



# **STATISTICS OF INDIA'S SHIP BUILDING AND SHIP REPAIRING INDUSTRY**

**2012-13**



**Government of India  
Ministry of Road Transport and Highways  
Transport Research Wing  
New Delhi**

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सत्यमेव जयते

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Ministry of Road Transport and Highways  
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## P R E F A C E

Transport Research Wing (TRW) in the Ministry of Road Transport & Highways 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 2012-13" 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 new 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, which inevitably results in time lag in bringing out collated data. However with the concerted efforts of TRW and co-operation of various source agencies, we have succeeded in bringing out the Publication. 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 their knowledge and professional commitment. Suggestions from the users of information are welcome to improve quality and coverage.

(Dr.Vishwapati Trivedi)

New Delhi  
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## **ACRONYMS**

-	-	Nil
Neg	-	Negligible
ō	-	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
CCL	-	Chowgule & Co Ltd
HSL	-	Hindustan Shipyard Ltd.
BSPL/BSL	-	Bharati Shipyard Private 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

# AN OVERVIEW

Shipbuilding Industry is a technology, 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. With rising labour cost, shipbuilding activities have slowly moved away from high wage Europe and US to low-wage Asia. Over the years, the production base 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 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 is peninsular in nature having a coastline of about 7,517 Kms. with 12 Major ports and 200 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 7.95% of India's overseas trade during 2010-11 and the share of Indian owned vessels in India's overseas trade during 2011-12 is 10.9%. As on 31<sup>st</sup> December 2012, Indian shipping tonnage was 10.4 million Gross Registered Tonnage (GRT) with 1154 ships. With the opening of Indian economy to globalization, there has been a steady increase in handling of cargo traffic at Indian Ports. The robust growth in India's export over the last few years has improved India's share in global exports from 0.5% in 1990 to 1.5% in 2010. 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.

At present, India has six shipyards under Central Public Sector and two under State Governments. Besides, there are a number of shipyards in the Private Sector.

3. Since India has a well established naval and merchant shipping fleet, ship -building and ship-repairing industry is important. The demand for ships, semi-submersibles and port auxiliary vessels is projected to grow in view of rising cargo traffic from/to India in coming years. These factors are likely to offer steady demand for new ship building activities as well as growth in ship-repair volumes to sustain the fleet in a sea-worthy state. The MARPOL regulations relating to phasing out of single-hull tankers will give fillip to replacement demand in coming years.

4. The Indian Ship-Building Industry could 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) Defense /Naval crafts and Coast Guard Vessels.

5. There are 34 dry-docks for repairing ships in India both in public and private sector as per data reported. These dry docks include the 12 dry docks operated by 8 major ports. The ports which have no dry-dock facilities are JNPT, New Mangalore, Chennai, Ennore, and Haldia.

## **6. MAJOR SHIPYARDS AND R&D FACILITIES IN THE PUBLIC SECTOR**

### **UNDER THE MINISTRY OF SHIPPING:**

- Cochin Shipyard Limited, Cochin
- 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 has been merged with Garden Reach Shipbuilders and Engineers Ltd. Kolkata w.e.f. 1<sup>st</sup> July 2006.)
- Goa Shipyard Limited, Goa

**UNDER THE CONTROL OF STATE GOVERNMENTS:**

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

**6.1. 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 70,000 DWT and 80,000 DWT respectively.

6.1.1. The percentage shares of income earned by Hindustan Shipyard Ltd. during 2012-13 from ship building, ship repairing and other activities are shown in chart I.



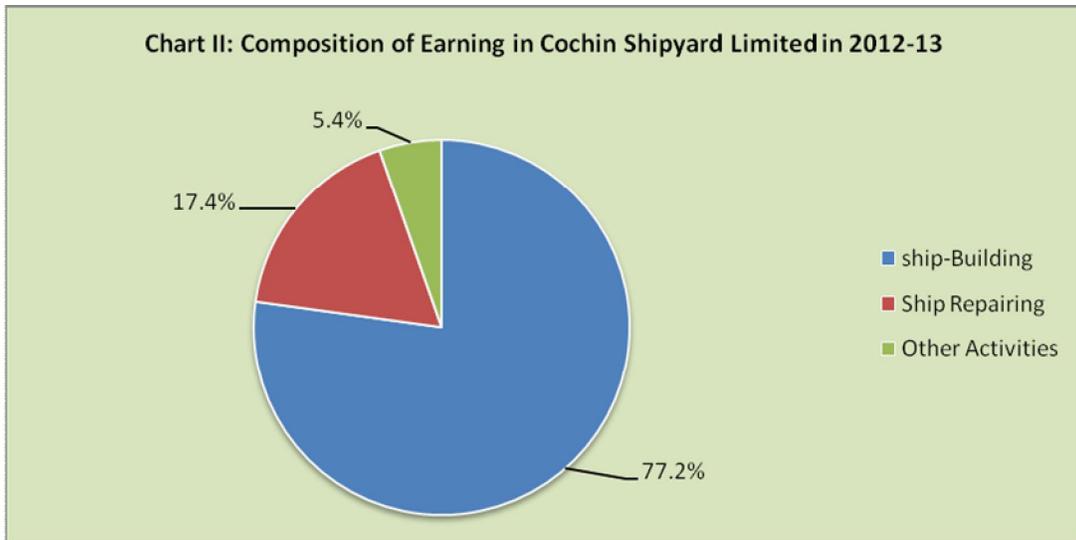
## 6.2. COCHIN SHIPYARD LIMITED (CSL)

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.

6.2.1. 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 up to 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.

6.2.2. The percentage shares of income earned by Cochin Shipyard Ltd. from ship building, ship repairing and other activities during 2012-13 are depicted in chart II.

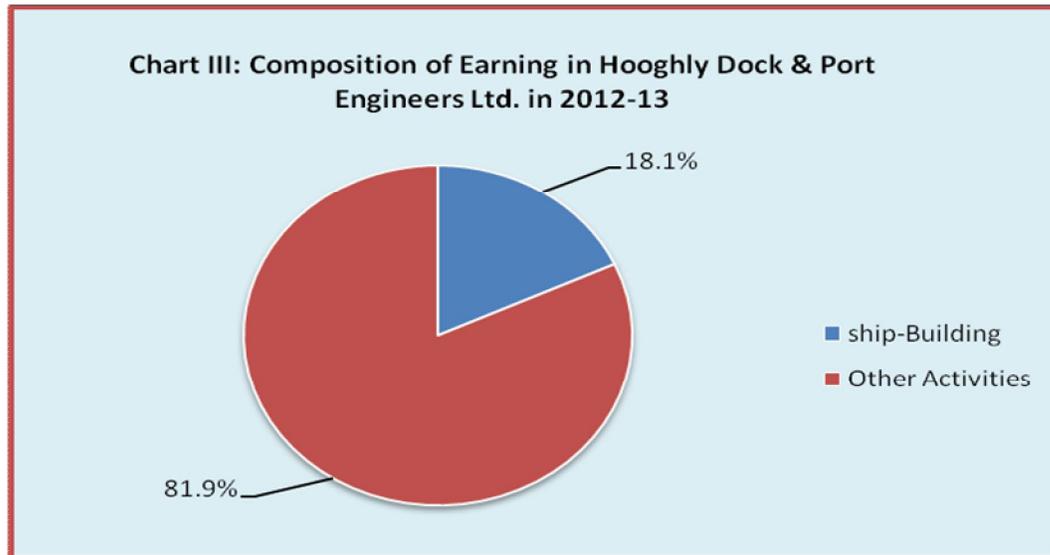


### **6.3. HOOGHLY DOCK & PORT ENGINEERS LIMITED, KOLKATA (HDPEL)**

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"

6.3.1. 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.

6.3.2. The percentage shares of income earned by Hooghly Dock & Port Engineers Ltd from ship building and other activities are depicted in chart III. There is no income from ship-repairing.



## **7. NATIONAL SHIP DESIGN AND RESEARCH CENTRE, (NSDRC), VISAKHAPATNAM**

National Ship Design and Research Centre (NSDRC), designed to provide support to the Indian Shipbuilding Industry in the field of Ship Design, research in hydrodynamic structures, ocean water transport economy etc. has been integrated into the Indian Maritime University in 2009.

## **8. MEASURES TO PROMOTE DOMESTIC SHIPBUILDING & REPAIR**

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

### **a) 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 8<sup>th</sup> Plan eleven R&D projects have been executed under this scheme.

### **b) SUBSIDY & BUDGETARY SUPPORT FOR SHIPBUILDING**

The Shipping Subsidy Scheme of the Government of India for both export and domestic orders to all the Indian Shipyards including private sector shipyards was applicable up to 14<sup>th</sup> August, 2007. Government of India has decided to liquidate the committed liability for payment of subsidy for ongoing shipbuilding contracts entered upto 14<sup>th</sup> August, 2007, the date of expiry of the subsidy scheme. Department of Shipping has issued the modified guidelines dated 25<sup>th</sup> March, 2009 for liquidation of the Committed Liability for payment of subsidy for ongoing eligible shipbuilding contracts entered by Central Public Sector Shipyards , Non Central Public Sector Shipyards and Private Sector Shipyards from 25<sup>th</sup> October 2002 to 14 August 2007.

8.1. The subsidy disbursed to Shipbuilding activity has increased from Rs. 15 crore in 2000-01 to about Rs. 179.20 crore in 2009-10 with a major share going to public shipyards (Table 1) and on export orders (Table 2).

<b>Year</b>	<b>Public Shipyards</b>	<b>Private Shipyards</b>	<b>Total</b>
2000-01	15.0	Nil	15.0
2001-02	20.0	Nil	20.0
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

<b>Year</b>	<b>Domestic Orders</b>	<b>Export Orders</b>	<b>Total</b>
2000-01	15.0	-	15.0
2001-02	20.0	-	20.0
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

## **Box: 1 Evolution of Shipbuilding Subsidy in India**

Prior to introduction of the Ship Building Subsidy Scheme, a 'Pricing Policy' was in vogue since 1971 till 1981. In 1981 Government of India ushered in a major change in the policy wherein a subsidy equivalent to 20 per cent of the International Parity Price was payable directly to the shipyards. The ship owners paid an additional 10 per cent of the international parity price towards partial cost of import substitution. The scheme was amended twice, once in 1997 and then in 2002. As per the Ship Building Subsidy Scheme, 2002, subsidy was 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 (DG) Shipping, based on which 30 per cent subsidy on the contract price was payable for all the export orders irrespective of size and type but limited to sea going merchant vessels of and over 80 meters in length for domestic vessels. In October 2005 the Ship Building Subsidy Scheme was extended to all the shipyards, including private shipyards as well.

### **Salient features of the Ship Building Subsidy Scheme**

#### **Shipbuilding subsidy on domestic order**

Shipbuilding Subsidy of 30 per cent on domestic order was admissible subject to the following conditions:

- (i) Shipbuilding Subsidy will be payable for domestic orders obtained on global tender basis only.
- (ii) Subsidy will be payable only for Ocean going vessel as defined in Section 3(41) of Merchant Shipping Act, 1958. The Vessel would be a merchant vessel of minimum 80 meters in length.
- (iii) Subsidy will be calculated on the price at which the Indian Shipyard has won a global tender. Fixation of price for domestic order will be in terms of relevant foreign currency and payment at each stage will be made in instalments to the Central and non-Central Public Sector Shipyards at market determined parity rate of foreign exchange prevailing on the date of actual payment. Release of subsidy will be as per stage payments agreed in the contract. Subsidy will be payable on the price at which the tender was won and will not take into account any subsequent escalation. In the case of private sector shipyards, the principle followed will be the same except that the subsidy will be released only after delivery of the vessel.

#### **Shipbuilding Subsidy on Export Order**

Shipbuilding subsidy of 30 per cent on export order under the scheme would be admissible on each export order irrespective of type and size of vessel. It will be admissible for orders obtained whether on tender or negotiated basis and admissible subject to the following conditions:

- (i) Subsidy will be calculated on the price at which the Indian Shipyard has won a global tender.
- (ii) Where the price of the vessel is negotiated, the reasonableness of price would be determined by the Director General (Shipping), Mumbai, according to the procedure laid down. The subsidy would be admissible on the contracted price or the price as certified to be reasonable, whichever is less.

