21	95.19		
	2013-14	30	212.98		
	2012-13	45	188.55		
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
	2012-13	11	21.90	2.20	1.50
10. ABG Shipyard Ltd.	2015-16	3	1.70	1.50	0.10
	2014-15	-	-	-	-
	2013-14	4	7.35	2.50	1.20
	2012-13	5	38.90	32.00	1.50
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
	2012-13	6	19.16	5.00	Neg.
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
	2012-13	4	20.05	5.65	4.75
13. Ferromar Shipping Pvt. Ltd. ***	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
	2012-13	1	1.20	1.20	0.00
14. Vedanta Ltd.*	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	1	-	-	-
	2012-13	1	-	-	-
15. A.C.Roy & Comp. Ltd. ***	2015-16	3	1.49	1.44	0.03
	2014-15	3	1.49	1.44	0.03
	2013-14	-	-	-	-
	2012-13	2	0.24	0.12	0.12
16. Bristol Boats	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	3	20.10	6.70	6.70
	2012-13	6	6.70	6.70	6.70

**Table No. 1.5
Contd...**

**Size And Number Of Ships Delivered, Company-wis
(2012-13 to 2015-16)**

Name of the Company	Year	Ship Delivered		Size ('000 DWT)	
		No.	DWT('000)	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)
17. Tebma Shipyard Ltd. ***	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
	2012-13	5	2.90	2.90	2.90
18. Larsen & Toubro Limited ***	2015-16	2	5.00	2.50	2.50
	2014-15	2	5.00	2.50	2.50
	2013-14	6	...	...	...
	2012-13	...	...	...	...
19. N N Shipbuilders and Engineers Pvt Ltd ***	2015-16	...	...	...	...
	2014-15	...	...	...	...
	2013-14	...	...	...	...
	2012-13	1	...	...	...
20. Pipavav ***	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
	2012-13	3	77.50	74.50	1.50
21. Modest Infrastructure Pvt. Ltd.	2015-16	2	1.60	0.80	0.80
	2014-15	3	2.50	1.50	0.50
22. Chidambaranar Shipcare Pvt. Ltd. ***	2015-16	...	...	...	...
	2014-15	...	...	...	...
23. Sembmarine Kakinada Ltd. #	2015-16	-	-	-	-
	2014-15	-	-	-	-
C. Grand Total (A + B)	2015-16	55	143.04		
	2014-15	36	202.10		
	2013-14	56	409.69		
	2012-13	76	447.14		

* Formerly Sesa Sterlite Ltd./Sesa Goa Ltd.

\$ Formerly Bharati Shipyard Ltd.

Being new facility which is commissioned this year all orders are in tendering stage.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 1.6

**No. Of Ships On Order And Number Of Ships Delivered -
Company-wise (2012-13 to 2015-16)**

Name of The Company	No. of Ships On Order During the year				Ships Delivered During the year			
	2012-13	2013-14	2014-15	2015-16	2012-13	2013-14	2014-15	2015-16
1	2	3	4	5	6	7	8	9
A. PUBLIC SECTOR	132	101	93	104	31	26	15	32
1. Alcock Ashdown (Gujarat) Ltd.	5	5	5	5	1	1	1	0
2. Cochin Shipyard Ltd.	25	15	7	11	6	10	7	6
3. Garden Reach Shipbuilders & Eng. Ltd	19	17	15	15	4	2	2	1
4. Goa Shipyard Ltd.	19	9	10	32	15	6	2	15
5. Hindustan Shipyard Ltd.	29	24	24	13	1	5	-	3
6. Hooghly Dock & Port Engineers Ltd.	6	6	4	0	1	-	-	4
7. Mazagon Dock Ltd.	15	13	17	17	2	-	2	2
8. Shalimar Works Ltd. ***	14	12	11	11	1	2	1	1
B. PRIVATE SECTOR	219	249	199	192	45	30	24	23
9. Dempo Shipbuilding & Engg. Ltd.	3	0	0	1	11	2	1	0
10. ABG Shipyard Ltd.	87	66	64	63	5	4	-	3
11. Bharati Defence & Infrastructure Ltd	64	61	61	57	6	2	4	2
12. Chowgule & Co. Ltd.	1	9	3	1	4	3	4	4
13. Ferromar Shipping Pvt. Ltd. ® ***	1	0	0	0	1	-	-	-
14. Vedanta Ltd. **	0	0	0	0	1	1	-	-
15. A.C.Roy & Comp. Ltd. ***	1	3	9	9	2	-	3	3
16. Bristol Boats	3	0	0	0	6	3	-	0
17. Tebma Shipyard Ltd. ***	12	6	6	6	5	6	4	4
18. Larsen & Toubro Limited ***	10	55	8	8	-	6	2	2
19. N N Shipbuilders and Engineers Pvt Ltd ***	4	4	4	4	1	-	-	-
20. Pipavav# ***	33	45	42	42	3	3	3	3
21. Modest Infrastructure Pvt. Ltd.	-	-	2	1	-	-	3	2
22. Chidambaranar Shipcare Pvt. Ltd. ***	-	-	0	0	-	-	-	-
23. Sembmarine Kakinada Ltd. *	-	-	0	0	-	-	-	-
TOTAL(A+B)	351	350	292	296	76	56	39	55

® Empreiteiro Geraiis Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

Vessel deliveries are scheduled to commence in F.Y. 2011-12

* Being new facility which is commissioned this year all orders are in tendering stage.

** Formerly Sesa Goa/Sesa Sterlite Ltd.

\$ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 1.7

No. Of Ships - By Keel Laid, Launched And Ships Under Construction, Company-wise (2012-13 to 2015-16)

Name of The Company	Year	No. of Ships			
		Keel-laid	Launched	Under Construction at Berth	Under Fitting at Jetty Quay
(1)	(2)	(3)	(4)	(5)	(6)
A. PUBLIC SECTOR					
1. Alcock Ashdown (Gujarat) Ltd.	2015-16	5	-	5	-
	2014-15	5	-	5	-
	2013-14	5	-	5	-
	2012-13	5	-	5	-
2. Cochin Shipyard Ltd.	2015-16	1	-	-	2
	2014-15	1	2	-	3
	2013-14	2	4	-	-
	2012-13	18	3	-	6
3. Garden Reach Ship-building & Engineers	2015-16	3	6	-	6
	2014-15	5	3	2	3
	2013-14	4	2	1	5
	2012-13	1	4	1	2
4. Goa Shipyard Ltd.	2015-16	16	4	11	12
	2014-15	2	2	7	2
	2013-14	3	-	2	4
	2012-13	2	-	-	3
5. Hindustan Shipyard Ltd.	2015-16	6	1	5	6
	2014-15	3	-	-	4
	2013-14	3	-	1	3
	2012-13	2	-	-	5
6. Hooghly Dock & Port Engineers Ltd.	2015-16	-	-	-	-
	2014-15	4	-	4	-
	2013-14	4	-	4	-
	2012-13	4	-	4	-
7. Mazagon Dock Ltd.	2015-16	-	1	-	-
	2014-15	-	-	-	-
	2013-14	3	3	1	-
	2012-13	-	3	-	-
8. Shalimar Works Ltd. ***	2015-16	-	-	5	2
	2014-15	-	-	5	2
	2013-14	2	-	5	2
	2012-13	1	-	5	4
B. PRIVATE SECTOR					
9. Dempo Shipbuilding & Engineering Ltd.	2015-16	-	-	1	-
	2014-15	-	-	-	-
	2013-14	-	-	-	1
	2012-13	3	-	-	-
10. ABG Shipyard Ltd.	2015-16	62	-	-	1
	2014-15	-	-	-	-
	2013-14	-	-	-	-
	2012-13	-	-	-	-
11. Bharati Defence & Infrastructure Ltd.\$	2015-16	-	3	36	8
	2014-15	-	4	39	9
	2013-14	-	-	39	7
	2012-13	12	4	43	9

Table No.

No. Of Ships - By Keel Laid, Launched And Ships Under Construction, Company-wise (2012-13 to 2015-16)

Name of The Company	Year	No. of Ships			
		Keel-laid	Launched	Under Construction at Berth	Under Fitting at Jetty Quay
(1)	(2)	(3)	(4)	(5)	(6)
12. Chowgule & Co. Ltd.	2015-16	-	-	-	-
	2014-15	2	4	6	-
	2013-14	7	2	5	-
	2012-13	1	-	-	1
13. Ferromar Shipping Pvt. Ltd. @ ***	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
	2012-13	1	-	-	-
14. Vedanta Ltd. #	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
	2012-13	-	-	-	-
15. A. C. Roy & Comp. Ltd. ***	2015-16	6	-	-	6
	2014-15	6	-	-	6
	2013-14	3	-	-	3
	2012-13	1	-	-	1
16. Bristol Boats	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
	2012-13	-	-	3	-
17. Tebma Shipyard Ltd. ***	2015-16	2	1	1	-
	2014-15	2	1	1	-
	2013-14	2	2	2	-
	2012-13	7	2	8	-
18. Larsen & Toubro Limited ***	2015-16	4	3	4	3
	2014-15	4	3	4	3
	2013-14	6	-	-	2
	2012-13	4	-	-	-
19. N N Shipbuilders and Engineers Pvt Ltd *	2015-16	...	...	4	...
	2014-15	...	...	4	...
	2013-14	...	...	4	...
	2012-13	...	...	4	...
20. Pipavav ***	2015-16	-	-	-	-
	2014-15	-	-	-	-
	2013-14	-	-	-	-
	2012-13	-	-	-	-
21. Modest Infrastructure Pvt. Ltd.	2015-16	-	1	-	1
	2014-15	2	1	1	4
22. Chidambaranar Shipcare Pvt. Ltd. ***	2015-16	..	..	..	..
	2014-15	..	..	..	..
23. Sembmarine Kakinada Ltd.	2015-16	-	-	-	-
	2014-15	-	-	-	-
Total	2015-16	105	20	72	47
	2014-15	36	20	78	36
	2013-14	44	13	69	27
	2012-13	62	16	73	31

@ Empreiteiros Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

Formerly Sesa Sterlite Ltd./ Sesa Goa Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

\$ Formerly Bharati Shipyard Ltd.

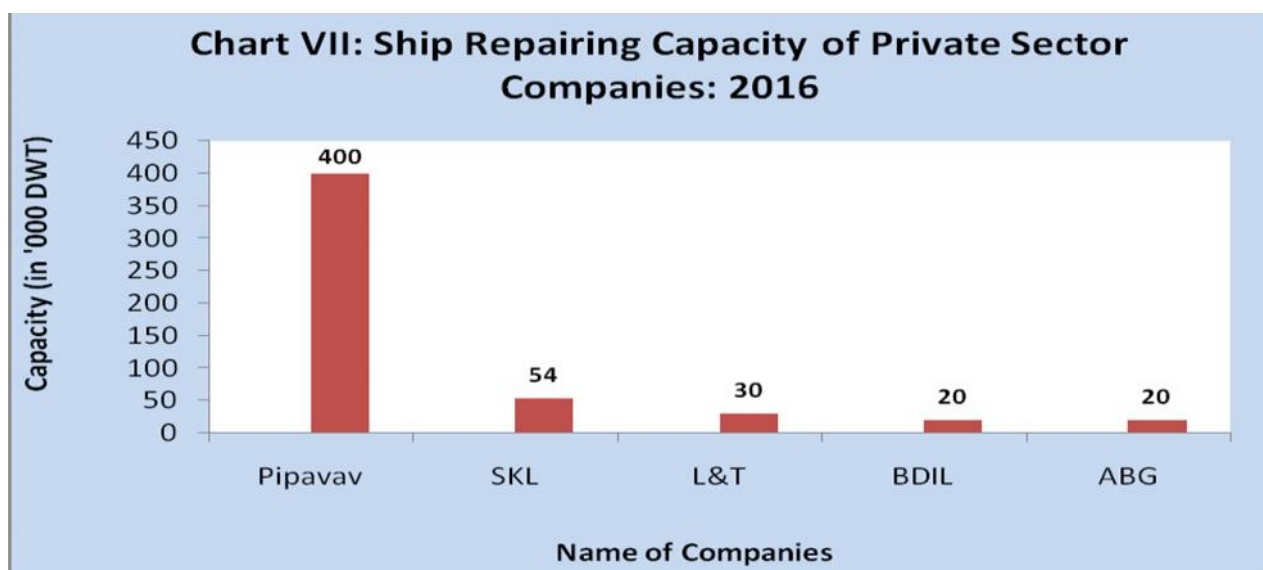
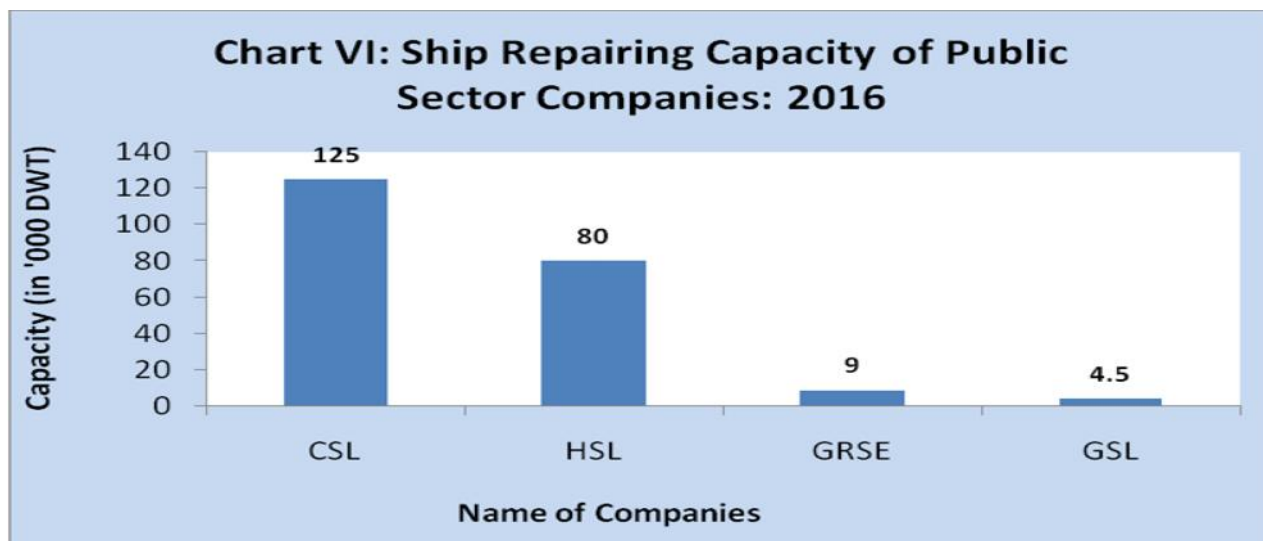
Section-2

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.