In principle approval regarding eligibility of shipbuilding subsidy has to be obtained by Shipyard from the Ministry before claiming subsidy. Subject to availability of budget provision and satisfying the conditions laid down in the subsidy scheme, the administrative Ministry (Ministry of Defence in case of Defence Yards and Ministry of Shipping in case of other Indian Yards) shall release in subsidy to the Shipyard concerned. The Scheme was valid till August 14, 2007

## **9. 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 31<sup>st</sup> March 2013. 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**

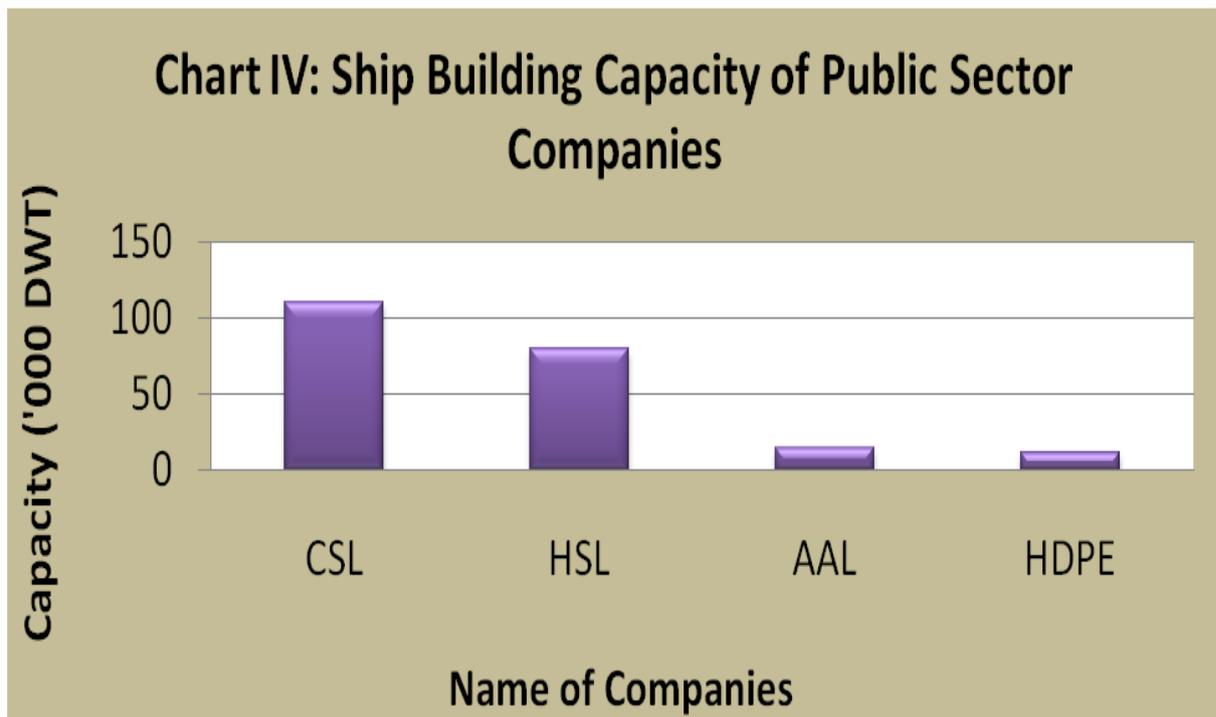
# **INDIA'S SHIP-BUILDING INDUSTRY**

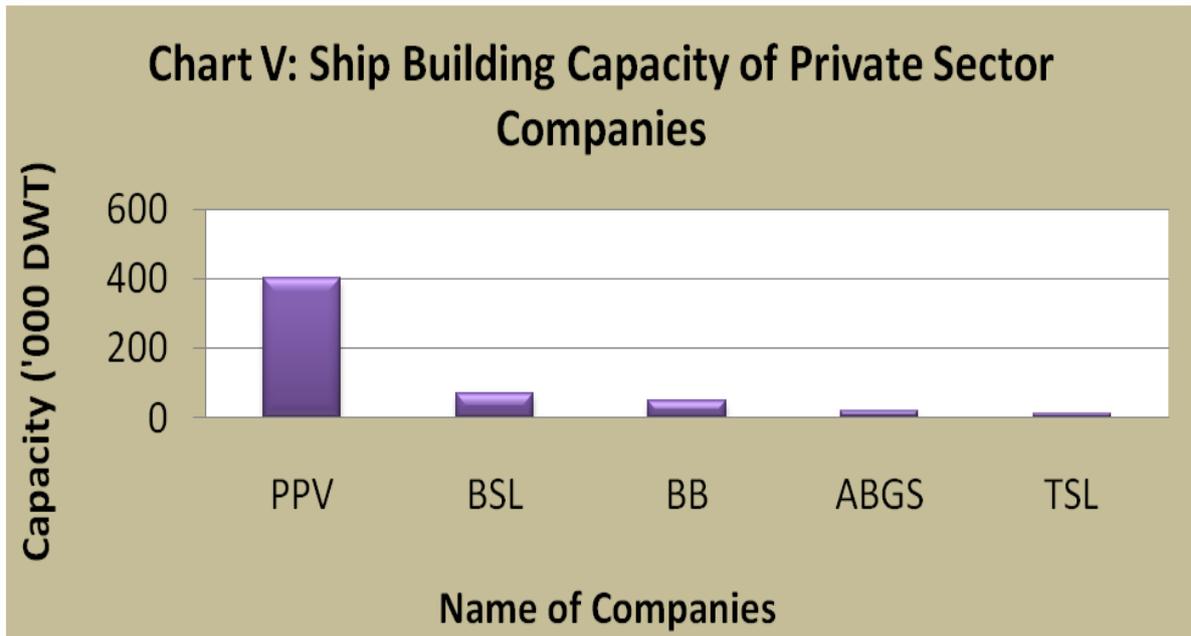
# INDIA'S SHIPBUILDING INDUSTRY

## SHIPBUILDING CAPACITY:

1.1. Ship building capacity of a unit is defined in terms of the number of ships built and 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 ship building capacity (110 thousand DWT) followed by Hindustan Shipyard Ltd. (80 thousand DWT) and Alcock Ashdown Ltd (15.00 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 2013 in public & private sector.





## SHIPS ON ORDER

1.3. Indian ship-building companies, at the end of 2012-13, had orders of 351 ships with DWT 3547.91 thousand tonnes. As on 31<sup>st</sup> March, 2013 the public sector shipyards had orders of 132 ships of 139.32 thousand DWT out of these 4 ships of 12.40 thousand DWT were export orders and remaining were orders from domestic companies. In terms of numbers, Hindustan Shipyard Ltd had the highest number of ships on order (29) followed by Cochin Shipyard (25) and Garden Reach Ship-Building & Engineers Ltd. and Goa Shipyard Ltd.(19) each. Order book in terms of DWT, was highest for Hindustan Shipyard Ltd. at 112.29 thousand DWT followed by Cochin Shipyard Ltd. with 14.60 thousand DWT and Garden Reach Ship-Building & Engineers Ltd with 4.24 thousand DWT.

1.4. In private sector category as on 31<sup>st</sup> March, 2013, the shipyards had orders for 219 ships of total 3408.59 thousand DWT. Out of these, 61 ships with total capacity of 1568.68 thousand DWT were export orders. Amongst ship building companies in the private sector, ABG Shipyard Ltd. had the highest number of ships on order (87) with a total capacity of 1786.26 thousand DWT followed by Bharati Shipyard Ltd. (64) number of ships on order with a total capacity of 223.41 thousand DWT, Pipavav (33) with 1365.00 thousand DWT, Tebma Shipyard Ltd. (12) with 13.10 thousand DWT and Larsen &Toubro Ltd (10) with 2.5 thousand DWT in 2012-13.

## COMPOSITION OF ORDER BOOK POSITION:

1.5. In the current order book, out of total 351 ships, 132 are in public sector yards and 219 are in private sector yards amounting to 139.32 thousand DWT and 3408.59 thousand DWT respectively. In term of vessel types, bulk cargo had largest contribution in the order book position in private sector as compared to other vessel types.

<b>Table- 3: Current Order Book By Types of Vessels</b>							
<b>(As on 31<sup>st</sup> March, 2013)</b>							
<b>(‘000 DWT)</b>							
<b>Vessel</b>		<b>Tankers</b>	<b>Dry Cargo</b>	<b>Bulk Cargo</b>	<b>Passengers</b>	<b>Others</b>	<b>Total</b>
<b>Type Yards</b>							
<b>Public Sector</b>	No.	4	-	2	10	116	<b>132</b>
	DWT	1.55	-	106.00	1.00	30.77	<b>139.32</b>
<b>Private Sector</b>	No.	-	23	59	2	135	<b>219</b>
	DWT	-	1366.90	1829.0	2.24	210.45	<b>3408.59</b>
<b>Total</b>	No.	<b>4</b>	<b>23</b>	<b>61</b>	<b>12</b>	<b>251</b>	<b>351</b>
	DWT	<b>1.55</b>	1366.90	<b>1935.00</b>	<b>3.24</b>	<b>241.22</b>	<b>3547.91</b>

## SHIPS DELIVERED

1.6. During the year 2012-13, among public sector companies, Garden Reach Ship-Builders & Engineers delivered highest tonnage with 240.0 thousand DWT consisting of 4 ships followed by Cochin Shipyard Ltd. at 16.12 thousand DWT (6 ships). In the private sector, the highest tonnage was delivered by Pipavav of 77.50 thousand DWT (3 ships) followed by ABG Shipyards Ltd. at 38.90 thousand DWT (5 ships). In terms of tonnage delivered, the public sector and private sector accounted for a share of 57.8% (258.59 thousand DWT) and 42.2% (188.55 thousand DWT) respectively in the total tonnage (447.14 thousand DWT) delivered during 2012-13.

1.7. Table depicts the size and number of ships delivered by both public and private ship yards in India during 2011-12 and 2012-13.

<b>Table No. 4 : Size and Number of Ships Delivered</b>				
<b>Name of the Company</b>	<b>Ship Delivered</b>			
	<b>2011-12</b>		<b>2012-13</b>	
	<b>No.</b>	<b>No.</b>	<b>No.</b>	<b>DWT('000)</b>
(1)	(4)	(4)	(4)	(5)
<b>A. PUBLIC SECTOR (Total)</b>	<b>18</b>	<b>353.4</b>	<b>31</b>	<b>258.59</b>
1. Alcock Ashdown & Co. Ltd.	-	-	1	0.13
2. Cochin Shipyard Ltd.	5	18.0	6	16.12
3. Garden Reach Ship- Builders & Engineers	5	276.0	4	240.00
4. Goa Shipyard Ltd.	3	0.1	15	1.04
5. Hindustan Shipyard Ltd.	3	53.2	1	0.18
6. Hooghly Dock & Port Engineers Ltd.	1	-	1	-
7. Mazagon Dock Ltd.	1	6.1	2	-
8. Shalimar Works Ltd.	-	-	1	1.12
<b>B. PRIVATE SECTOR (Total)</b>	<b>48</b>	<b>313.4</b>	<b>45</b>	<b>188.55</b>
9. Dempo Shipbuilding & Engineering Ltd.	11	17.50	11	21.90
10. ABG Shipyard Ltd.	15	98.3	5	38.90
11. Bharati Shipyard Ltd.	4	6.1	6	19.16
12. Chowgule & Co. Ltd.	4	19.5	4	20.05
13. Sesa Goa Ltd.	2	5.0	1	-
14. A.C.Roy & Comp. Ltd.	1	0.15	2	0.24
15. Bristol Boats	1	6.7	6	6.70
16. Tebma Shipyard Ltd.	3	2.9	5	2.90
17. Wadia Boat Builders	-	-	-	-
18. Larsen & Toubro Limited	3	7.0	-	-
19. Ferromar Shipping Pvt. Ltd.	1	1.20	1	1.20
20.N.N. Shipbuilder & Engineers Pvt. Ltd	1	-		
21.Pipavav	2	149.0	3	77.50
<b>Grand Total (A + B)</b>	<b>66</b>	<b>666.8</b>	<b>76</b>	<b>447.14</b>

**Table No. 1.1**

**Ship Building Capacity of the Company By Types & Size  
(As on 31st March, 2013)**

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, Passenger Vessels, Dredgers & Tugs 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	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, 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	12.00 3.00 0.10 -
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

**Table No. 1.1 (Contd..)****Ship Building Capacity of the Company By Types & Size  
(As on 31st March, 2013)**

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 (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 vehicle.	150.00	22.00	8.50	20.00
11	Bharati Shipyard Ltd.(BSL)	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) Multipurpose General Cargo Vessels (Loutolim Yard) (b) Multipurpose General Cargo Vessels (Rassaim Yard)	110.00 110.00	18.00 24.00	3.30 3.30	7.00 7.00
13	Ferromar Shipping Pvt. Ltd. @ (FSL)	Bulk Carrier	83.00	15.00	5.00	3.00
14	Sesa Goa Ltd.(SGL)	All types of vessels	80.00	15.00	9.10	-
15	A.C.Roy & Co. Ltd.(ACRL)	(a) Launch (b) Tug (c) 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	50.00 15.00
17	Tebma Shipyard Ltd. (TSL)	Offshore Vessels (PSV, MPSV, AHTs), Geo Technical Survey Vessels, Harbour crafts all type Tugs, Dredgers, Launches, Barges, Ferries, Cargo Vessels	90.00	21.00	6.00	12.00

**Table No. 1.1 (Contd..)** Ship Building Capacity of the Company By Types & Size  
(As on 31st March, 2013)

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	Wadia Boat Builders(WBB)	...	...	...	...	...
19	Larsen & Toubro Limited(L&T)	at Kattupalli, Tamil Nadu				
		a) Platform Supply/ Support Vessel	78.60	18.00	5.50	2.50
		b) Anchor Handling towage & Supply 90 tons	68.00	18.00	5.50	2.00
		c) Anchor Handling tonnage & Supply 150 tons	70.00	19.00	5.50	2.50
20	N N Shipbuilders and Engineers Pvt. Ltd(NNSE)	a)Tugs	40.00	10.00	2.30	-
		b) pontoons	40.00	12.00	4.00	-
		c) Ferry/Barges	30.00	10.00	2.30	-
21	Pipavav(PPV)	Cargo Ships, Offshore Vessels, Naval Vessels, & Others	350.00	63.00	-	400.00

\* 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.

**Table No. 1.2****Ship Building Capacity - By Company-wise  
(2009-10 to 2012-13)**

("000 DWT)

Name of The Company	2009-10	2010-11	2011-12	2012-13
(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.	26.00	26.00	0.60	0.55
4. Goa Shipyard Ltd.	0.40	10.00	4.50	4.50
5. Hindustan Shipyard Ltd.	70.00	70.00	70.00	80.00
6. Hooghly Dock & Port Engineers Ltd.	4.80	6.00	12.00	12.00
7. Mazagon Dock Ltd.	34.80	...	...	...
8. Shalimar Works Ltd.	1.00	1.20	1.20	1.20

**B. PRIVATE SECTOR**

9. Dempo Shipbuilding and Engineering Ltd.	2.80	2.80	5.50	5.50
10. ABG Shipyard Ltd.	20.00	20.00	20.00	20.00
11. Bharati Shipyard Ltd.	70.00	70.00	70.00	70.00
12. Chowgule & Co. Ltd.	40.00	5.50	5.65	7.00
13. Ferromar Shipping Pvt. Ltd. @	3.00	3.00	3.00	3.00
14. Sesa Goa Ltd.	...	-	-	-
15. A.C.Roy & Co. Ltd.	1.50	1.50	1.50	1.50
16. Bristol Boats	0.10	50.00	50.00	50.00
17. Tebma Shipyard Ltd.	5.00	12.00	12.00	12.00
18. Wadia Boat Builders	6.00	...	...	...
19. Larsen & Toubro Ltd.	...	...	...	2.50
20. N N Shipbuilders And Engineers Pvt Ltd	...	0.10	-	-
21. Pipavav	-	400.00	400.00	400.00

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

Table No. 1.3

**Ship Order Book Position by Type of Vessels  
(As on 31st March, 2013)**

('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.	-	-	-	-	-	-	-	-	-	-	1	1.50
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	18	3.84
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	9	4.08
5. Hindustan Shipyard Ltd.	-	-	-	-	2	106.00	-	-	-	-	13	4.29
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	1	-
8. Shalimar Works Ltd.	4	1.55	-	-	-	-	10	1.00	-	-	-	-
<b>Total</b>	<b>4</b>	<b>1.55</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>106.00</b>	<b>10</b>	<b>1.00</b>	<b>0</b>	<b>0.00</b>	<b>47</b>	<b>14.82</b>

**B. Private Sector**

9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	1	2.90
10.ABG Shipyard Ltd.	-	-	-	-	52	1707.00	-	-	-	-	4	1.50
11.Bharati Shipyard Ltd.	-	-	-	-	-	-	2	2.24	-	-	1	3.70
12.Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
13.Ferromar Shipping Pvt. Ltd.	-	-	-	-	1	2.00	-	-	-	-	-	-
14.Sesa Goa Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
15. A.C. Roy & Co. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
16.Bristol Boats	-	-	-	-	-	-	-	-	-	-	3	6.70
17.Tebma Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
18.Wadia Boat Builders	...	...	...	...	...	...	...	...	...	...	...	...
19.Larsen & Toubro Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
20. N N Shipbuilders and Engineers Pvt Ltd	-	-	-	-	-	-	-	-	-	-	4	-
21. Pipavav	-	-	-	-	-	-	-	-	-	-	5	9.00
<b>Total</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>53</b>	<b>1709.00</b>	<b>2</b>	<b>2.24</b>	<b>0</b>	<b>0.00</b>	<b>18</b>	<b>23.80</b>
<b>Total (A + B)</b>	<b>4</b>	<b>1.55</b>	<b>0</b>	<b>0.00</b>	<b>55</b>	<b>1815.00</b>	<b>12</b>	<b>3.24</b>	<b>0</b>	<b>0.00</b>	<b>65</b>	<b>38.62</b>

Table No. 1.3 (Contd.)

**Ship Order Book Position by Type of Vessels  
(As on 31st March, 2013)**

('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.	-	-	-	-	-	-	-	-	21	1.10	22	2.60
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	18	3.84
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	10	0.09	19	4.17
5. Hindustan Shipyard Ltd.	2	0.44	-	-	-	-	-	-	12	1.56	29	112.29
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	6	0.36	-	-	6	0.36
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	14	-	15	0.00
8. Shalimar Works Ltd.	-	-	-	-	-	-	-	-	-	-	14	2.55
<b>Total</b>	<b>2</b>	<b>0.44</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>6</b>	<b>0.36</b>	<b>57</b>	<b>2.75</b>	<b>128</b>	<b>126.92</b>

**B. Private Sector**

9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	2	3.15	3	6.05
10. ABG Shipyard Ltd.	-	-	-	-	31	77.76	-	-	-	-	87	1786.26
11. Bharati Shipyard Ltd.	32	3.39	-	-	1	2.00	-	-	-	-	36	11.33
12. Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	1	3.32	1	3.32
13. Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	1	2.00
14. Sesa Goa Ltd.	-	-	-	-	-	-	-	-	-	-	0	0.00
15. A.C. Roy & Co. Ltd.	-	-	-	-	-	-	-	-	1	0.25	1	0.25
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	3	6.70
17. Tebma Shipyard Ltd.	6	...	...	...	...	...	...	...	1	...	7	-
18. Wadia Boat Builders	...	...	...	...	...	...	...	...	...	...	-	-
19. Larsen & Toubro Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
20. N N Shipbuilders and Engineers Pvt Ltd	-	-	-	-	-	-	-	-	-	-	4	-
21. Pipavav	-	-	-	-	10	15.00	-	-	-	-	15	24.00
<b>Total</b>	<b>38</b>	<b>3.39</b>	<b>0</b>	<b>0.00</b>	<b>42</b>	<b>94.76</b>	<b>0</b>	<b>0.00</b>	<b>5</b>	<b>6.72</b>	<b>158</b>	<b>1839.91</b>
<b>Total (A + B)</b>	<b>40</b>	<b>3.83</b>	<b>0</b>	<b>0.00</b>	<b>42</b>	<b>94.76</b>	<b>6</b>	<b>0.36</b>	<b>62</b>	<b>9.47</b>	<b>286</b>	<b>1966.83</b>

Table No. 1.3 (Contd.)

Ship Order Book Position by Type of Vessels  
(As on 31st March, 2013)

('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	12.00
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	1	0.40
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
5. Hindustan Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
8. Shalimar Works Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>12.40</b>								

**B. Private Sector**

9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
10. ABG Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
11. Bharati Shipyard Ltd.	-	-	5	25.90	6	120.00	-	-	4	25.00	-	-
12. Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
13. Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
14. Sesa Goa Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
15. A.C. Roy & Co. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	-	-
17. Tebma Shipyard Ltd.	...	...	...	...	...	...	...	...	...	...	5	13.10
18. Wadia Boat Builders	...	...	...	...	...	...	...	...	...	...	...	...
19. Larsen & Toubro Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
20. N N Shipbuilders and Engineers Pvt Ltd	-	-	-	-	-	-	-	-	-	-	-	-
21. Pipavav	-	-	18	1341.00	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.00</b>	<b>23</b>	<b>1366.90</b>	<b>6</b>	<b>120.00</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>25.00</b>	<b>5</b>	<b>13.10</b>
<b>Total (A + B)</b>	<b>0</b>	<b>0.00</b>	<b>23</b>	<b>1366.90</b>	<b>6</b>	<b>120.00</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>25.00</b>	<b>9</b>	<b>25.50</b>

Table No. 1.3 (Contd.)

Ship Order Book Position by Type of Vessels  
(As on 31st March, 2013)

('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.	-	-	-	-	-	-	-	-	-	-	-	3	12
3. Garden Reach Ship-builders and Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	1	0.40
4. Goa Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
5. Hindustan Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
7. Mazagon Dock Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
8. Shalimar Works Ltd.	-	-	-	-	-	-	-	-	-	-	-	0	0
<b>Total</b>	<b>0</b>	<b>4</b>	<b>12.4</b>										

**B. Private Sector**

9. Dempo Shipbuilding & Engineering Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
10. ABG Shipyard Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
11. Bharati Shipyard Ltd.	-	-	-	-	13	41.18	-	-	-	-	-	28	212.08
12. Chowgule Shipping Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
13. Ferromar Shipping Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
14. Sesa Goa Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
15. A.C. Roy & Co. Ltd.	-	-	-	-	-	-	-	-	-	-	-	--	-
16. Bristol Boats	-	-	-	-	-	-	-	-	-	-	-	--	-
17. Tebma Shipyard Ltd.	...	...	...	...	...	...	...	...	...	...	...	5	13.10
18. Wadia Boat Builders	...	...	...	...	...	...	...	...	...	...	...	--	-
19. Larsen & Toubro Ltd.	-	-	-	-	10	2.50	-	-	-	-	-	10	2.50
20. N N Shipbuilders and Engineers Pvt Ltd	-	-	-	-	-	-	-	-	-	-	-	--	-
21. Pipavav	-	-	-	-	-	-	-	-	-	-	-	18	1341.00
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>43.68</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61</b>	<b>1568.68</b>
<b>Total (A + B)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>43.68</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65</b>	<b>1581.08</b>

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

**Total Ship Order Book of Vessels by Domestic Order and  
by Export Order (As on 31st March, 2013)**

(’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.	22	2.60	3	12.00	25	14.60
3. Garden Reach Ship-builders and Engineers Ltd.	18	3.84	1	0.40	19	4.24
4. Goa Shipyard Ltd.	19	4.17	0	0.00	19	4.17
5. Hindustan Shipyard Ltd.	29	112.29	0	0.00	29	112.29
6. Hooghly Dock & Port Engineers Ltd.	6	0.36	0	0.00	6	0.36
7. Mazagon Dock Ltd.	15	-	-	-	15	-
8. Shalimar Works Ltd.	14	2.55	0	0.00	14	2.55
<b>Total</b>	<b>128</b>	<b>126.92</b>	<b>4</b>	<b>12.40</b>	<b>132</b>	<b>139.32</b>

**B. Private Sector**

9. Dempo Shipbuilding & Engineering Ltd.	3	6.05	0	0.00	3	6.05
10. ABG Shipyard Ltd.	87	1786.26	0	0.00	87	1786.26
11. Bharati Shipyard Ltd.	36	11.33	28	212.08	64	223.41
12. Chowgule Shipping Ltd.	1	3.32	0	0.00	1	3.32
13. Ferromar Shipping Pvt. Ltd.	1	2.00	0	0.00	1	2.00
14. Sesa Goa Ltd.	0	0.00	0	0.00	0	0.00
15. A.C. Roy & Co. Ltd.	1	0.25	0	0.00	1	0.25
16. Bristol Boats	3	6.70	0	0.00	3	6.70
17. Tebma Shipyard Ltd.	7	-	5	13.10	12	13.10
18. Wadia Boat Builders	0	0.00	0	0.00	0	0.00
19. Larsen & Toubro Ltd.	0	0.00	10	2.50	10	2.50
20. N N Shipbuilders and Engineers Pvt Ltd	4	0.00	0	-	4	-
21. Pipavav	15	24.00	18	1341.00	33	1365.00
<b>Total</b>	<b>158</b>	<b>1839.91</b>	<b>61</b>	<b>1568.68</b>	<b>219</b>	<b>3408.59</b>
<b>Total (A + B)</b>	<b>286</b>	<b>1966.83</b>	<b>65</b>	<b>1581.08</b>	<b>351</b>	<b>3547.91</b>

**Table No. 1.4****No. of Ships on Order - Company-wise  
2010-2013**

Name of the Company	As on 31st March			
	2010	2011	2012	2013
(1)	(2)	(3)	(4)	(5)
<b><u>A. PUBLIC SECTOR (Total)</u></b>	<b>199</b>	<b>136</b>	<b>134</b>	<b>132</b>
1. Alcock Ashdown (Gujarat) Ltd.	11	11	6	5
2. Cochin Shipyard Ltd.	17	34	30	25
3. Garden Reach Ship-Building & Engineers Ltd.	58	16	19	19
4. Goa Shipyard Ltd.	62	7	12	19
5. Hindustan Shipyard Ltd.	13	23	22	29
6. Hooghly Dock & Port Engineers Ltd.	14	12	13	6
7. Mazagaon Dock Ltd.	16	16	17	15
8. Shalimar Works Ltd.	8	17	15	14
<b><u>B. PRIVATE SECTOR (Total)</u></b>	<b>221</b>	<b>286</b>	<b>271</b>	<b>219</b>
9. Dempo Shipbuilding and Engg. Ltd.	16	11	11	3
10. ABG Shipyard Ltd.	84	84	86	87
11. Bharati Shipyard Ltd.	56	67	65	64
12. Chowgule & Co. Ltd.	18	12	0	1
13. Ferromar Shipping Pvt. Ltd. @	2	2	1	1
14. Sesa Goa Ltd.	-	2	0	0
15. A.C.Roy & Co. Ltd.	2	1	4	1
16. Bristol Boats	10	10	9	3
17. Tebma Shipyard Ltd.	20	17	15	12
18. Wadia Boat Builders	6	...	...	...
19. Larsen & Toubro Limited	7	40	40	10
20. N N Shipbuilders and Engineers Pv	...	2	4	4
21. Pipavav	-	38	36	33
<b><u>C. Total (A + B)</u></b>	<b>420</b>	<b>422</b>	<b>405</b>	<b>351</b>