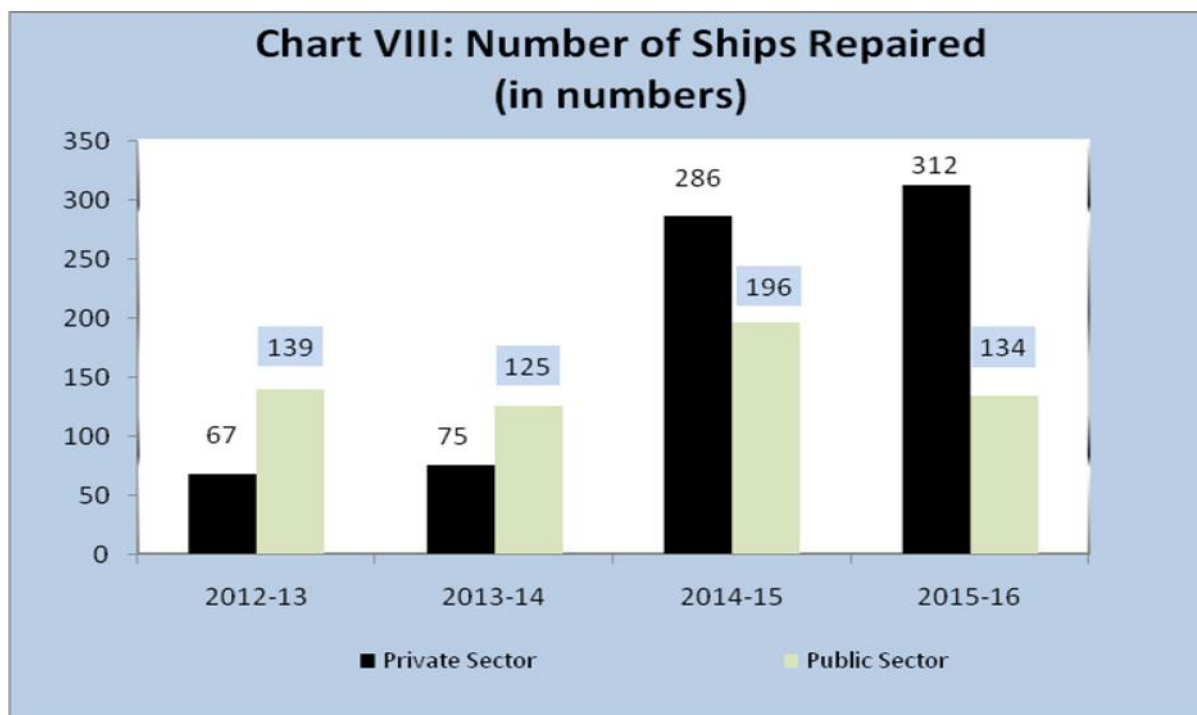
2.2. Amongst public sector companies, Cochin Shipyard Ltd had the highest capacity for ship repairing (125 thousand DWT/ Ship) followed by Hindustan Shipyard Ltd. (80 thousand DWT/ Ship) and Garden Reach Shipbuilders and Engineers Ltd (9 thousand DWT/ Ship) in 2015-16. In private sector category Pipavav* had the highest capacity for ship repairing (400 thousand DWT/ Ship) followed by Sembmarine Kakinada Ltd (54 thousand DWT/ Ship) and Larsen & Toubro Ltd.* (30 thousand DWT/ Ship) whereas Bharati Defence & Infrastructure Ltd. & ABG Shipyard Ltd. had (20 thousand DWT/ Ship each) ship-repairing capacities. Charts VI & VII depict the ship repairing capacity of major public and private sector shipbuilding yards as on 31st March 2016.



* No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

NUMBER OF SHIPS REPAIRED

2.3. In 2015-16 total 446 ships were repaired, by private (312 ships) and public (134 ships) sector shipyards against 482 in 2014-15. 67 Vessels out of 446 ships repaired by Indian shipyards were foreign vessels. Chart–VIII given below depicts comparative picture of the number of ships repaired by all public and private sector shipbuilding yards during 2012-13 to 2015-16.



2.4. In 2015-16 amongst the Public sector, Cochin Shipyard Ltd had repaired the highest number of ships (89 ships with earning of Rs. 355.52 crore) followed by Goa Shipyard Ltd. (26 ships with earning Rs 170.95 crore). In the private sector, Chidambaranar Shipcare Ltd. had the highest number of ships repaired (155 ships with earning Rs 14.06 crore) followed by Dempo Shipbuilding & Engg. Ltd. (73 ships with earning Rs 12.19 crore), Larsen & Toubro Ltd.* (31 ships with earnings Rs. 44.82 crore) and Sembmarine Kakinada Ltd. (26 ships repaired with an earning of Rs 71.05 crore).

* No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

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 2014-15 and 2015-16.

Table No. 5 : Number of Ships Repaired and Earnings												
Name of The Company	2014-15						2015-16					
	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)	195	31544.20	1	2779.54	196	34323.74	122	61182.16	12	6635.54	134	67817.70
1. Alcock Ashdown & Co. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
2. Cochin Shipyard Ltd.	158	19595	-	-	158	19595	89	35552.00	-	-	89	35552.00
3. Garden Reach Ship-Builders & Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
4. Goa Shipyard Ltd.	19	7616.69	-	2679.70	19	10296.39	14	10459.43	12	6635.54	26	17094.97
5. Hindustan Shipyard Ltd.	15	4204.67	1	99.84	16	4304.51	16	15042.89	-	-	16	15042.89
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
8. Shalimar Works Ltd.*	3	127.84	-	-	3	127.84	3	127.84	-	-	3	127.84
B. PRIVATE SECTOR (Total)	231	13344.85	55	2761.87	286	16106.72	257	13668.97	55	2422.87	312	16091.84
9. Dempo Ship – building & Engg. Ltd.	21	803.00	-	-	21	803.00	73	1218.62	-	-	73	1218.62
10.ABG Shipyard Ltd.	...	1864.00	-	-	...	1864.00	...	700.50	-	-	...	700.50
11.Bharati Defence & Infrastructure Ltd.	-	623.47	-	-	-	623.47	-	1019.92	-	-	-	1019.92
12. Vedanta Ltd.	20	963.52	-	-	-	-	-	-	-	-	-	-
13. A.C.Roy & Co. Ltd.*	26	155	-	-	26	155.00	26	155	-	-	26	155.00
14. Bristol Boats	1	3.70	-	-	1	3.70	1	4.75	-	-	1	4.75
15. Ferromar Shipping Pvt. Ltd*	-	...	...	...	-	-	-	...	...	...	-	-
16. Larsen & Toubro Limited*	23	3149.44	8	1332.57	31	4482.01	23	3149.44	8	1332.57	31	4482.01
17. Modest Infrastructure Pvt. Ltd.	1	48.92	-	-	1	48.92	-	-	-	-	-	-
18. Chidambaranar Shipcare Pvt. Ltd*	115	1201.37	40	205.03	155	1406.40	115	1201.37	40	205.03	155	1406.40
19. Sembmarine Kakinada Ltd.	24	4532.43	7	1224.27	31	5756.70	19	6219.37	7	885.27	26	7104.64
Grand Total (A + B)	426	44889.05	56	5541.41	482	50430.46	379	74851.13	67	9058.41	446	83909.54

Note S : No. of Ships ; E : Earnings in Rs. Lakh; * No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

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 (2.5, 2.6 & 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, Cochin, 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 six cranes followed by Mumbai port (2 in numbers).

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, 2016)**

Name of the company	Type of Vessels/ Ships	Ship repair capacity/Maximum size capacity			
		Length (Mts.)	Width (Mts.)	Draft (Mts)	DWT (’000)
2	3	4	5	6	7
<u>PUBLIC SECTOR</u>					
Alcock Ashdown (Gujarat) Ltd. ^a	-	-	-	-	-
Cochin Shipyard Ltd.	Depends on the size of vessels and scope of work undertaken	270.0	40.0	7.0	125.0
Garden Reach Shipbuilders and Engineers Ltd.	All types of diesel propulsion vessels	120.0	17.0	5.0	9.0
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	120.0	20.0	5.0	4.5
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
Hooghly Dock & Port Engineer Ltd.	Indian Coast Guard Inland Vessel Tanker/Cargo	45.0 65.0 65.0	12.0 12.5 12.3	4.0 4.0 4.0	- - -
Mazagon Dock Ltd.	Presently MDL is not carrying out any ship-repairing work.				
Shalimar Works Ltd. ^{***}	Survey Vessels Tug/Launch	55.0 10.0	11.0 4.0	3.0 1.5	0.70 0.50
<u>PRIVATE SECTOR (Contd.)</u>					
Dempo Shipbuilding and Engineering Ltd.	a) MBC/Barges/Hopper Barges/ Crane Barges/ Pantoons/ Tankers b) Pilot Launches c) Tugs	85.0 - 85.0	16.0 - 16.0	2.2 2.2 2.2	- - -
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
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
Chowgule & Company Ltd. ^{**}	-	-	-	-	-
Ferromar Shipping Pvt. Ltd. ^{@ ***}	Barges & Other vessels for Goa operations	70.0	13.0	12.0	2.0

Table No. 2.1 (Contd.)**Ship Repairing Capacity Of The Company
(As on 31st March, 2016)**

Name of the company	Type of Vessels/ Ships	Ship repair capacity/Maximum size capacity			
		Length (Mts.)	Width (Mts.)	Draft (Mts)	DWT (*000)
2	3	4	5	6	7
A.C. Roy & Co. Ltd. ***	a) launch	25.0	7.0	2.0	0.03
	b) barge	60.0	16.0	3.5	2.00
	c)Tug	20.0	6.0	2.0	0.03
Bristol Boats	Various FRP crafts, life Boats and Rescue Boats 10 to 20 Nos.	20.0	5.0	4.0	0.05
Larsen & Toubro Limited ***	a)Offshore: PSV, DSV, AHTs	80.00	18.00	6.00	3.50
	b) Chemical Tankers	200.00	30.00	15.00	30.00
	c) LPG Tankers	180.00	30.00	15.00	25.00
	d) Offshore & Subsea construction vessels	160.00	27.00	9.50	18.00
	e) Dredgers CSD/TSHD	105.00	19.00	5.00	6.00
	f) Rivers sea Vessels-RSV	160.00	27.00	8.00	15.00
Vedanta Ltd. #	All types of vessels.	80.0	15.0	9.1	-
Tebma Shipyard Ltd. ***		...	...	...	...
N N Shipbuilders and Engineers	a) Tugs/Pomntoons	30.0	10.0	2.3	-
Pvt Ltd ***	b) Small Ship	-	12.0	2.0	-
	c) Barges	30.0	-	2.3	-
Pipavav ***	Cargo Ships, Naval Vessels & Submarines Offshore vessels Rigs Platforms and others i.e. Derdgers, Passengers vessels etc	350.0	63.0	-	400.0
Modest Infrastructure Pvt. Ltd.	a) General Cargo	99.0	18.0	4.5	6.0
	b) Tug	33.0	11.5	4.1	Bollard Pull - 65 T
	c) Survey Vessel	42.2	8.5	4.0	-
	d) OSV	59.2	15.0	2.5	-
	e) Cement Carrier	97.0	17.0	4.2	4.0
	f) Product Tanker	75.0	13.0	5.6	3.3
	g) Dry Bulk Carrier	82.0	14.0	4.2	4.2
	h) Container Carrier	67.2	12.8	3.2	94 TEU
Chidambaranar Shipcare Pvt. Ltd. ***	...	...	....	...	...
Sembmarine Kakinada Ltd.	All types of vessels with a docking displacement of Max. 15000 T	200.0	32.2	6.5	54.0
				(Docking Draft)	

Chowgule & Co. Ltd. Did not undertake repairs

Empreiteiros Gerais Pvt. Ltd. was merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

Formerly Sesa Sterlite Ltd./Sesa Goa Ltd.

Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 2.2**Ship Repairing Capacity-By Company and Maximum Size (2013-2016)**

('000 DWT)

Name of The Company	As on end 31st March			
	2013	2014	2015	2016
1	2	3	4	5
A. PUBLIC SECTOR				
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	9.0
4. Goa Shipyard Ltd.	4.5	4.5	10.0	4.5
5. Hindustan Shipyard Ltd.	70.0	80.0	80.0	80.0
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-
8. Shalimar Works Ltd. ***	0.7	0.7	0.7	0.7
B. PRIVATE SECTOR				
9. Dempo Shipbuilding & Engineering Ltd.	5.5	5.5	-	-
10. ABG Shipyard Ltd.	20.0	20.0	20.0	20.0
11. Bharati Defence & Infrastructure Ltd.	20.0	20.0	20.0	20.0
12. Chowgule & Co. Ltd.	-	-	-	-
13. Ferromar Shipping Pvt. Ltd. @ ***	3.0	3.0	2.0	2.0
14. Vedanta Ltd. *	...	...	...	...
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. Larsen & Toubro Limited ***	...	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
22. Chidambaranar Shipcare Pvt. Ltd. ***	-	-	-	-
23. Sembmarine Kakinada Ltd.	-	-	54.0	54.0

@ Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

No ship repairing is undertaken

* Formerly Sesa Sterlite/Sesa Goa Ltd.* Formerly Sesa Sterlite/Sesa Goa Ltd.

\$ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 2.3

Ship Repairing Facilities-Company-Wise for Dry Docks and Wet Docks (As on 31st March, 2016)

Sl. No.	Name of Company	Dry Dock Owned					Wet Docks/Basin Owned					
		Capacity					Capacity					
		No.	Length (M)	Width (M)	Draft (M)	DWT ('000)	No.	Length (M)	Width (M)	Draft (M)	DWT ('000)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
A. PUBLIC SECTOR												
1	Alcock Ashdown (Gujarat) Ltd. ^a	-	-	-	-	-	-	-	-	-	-	-
2	Cochin Shipyard Ltd.	1	270.0	45.0	12.0	125.0	-	-	-	-	-	-
		1	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	-
10	ABG Shipyard Ltd.	1	155.0	30.0	7.5	20.0	-	-	-	-	-	-
		1	125.0	22.5	5.6	15.0	-	-	-	-	-	-
		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	4.5	-	-	-	-	-	-
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	Larsen & Toubro Limited ^{***}	6	210.0	open	-	-	4	260.0	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	3.0	3.5	-	-	-	-	-	-
			120.0	21.0	4.5	6.0	-	-	-	-	-	-
22	Chidambaranar 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

a. Not carrying out any repairing work.

Formerly Sesa Sterlite Ltd/ Sesa Goa Ltd.

@ Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

\$ Formerly Bharati Shipyard Ltd.

^{***} No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 2.3a

**Ship Repairing Facilities-Company-Wise
(As On 31st March, 2016)**

Sl. No.	Name of Company	Other repairing facilities					
		Item	No.	Capacity			
				Length (M)	Width (M)	Draft (M)	DWT ('000)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
A. PUBLIC SECTOR							
1	Alcock Ashdown (Gujarat) Ltd. ^a	-	-	-	-	-	-
2	Cochin Shipyard Ltd.	Slave Dock	1	86.0	18.0	27.0	8.0
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	6.5	-
		River Jetty-Dolphin 2	1	10.0	5.0	6.5	-
		River Jetty-West Jetty	1	75.0	8.0	6.0	-
		River Jetty-East Jetty	1	33.0	8.0	6.0	-
4	Goa Shipyard Ltd.	New Construction					
		Bay No. 1	1	216.0	26.0	16.4	-
		New Construction					
		Bay No. 2	1	143.5	20.4	9.2	-
		New Construction					
		Bay No. 3	1	96.5	26.0	14.1	-
		New Berth-1	1	130.0	29.5	-	-
		New Berth-2	1	130.0	30.0	-	-
		Shiplift	1	120.0	25.0	-	6.0
		New Jetty	1	250.0	16.0	5.5	-
	Slipway -4	1	119.0	22.0	4.0	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	-	-	-
7	Mazagaon Dock Ltd. ^b			Ship Repair facilities closed.			
8	Shalimar Works Ltd. ^{***}	Kuccha Besin	2	-	-	-	-
		Fitting out jetty	1	-	-	-	-
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. @ ^{***}	-	-	-	-	-	-

Table No. 2.3a(Contd...)

**Ship Repairing Facilities-Company-Wise
(As On 31st March, 2016)**

Sl. No.	Name of Company	Other repairing facilities					
		Item	No.	Capacity			
				Length (M)	Width (M)	Depth (M)	DWT ('000)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
14	Vedanta Ltd. #	-	-	-	-	-	-
15	A.C. Roy & Company Ltd. ***	-	-	-	-	-	-
16	Bristol Boats	-	-	-	-	-	-
17	Tebma Shipyard Ltd. ***	-	-	-	-	-	-
18	Larsen & Toubro Limited ***	Shiplift platform	1	210.0	43.0	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	Chidambaranar 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					

a. Alcock Ashdown (Gujarat) Ltd. do not undertake repair work.

b. Ship repairing facility closed.

@ Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

Formerly Sesa Sterlite Ltd/ Sesa Goa Ltd.

\$ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 2.4

**No. Of Ships Repaired And Earnings, Company-wise -
(2012-13 to 2015-16)**

(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)
A. PUBLIC SECTOR (Total)	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
	2012-13	118	82489.14	21	14173.15	139	96662.29
1. Alcock Ashdown (Gujarat) Ltd.	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
	2012-13	-	-	-	-	0	0.00
2. Cochin Shipyard Ltd.	2015-16	89	35552.00	-	-	89	35552.00
	2014-15	158	19595.00	-	-	158	19595.00
	2013-14	73	22788.41	-	-	73	22788.41
	2012-13	77	28656.83	-	-	77	28656.83
3. Garden Reach Ship-builders and Engineers Ltd.	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
	2012-13	-	-	-	-	0	0.00
4. Goa Shipyard Ltd.	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
	2012-13	33	8863.67	-	34.15	33	8897.82
5. Hindustan Shipyard Ltd.	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
	2012-13	3	966.00	21	14139.00	24	15105.00
6. Hooghly Dock & Port Engineers Ltd.	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
	2012-13	-	-	-	-	0	0.00
7. Mazagon Dock Ltd.	2015-16	-	-	-	-	0	0.00
	2014-15	-	-	-	-	0	0.00
	2013-14	-	-	-	-	0	0.00
	2012-13	2	43946.66	-	-	2	43946.66
8. Shalimar Works Ltd. ***	2015-16	3	127.84	-	-	3	127.84
	2014-15	3	127.84	-	-	3	127.84
	2013-14	3	155.02	-	-	3	155.02
	2012-13	3	55.98	-	-	3	55.98

**Table No. 2.4
(Contd...)**

**No. Of Ships Repaired And Earnings, Company-wise -
(2012-13 to 2015-16)**

(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)
B. PRIVATE SECTOR (Total)	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	2739.57
	2012-13	67	9958.55	0	0.00	67	9958.55
9. Dempo Shipbuilding & Engg. Ltd.	2015-16	73	1218.62	-	-	73	1218.62
	2014-15	21	803.00	-	-	21	803.00
	2013-14	29	804.00	-	-	29	804.00
	2012-13	24	446.58	-	-	24	446.58
10. ABG Shipyards Ltd.	2015-16	-	700.50	-	-	0	700.50
	2014-15	-	1864.00	-	-	0	1864.00
	2013-14	-	1111.00	-	-	0	1111.00
	2012-13	-	8683.00	-	-	0	8683.00
11. Bharati Defence & Infrastructure Ltd. ^	2015-16	-	1019.92	-	-	0	1019.92
	2014-15	-	623.47	-	-	0	623.47
	2013-14	-	633.96	-	-	0	633.96
	2012-13#	-	58.50	-	-	0	58.50
12. Ferromar Shipping Pvt. Ltd. ® ***	2015-16	...	...	...	...	0	0.00
	2014-15	...	...	...	...	0	0.00
	2013-14	...	...	...	...	0	0.00
	2012-13	...	...	...	...	0	0.00
13. Vedanta Ltd. ##	2015-16	-	-	-	-	0	0.00
	2014-15	20	963.52	-	-	20	963.52
	2013-14	-	-	-	-	0	-
	2012-13	13	538.68	-	-	13	538.68
14. 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
	2012-13	29	220.84	-	-	29	220.84
15. 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
	2012-13	1	10.95	-	-	1	10.95

**Table No. 2.4
(Contd...)**

**No. Of Ships Repaired And Earnings, Company-wise -
(2012-13 to 2015-16)**

(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)
16. Larsen & Toubro Limited ***	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
	2012-13	...	...	...	...	0	0.00
17. Modest Infrastructure Pvt. Ltd.	2015-16	-	-	-	-	0	0.00
	2014-15	1	48.92	-	-	1	48.92
18. Chidambaranar 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
19. 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
C. Grand Total (A + B)	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	38331.32
	2012-13	185	92447.69	21	14173.15	206	106620.84

* Not carried out any ship-repairing work.

@ Empreiteiros Gerais Pvt. Ltd merged with Ferromal Shipping Pvt. Ltd w.e.f. 16.4.2010.

Ship Repairs for the period 2012-13 amounted to Rs. 14 crores has not been taken into a/c due to some technical reasons.

Formerly Sesa Sterlite Ltd/ Sesa Goa Ltd.

** The bifurcation of earnings from repairing of Indian and Foreign Vessels is not available and as such only Total amount is shown

\$\$ earnings of Larsen & Toubro Limited included in the total only as break-up by vessels is not available

^ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 2.5**Dry Dock & Ship Repairing Facilities at Major Ports 2015-16**

Name of Ports	No. of Dry Docks and their Size	No. of Work-shops	No. of Cranes & Capacity	No. of Vessels Repaired during 2015-16	No. of days at Dry Dock Occupancy during 2014-15
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		
Mumbai	<u>One</u> Length : 1000 ft. Breadth : 102 ft. Depth : 44 ft.	-	<u>Two</u> 1-20 T 1-5 T	58	300
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				
Visakhapatnam	<u>One</u> Length : 140.2 mtrs. Breadth : 18.2 mtrs. Depth : 5.6 mtrs.	0	<u>One</u> 4 T	16	
Paradip	<u>One</u> Length : 75 mtrs. Breadth : 15 mts. Depth : 6 mts.	1	<u>One</u> 3/10 T	15	

Dry Dock and Ship Repairing Facilities at Major Ports 2015-16

**Table No. 2.5
(Contd...)**

Name of Ports	No. of Dry Docks and their size		No. of Work-shops	No. of Cranes & Capacity	No. of Vessels Repaired during 2014-15	No. of Days at Dry Dock Occupancy during 2014-15
1	2		3	4	5	6
Kolkata	Dry Dock	Maximum Size of vessels (in meters)	---	<u>Six</u>	19	975
	Netaji Subhash No.1 & 2	172.21 x 22.86		1 No. 25T, 2 No. 3/6T, 1 No. 3T		
	Kidderpore No.1	160.02 x 19.5		1 No. 5T		
	Kidderpore No.2	142.95 x 19.5		1 No. 7T		
	Kidderpore No.3	102.1 x 14.63				

* The Dry Dock is not in use due to major structural damages which are beyond economical repair.

Source: All Major Ports.