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

**Table No. 1.5****Size And Number Of Ships Delivered, Company-wise  
(2009-10 to 2012-13)**

Name of the Company (1)	Year (2)	Ship Delivered		Size ('000 DWT)	
		No. (3)	DWT('000) (4)	Maximum (5)	Minimum (6)
<b>A. PUBLIC SECTOR (Total)</b>	<b>2012-13</b>	<b>31</b>	<b>258.59</b>		
	<b>2011-12</b>	<b>18</b>	<b>353.44</b>		
	<b>2010-11</b>	<b>114</b>	<b>416.20</b>		
	<b>2009-10</b>	<b>23</b>	<b>172.30</b>		
1. Alcock Ashdown (Gujarat) Ltd.	2012-13	1	0.13	0.13	0.13
	2011-12	-	-	-	-
	2010-11	-	-	-	-
	2009-10	2	4.30	3.00	1.30
2. Cochin Shipyard Ltd.	2012-13	6	16.12	4.00	2.00
	2011-12	5	18.00	4.00	2.00
	2010-11	6	19.50	3.30	3.30
	2009-10	5	16.30	3.30	3.30
3. Garden Reach Ship-Builders and Engineers Ltd.	2012-13	4	240.00	60.00	60.00
	2011-12	5	276.00	60.00	52.00
	2010-11	47	276.90	60.00	1.68
	2009-10	2	120.00	60.00	60.00
4. Goa Shipyard Ltd.	2012-13	15	1.04	0.43	0.00
	2011-12	3	0.10	0.10	0.00
	2010-11	56	0.50	0.30	,-
	2009-10	6	0.50	0.30	-
5. Hindustan Shipyard Ltd.	2012-13	1	0.18	0.18	0.18
	2011-12	3	53.24	53.00	0.06
	2010-11	2	107.70	53.80	53.80
	2009-10	3	30.50	30.20	0.10
6. Hooghly Dock & Port Engineers Ltd.	2012-13	1	-	-	-
	2011-12	1	-	-	-
	2010-11	-	-	-	-
	2009-10	1	0.30	0.30	0.30
7. Mazagon Dock Ltd.	2012-13	2	-	-	-
	2011-12	1	6.10	6.10	6.10
	2010-11	3	11.60	6.10	1.50
	2009-10	3	-	-	-
8. Shalimar Works Ltd.	2012-13	1	1.12	1.12	1.12
	2011-12	-	-	-	-
	2010-11	-	-	-	-
	2009-10	1	0.40	0.40	0.40

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

**Size And Number Of Ships Delivered, Company-wise  
(2009-10 to 2012-13)**

Name of the Company	Year	Ship Delivered		Size ('000 DWT)	
		No.	DWT('000)	Maximum	Minimum
(1)	(2)	(3)	(4)	(5)	(6)
<b>B. PRIVATE SECTOR (Total)</b>	<b>2012-13</b>	<b>45</b>	<b>188.55</b>		
	<b>2011-12</b>	<b>48</b>	<b>313.35</b>		
	<b>2010-11</b>	<b>45</b>	<b>88.10</b>		
	<b>2009-10</b>	<b>58</b>	<b>73.20</b>		
9. Dempo Shipbuilding & Engineering Ltd.	2012-13	11	21.90	2.20	1.05
	2011-12	11	17.50	3.00	1.70
	2010-11	12	23.40	2.20	1.80
	2009-10	23	14.30	2.20	1.80
10. ABG Shipyard Ltd.	2012-13	5	38.90	32.00	1.50
	2011-12	15	98.30	32.00	0.10
	2010-11	16	17.40	1.80	1.10
	2009-10	13	19.90	2.90	0.90
11. Bharati Shipyard Ltd.	2012-13	6	19.16	5.00	Neg.
	2011-12	4	6.10	2.00	0.10
	2010-11	5	20.40	6.30	2.30
	2009-10	5	4.10	2.10	0.10
12. Chowgule & Co. Ltd.	2012-13	4	20.05	5.65	4.75
	2011-12	4	19.50	5.60	4.40
	2010-11	4	17.80	4.50	4.50
	2009-10	5	22.30	4.50	4.50
13. Ferronar Shipping Pvt. Ltd. @	2012-13	1	1.20	1.20	0.00
	2011-12	1	1.20	1.20	0.00
	2010-11	1	1.20	1.20	1.20
	2009-10	1	2.00	2.00	2.00
14. Sesa Goa Ltd.	2012-13	1	-	-	-
	2011-12	2	5.00	2.50	2.50
	2010-11	2	4.60	2.30	2.30
	2009-10	-	-	-	-
15. A.C.Roy & Comp. Ltd.	2012-13	2	0.24	0.12	0.12
	2011-12	1	0.15	0.15	0.15
	2010-11	2	0.20	0.10	0.10
	2009-10	5	0.60	0.10	0.10
16. Bristol Boats	2012-13	6	6.70	6.70	6.70
	2011-12	1	6.70	6.70	6.70
	2010-11	-	-	-	-
	2009-10	-	-	-	-

**Table No. 1.5  
Contd...****Size And Number Of Ships Delivered, Company-wise  
(2009-10 to 2012-13)**

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.	2012-13	5	2.90	2.90	2.90
	2011-12	3	2.90	2.90	2.90
	2010-11	3	3.10	3.00	0.10
	2009-10	5	3.10	3.10	3.10
18. Wadia Boat Builders	2012-13	-	-	-	-
	2011-12	-	-	-	-
	2010-11	...	...	...	...
	2009-10	-	-	-	-
19. Larsen & Toubro Limited	2012-13	6	6	6	6
	2011-12	3	7.00	7.00	7.00
	2010-11	...	...	...	...
	2009-10	1	6.90	6.90	6.90
20. N N Shipbuilders and Engineers Pvt Lt	2012-13	1	...	...	...
	2011-12	1	...	...	...
	2010-11	...	...	...	...
	2009-10	...	...	...	...
21. Pipava <sup>#</sup>	2012-13	3	77.50	74.50	1.50
	2011-12	2	149.00	74.50	74.50
	2010-11	-	-	-	-
<b>C. Grand Total (A + B)</b>	<b>2012-13</b>	<b>76</b>	<b>447.14</b>		
	<b>2011-12</b>	<b>66</b>	<b>666.79</b>		
	<b>2010-11</b>	<b>159</b>	<b>504.30</b>		
	<b>2009-10</b>	<b>81</b>	<b>245.50</b>		

# Vessel deliveries commenced in F.Y. 2011-12

**Table No. 1.6****No. Of Ships On Order And Number Of Ships Delivered -  
Company-wise (2009-10 to 2012-13)**

Name of The Company	No. of Ships On Order During the year				Ships Delivered During the year			
	2009-10	2010-11	2011-12	2012-13	2009-10	2010-11	2011-12	2012-13
1	2	3	4	5	6	7	8	9
<b><u>A. PUBLIC SECTOR</u></b>	<b>199</b>	<b>136</b>	<b>134</b>	<b>132</b>	<b>25</b>	<b>114</b>	<b>18</b>	<b>31</b>
1. Alcock Ashdown (Gujarat) Ltd.	11	11	6	5	2	-	-	1
2. Cochin Shipyard Ltd.	17	34	30	25	5	6	5	6
3. Garden Reach Shipbuilders & Eng.	58	16	19	19	4	47	5	4
4. Goa Shipyard Ltd.	62	7	12	19	6	56	3	15
5. Hindustan Shipyard Ltd.	13	23	22	29	3	2	3	1
6. Hooghly Dock & Port Engineers Ltc	14	12	13	6	1	-	1	1
7. Mazagon Dock Ltd.	16	16	17	15	3	3	1	2
8. Shalimar Works Ltd.	8	17	15	14	1	-	-	1
<b><u>B. PRIVATE SECTOR</u></b>	<b>221</b>	<b>286</b>	<b>271</b>	<b>219</b>	<b>58</b>	<b>45</b>	<b>48</b>	<b>45</b>
9. Dempo Shipbuilding & Engg. Ltd.	16	11	11	3	23	12	11	11
10. ABG Shipyard Ltd.	84	84	86	87	13	16	15	5
11. Bharati Shipyard Ltd.	56	67	65	64	5	5	4	6
12. Chowgule & Co. Ltd.	18	12	0	1	5	4	4	4
13. Ferromar Shipping Pvt. Ltd. ®	2	2	1	1	1	1	1	1
14. Sesa Goa Ltd.	-	2	0	0	-	2	2	1
15. A.C.Roy & Comp. Ltd.	2	1	4	1	5	2	1	2
16. Bristol Boats	10	10	9	3	-	-	1	6
17. Tebma Shipyard Ltd.	20	17	15	12	5	3	3	5
18. Wadia Boat Builders	6	0	0	0	-	-	0	
19. Larsen & Toubro Limited	7	40	40	10	1	-	3	-
20. N N Shipbuilders and Engineers F	-	2	4	4	-	-	1	1
21. Pipavav <sup>#</sup>	-	38	36	33	-	-	2	3
<b><u>TOTAL (A+B)</u></b>	<b>420</b>	<b>422</b>	<b>405</b>	<b>351</b>	<b>83</b>	<b>159</b>	<b>66</b>	<b>76</b>

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

# Vessel deliveries are commenced in F.Y. 2011-12

Table No. 1.7

## No. Of Ships - By Keel Laid, Launched And Ships Under Construction, Company-wise (2009-10 to 2012-13)

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)
<b>A. PUBLIC SECTOR</b>					
1. Alcock Ashdown (Gujarat) Ltd.	2012-13	5	-	5	-
	2011-12	-	-	-	-
	2010-11	-	-	-	-
	2009-10	11	3	9	-
2. Cochin Shipyard Ltd.	2012-13	18	3	-	6
	2011-12	25	2	-	3
	2010-11	21	-	-	7
	2009-10	6	3	-	2
3. Garden Reach Ship-building & Engineers Ltd.	2012-13	1	4	1	2
	2011-12	4	4	2	1
	2010-11	10	2	-	4
	2009-10	10	6	6	50
4. Goa Shipyard Ltd.	2012-13	2	-	-	3
	2011-12	-	-	-	6
	2010-11	-	-	-	61
	2009-10	-	-	3	25
5. Hindustan Shipyard Ltd.	2012-13	2	-	4	5
	2011-12	6	-	-	6
	2010-11	5	-	-	8
	2009-10	6	1	-	3
6. Hooghly Dock & Port Engineers Ltd.	2012-13	4	-	4	-
	2011-12	4	-	4	-
	2010-11	10	-	10	-
	2009-10	12	2	10	2
7. Mazagon Dock Ltd.	2012-13	3	3	-	-
	2011-12	-	-	3	3
	2010-11	-	6	-	6
	2009-10	7	7	-	7
8. Shalimar Works Ltd.	2012-13	1	-	5	4
	2011-12	2	-	6	2
	2010-11	17	-	8	2
	2009-10	8	-	8	-
<b>B. PRIVATE SECTOR</b>					
9. Dempo Shipbuilding & Engineering Ltd.	2012-13	3	-	-	-
	2011-12	9	1	-	1
	2010-11	5	-	-	-
	2009-10	4	-	-	7
10. ABG Shipyard Ltd.	2012-13	-	-	-	-
	2011-12	-	-	-	-
	2010-11	-	-	-	-
	2009-10	-	-	-	-

Table No. 1.7(Contd...)

## No. Of Ships - By Keel Laid, Launched And Ships Under Construction, Company-wise (2008-09 to 2011-12)

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)
11. Bharati Shipyard Ltd.	2012-13	12	4	43	9
	2011-12	4	6	38	15
	2010-11	5	14	7	16
	2009-10	10	6	26	15
12. Chowgule & Co. Ltd.	2012-13	1	-	-	1
	2011-12	8	4	2	2
	2010-11	-	-	-	-
	2009-10	4	3	4	2
13. Ferromar Shipping Pvt. Ltd.®	2012-13	1	-	-	-
	2011-12	1	-	-	-
	2010-11	2	-	-	-
	2009-10	2	-	-	-
14. Sesa Goa Ltd.	2012-13	-	-	-	-
	2011-12	-	-	-	-
	2010-11	2	1	-	1
	2009-10	-	-	-	-
15. A. C. Roy & Comp. Ltd.	2012-13	1	-	-	1
	2011-12	4	-	4	-
	2010-11	1	-	1	-
	2009-10	2	-	2	-
16. Bristol Boats	2012-13	-	-	3	-
	2011-12	-	-	5	-
	2010-11	-	-	2	-
	2009-10	-	-	-	-
17. Tebma Shipyard Ltd.	2012-13	7	2	8	-
	2011-12	5	3	7	-
	2010-11	4	3	1	...
	2009-10	8	5	6	5
18. Wadia Boat Builders	2012-13	-	-	-	-
	2011-12	-	-	-	-
	2010-11	-	-	-	-
	2009-10	21	-	-	-
19. Larsen & Toubro Limited	2012-13	4	-	-	-
	2011-12	2	1	5	2
	2010-11	4	-	4	-
	2009-10	4	1	3	1
20. N N Shipbuilders and Engineers Pvt Ltd	2012-13	...	...	4	...
	2011-12	...	...	4	...
	2010-11	...	...	1	...
	2009-10	...	...	...	...
21. Pipavav	2012-13	-	-	-	-
	2011-12	-	-	-	-
	2010-11	-	-	-	0

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

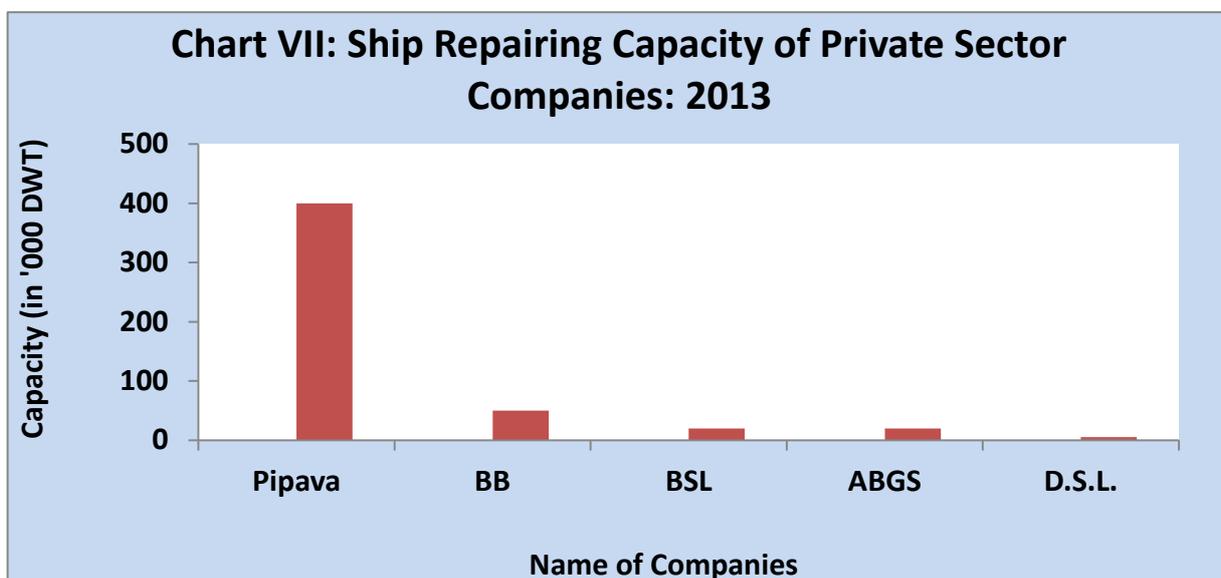
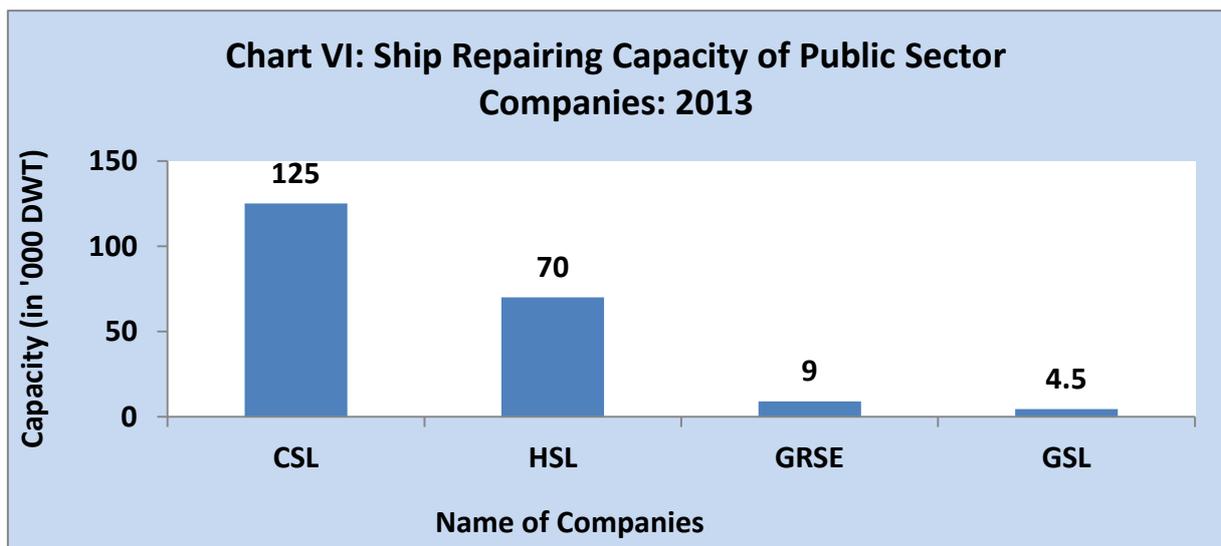
## **Section-2**

# **INDIA'S SHIP-REPAIRING INDUSTRY**

## 2. INDIA'S SHIP-REPAIRING INDUSTRY

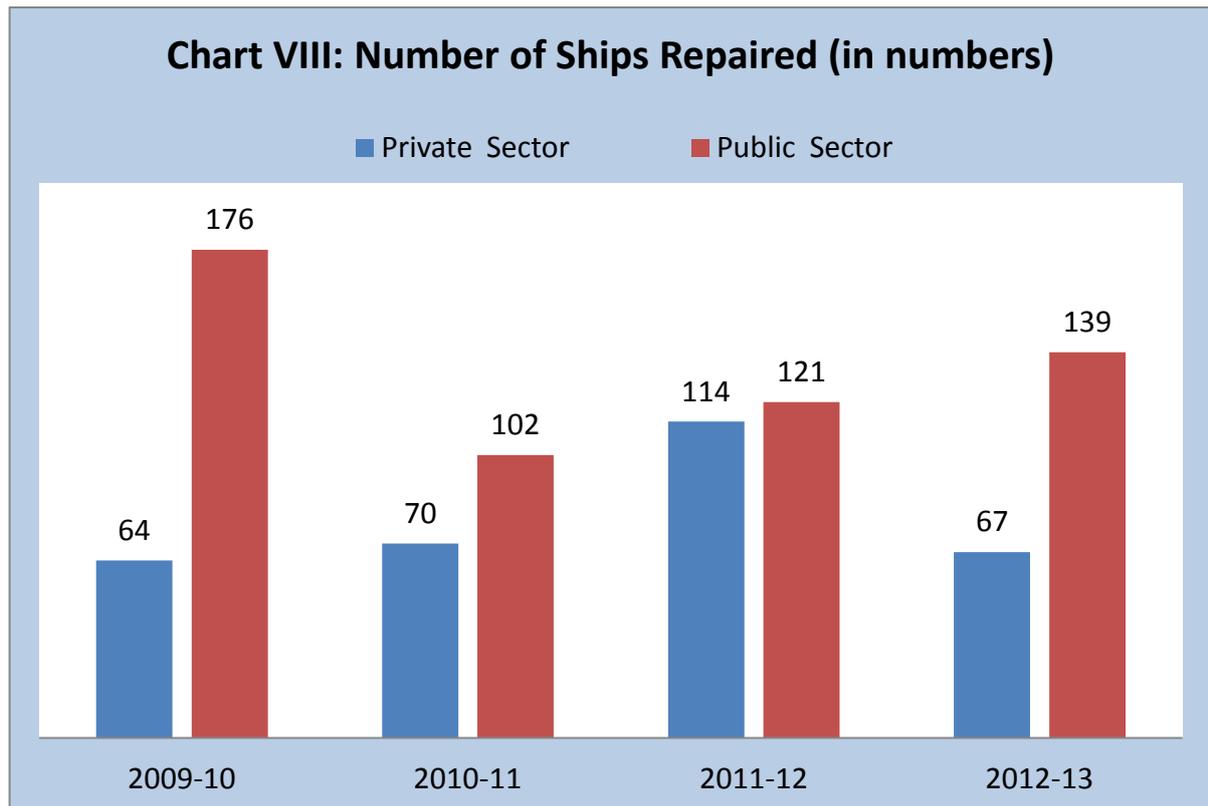
2.1. Ship repair capacity essentially reflects capability in terms of the number of ships repaired and maximum size of ship that can be repaired in terms of DWT.

2.2. Amongst public sector companies, Cochin Shipyard Ltd had the highest capacity for ship repairing (125 thousand DWT) followed by Hindustan Shipyard Ltd. (70 thousand DWT) and Garden Reach Ship Building and Engineering Ltd (9 thousand DWT) in 2012-13. In private sector category, Pipavav had the highest capacity for ship repairing (400 thousand DWT) followed by Bristol Boat (50 thousand DWT), ABG shipyard Ltd & Bharati Shipyard Ltd had 20 thousand DWT ship-repairing capacities each and Dempo Shipbuilding and Engineering Ltd. had 5.5 thousand DWT ship-repairing capacity. Charts VII & VIII depict the ship repairing capacity of major public and private sector shipbuilding yards as on 31<sup>st</sup> March 2013.



## NUMBER OF SHIPS REPAIRED

2.3. In 2012-13, total 206 ships were repaired by private (67 ships) and public (139 ships) sector shipyards against 235 in 2011-12 recording a decline of 12.3 % over the previous year. No foreign vessels have been repaired by Private sector shipyards during the last 4 years. Chart-IX given below depicts comparative picture of the number of ships repaired by all public and private sector shipbuilding yards during 2009-10 to 2012-13.



2.4. In 2012-13, amongst the Public sector, Cochin Shipyard Ltd had repaired the highest number of ships (77 ships with earning of Rs. 286.57 crore) followed by Goa Shipyard Ltd. (33 ships with earning Rs 88.98 crore). In the private sector, A.C. Roy & Co. Ltd had the highest number of ships repaired (29 ships with earning Rs 2.21 crore) followed by Dempo Shipbuilding and Engineering Ltd (24 ships repaired with an earning of Rs 4.47 crore) and Sesa Goa Ltd (13 ships repaired with an earning of Rs 5.39 crore).

2.5. Table 5 depicts the number of ships repaired and earnings by both public and private shipyards in India during 2011-12 and 2012-13.

<b>Table No. 5 : Number of Ships Repaired and Earnings</b>												
<b>Name of The Company</b>	<b>2011-12</b>						<b>2012-13</b>					
	<b>Indian Vessels</b>		<b>Foreign Vessels</b>		<b>Total Vessels</b>		<b>Indian Vessels</b>		<b>Foreign Vessels</b>		<b>Total Vessels</b>	
	S	E	S	E	S	E	S	E	S	E	S	E
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>	<b>(6)</b>	<b>(7)</b>	<b>(8)</b>	<b>(9)</b>	<b>(10)</b>	<b>(11)</b>	<b>(12)</b>	<b>(13)</b>
<b>A. PUBLIC SECTOR (Total)</b>	<b>118</b>	<b>38269.53</b>	<b>3</b>	<b>365.89</b>	<b>121</b>	<b>38635.42</b>	<b>118</b>	<b>38269.53</b>	<b>3</b>	<b>365.89</b>	<b>121</b>	<b>38635.42</b>
1. Alcock Ashdown & Co. Ltd.*	-	-	-	-	-	-	-	-	-	-	-	-
2. Cochin Shipyard Ltd.	79	14535.92	-	-	79	14535.92	79	14535.92	-	-	79	14535.92
3. Garden Reach Ship-Builders & Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
4. Goa Shipyard Ltd.	19	4726.78	1	31.89	20	4758.67	19	4726.78	1	31.89	20	4758.67
5. Hindustan Shipyard Ltd.	15	18831.00	2	334.00	17	19165.00	15	18831.00	2	334.00	17	19165.00
6. Hooghly Dock & Port Engineers Ltd.	-	-	-	-	-	-	-	-	-	-	-	-
7. Mazagon Dock Ltd.**	-	-	-	-	-	-	-	-	-	-	-	-
8. Shalimar Works Ltd.	5	175.83	-	-	5	175.83	5	175.83	-	-	5	175.83
<b>B. PRIVATE SECTOR (Total)</b>	<b>114</b>	<b>2596.32</b>	<b>0</b>	<b>0.00</b>	<b>114</b>	<b>2596.32</b>	<b>114</b>	<b>2596.32</b>	<b>0</b>	<b>0.00</b>	<b>114</b>	<b>2596.32</b>
9. Dempo Ship – building & Engg. Ltd.	55	1025.57	-	-	55	1025.57	55	1025.57	-	-	55	1025.57
10. ABG Shipyard Ltd.	...	132.00	-	-	...	132.00	...	132.00	-	-	...	132.00
11. Bharati Shipyard Pvt. Ltd.	1	58.50	-	-	1	58.50	1	58.50	-	-	1	58.50
12. Sesa Goa Ltd.	22	1086.49	-	-	22	1086.49	22	1086.49	-	-	22	1086.49
13. A.C.Roy & Co. Ltd.	31	268.51	-	-	31	268.51	31	268.51	-	-	31	268.51
14. Wadia Boat Builders	-	-	-	-	-	-	-	-	-	-	-	-
15. Bristol Boats	1	25.25	-	-	1	25.25	1	25.25	-	-	1	25.25
16. Ferromar Shipping Pvt. Ltd.	4	...	...	...	4	0.00	4	...	...	...	4	0.00
17. Larsen & Toubro Limited	-	-	-	-	-	-	-	-	-	-	-	-
<b>Grand Total (A + B)</b>	<b>232</b>	<b>40865.85</b>	<b>3</b>	<b>365.89</b>	<b>235</b>	<b>42131.74</b>	<b>232</b>	<b>40865.85</b>	<b>3</b>	<b>365.89</b>	<b>235</b>	<b>42131.74</b>

Note S : No. of Ships ; E : Earnings in Rs. Lakh

\* Data not available for the years 2010-11 and 2011-12

\*\* MDL has not carried out any ship-repairing work during 2010-11 and 2011-12

## **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), followed by Mumbai, Visakhapatnam Ports, Kandla, Mormugao, Cochin, Paradip and V.O. Chidambaranar (1 Dry Dock each). The remaining major Ports do not have any ship repairing facilities. With regard to cranes availability and capacity, Kolkata port has five cranes followed by Mormugao (4 in number) and Mumbai ports (2 in number).