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	<u>Rate per vessel</u>					
	<u>Craft up to 30 mtrs.</u>		<u>Craft between 30 to 60 mtrs.</u>		<u>Craft above 60 mtrs.</u>	
<u>Particulars</u>	<u>Coastal vessel (in Rs.)</u>	<u>Foreign-going vessel (in US \$)</u>	<u>Coastal vessel (in Rs.)</u>	<u>Foreign-going vessel (in US \$)</u>	<u>Coastal vessel (in Rs.)</u>	<u>Foreign-going vessel (in US \$)</u>
Docking & undocking the vessel including 1 st day hire and cleaning of dry dock	61359.90	2481.96	73557.00	2975.61	85817.19	3471.58
Dry dock hire from 2 nd day to 8 day (both days inclusive) per day or part thereof	21693.06	877.55	26032.93	1053.11	30372.81	1228.68
Dry dock hire from 9 th day to 20 th day (both days inclusive) per day or part thereof	32541.28	1316.39	39048.36	1579.63	45557.11	1842.93
Dry dock hire from 21 st day or part thereof	52426.78	2120.83	62912.42	2545.00	73397.11	2969.15
Mormugao	National Charges				The WISL Dry Dock is for Captive use & it does not give the same on hire	
	International Charges					
Paradip	Dry Dock Hire Charges for different sizes of vessels					
	National Charges			Rs. 23000/-		
	International Charges					

**Table No. 2.6
(Contd...)**

Dry Dock Hire Charges Existing at Major Ports

Name of Ports	Dry Dock Hire Charges for different sizes of vessels																			
1	2																			
Mumbai	I. Charges for Docking and Undocking:																			
		Foreign Going Vessels (in US \$)		Coastal Vessels (in 'Rs.)																
	Upto 1000 GRT	4858.50		102244/-																
	1001 to 2000 GRT	6308.30		125614/-																
	2001 to 3000 GRT	7481.50		148984/-																
	3001 to 4000 GRT	8654.80		172354/-																
	4001 to 5000 GRT	9828.00		195724/-																
Above 5000 GRT	US \$ 9828.00 + US \$1110.10 for every additional 1000 GRT or part thereof		'Rs.195724/- + ' Rs. 23370/- for every additional 1000 GRT or part thereof																	
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	<table border="1"> <thead> <tr> <th data-bbox="440 936 810 1025">Nature of service</th> <th data-bbox="815 936 1010 1025">1st day to 14th day</th> <th data-bbox="1015 936 1230 1025">15th day to 30th day</th> <th data-bbox="1235 936 1487 1025">31st day onwards</th> </tr> </thead> <tbody> <tr> <td data-bbox="440 1025 810 1115">National charges</td> <td data-bbox="815 1025 1010 1115">Rs. 27,967/-</td> <td data-bbox="1015 1025 1230 1115">Rs. 41,937/-</td> <td data-bbox="1235 1025 1487 1115">Rs. 55,934/-</td> </tr> <tr> <td data-bbox="440 1115 810 1160">International Charges</td> <td data-bbox="815 1115 1010 1160">US \$ 995.13</td> <td data-bbox="1015 1115 1230 1160">US \$ 1492.21</td> <td data-bbox="1235 1115 1487 1160">US \$1990.25</td> </tr> </tbody> </table>				Nature of service	1 st day to 14 th day	15 th day to 30 th day	31 st day onwards	National charges	Rs. 27,967/-	Rs. 41,937/-	Rs. 55,934/-	International Charges	US \$ 995.13	US \$ 1492.21	US \$1990.25				
	Nature of service	1 st day to 14 th day	15 th day to 30 th day	31 st day onwards																
	National charges	Rs. 27,967/-	Rs. 41,937/-	Rs. 55,934/-																
	International Charges	US \$ 995.13	US \$ 1492.21	US \$1990.25																
	<table border="1"> <thead> <tr> <th data-bbox="440 1191 692 1236">Type of vessel</th> <th colspan="3" data-bbox="697 1191 1487 1236">Length of vessel</th> </tr> <tr> <td data-bbox="440 1236 692 1281"></td> <td data-bbox="697 1236 946 1281">50 mtrs. Or less</td> <td data-bbox="951 1236 1200 1281">50 to 100 mtrs.</td> <td data-bbox="1204 1236 1487 1281">Above 100 mts.</td> </tr> </thead> <tbody> <tr> <td data-bbox="440 1281 692 1370">Flat bottom vessel</td> <td data-bbox="697 1281 946 1370">Rs. 70,000/-</td> <td data-bbox="951 1281 1200 1370">Rs. 87,500/-</td> <td data-bbox="1204 1281 1487 1370">Rs. 1,05,000/-</td> </tr> <tr> <td data-bbox="440 1370 692 1503">Shaped vessels such as coast guard/navy</td> <td data-bbox="697 1370 946 1503">Rs. 1,20,000/-</td> <td data-bbox="951 1370 1200 1503">Rs. 1,60,000/-</td> <td data-bbox="1204 1370 1487 1503">Rs. 2,00,000/-</td> </tr> </tbody> </table>				Type of vessel	Length of vessel				50 mtrs. Or less	50 to 100 mtrs.	Above 100 mts.	Flat bottom vessel	Rs. 70,000/-	Rs. 87,500/-	Rs. 1,05,000/-	Shaped vessels such as coast guard/navy	Rs. 1,20,000/-	Rs. 1,60,000/-	Rs. 2,00,000/-
	Type of vessel	Length of vessel																		
		50 mtrs. Or less	50 to 100 mtrs.	Above 100 mts.																
	Flat bottom vessel	Rs. 70,000/-	Rs. 87,500/-	Rs. 1,05,000/-																
	Shaped vessels such as coast guard/navy	Rs. 1,20,000/-	Rs. 1,60,000/-	Rs. 2,00,000/-																
	Composite docking and un-docking charges US\$ 2117.95 per foreign going vessel and Rs. 59523/- per coastal vessel. In case of 2 nd docking, a rate of US \$ 767.22 per foreign going vessel and Rs. 21,562/- per coastal vessel will be levied.																			

**Table No. 2.6
(Contd...)**

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 vessels US \$	Coastal Vessels Rupees	Foreign going vessels US \$	Coastal Vessels Rupees	Foreign going vessel US \$	Coastal Vessels Rupees
	Upto 1000 GRT	1200	26400	1080	25200	1080	24000
	1001 to 2000	1320	28800	1200	27600	1080	25800
	2001 to 3000	1440	31200	1320	30000	1080	26400
	3001 to 4000	1560	36000	1440	33600	1080	27000
	4001 to 5000	1680	40800	1560	37200	1080	27600
	5001 to 10000	1920	45600	1680	42000	1080	28800
	10001 & above	2160	50400	1800	46800	1080	30000
	II. From 11 th to 30 th days of occupation: 150% of rates as stated above per day or part thereof.						
	III. Beyond 30 th days of occupation: 200% of rates as stated above per day or part thereof.						
	IV. In case the vessel occupies the dry dock beyond the period for which the dry dock has been allotted, the rental charges for the period of over stay shall be levied at double the rate prescribed.						
	V. 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. A cancellation fee of US dollar 25/ Rs 1000 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.						
V.O. Chidambaranar	Available Port Dry-dock at Zone – B is beyond economical repairs.						

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	<ol style="list-style-type: none"> <li data-bbox="711 387 1402 622">1. Machine shop: Overhead cranes, Horizontal lathes 12m bed, Vertical Turret Lathe, Floor Boring & Milling Machine, Table Boring & Milling Machine, Dynamic Balancing Machine Hydraulic Press- 100t, Grinding Machine, White Metalling Facility, Radial Drilling Machines, Slotting Machines, Power Saws, Other Assorted Lathes. <li data-bbox="711 656 1402 958">2. Plate shop : Overhead Cranes, Plate Rolling Machines, Guillotine Shear, CNC Profile Gas Cutting Machine, Hydraulic Press 400t, MIG/MAG Welding Systems, TIG Welding Machine, Ship Profile Bending Press, Universal Cutting Machine, Universal Scissor, Circulat Saw Flanging Machine, Thyristor Controlled Welding Rectifiers, Semi-Automatic Submerge Arc Welding. <li data-bbox="711 1025 1402 1126">3. Pipe shop: Overhead Cranes, Pipe Bending Machines, Cutting Machines, Welding Machines, TIG Welding System. <li data-bbox="711 1160 1402 1294">4. Electrical workshops : Wire Winding Machine, Motor overhauling, Electrical Furnance, Cabling, Captive Power Plant- 2 x1 MVA Gensets, Power Distribution Panels, Electronic Repair Kits. <li data-bbox="711 1361 1402 1496">5. Hull maintenance: LRS & IRS certified hull structure gauging, Hydro & Grit blasting Facility with state-of-art equipment, Airless Painting to manufacturers standards. <li data-bbox="711 1529 1402 1697">6. Shipright shop : Floating Dry Dock with pedestal crane : 3 x 11 T and 1x 26 T, Mooring Ropes, Grit Blasting Machines, Airless Spray Painting, Staging Material, 50T x 15T Rail Cranes, 250 x 450 Bar HP Washing Machine. <li data-bbox="711 1765 1402 1899">7. Prefab shop: 10T EOT, 15T Rail Crane, Pipes (<25mm), Bulbous Domes, Kort Nozzel, Plate Structures, Flanges, Welding Machine, Gas Cutting Machine, Beveling Machine.

	8. Lifting equipments: Lifting Rail Cranes: - Max. boom – 50m- 50T at 38 mt.- 1 No., Max boom- 70m-15T at 30 mt. -1 No., Mobile Crane- 70t x 40mt. – 1 No., Fork Lift-1.5 t- 1 No.3.0t -2 Nos., 5t-1No., EOT- 10/1t-2 Nos.-25/5t-1No., Cherry Pickers -5 Nos. with 18 mts. Lift.
Mumbai	Nil. Private contractors are deployed by the vessel owners.
Cochin	The Dry Dock has been handed over to M/s Cochin Shipyards Ltd. w.e.f 11.04.2013 for development and operation of International Ship Repair Facility at Willingdon Island.
Visakhapatnam	Machine Shop -1, Fitter Shop-3, Welder Shop- 1, Blacksmith Shop- 1,Rivetter Shop- 1, Carpenter Shed-1
Paradip	1 Overhead crane, capacity: 10 Ton 1 Lathe Machine type- EP3225,Height = 16 inches, Chuck = 24 inch, Bed length = 12 feet 1 Lathe Machine Type-H 26, Height = 10 inches, Chuck = 14 inches, Bed length = 12 feet 1 Bending Machine (3 rollers), Rollers Diameter = 200mm (1 nos.); 180mm (2 nos.) Length = 2 meters 1 Stand Radial Drill Machine , Make : HMT, Machine no. 32358 1 Electric Saw
Kolkata	There is a full-fledged repair workshop including Diesel Engine Overhauling Unit, Structural Shop, Heavy & Light Machine Shop, Forging Shop, Electrical Shop and a Chain Testing/Repair Shop with 2500 KN capacity Tensile Compression Testing Machine for supporting various activities in the dry dock. However, Commercial (Non-KoPT) vessels are repaired by the concerned Dry Docks users by their own arrangement. KoPT- owned vessels are repaired by KoPT-enlisted contractors or by limited/open tendering depending on the scope of work.
V.O.Chidambaranar	The dry dock is not in use, due to structural damages which are beyond economical repair.

Section- 3

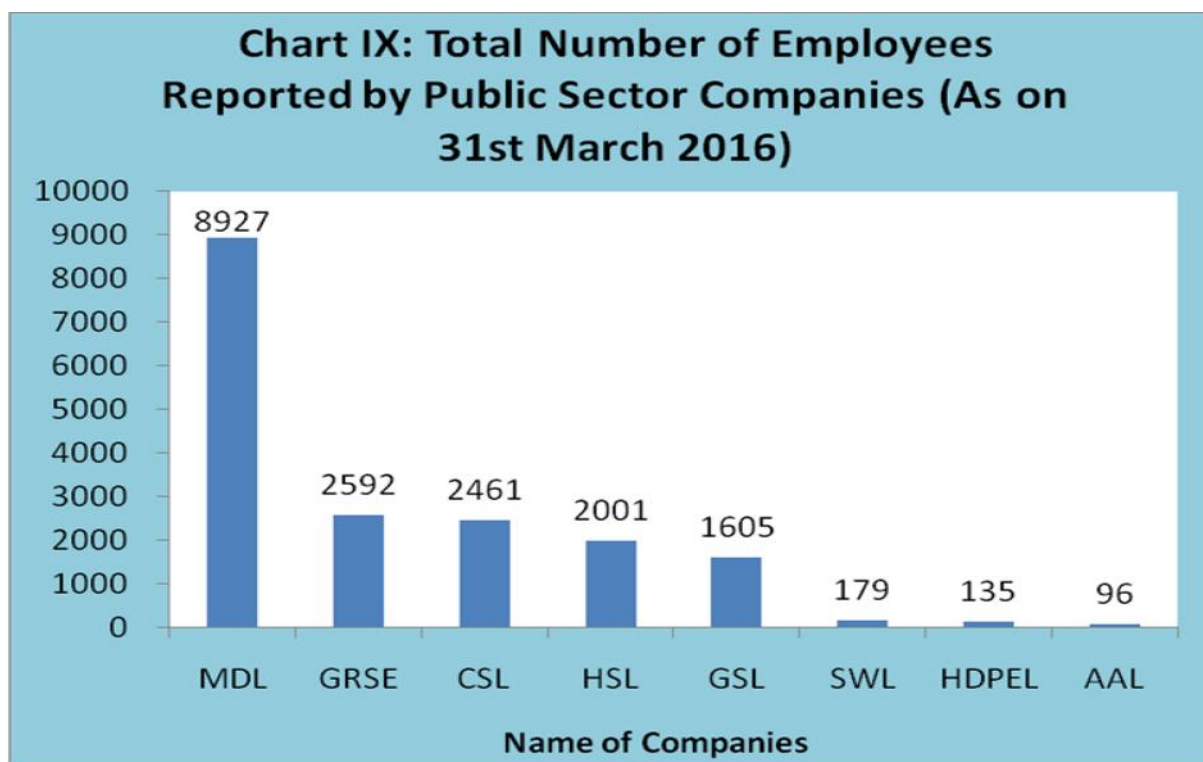
**EMPLOYMENT IN SHIP-BUILDING/SHIP-
REPAIRING INDUSTRY**

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

3.1. The total number of employees under the eight Public Sector Shipyards during 2015-16 was 17996 which included 2628 officers (14.60 % of the total number of employees). The maximum number of employees in the public sector Shipyards as on 31st March 2016 was 8927 in Mazagon Dock Ltd followed by 2589 in Garden Reach Ship Builders and Engineers Ltd and 2461 employees in Cochin Shipyard Ltd.

3.2. The total number of employees in private sector companies were 12486 as on 31st March 2016 of which total number of officers were 2156 (17.27 % of the total number of employees). Pipavav* had the highest number of employees (4930) followed by Larsen & Toubro Ltd. (4126) and Bharti Defence & Infrastructure Ltd. (1090).

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



* No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

3.4. Chart X given below depicts a clear downward employment trend in Ship-building and Ship-repairing industries during the period 2011-12 to 2015-16.