## **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, 2013)**

Sl. No.	Name of the company	Type of Vessels/ Ships	Ship repair capacity/Maximum size capacity			
			Length (Mts.)	Width (Mts.)	Draft (Mts)	DWT ('000)
1	2	3	4	5	6	7.00
<b>A. PUBLIC SECTOR</b>						
1	Alcock Ashdown (Gujarat) Ltd. <sup>a</sup>	-	-	-	-	-
2	Cochin Shipyard Ltd.	All Type of Vessels	270.0	40.0	7.0	125.00
3	Garden Reach Shipbuilders and Engineers Ltd.	All types of diesel propulsion vessels	120.0	17.0	5.0	9.00
4	Goa Shipyard Ltd.	Advanced Offshore Petrol Vessels, Fast Patrol Vessels. Fast Attack Crafts, Survey Vessels, Sail Training Ships, Missile Crafts, Landing Crafts, Tugs, Dredgers, Launches, Passenger Ferries, Fishing Vessels, GRP boats, medium sized sophisticated vessels	120.0	20.0	5.0	4.50
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	70.00
6	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	- - -
7	Mazagon Dock Ltd.	Presently MDL is not carrying out any ship-repairing work.				
8	Shalimar Works Ltd.	Survey vessel Tug/Launch	55.0 10.0	11.0 4.0	3.0 1.5	0.70 0.20
<b>B. PRIVATE SECTOR (Contd.)</b>						
9	Dempo Shipbuilding and Engineering Ltd.	a) MBC/Barges/Hopper Barges b) Pilot Launches c) Tugs	85.0 - -	16.0 - -	2.2 2.2 2.2	5.50 - -
10	ABG Shipyard Ltd.	Anchor Handling Tugs, Supply Vessels, Offshore Support Vessels, Bulk Carriers, Tankers, Floating Cranes, Special Purpose Vessels, Tugs	150.0	22.0	8.5	20.00

Table No. 2.1 (Contd.)

**Ship Repairing Capacity Of The Company**  
(As on 31st March, 2013)

Sl. No.	Name of the company	Type of Vessels/ Ships	Ship repair capacity/Maximum size capacity			
			Length (Mts.)	Width (Mts.)	Draft (Mts)	DWT ('000)
1	2	3	4	5	6	7.00
11	Bharati Shipyard 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	20.00
12	Chowgule & Company Ltd. <sup>§</sup>	-	-	-	-	-
13	Ferromar Shipping Pvt. Ltd. *	Bulk Carrier	83.0	15.0	5.0	3.00
14	A.C. Roy & Co. Ltd.	a) Launch b) Barge c) Tug	25.0 60.0 20.0	7.0 16.0 6.0	2.0 3.5 2.0	0.03 2.00 0.03
15	Bristol Boats	Various FRP crafts, life Boats and Rescue Boats	20.0	5.0	4.0	50.00
16	Wadia Boat Builders	Yacht Work Boat Fishing Boat	- - -	- - -	- - -	- - -
17	Larsen & Toubro Limited	At Kattupalli, Tamil Nadu a) On Dry berth b) Wet berths	200.0 250.0	42.0 46.0	10.0 12.0	0.07 0.09
18	Sesa Goa Ltd.	All types of vessels.	80.0	15.0	9.1	-
19	Tebma Shipyard Ltd.	ō	ō	ō	ō	ō
20	N N Shipbuilders and Engineers Pvt Ltd	a) Tugs/Pontoons b) Small Ships c) Barges	30.0 - 30.0	10.0 12.0 -	2.3 2.0 2.3	- - -
21	Pipavav	Cargo Ships, Offshore Vessels, Naval Vessels, & Others	350	63	-	400.00

a. No ship-repairing work is undertaken.

§ Chowgule & Co. Ltd. did not undertake repairs.

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

**Table No. 2.2****Ship Repairing Capacity-By Company and Maximum Size (2010-2013)**

('000 DWT)

Name of The Company	As on end 31st March			
	2010	2011	2012	2013
1	2	3	4	5.00
<b>A. PUBLIC SECTOR</b>				
1. Alcock Ashdown (Gujarat) Ltd.	-	-	-	-
2. Cochin Shipyard Ltd.	125.0	125.0	125.0	125.00
3. Garden Reach Shipbuilders & Engineers Ltd	26.0	26.0	9.0	9.00
4. Goa Shipyard Ltd.	0.4	10.0	4.5	4.50
5. Hindustan Shipyard Ltd.	80.0	80.0	80.0	70.00
6. Hooghly Dock & Port Enginers Ltd.	-	-	-	-
7. Mazagon Dock Ltd.	27.0	-	-	-
8. Shalimar Works Ltd.	1.0	0.7	0.7	0.70
<b>B. PRIVATE SECTOR</b>				
9. Dempo Shipbuilding & Engineering Ltd.	3.0	3.0	5.5	5.50
10. ABG Shipyard Ltd.	20.0	20.0	20.0	20.00
11. Bharati Shipyard Ltd.	20.0	20.0	20.0	20.00
12. Chowgule & Co. Ltd.	-	-	-	-
13. Ferromar Shipping Pvt. Ltd. ®	3.0	3.0	3.0	3.00
14. Sesa Goa Ltd.	...	...	...	...
15. A.C Roy & Comp. Ltd.	3.0	2.0	2.0	2.00
16 Bristol Boats	0.1	0.1	50.0	50.00
17. Wadia Boat Builders	5.0	...	...	...
18. Tebma Shipyards Ltd.	5.5	...	...	...
19. Larsen & Toubro Limited	0.3	-	-	0.09
20. N N Shipbuilders and Engineers Pvt Ltd	0	0.5	-	-
21. Pipavav	-	-	400.0	400.00

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



Table No. 2.3a

**Ship Repairing Facilities-Company-Wise  
(As On 31st March, 2013)**

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)
<b>A. PUBLIC SECTOR</b>							
1	Alcock Ashdown (Gujarat) Ltd. <sup>a</sup>	-	-	-	-	-	-
2	Cochin Shipyard Ltd.	Slave Dock	1	86.0	18.0	-	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	Under Construction			
		River Jetty-Dolphin 2	1	Under Construction			
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
		Fitting Out Jetty	1	160.0	12.0	4.5	-
		New Jetty	1	250.0	16.0	5.5	-
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. <sup>b</sup>	-	-	-	-	-	-
8	Shalimar Works Ltd.	Kuchha Basin	2	-	-	-	-
		Fitting Out Jetty	1	-	-	-	-
<b>B. PRIVATE SECTOR</b>							
9	Dempo Shipbuilding and Engineering Ltd.	-	-	-	-	-	-

Table No. 2.3a(Contd...)

**Ship Repairing Facilities-Company-Wise  
(As On 31st March, 2013)**

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)
10	ABG Shipyard Ltd.	Slipway	1	110.0	35.0	ō	ō
11	Bharati Shipyard Ltd.	a) Slipway with Haul up facility	1	125.0	20.0	5.5	10.0
		b) Berth	1	120.0	20.0	5.5	10.0
		c) Submersible ship/platform	1	112.0	32.0	5.0	15.0
12	Chowgule PVT Ltd	-	-	-	-	-	-
13	Ferromar Shipping Pvt. Ltd. @	-	-	-	-	-	-
14	Sesa Goa Ltd.	-	-	-	-	-	-
15	A.C. Roy & Company Ltd.	-	-	-	-	-	-
16	Bristol Boats	-	-	-	-	-	-
17	Wadia Boat Builders	-	-	-	-	-	-
18	Tebma Shipyard Ltd.	-	-	-	-	-	-
19	Larsen & Toubro Limited	At Kattupalli , Tamil Nadu					
		Shiplift	1	200.0	46.0	10	0.07
20	N N Shipbuilders and Engineers Pvt Ltd	<b>Slipways</b>	<b>3</b>	70.0	7.0	2.3	...
21	Pipavav	Outfitting Quay	1	688.0	18.0	-	400.0

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.

**Table No. 2.4****No. Of Ships Repaired And Earnings, Company-wise -  
(2009-10 to 2012-13)****(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>A. PUBLIC SECTOR (Total)</b>	<b>2012-13</b>	<b>118</b>	<b>82489.14</b>	<b>21</b>	<b>14173.15</b>	<b>139</b>	<b>96662.29</b>
	<b>2011-12</b>	<b>118</b>	<b>38269.53</b>	<b>3</b>	<b>365.89</b>	<b>121</b>	<b>38635.42</b>
	<b>2010-11</b>	<b>97</b>	<b>44053.21</b>	<b>5</b>	<b>5000.26</b>	<b>102</b>	<b>49053.47</b>
	<b>2009-10</b>	<b>164</b>	<b>70842.33</b>	<b>12</b>	<b>510.34</b>	<b>176</b>	<b>71352.67</b>
1. Alcock Ashdown (Gujarat) Ltd.	2012-13	-	-	-	-	-	-
	2011-12	-	-	-	-	-	-
	2010-11	-	-	-	-	-	-
2. Cochin Shipyard Ltd.	2012-13	77	28656.83	-	-	77	28656.83
	2011-12	79	14535.92	-	-	79	14535.92
	2010-11	68	14175.00	-	-	68	14175.00
	2009-10	64	23635.72	-	-	64	23635.72
3. Garden Reach Ship-builders and Engineers Ltd.	2012-13	-	-	-	-	-	-
	2011-12	-	-	-	-	-	-
	2010-11	4	2143.32	1	4777.90	5	6921.22
	2009-10	4	369.00	-	-	4	369.00
4. Goa Shipyard Ltd.	2012-13	33	8863.67	-	34.15	33	8897.82
	2011-12	19	4726.78	1	31.89	20	4758.67
	2010-11	2	133.23	-	-	2	133.23
	2009-10	73	21585.18	-	-	73	21585.18
5. Hindustan Shipyard Ltd.	2012-13	3	966.00	21	14139.00	24	15105.00 (29072.38**)
	2011-12	15	18831.00	2	334.00	17	19165.00
	2010-11	18	27515.55	4	222.36	22	27737.91
	2009-10	17	24900.00	12	510.34	29	25410.34
6. Hooghly Dock & Port Engineers Ltd	2012-13	-	-	-	-	-	-
	2011-12	-	-	-	-	-	-
	2010-11	-	-	-	-	-	-
	2009-10	-	-	-	-	-	-
7. Mazagon Dock Ltd.	2012-13	2	43946.66	-	-	2	43946.66
	2011-12	-	-	-	-	-	-
	2010-11	-	-	-	-	-	-
	2009-10	-	-	-	-	-	-
8. Shalimar Works Ltd.	2012-13	3	55.98	-	-	3	55.98
	2011-12	5	175.83	-	-	5	175.83
	2010-11	5	86.11	-	-	5	86.11
	2009-10	6	352.43	-	-	6	352.43