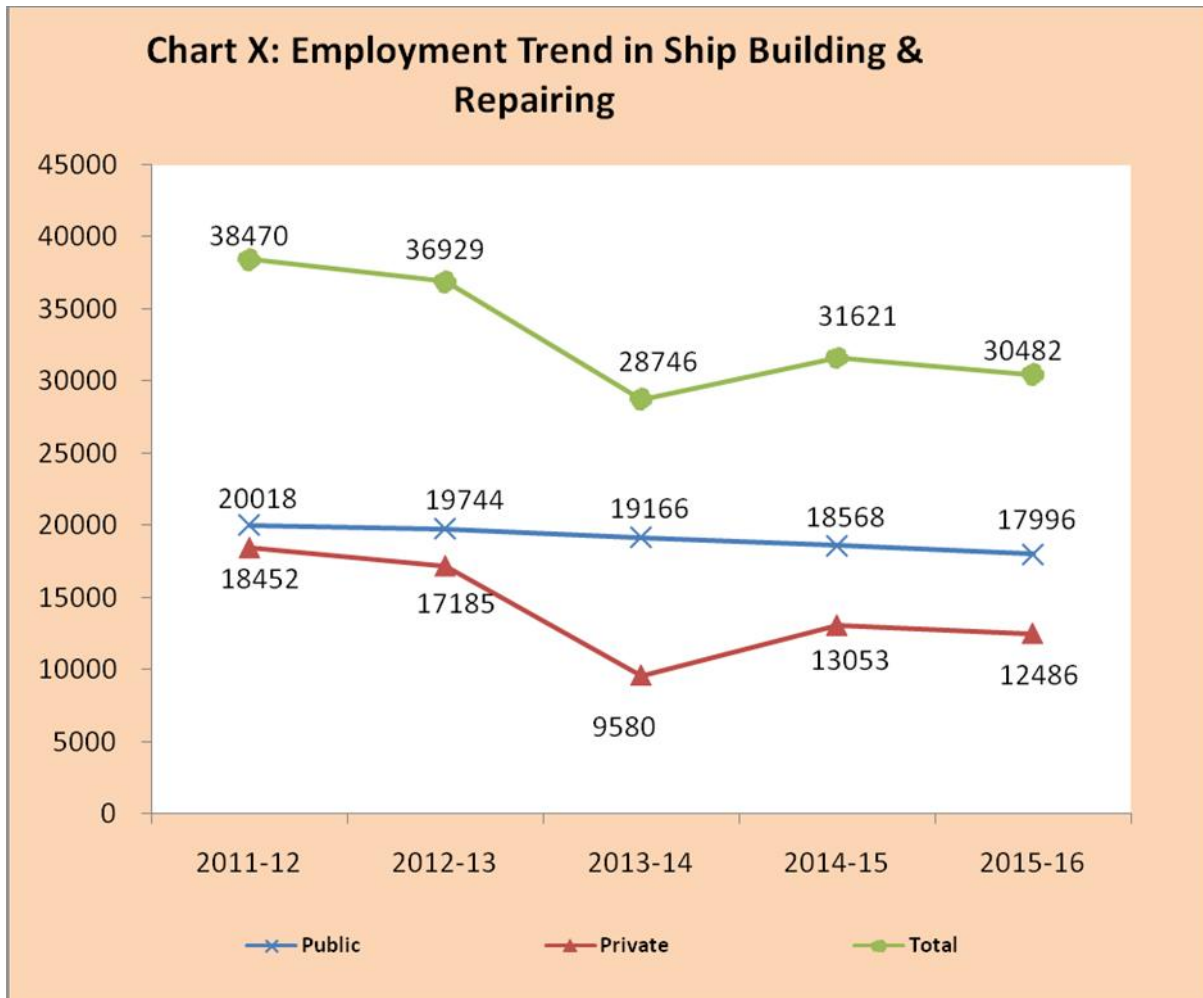


Table No. 3.1

**Employment In Ship-Building/Ship-Repairing Companies
(As On end 31st March, 2016)**

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)	2486	142	716	34	7815	4859	1829	115	12846	5150
1. Alcock Ashdown (Gujarat) Ltd.	32	13	-	-	41	-	7	3	80	16
2. Cochin Shipyard Ltd.	283	65	185	3	1111	722	92	-	1671	790
3. Garden Reach Ship-Builders & Engineers Ltd	496	-	149	3	1354	-	590	-	2589	3
4 Goa Shipyard Ltd.	259	3	96	2	738	138	321	48	1414	191
5. Hindustan Shipyard Ltd.	374	29	283	20	707	403	185	-	1549	452
6. Hooghly Dock & Port Engineers Ltd.	1	15	3	6	26	19	15	50	45	90
7. Mazagon Dock Ltd.	1036	3	-	-	3744	3547	597	-	5377	3550
8. Shalimar Works Ltd. ***	5	14	-	-	94	30	22	14	121	58
B. PRIVATE SECTOR (Total)	2083	73	23	0	2569	4178	548	3012	5223	7263
9. Dempo Shipbuilding & Engg. Ltd.	17	1	19	-	-	196	3	12	39	209
10. ABG Shipyard Ltd.	414	-	-	-	299	-	71	-	784	0
11. Bharati Defence & Infrastructure Ltd.	105	-	-	-	595	-	390	-	1090	0
12. Chowgule & Co. Ltd.	59	-	-	-	11	29	10	-	80	29
13. Ferromar Shipping Pvt. Ltd.^ ***	2	-	-	-	-	-	-	-	2	0
14. Vedanta Ltd.#	10	-	-	-	-	8	-	-	10	8
15. A.C.Roy & Comp. Ltd. ***	30	-	1	-	4	10	13	-	48	10
16. Bristol Boats	4	-	-	-	19	-	1	-	24	0
17. Tebma Shipyard Ltd. ***	106	55	-	-	120	435	9	-	235	490
18. Larsen & Toubro Limited ***	588	17	-	-	21	3500	-	-	609	3517
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.	60	-	-	-	45	-	36	-	141	0
22. Chidambaranar Shipcare Pvt. Ltd. **	27	-	-	-	14	-	3	-	44	0
23. Sembmarine Kakinada Ltd.	16	-	-	-	79	-	-	-	95	0
C. Grand Total (A + B)	4569	215	739	34	10384	9037	2377	3127	18069	12413

@ Includes in indirect workforce in operation.

^ Empreiteiros Gerais Pvt. Ltd. Merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

Formerly Sesa Sterlite/ Sesa Goa Ltd.

\$ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

Table No. 3.2

**Employment Pattern In Ship-Building/
Ship-Repairing Companies - (2012-2016)**

(In numbers)

Name of The Company	Item	As on 31st March				
		2012	2013	2014	2015	2016
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A. PUBLIC SECTOR	A. PUBLIC SECTOR	20018	19744	19166	18568	17996
	Officers	2697	2599	2566	2536	2628
1. Alcock Ashdown (Gujarat) Ltd.	Total	153	132	132	109	96
	Officers	65	56	56	48	45
2. Cochin Shipyard Ltd.	Total	2382	2306	2524	2544	2461
	Officers	322	297	354	318	348
3. Garden Reach Ship-Builders & Engineers L	Total	3796	3491	3133	2834	2592
	Officers	503	501	463	484	496
4. Goa Shipyard Ltd.	Total	1602	1602	1545	1545	1605
	Officers	224	236	234	234	262
5. Hindustan Shipyard Ltd.	Total	3130	2874	2568	2270	2001
	Officers	463	408	374	364	403
6. Hooghly Dock & Port Engineers Ltd.	Total	449	486	447	408	135
	Officers	46	41	38	35	16
7. Mazagon Dock Ltd.	Total	8331	8669	8635	8679	8927
	Officers	1057	1048	1025	1034	1039
8. Shalimar Works Ltd. ***	Total	175	184	182	179	179
	Officers	17	12	22	19	19
B. PRIVATE SECTOR (Total)	Total	18452	17185	9580	13053	12486
	Officers	2863	2782	2278	2329	2156
9. Dempo Shipbuilding & Engg. Ltd.	Total	619	470	110	240	248
	Officers	47	49	47	38	18
10. ABG Shipyard Ltd.	Total	1381	1321	1321	1020	784
	Officers	815	785	785	540	414
11. Bharati Defence & Infrastructure Ltd. §	Total	5510	5510	1303	1124	1090
	Officers	665	665	115	110	105
12. Chowgule & Co. Ltd.	Total	487	144	113	94	109
	Officers	108	117	86	72	59
13. Ferromar Shipping Pvt. Ltd.^ ***	Total	28	5	2	2	2
	Officers	6	3	2	2	2
14. Vedanta Ltd. **	Total	76	60	76	139	18
	Officers	24	20	14	12	10
15. Wadia Boat Builder ***	Total	-	-	-	-	-
	Officers	-	-	-	-	-
16. A.C.Roy & Comp. Ltd. ***	Total	58	58	58	58	58
	Officers	30	30	30	30	30
17. Bristol Boats	Total	35	33	13	12	24
	Officers	10	7	4	3	4
18. Tebma Shipyard Ltd. ***	Total	1083	1083	656	725	725
	Officers	129	129	139	161	161
19. Larsen & Toubro Limited ***	Total	4048	4056	843	4126	4126
	Officers	375	346	363	605	605
20. N N Shipbuilders and Engineers Pvt Ltd **	Total	92	92	92	92	92
	Officers	12	12	12	12	12
21. Pipavav ***	Total	5035	4353	4993	4930	4930
	Officers	642	619	681	633	633
22. Modest Infrastructure Pvt. Ltd. #	Total	-	-	-	352	141
	Officers	-	-	-	68	60
23. Chidambaranar Shipcare Pvt. Ltd. # ***	Total	-	-	-	44	44
	Officers	-	-	-	27	27
24. Sembmarine Kakinada Ltd. #	Total	-	-	-	95	95
	Officers	-	-	-	16	16
C. Grand Total (A + B)	Total	38470	36929	28746	31621	30482
	Officers	5560	5381	4844	4865	4784

^ Empreiteiros Gerais Pvt. Ltd. Merged with Ferromar Shipping Pvt. Ltd.

** Formerly Sesa Sterlite/Sesa Goa Ltd.

Included for the first time

§ Formerly Bharati Shipyard Ltd.

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

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 2015-16 was Rs. 4717.65 crore by Mazagon Dock Ltd followed by Rs. 2109.77 crore by Cochin Shipyard Ltd, Rs. 1881.77 crore by Garden Reach Ship-Builders & Engineers Ltd, Rs. 786.37 crore by Goa Shipyard Ltd. and Rs. 657.08 crore by Hindustan Shipyard Ltd. In terms of profit, the highest profit was earned by Cochin Shipyard Ltd (Rs. 424.08 crore) followed by Mazagon Dock Ltd (Rs. 423.40 crore), Garden Reach Ship-Builders & Engineers Ltd (Rs 247.11 crore), Goa shipyard Ltd (Rs. 61.89 crore), Hoogly Dock & Port Engineers Ltd. (Rs. 41.19 crore) and Hindustan Shipyard Ltd. (Rs 19.00 crore). Loss was incurred by Alcock Ashdown Ltd. (Rs 5.14 crore) and Shalimar Works Ltd*. (17.78 crore).

4.2. In private sector, the highest income earned during 2015-16 amongst the reporting companies was by Pipavav* (Rs. 862.08 crore) followed by Larsen & Toubro Ltd.* (Rs. 592.75 crore), Tebma Shipyard Ltd.* (Rs. 158.51 crore) and Sembmarine Kakinada Ltd. (Rs 104.85 crore). In terms of net profit, the highest profit was earned by A.C. Roy & Co. Ltd.* (Rs. 5.15 crore) followed by N.N. Shipbuilders & Engineers Pvt. Ltd.* (0.75 crore) and Chidambaranar Shipcare Pvt. Ltd.* (Rs. 0.45 crore). Highest Loss was incurred by ABG Shipyard Ltd. (Rs. 3724.09 crore), followed by Bharti Defence & Infrastructure Ltd. (Rs 864.58 crore) and Larsen & Toubro Ltd.* (Rs. 673.46 crore).

* No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

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 2016.