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

**No. Of Ships Repaired And Earnings, Company-wise -  
(2009-10 to 2012-13)**

(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>B. PRIVATE SECTOR (Total)</b>	<b>2012-13</b>	<b>67</b>	<b>9900.05</b>	<b>0</b>	<b>0.00</b>	<b>67</b>	<b>9900.05</b>
	<b>2011-12</b>	<b>114</b>	<b>2596.32</b>	<b>0</b>	<b>0.00</b>	<b>114</b>	<b>2596.32</b>
	<b>2010-11</b>	<b>70</b>	<b>1974.89</b>	<b>0</b>	<b>0.00</b>	<b>70</b>	<b>1974.89</b>
	<b>2009-10</b>	<b>64</b>	<b>2008.05</b>	<b>0</b>	<b>0.00</b>	<b>64</b>	<b>2008.05</b>
9. Dempo Shipbuilding & Engg. Ltd.	2012-13	24	446.58	-	-	24	446.58
	2011-12	55	1025.57	-	-	55	1025.57
	2010-11	14	707.29	-	-	14	707.29
	2009-10	14	1008.34	-	-	14	1008.34
10. ABG Shipyard Ltd.	2012-13	-	8683.00	-	-	-	8683.00
	2011-12	-	132.00	-	-	-	132.00
	2010-11	-	19.00	-	-	-	19.00
	2009-10	-	37.00	-	-	-	37.00
11. Bharati Shipyard Ltd.	2012-13#	-	-	-	-	-	-
	2011-12	1	58.50	-	-	1	58.50
	2010-11	1	21.96	-	-	1	21.96
	2009-10	1	20.52	-	-	1	20.52
12. Ferromar Shipping Pvt. Ltd. ®	2012-13	...	...	...	...	-	-
	2011-12	4	...	...	...	4	-
	2010-11	4	...	...	...	4	-
	2009-10	2	...	...	...	2	-
13. Sesa Goa Ltd.	2012-13	13	538.68	-	-	13	538.68
	2011-12	22	1086.49	-	-	22	1086.49
	2010-11	22	876.69	-	-	22	876.69
	2009-10	19	808.19	-	-	19	808.19
14. A.C.Roy & Co. Ltd.	2012-13	29	220.84	-	-	29	220.84
	2011-12	31	268.51	-	-	31	268.51
	2010-11	27	141.00	-	-	27	141.00
	2009-10	28	134.00	-	-	28	134.00
15. Bristol Boats	2012-13	1	10.95	-	-	1	10.95
	2011-12	1	25.25	-	-	1	25.25
	2010-11	2	208.95	-	-	2	208.95
	2009-10	-	-	-	-	-	-

**Table No. 2.4  
(Contd...)****No. Of Ships Repaired And Earnings, Company-wise -  
(2009-10 to 2012-13)****(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. Wadia Boat Builders	2012-13	-	-	-	-	-	-
	2011-12	-	-	-	-	-	-
	2010-11	-	-	-	-	-	-
	2009-10	-	-	-	-	-	-
17. Larsen & Toubro Limited	2012-13	...	...	...	...	-	-
	2011-12	...	...	...	...	-	-
	2010-11	...	...	...	...	-	-
	2009-10	...	...	...	...	-	-
<b>C. Grand Total (A + B)</b>	<b>2012-13</b>	<b>185</b>	<b>92389.19</b>	<b>21</b>	<b>14173.15</b>	<b>206</b>	<b>106562.34</b>
	<b>2011-12</b>	<b>232</b>	<b>40865.85</b>	<b>3</b>	<b>365.89</b>	<b>235</b>	<b>41231.74</b>
	<b>2010-11</b>	<b>167</b>	<b>46028.10</b>	<b>5</b>	<b>5000.26</b>	<b>172</b>	<b>51028.36</b>
	<b>2009-10</b>	<b>228</b>	<b>72850.38</b>	<b>12</b>	<b>510.34</b>	<b>240</b>	<b>73360.72</b>

\* 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.

\*\* Revised

**Table No. 2.5****Dry Dock & Ship Repairing Facilities at Major Ports  
2012-13**

Name of Ports	No. of Dry Docks and their Size	No. of Work-shops	No. of Cranes & Capacity	No. of Vessels Repaired during 2012-13	No. of days at Dry Dock Occupancy during 2012 - 13
1	2	3	4	5	6
Kandla	<b>One</b> Length : 95 mtrs. Width : 20 mtrs. Depth : 5.5 mtrs.	-	<b>One</b> 5 tones	52	360
Mumbai	<b>One</b> Length : 1000 ft. Breadth : 102 ft. Depth : 48 ft.	-	<b>Two</b> 1-20 T 1-5 T	74	303
Mormugao	<b>One</b> Length : 210 mtrs. Breadth : 34.2mtrs. Depth: Can accommodate vessels up to 60,000 DWT.	7	<b>Four</b> 3-10 T (each) 1-26 T	12	313
Cochin	<b>One</b> Length : 66.0 mtrs. Width : 12.5 mtrs. Draft : 4.0 mtrs.	1	<b>One</b> 5 T	8	328
V.O.Chidambaranar*	<b>One</b> Length : 150 feet Width : 32 feet Draft : 6.5 feet	-	...	-	-
Visakhapatnam	<b>One</b> Length : 140.2 mtrs. Width : 18.2 mtrs. Depth : 5.6 mtrs.	-	<b>One</b> 4 T	13	289
Paradip	<b>One</b> Length : 75 mtrs. Width : 15 mts. Draft : 6 mts.	1	<b>One</b> 3/10 MT	3	37

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

**Dry Dock and Ship Repairing Facilities at Major Ports  
2012-13**

Name of Ports	No. of Dry Docks and their size					No. of Work-shops	No. of Cranes & Capacity	No. of Vessels Repaired during 2012-13	No. of Days at Dry Dock Occupancy during 2012-13	
1	2					3	4	5	6	
Kolkata							<u>Five</u>	29	1362	
		First	Second	Third	Four		Five			1 No. 5T
	Length1	166.72 m	151.48 m	106.68 m	178.00 m		182.88 m			1 No. 7 T
	Length2	163.98 m	148.80 m	102.87 m	165.20 m		170.08 m			
	Breadth1	21.23 m	21.23 m	18.28 m	32.30 m		32.30 m			
	Breadth2	20.39 m	20.57 m	17.44 m	27.43 m		27.43 m			3 No. 3/6T
	Depth	7.62 m	7.46 m	7.31 m	14.32 m		14.32 m			
	Length1=Length of Entry Level Length2=Length of Bottom Level Breadth1=Breadth of Entry Level Breadth2=Breadth of Bottom Level									
JNPT	Do not have any dry dock facilities.									
Haldia	There is no dry dock.									
New Mangalore	Do not have any ship repair facility									
Chennai	Do not have any ship repair facility									
Ennore	Do not have any dry dock facility									

\* 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**

<b>Name of Ports</b>	<b>Dry Dock Hire Charges for different sizes of vessels</b>					
<b>1</b>	<b>2</b>					
<b>Kandla</b>	<b><u>Rate per vessel</u></b>					
	<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 <sup>st</sup> day hire and cleaning of dry dock	61359.90	2481.96	73557.00	2975.61	85817.19	3471.58
Dry dock hire from 2 <sup>nd</sup> 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 <sup>th</sup> day to 20 <sup>th</sup> 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 <sup>st</sup> day or part thereof	52426.78	2120.83	62912.42	2545.00	73397.11	2969.15
<b>Mormugao</b>	Up to 10,000 GRT 10,000 GRT & above		<b><u>National (INR)</u></b> Rs. 31,500/- Rs. 47,600/-		<b><u>International (USD)</u></b> 700 1085	
<b>Paradip</b>	Dry Dock Hire Charges for different sizes of vessels					
	National Charges			Rs. 34000/-		
	International Charges					

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

**Dry Dock Hire Charges Existing at Major Ports**

Name of Ports 1	Dry Dock Hire Charges for different sizes of vessels 2				
<b>Mumbai</b>	<b>I. Charges for Docking and Undocking:</b>				
		<b>Foreign Going Vessels (in US \$)</b>		<b>Coastal Vessels (in 'Rs.)</b>	
	Upto 1000 GRT	4858.50		102244/-	
	1001 to 2000 GRT	6308.25		125614/-	
	2001 to 3000 GRT	7481.50		148984/-	
	3001 to 4000 GRT	8654.75		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/- + c Rs. 23370/- for every additional 1000 GRT or part thereof		
<b>Cochin</b>	<b>Particulars</b>		<b>Rate Per day or part thereof</b>		
			Coastal Vessel (in Rs.)	Foreign going vessel (in US \$)	
	Docking & undocking the vessel in including 1 <sup>st</sup> day hire, assisting docking & undocking excluding Tugs, mooring boats, Pilotage etc. and cleaning of dry dock		90,000	3,279.76	
	Dry dock hire from 2 <sup>nd</sup> day to 10 <sup>th</sup> day (both days inclusive) per day		45,000	1,639.88	
	Dry dock hire from 11 <sup>th</sup> day to 20 <sup>th</sup> day (both days inclusive) per day		90,000	3,279.76	
	Dry dock hire from 21 <sup>st</sup> day or part thereof		1,12,500	4,099.70	
	Any other charges required to be paid by the vessels owner for the repair at Dry Docking Yards		45,000	1,639.88	
Charges for the services of the Dry Dock cranes made available for repairs and other works		RS. 1750/- per hour or part thereof. If used beyond day shift, i.e., After 1600 hours, then the charges shall be double the day shift charges (irrespective of National or International)			
<b>Visakhapatna m</b>	<b>Nature of service</b>				
		1 <sup>st</sup> day to 14 <sup>th</sup> day	15 <sup>th</sup> day to 30 <sup>th</sup> day	31 <sup>st</sup> day onwards	
	Rental/stay charges per day	Rs. 27,967/-	Rs. 41,937/-	Rs. 55,934/-	
	Foreign Vessels	US \$ 995.13	US \$ 1492.21	US \$1990.25	
	<b>Other charges (Dock Block Preparation Charges)</b>				
	<b>Type of vessel</b>	<b>Length of vessel</b>			
		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/-		

**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						
<b>Kolkata</b>	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	
		US \$	Rupees	US \$	Rupees	US \$	Rupees
	Upto 1000	1150	25300	1035	24150	1035	23000
	1001 to 2000	1265	27600	1150	26450	1035	24725
	2001 to 3000	1380	29900	1265	28750	1035	25300
	3001 to 4000	1495	34500	1380	32200	1035	25875
	4001 to 5000	1610	39100	1495	35650	1035	26450
	5001 to 10000	1840	43700	1610	40250	1035	27600
	10001 & above	2070	48300	1725	44850	1035	28750
<b>V.O. Chidambaranar</b>	The dry dock is not in use, due to structural damages which are beyond economical repair.						
<b>Haldia</b>	There is no dry dock.						
<b>JNPT</b>	Do not have any dry dock facility						
<b>New Mangalore</b>	Do not have any dry dock facility						
<b>Chennai</b>	Do not have any ship repair facility						
<b>Ennore</b>	Do not have any dry dock facility						

Source: All major ports.

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

Name of Ports	Equipments available in the Workshops
1	2
Kandla	No K.P.T. workshop at Dry Dock for repair.
Mormugao	<ul style="list-style-type: none"> <li>a. Plate shop with hydraulic press, shearing &amp; plate bending machine.</li> <li>b. Pipe and valve shop.</li> <li>c. Machine Shop with lathes, milling &amp; boring machines.</li> <li>d. Fabrication shop</li> <li>e. Electrical shop.</li> <li>f. Mechanical Shop.</li> <li>g. Maintenance Shop</li> </ul>
Mumbai	Workshops & repair facilities are not provided by MbPT. Ship repairs are carried out by private workshops licensed by Mumbai Port.
Cochin	Workshop is equipped with the tools required for sections viz. fitting, Carpentry, Welding & Gas cutting, fabrication, machine shop, Moulding, sheet metal, painting, Upholstery & Marine Diesel.
Visakhapatnam	NIL
Chennai	Do not have any ship repair facility
Ennore	Do not have any ship repair facility
Haldia Dock Complex	Do not have any dry dock facilities
Kolkata	NA
JNPT	Do not have any ship repair facility
New Mangalore	Do not have any dry dock facility
Paradip	<ul style="list-style-type: none"> <li>1 Overhead crane, capacity: 10 MT,</li> <li>1 Lathe Machine type-EP3225,</li> <li>1 Lathe Machine Type-H26,</li> <li>1 Bending Machine,</li> <li>1 Stand Drill Machine.</li> </ul>
V.O.Chidambaranar	The dry dock is not in use, due to structural damages which are beyond economical repair.