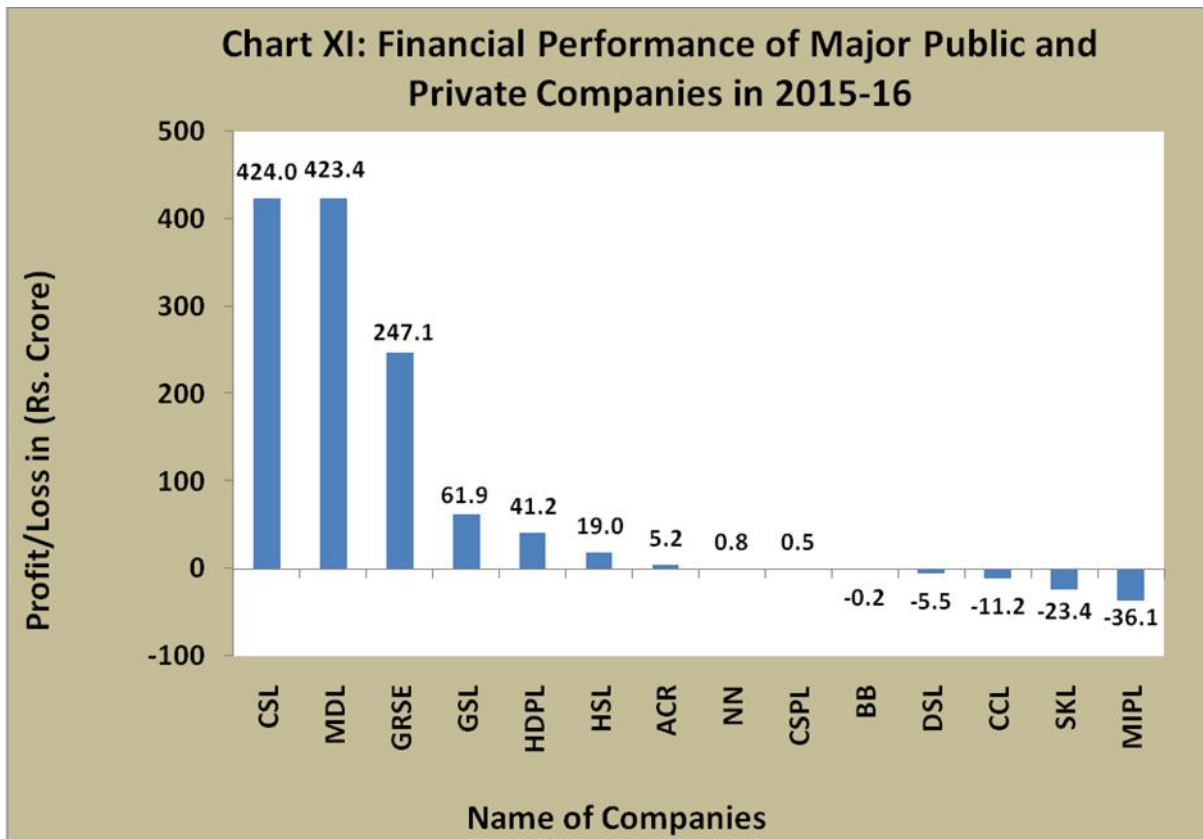


Table No. 4.1

**Financial Performance (Income Earned) : Company - wise
(2012 to 2016)**

(Rs. in lakhs)

Sl. No.	Name of the Company	As on 31st March	Income from			Total Income
			Ship Building	Ship Repairing	Other resources	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A. PUBLIC SECTOR						
1.	Alcock Ashdown (Gujarat) Ltd.	2016	-	-	2668.60	2668.60
		2015	-	-	401.39	401.39
		2014	-	-	495.20	495.20
		2013	10989.00	-	1395.97	12384.97
		2012	-	-	806.87	806.87
2.	Cochin Shipyard Ltd.	2016	162354.92	36749.03	11873.02	210976.97
		2015	164299.24	19595.17	11402.22	195296.63
		2014	140956.46	22788.41	7532.96	171277.83
		2013	126759.37	28656.83	8817.36	164233.56
		2012	125949.23	14535.92	7669.33	148154.48
3.	Garden Reach Ship-Builders & Engineers Ltd.	2016	152401.15	1719.37	34056.19	188176.71
		2015 ©	201089.00	##1682.00	-377560.52	-176471.52
		2014	12435.00	##2385.00	154990.00	167425.00
		2013	23955.00	2098.00	122101.48	148154.48
		2012	30091.00	2458.00	115605.48	148154.48
4.	Goa Shipyard Ltd.	2016	55501.00	17095.00	6041.00	78637.00
		2015 (b)	46659.00	10296.00	11122.00	68077.00
		2014	42167.00	8723.00	4362.00	55252.00
		2013	39241.00	11421.00	5760.00	56422.00
		2012	66156.00	1487.00	4645.00	72288.00
5.	Hindustan Shipyard Ltd.	2016	36636.00	14258.00	14814.00	65708.00
		2015	12866.91	6284.00	13150.00	32300.91
		2014	23914.00	21426.00	6567.00	51907.00
		2013	19608.00	28776.00	7867.00	56251.00
		2012	26228.59	31988.83	2216.28	60433.70
6.	Hooghly Dock & Port Engineers Ltd.	2016	698.78	-	6457.43	7156.21
		2015	295.22	-	4931.53	5226.75
		2014	-	-	25006.40	25006.40
		2013	512.84	-	2312.80	2825.64
		2012	120.50	-	63247.61	63368.11
7.	Mazagan Dock Ltd.	2016 (b)	401352.00	-	70413.00	471765.00
		2015	361674.00	217.00	56257.00	418148.00
		2014	288672.00	-	61265.00	349937.00
		2013	229064.00	-	56966.00	286030.00
		2012	246068.00	6301.00	54621.00	306990.00
8.	Shalimar Works Ltd. ***	2016	950.00	127.84	244.97	1322.81
		2015	950.00	127.84	244.97	1322.81
		2014	2408.83	155.02	535.96	3099.81
		2013	887.29	123.46	270.84	1281.59
		2012	1484.24	238.60	445.90	2168.74
B. PRIVATE SECTOR						
9.	Dempo Shipbuilding and Engineering Ltd.	2016	0.00	1218.62	654.13	1872.75
		2015 (b) *	4045.73	803.00	(-372.36)	4476.37
		2014 *	1542.86	804.46	1459.77	3807.09
		2013 *	8549.30	446.58	(-981.86)	8014.02
		2012	5126.33	1025.56	835.31	6987.20
10.	ABG Shipyard Ltd.	2016	2726.63	700.50	348.88	3776.01
		2015	36710.00	1864.00	1593.00	40167.00
		2014	146398.00	1111.00	15981.00	163490.00
		2013	194528.00	8683.00	11722.00	214933.00
		2012	234224.00	132.00	8930.00	243286.00

**Table No.
4.1**

**Financial Performance (Income Earned) Company - wise
(2012 to 2016)**

(Rs. in lakhs)

Sl. No.	Name of the Company	As on 31st March	Income from			Total Income
			Ship Building	Ship Repairing	Other resources	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
11	Bharati Defence & Infrastructure Ltc	2016	4705.17	1019.92	1072.48	6797.57
		2015	2497.98	624.77	1250.02	4372.77
		2014	16686.10	634.23	2980.58	20300.91
		2013	50529.48	-	789.84	51319.32
		2012	140587.38	-	15.89	140603.27
12	Chowgule & Co.Ltd.	2016	2198.97	47.65	281.79	2528.41
		2015	6514.16	-	168.86	6683.02
		2014	8752.08	-	772.13	9524.21
		2013	23066.78	-	2289.72	25356.50
		2012	16922.90	-	4757.63	21680.53
13	Ferromar Shipping Pvt. Ltd. # ***	2016	-	-	675.13	675.13
		2015	-	-	675.13	675.13
		2014	-	-	740.57	740.57
		2013	-	-	604.78	604.78
		2012	-	-	734.40	734.40
14	A.C.Roy & Comp. Ltd. ***	2016	2312.00	155.00	171.00	2638.00
		2015	2312.00	155.00	171.00	2638.00
		2014	2162.00	181.00	275.00	2618.00
		2013	2084.00	221.00	199.00	2504.00
		2012	1995.00	269.00	152.00	2416.00
15	Bristol Boats	2016	-	4.74	40.50	45.24
		2015	-	3.70	108.47	112.17
		2014	209.15	9.61	16.80	152.78 **
		2013	419.11	10.95	100.13	364.06 **
		2012	70.12	25.25	172.51	267.88
16	Tebma Shipyard Ltd. ***	2016	15142.73	-	708.50	15851.23
		2015	15142.73	-	708.50	15851.23
		2014	29219.20	-	1108.90	30328.10
		2013	37105.48	-	3501.31	40606.79
		2012	32547.28	-	2712.99	35260.27
17	Larsen & Toubro Limited ***	2016	54389.52	4482.01	404.34	59275.87
		2015	54389.52	4482.01	404.34	59275.87
		2014	50816.78	2128.48	1612.34	54557.60
		2013	10347.00	-	1256.00	11603.00
		2012	...	...	...	...
18	N N Shipbuilders and Engineers Pvt Ltd ***	2016	227.52	-	1502.65	1730.17
		2015	227.52	-	1502.65	1730.17
		2014	100.00	-	1282.55	1382.55
		2013	145.44	88.07	1176.45	1409.96
		2012	513.10	7.39	581.60	1102.09
19	Pipavav ***	2016	29303.55	40835.79	16068.57	86207.91
		2015	29303.55	40835.79	16068.57	86207.91
		2014	122917.03	-	108990.60	231907.63
		2013	146930.00	-	114373.00	261303.00
		2012	186767.00	-	2379.00	189146.00
20	Modest Infrastructure Pvt. Ltd.	2016	3155.95	-	94.19	3250.14
		2015	5117.88	48.92	134.68	5301.48
		2014	3735.32	-	216.32	3951.64
21	Chidambaranar Shipcare Pvt. Ltd.	2016	36.09	1370.31	8.28	1414.68
		2015	36.09	1370.31	8.28	1414.68
		2014	187.63	1031.16	18.67	1237.46
22	Sembmarine Kakinada Ltd.	2016	-	7104.64	3380.50	10485.14
		2015	-	5756.63	804.70	6561.33
		2014	-	1336.03	1041.19	2377.22

@ After adjusting accretion/decretion to work in progress.

* 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

Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

** Total income adjusted for losses due to revenue incomplete contract- manufacture Rs. 166.13 lakh for the year 2013 lakh & Rs. 82.78 lakh for the year 2014

Income from Ship repairing (sales)

(b) Provisional / Unaudited

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

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

\$ Formerly Bharati Shipyard Ltd.

Table No. 4.2

**Financial Performance (Expenditure) : Company-wise
(2012 to 2016)**

(Rs. in lakhs)

Sl. No.	Name of the Company	As on 31st March	Expenditure incurred on			Total Expenditure	Profit (+)/Loss (-)
			Operating establishment and other expenses	Provision for Depreciation	Interest		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
A. PUBLIC SECTOR							
1	Alcock Ashdown (Gujarat) Ltd.	2016	1013.35	155.66	2013.91	3182.92	(-) 514.32
		2015	423.21	159.71	6685.41	7268.33	(-) 6866.94
		2014	530.15	132.01	5725.77	6387.93	(-) 5892.73
		2013	14580.40	132.02	7328.15	22040.57	(-) 9655.60
		2012	3164.70	132.74	5258.51	8555.95	(+) 7749.08
2	Cochin Shipyard Ltd.	2016	163648.46	3719.25	1201.21	168568.92	(+)42408.05
		2015	152875.64	3832.39	1832.16	158540.19	(+) 36756.44
		2014	147447.68	2428.62	1977.31	151853.61	(+) 19424.22
		2013	141472.04	1921.59	2313.17	145706.80	(+) 18526.76
		2012	127802.43	1807.27	1312.09	130921.79	(+) 17232.69
3	Garden Reach Ship-Builders & Engineers Ltd.	2016	160582.90	2779.80	102.80	163465.50	(+) 24711.21
		2015	157340.00	2711.00	170.00	160221.00	(+) 7602.00
		2014	148442.00	2207.00	438.00	151087.00	(+) 18723.00
		2013	139951.00	1391.00	45.00	141387.00	(+) 19315.00
		2012	114968.00	1270.00	-	116238.00	(+) 16935.00
4	Goa Shipyard Ltd.	2016	66611.00	882.00	104.00	67597.00	(+) 6189.00
		2015 *	61789.00	898.00	73.00	60253.00 **	(+) 7824.00
		2014	57762.00	1727.00	2042.00	61361.00 **	(-) 6109.00
		2013	50631.00	1817.00	2424.00	54872.00	(+) 1550.00
		2012	56351.00	1628.00	1706.00	59685.00	(+) 12603.00
5	Hindustan Shipyard Ltd.	2016	61710.00	698.00	1400.00	63808.00	(+) 1900.00
		2015	50679.55	680.07	1225.10	52584.72	(-) 20283.67
		2014 *	54850.00	753.00	925.00	56528.00	(-) 4621.00
		2013	59202.00	789.00	1777.00	61768.00	(-) 5517.00
		2012	67052.94	796.68	1182.42	69032.04	(-) 8598.34
6	Hooghly Dock & Port Engineers Ltd.	2016	1480.27	19.00	1537.53	3036.80	(+) 4119.41
		2015	4390.66	50.57	537.97	4979.20	(+) 247.55
		2014	6544.80	29.45	431.41	7005.66	(+) 18000.74
		2013	6533.96	34.80	240.98	6809.74	(-) 3984.10
		2012	4156.16	40.40	94.51	4291.07	(+) 59077.04
7	Mazagon Dock Ltd.	2016*	426982.00	2423.00	20.00	429425.00	(+) 42340.00
		2015	365900.00	3086.00	3.00	368989.00	(+) 49159.00
		2014	308344.00	1823.00	9.00	310176.00	(+) 39761.00
		2013	243204.00	1464.00	90.00	244758.00	(+) 41272.00
		2012	233895.00	1314.00	2603.00	237812.00	(+) 69178.00
8	Shalimar Works Ltd. ***	2016	1352.92	31.42	1716.59	3100.93	(-) 1778.12
		2015	1352.92	31.42	1716.59	3100.93	(-) 1778.12
		2014	3188.21	27.57	1590.32	4806.10	(-) 1706.29
		2013	1889.35	30.61	1505.53	3425.49	(-) 2143.90
		2012	2520.38	35.03	1361.48	3916.89	(-) 1748.15
B. PRIVATE SECTOR							
9	Dempo Shipbuilding and Engineering Ltd.	2016	2041.76	167.88	215.61	2425.25	(-) 552.50
		2015 *	3812.63	204.33	251.63	4268.59	207.38
		2014	4185.76	295.82	289.94	4771.52	(-) 964.44
		2013	6880.02	265.16	336.82	7482.00	(+) 532.01
		2012	6264.80	245.28	148.54	6658.62	(+) 313.71
10	ABG Shipyard Ltd.\$	2016	222506.38	6212.74	145528.12	374247.24	(-) 370471.22
		2015	76334.00	9914.00	72509.00	158757.00	(-) 118590.00
		2014	126458.00	9178.00	57472.00	193108.00	(-) 29618.00
		2013	147062.00	10371.00	40130.00	197563.00	(+) 17370.00
		2012	172409.00	9925.00	33074.00	215408.00	(+) 18029.00

**Table No.
4.2**

**Financial Performance (Expenditure) : Company-wise
(2012 to 2016)**

(Rs. in lakhs)

Sl. No.	Name of the Company	As on 31st March	Expenditure incurred on			Total Expenditure	Profit (+)/Loss (-)
			Operating establishment and other expenses	Provision for Depreciation	Interest		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
11	Bharati Defence & Infrastructure Ltd. #	2016	15462.54	6227.02	29656.46	51346.02	(-) 86458.22
		2015	17553.47	6093.99	31941.00	55588.46	(-) 189799.01
		2014	37633.57	4939.92	51184.26	93757.75	(-) 84273.43
		2013	55897.17	4684.43	44713.25	105294.85	(-) 53975.53
		2012	92416.31	3997.03	49048.59	145461.93	(-) 4858.64
12	Chowgule & Co. Ltd.	2016	2134.96	1183.27	330.29	3648.52	(-) 1120.11
		2015	6226.81	1508.36	119.37	7854.54	(-) 1171.52
		2014	5391.27	993.04	3.40	6387.71	(+) 3136.50
		2013	22495.86	917.13	0.02	23413.01	(+) 1943.49
		2012	16548.34	889.75	66.90	17504.99	(+) 4175.53
13	Ferromar Shipping Pvt. Ltd. @ ***	2016	306.65	464.66	10.03	781.34	(-)106.21
		2015	306.65	464.66	10.03	781.34	(-)106.21
		2014	414.87	107.62	25.41	547.90	(+) 192.67
		2013	194.22	253.74	111.23	559.19	(+) 45.59
		2012	253.40	235.36	69.21	557.97	(+) 176.43
14	A.C.Roy & Comp. Ltd. ***	2016	2035.00	71.00	17.00	2123.00	(+) 515.00
		2015	2035.00	71.00	17.00	2123.00	(+) 515.00
		2014	2017.00	69.00	21.00	2107.00	(+) 511.00
		2013	2008.00	83.00	19.00	2110.00	(+) 394.00
		2012	2001.00	61.00	18.00	2080.00	(+) 336.00
15	Bristol Boats	2016	65.26	3.85	0.19	69.30	(-) 24.06
		2015	127.07	6.82	5.14	139.03	(-) 26.86
		2014	244.77	8.69	18.98	272.44	(-) 119.66
		2013	426.36	13.34	20.85	460.55	(-) 96.49
		2012	294.94	14.67	13.56	323.17	(-) 55.29
16	Tebma Shipyard Ltd. ***	2016	14256.08	1814.48	3039.75	19110.31	(-) 3259.08
		2015	14256.08	1814.48	3039.75	19110.31	(-) 3259.08
		2014	31881.23	1917.68	3198.52	36997.43	(-) 6669.33
		2013	34502.39	2015.35	3959.25	40476.99	129.80
		2012	31326.49	2252.51	3948.53	37527.53	(-) 1273.26
17	Larsen & Toubro Limited ***	2016	81281.10	15141.39	30199.94	126622.43	(-) 67346.56
		2015	81281.10	15141.39	30199.94	126622.43	(-) 67346.56
		2014	73741.14	17910.77	27744.13	119396.04	(-) 64838.44
		2013	17939.00	3233.00	4113.00	25285.00	(-)13682
		2012	...	...	...	...	...
18	N N Shipbuilders and Engineers Pvt Ltd ***	2016	1626.72	28.00	-	1654.72	(+) 75.45
		2015	1626.72	28.00	-	1654.72	(+) 75.45
		2014	1305.51	25.00	-	1330.51	(+) 52.04
		2013	1309.59	30.84	-	1340.43	(+) 69.53
		2012	1058.17	19.27	-	1077.44	(+) 24.65
19	Pipavav ***	2016	73814.39	13134.35	45269.29	132218.03	(-) 46010.12
		2015	73814.39	13134.35	45269.29	132218.03	(-) 46010.12
		2014	166423.94	16170.40	46520.81	229115.15	(+) 2792.48
		2013	205149.00	12270.00	39746.00	257165.00	(+) 4138.00
		2012	145520.00	10589.00	25768.00	181877.00	(+) 7269.00
20	Modest Infrastructure Pvt. Ltd. #	2016	4615.86	228.46	2013.64	6857.96	(-) 3607.82
		2015	5982.26	261.27	2093.42	8336.95	(-) 3035.47
		2014	6163.66	939.11	2778.91	9881.68	(-) 5930.04
21	Chidambaranar Shipcare Pvt. Ltd. ***	2016	1300.43	16.57	52.33	1369.33	(+)45.35
		2015	1300.43	16.57	52.33	1369.33	(+)45.35
		2014	1097.85	17.55	49.13	1164.53	(+) 72.93
22	Sembmarine Kakinada Ltd.	2016	6483.01	2341.25	4005.26	12829.52	(-) 2344.38
		2015	7836.62	3989.81	3475.61	15302.04	(-) 8740.71
		2014	2341.16	2653.30	2140.67	7135.13	(-) 4757.91

*** No information is received from these companies for the year 2015-16, Hence last year information has been repeated.

* Provisional/ Unaudited

@ Empreiteiros Gerais Pvt. Ltd. merged with Ferromar Shipping Pvt. Ltd. w.e.f. 16.4.2010.

** Excludes Rs. 170 lakh and Rs. 2507 lakh in 2014 and 2015 respectively.

Interest includes short provision of earlier years Rs. 45.90 lakhs in 2015 and exceptional item Rs. 743.51 lakhs in 2014

Formerly Bharati Shipyard Ltd.

\$the provision for tax has been included in the provision for depreciation for the year 2015-16.

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. The number of ships on order reflects the demand side dynamics of the world shipping industry. Over the period (1998 to 2015), the number of ships on order at a global level has increased from 1917 units in 1998 to 3885 units in 2015. Ships on order in terms of gross tonnage (GT) have gone up from 53.42 million CGT in 1998 to 99.19 million CGT in 2015. During the year 1998 to 2015, order book of world shipbuilding industry had witnessed CAGR of 4.3% and 3.75% on order in term of numbers of ships and gross tonnage respectively.

5.3. The number of ships built and delivered recorded in terms of gross tonnage (GT), were of the order 63 million GT in 2014 (Table 5.4) reflecting a fall of 11.2 % over 71 million GT completed in 2013. In terms of number, the total number of ships completed decreased to 2200 units in 2014 from 2403 units in 2013. Ore & Bulk Carriers contributed 25.5 million GT in 2014, which is more than 39.9 % of the total GT of ships delivered in 2014 (Table 5.5).

5.4. Tables 5.2 and 5.4 provide country-wise data on the ship order book position and ship completion. China, Japan and Republic of Korea were the top three nations which accounted for a global share of 45.4%, 22.9% and 20.0% respectively in ship completion (deliveries) in terms of gross tonnage in 2015.

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

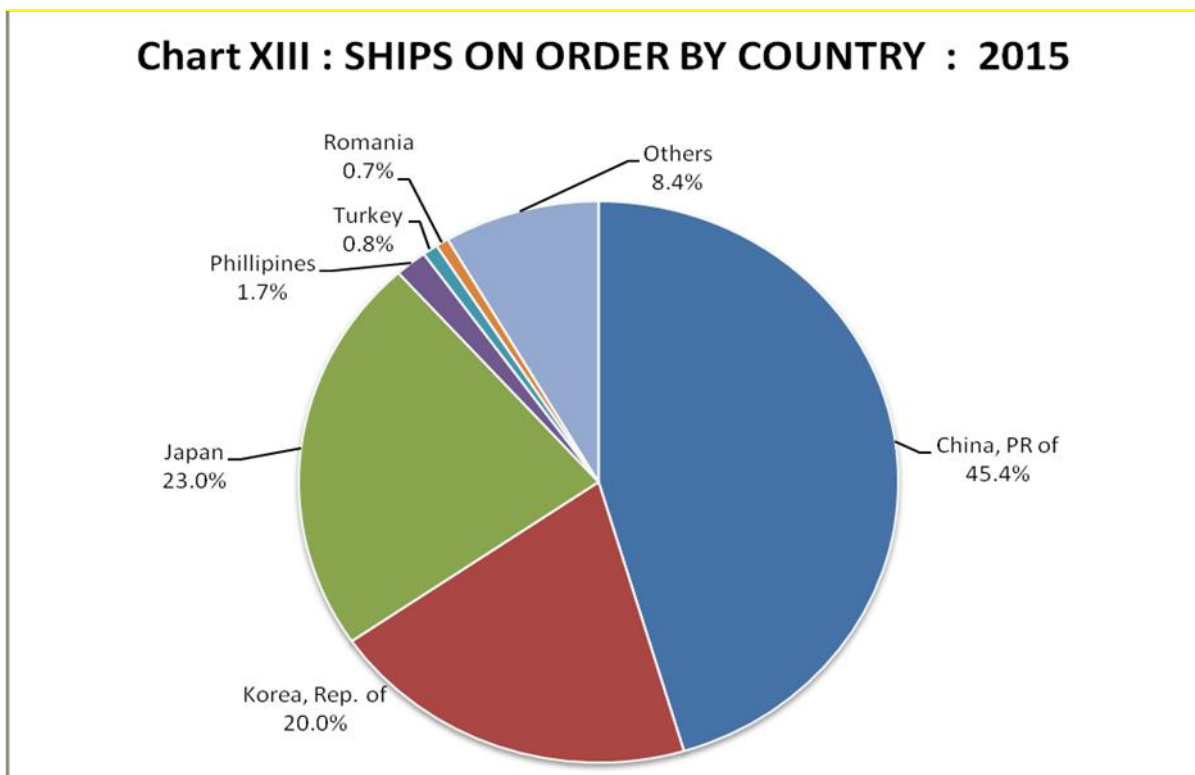
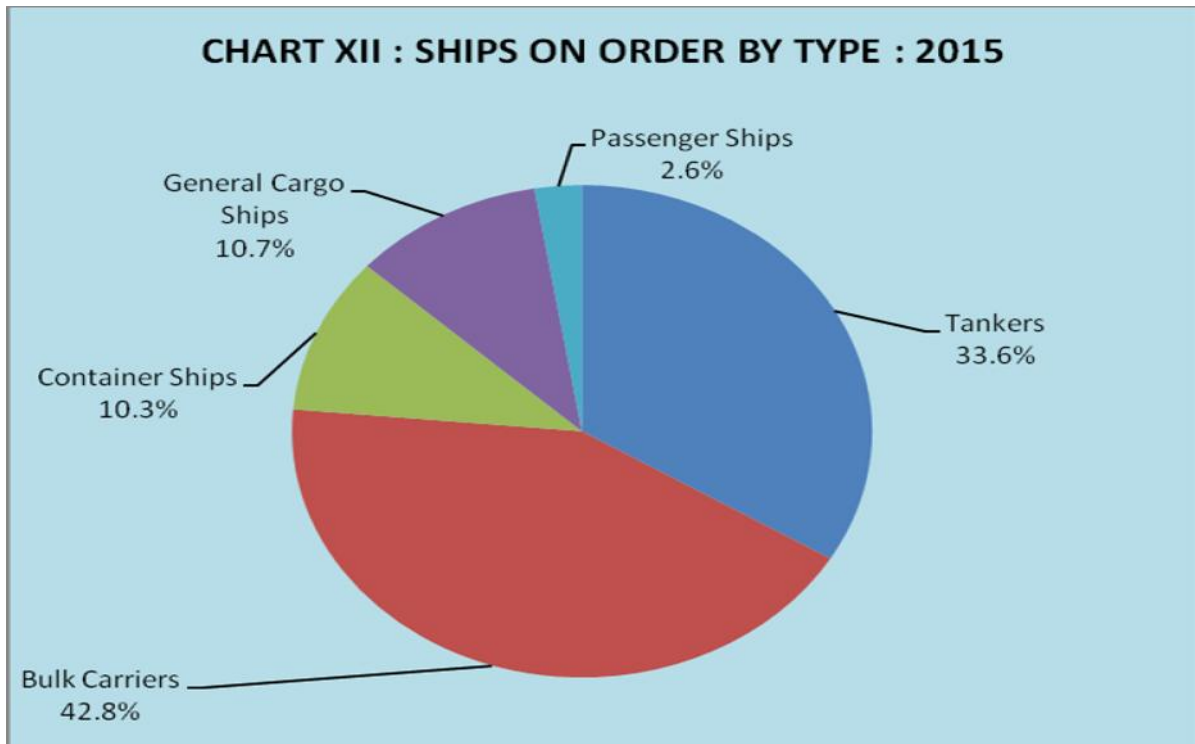


Chart XIV : SHIPS COMPLETED BY TYPES : 2014

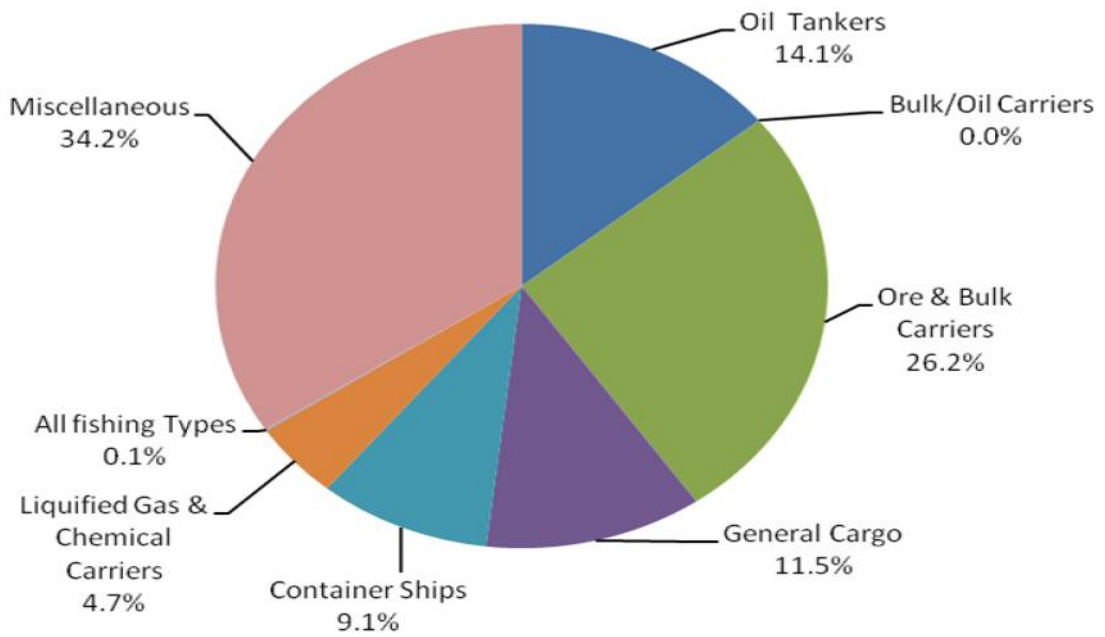
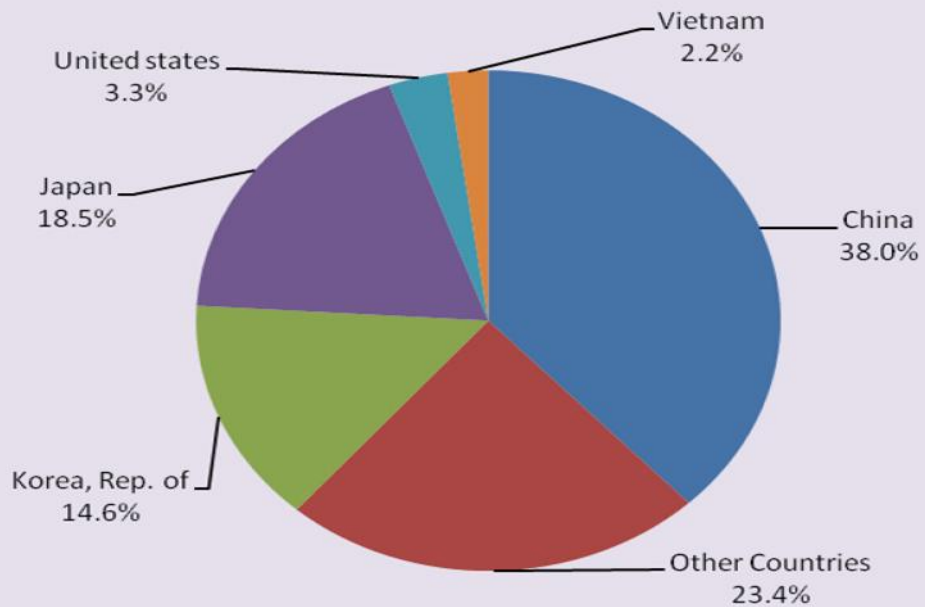


CHART XV : SHIPS COMPLETED BY COUNTRY : 2014



Source: Shipping Statistics Yearbook 2015

Table No. 5.1

World Ship-building - Ships On Order And Completed During 1998 - 2015

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\$	3885	99195	-	-

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

Source : Shipping Statistics Year book 2015

Table No.5.2

Ships on Order by Major Types and Country of Build (As on 1st July, 2015)

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	222	5586	553	9981	38	2337	63	1079	16	438	892	19421
2	Korea Rep.	576	21719	61	1856	123	6908	16	523	1	16	777	31022
3	Italy	-	-	-	-	-	-	1	10	14	1330	15	1340
4	China PR of	324	8405	986	19405	200	5908	237	3247	17	261	1764	37226
5	Germany	-	-	-	-	-	-	8	74	15	1614	23	1688
6	Poland	-	-	-	-	1	10	2	7	5	60	8	77
7	Croatia	9	186	7	91	-	-	7	166	4	47	27	490
8	Spain	-	-	-	-	-	-	-	-	2	50	2	50
9	Romania	21	538	3	93	3	151	-	-	-	-	27	782
10	Denmark	-	-	-	-	-	-	-	-	1	3	1	3
11	US	14	342	-	-	4	105	2	41	3	23	23	511
12	Taiwan	2	30	-	-	18	572	-	-	-	-	20	602
13	Ukraine	-	-	-	-	-	-	-	-	-	-	0	0
14	Netherlands	-	-	2	13	-	-	20	107	1	8	23	128
15	Bangladesh	21	53	-	-	-	-	19	93	-	-	40	146
16	France	-	-	-	-	-	-	-	-	4	688	4	688
17	Russia	8	46	-	-	-	-	10	7	-	-	18	53
18	Turkey	17	148	1	7	-	-	5	31	9	94	32	280
19	Norway	-	-	-	-	-	-	-	-	2	7	2	7
20	Portugal	2	35	-	-	-	-	-	-	1	7	3	42
21	Bulgaria	-	-	-	-	-	-	-	-	-	-	0	0
22	Philippines	12	310	31	530	24	1325	-	-	-	-	67	2165
23	Egypt	-	-	-	-	-	-	1	15	-	-	1	15
24	Finland	-	-	-	-	-	-	-	-	5	585	5	585
25	India	-	-	-	-	-	-	-	-	-	-	0	0
26	Lithuania	-	-	-	-	-	-	-	-	-	-	0	0
27	Iran	3	78	-	-	-	-	-	-	-	-	3	78
28	Australia	-	-	-	-	-	-	-	-	-	-	0	0
29	Brazil	42	806	1	21	3	61	-	-	-	-	46	888
30	Slovakia	-	-	-	-	-	-	-	-	-	-	0	0
31	Indonesia	3	36	1	6	-	-	-	-	-	-	4	42
32	Singapore	-	-	-	-	-	-	-	-	-	-	0	0
33	Vietnam	23	457	14	235	-	-	7	42	-	-	44	734
34	Argentina	2	33	2	17	-	-	-	-	-	-	4	50
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	-	-	-	-	-	-	-	-	-	-	0	0
41	Others	6	60	-	-	-	-	-	-	-	-	6	60
42	Unknown	-	-	-	-	-	-	2	10	-	-	2	10
	Total	1307	38868	1662	32255	414	17377	400	5452	102	5243	3885	99195

* Total of all container and all type of Ships will not tally with grand total as unit of Container Ships and General Cargo Ships are in TEUs.

Table No. 5.3

Ship on order by Type During 2013-15

Ship Type	Ships of 300gt and over					
	2013		2014		2015	
	No of Ships	1000 cgt	No of Ships	1000 cgt	No of Ships	1000 cgt
(1)	(4)	(5)	(6)	(7)	(6)	(7)
Tankers	932	23032	1134	29292	1307	38868
Bulk Carriers	1635	31059	1767	34104	1662	32255
Container Ships	466	6179	474	19220	400	5452
General Cargo Ships	476	18029	408	6296	414	17377
Passenger Ships	80	3451	96	3818	102	5243
Grand Total	3589	81750	3879	92730	3885	99195

Note: Figures for the year 2013 & 2014 is as on 1st January and for the year 2015 is as on 1st July.

Source: Shipping Statistics Year Book 2015.

Table No. 5.4

Merchant Ships Completed By Country Of Build (2012-2014)

(Ships of 100 gt & Over)

S. No.	Country of Build	2012		2013		2014	
		No.	1000 gt	No.	1000 gt	No.	1000 gt
1	2	3	4	5	6	7	8
(1)	Croatia	11	203.0	7	87.0	6	38.0
(2)	Brazil	25	235.0	28	147.0	18	240.0
(3)	Denmark (a)	6	33.0	1	0.0	2	1.0
(4)	Finland	7	76.0	2	64.0	4	102.0
(5)	France	5	143.0	3	182.0	2	2.0
(6)	China	1413	39918.0	950	26706.0	836	23033.0
(7)	Germany	14	457.0	11	345.0	14	499.0
(8)	Italy	9	321.0	9	169.0	6	305.0
(9)	Korea, Rep. Of	463	31427.0	385	24704.0	321	21969.0
(10)	Japan	494	17433.0	418	14534.0	408	13365.0
(11)	Netherlands	52	141.0	37	101.0	40	131.0
(12)	Norway	42	187.0	41	229.0	38	256.0
(13)	Poland	13	54.0	14	58.0	10	46.0
(14)	Spain	25	66.0	27	92.0	13	31.0
(15)	Philippines	37	2696.0	24	1328.0	39	1865.0
(16)	United Kingdom	1	1.0	3	2.0	1	1.0
(17)	United States	48	139.0	58	125.0	72	219.0
(18)	Vietnam	76	824.0	51	529.0	49	352.0
(19)	Other Countries	399	2211.0	329	1669.0	321	1425.0
World Total		3163	96565	2403	71071	2200	63876

(a) Includes Faeroes.

Source : Shipping Statistics Year Book 2015.

Table No. 5.5

World Merchant Ships Completed By Principle Types (1986-2014)

(Ships of 100gt and over (a))

Year	Oil Tankers		Bulk/Oil Carriers(b)		Ore & Bulk Carriers		General Cargo(c),(e)		General Cargo (d)	
	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1986	143	3778	10	659	198	6695	200	1612	148	122
1987	134	3052	6	499	105	3847	147	2133	129	83
1988	173	4131	2	207	50	2088	153	1790	166	105
1989	161	5013	2	42	103	3844	309	1180	...	...
1990	151	5079	-	-	123	5536	350	1598	...	...
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	...	...
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	...	...
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	...	...
2006	520	14743	-	-	322	13517	526	4485	...	...
2007 (e)	629	17746	-	-	329	13344	615	5128	...	...
2008	791	21115	-	-	381	13289	740	6713	...	...
2009	838	27316	1	162	645	23601	686	6557	...	...
2010	677	23296	4	688	1019	43605	633	7296	...	...
2011	570	22477	3	516	1201	53674	650	7982	...	...
2012	505	18211	-	-	1199	53818	503	6446	...	...
2013	396	12257	-	-	760	33558	340	4856	...	...
2014	311	9483	-	-	576	25509	254	4056	...	...

World Merchant Ships Completed By Principle Types (1986-2014)

Table No. 5.5

(Ships of 100gt and over (a))

Year	Container Ships(b)(d)		Liquified Gas & Chemical Carriers		All Fishing Types		Miscellaneous		Total	
	No. (12)	1000gt (13)	No. (14)	1000gt (15)	No. (16)	1000gt (17)	No. (18)	1000gt (19)	No. (20)	1000gt (21)
1986	61	1806	82	444	391	240	401	1487	1634	16843
1987	41	1125	60	202	526	260	380	1058	1528	12259
1988	38	1473	55	153	576	380	362	583	1575	10910
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

(a) : Includes Ore/Oil Carriers.

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

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

(d) : Since 1998 all ships of 100 gt. and over are included.

Source : Shipping Statistics Year Book, 2015.

Table No. 5.6

Total Order Book - By Country of Build (As on 1st July, 2015)

(Ships of 300 gt and over)

Country	2013			2015		
	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	1477	30384	102125	1764	78152	128561
Croatia	13	175	261	27	653	766
Phillippines	66	1730	5056	67	4868	6580
Finland	2	218	22	5	606	63
France	2	198	16	4	786	70
Germany. FR of	15	923	170	24	1806	260
Italy	17	1034	147	16	1242	159
Japan	702	14241	51229	892	37967	57924
Korea, Republic of	681	24912	60586	777	61045	83860
Netherlands	47	241	249	26	106	142
Poland	8	63	24	8	55	21
Romania	16	621	1524	27	1845	3220
Russia	33	255	325	18	76	111
Spain	1	13	1	2	46	8
Turkey	42	380	403	32	177	203
U.S	11	212	540	23	659	938
Other Countries	298	78803	8732	173	4614	7220
Total	3431	154403	231410	3885	194703	290106

Note: Information for the above Table for 2014 is not available with the Department.

Source: Shipping Statistics Year Book 2015

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, 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 a 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 crange 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.