**Section- 3**

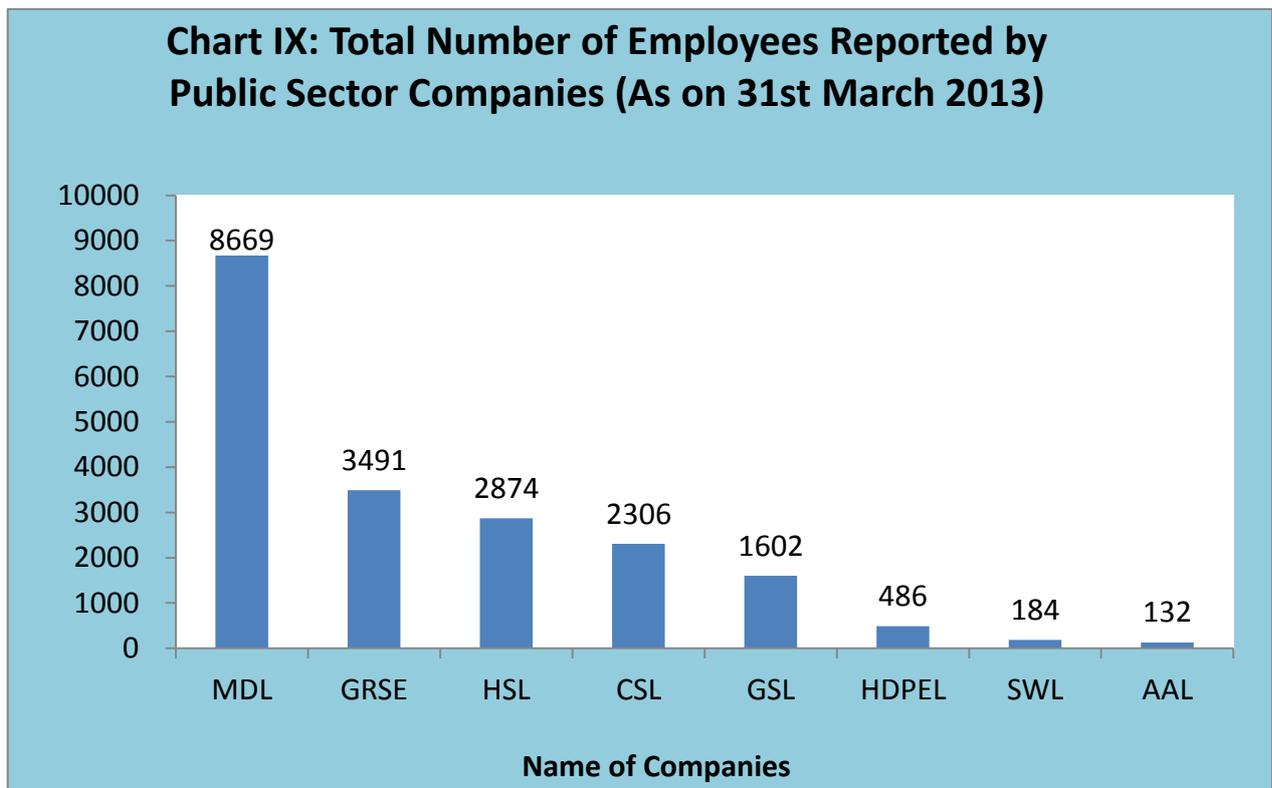
**EMPLOYMENT IN SHIP-BUILDING/SHIP-  
REPAIRING INDUSTRY**

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

3.1. The total number of employees under the eight Public Sector Shipyards during 2012-13 were 19744 which included 2601 officers (13.2 % of the total number of employees). The maximum number of employees in the public sector Shipyards as on 31<sup>st</sup> March 2013 was 8669 in Mazagon Dock Ltd followed by 3491 in Garden Reach Ship Builders and Engineers Ltd and 2874 employees in Hindustan Shipyard Ltd

3.2. The total number of employees in 13 private sector companies were 17186 as on 31<sup>st</sup> March 2013 of which total number of officers were 2781 (16.2 % of the total number of employees). Bharati Shipyard had highest number of employees (5510) followed by Pipavav (4353) and Larsen & Toubro Ltd. (4056).

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



3.4. Compound Annual Growth Rate (CAGR) of employment in Ship Building & Ship repairing industries (Public and Private Sector combined) was 3.41% over a period of four years from 2008-09 to 2012-13. CAGR of employment in public sectors and private sector ship yards were 1.22% and 6.25% from 2008-09 to 2012-13 respectively. Chart XI given below depicts the employment trend in Ship-building and Ship-repairing industries during the period 2008-09 to 2012-13.

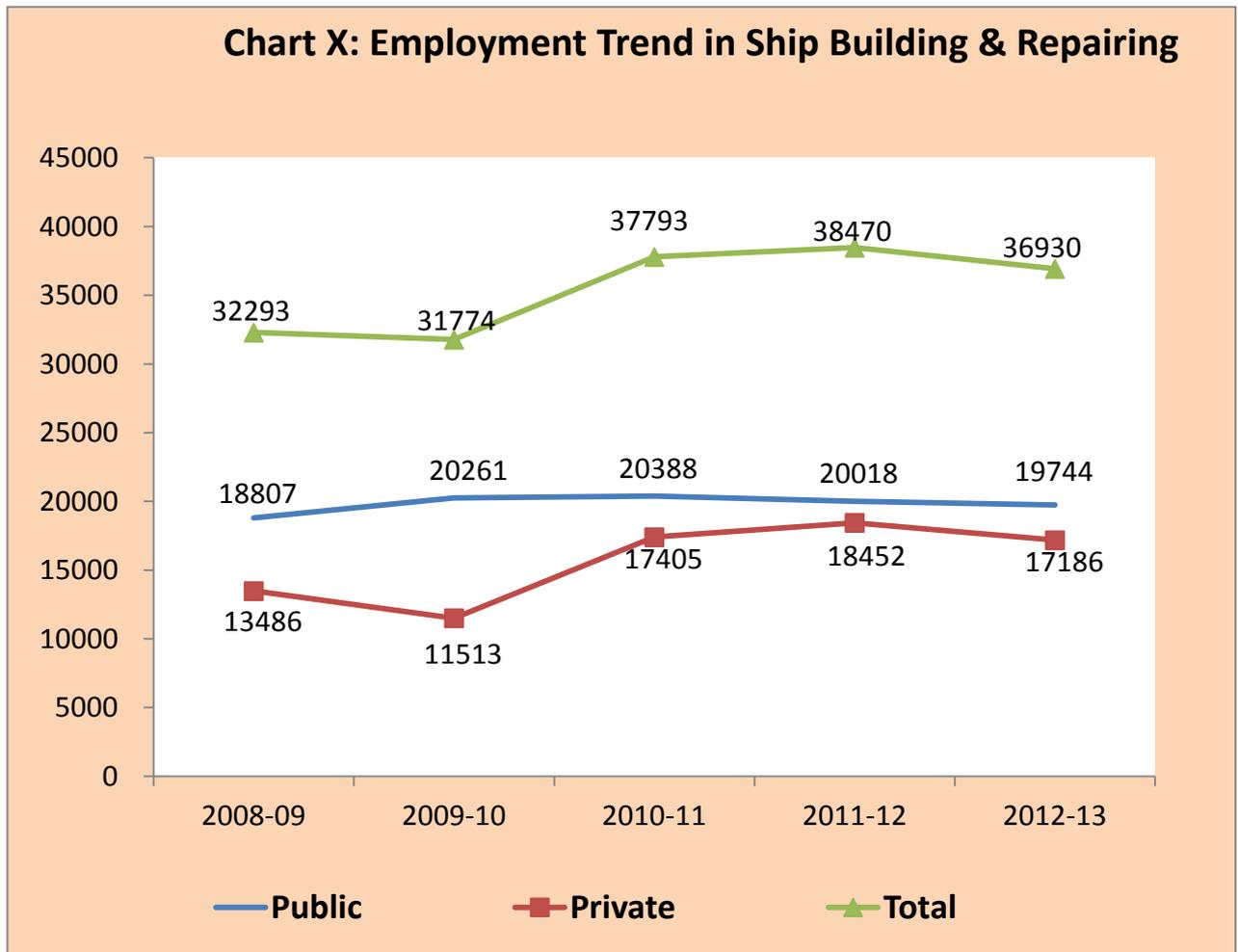


Table No. 3.1

**Employment In Ship-Building/Ship-Repairing Companies**  
(As On end 31st March, 2013)

(Number)

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)
<b>A. PUBLIC SECTOR (Total)</b>	<b>2484</b>	<b>115</b>	<b>1194</b>	<b>41</b>	<b>8723</b>	<b>3946</b>	<b>2447</b>	<b>794</b>	<b>14848</b>	<b>4896</b>
1. Alcock Ashdown (Gujarat) Ltd	38	18	-	-	60	-	13	3	111	21
2. Cochin Shipyard Ltd.	251	46	196	3	1092	-	117	601	1656	650
3. Garden Reach Ship-Builders & Engineers Ltd	497	4	252	6	1905	-	827	-	3481	10
4 Goa Shipyard Ltd.	232	4	88	-	855	66	311	46	1486	116
5. Hindustan Shipyard Ltd.	376	32	402	25	1032	652	349	6	2159	715
6. Hooghly Dock & Port Engineers Ltd.	40	1	50	-	304	64	26	1	420	66
7. Mazagon Dock Ltd.	1047	1	203	-	3375	3136	781	126	5406	3263
8. Shalimar Works Ltd.	3	9	3	7	100	28	23	11	129	55
<b>B. PRIVATE SECTOR (Total)</b>	<b>2775</b>	<b>7</b>	<b>20</b>	<b>0</b>	<b>6810</b>	<b>4389</b>	<b>784</b>	<b>2400</b>	<b>10389</b>	<b>6796</b>
9. Dempo Shipbuilding & Engg.	49	-	-	-	-	421	-	-	49	421
10. ABG Shipyard Ltd.	785	-	-	-	430	-	106	-	1321	0
11. Bharati Shipyard Ltd.	665	-	-	-	4390	-	455	-	5510	0
12. Chowgule & Co. Ltd.	117	-	-	-	12	-	15	-	144	0
13. Ferromar Shipping Pvt. Ltd.*	2	1	-	-	-	2	-	-	2	3
14. Sesa Goa Ltd.	20	-	-	-	40	-	-	-	60	0
15. A.C.Roy & Comp. Ltd.	30	-	1	-	4	10	13	-	48	10
16. Bristol Boats	7	-	-	-	25	-	1	-	33	0
17. Tebma Shipyard Ltd.	129	-	16	-	181	725	32	-	358	725
18. Wadia Boat Builders	0	0	0	0	0	0	0	0	-	-
19. Larsen & Toubro Limited	340	6	-	-	329	3231	150	-	819	3237
20. N N Shipbuilders and Engine	12	-	3	-	65	-	12	-	92	0
21. Pipavav	619	-	-	-	1334	-	-	2400	1953	2400
<b>C. Grand Total (A + B)</b>	<b>5259</b>	<b>122</b>	<b>1214</b>	<b>41</b>	<b>15533</b>	<b>8335</b>	<b>3231</b>	<b>3194</b>	<b>25237</b>	<b>11692</b>

@ Includes in indirect workforce in operation.

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

Table No. 3.2

**Employment Pattern In Ship-Building/  
Ship-Repairing Companies - (2009-2013)**

(In numbers)

Name of The Company	Item	As on 31st March					
		2009	2010	2011	2012	2013	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
<b>A. PUBLIC SECTOR</b>		<b>Total</b>	<b>18807</b>	<b>20261</b>	<b>20388</b>	<b>20018</b>	<b>19744</b>
		<b>Officers</b>	<b>2263</b>	<b>2064</b>	<b>2779</b>	<b>2697</b>	<b>2601</b>
1. Alcock Ashdown (Gujarat) Ltd.	Total	197	198	169	153	132	
	Officers	62	35	74	65	56	
2. Cochin Shipyard Ltd.	Total	1962	1907	2220	2382	2306	
	Officers	263	270	308	322	297	
3. Garden Reach Ship-Builders & Engineers L	Total	4434	4345	4117	3796	3491	
	Officers	470	462	493	503	503	
4. Goa Shipyard Ltd.	Total	1690	1701	1666	1602	1602	
	Officers	209	221	219	224	236	
5. Hindustan Shipyard Ltd.	Total	3424	3371	3275	3130	2874	
	Officers	239	232	481	463	408	
6. Hooghly Dock & Port Engineers Ltd.	Total	609	538	470	449	486	
	Officers	51	51	118	46	41	
7. Mazagon Dock Ltd.	Total	6375	8066	8301	8331	8669	
	Officers	961	785	1067	1057	1048	
8. Shalimar Works Ltd.	Total	116	135	170	175	184	
	Officers	8	8	19	17	12	
<b>B. PRIVATE SECTOR (Total)</b>		<b>Total</b>	<b>13486</b>	<b>11513</b>	<b>17405</b>	<b>18452</b>	<b>17186</b>
		<b>Officers</b>	<b>2431</b>	<b>1134</b>	<b>3347</b>	<b>2863</b>	<b>2781</b>
9. Dempo Shipbuilding & Engg. Ltd.	Total	239	277	428	619	471	
	Officers	10	14	32	47	49	
10. ABG Shipyard Ltd.	Total	2630	2890	1438	1381	1321	
	Officers	265	198	833	815	785	
11. Bharati Shipyard Ltd.	Total	4150	5200	5540	5510	5510	
	Officers	545	585	690	665	665	
12. Chowgule & Co. Ltd.	Total	148	149	984	487	144	
	Officers	29	40	124	108	117	
13. Ferromar Shipping Pvt. Ltd.*	Total	23	24	28	28	5	
	Officers	-	-	6	6	2	
14. Sesa Goa Ltd.	Total	66	62	249	76	60	
	Officers	5	10	20	24	20	
15. Wadia Boat Builder	Total	80	76	-	-	-	
	Officers	4	4	-	-	-	
16. A.C.Roy & Comp. Ltd.	Total	43	47	47	58	58	
	Officers	23	27	30	30	30	
17. Bristol Boats	Total	20	21	31	35	33	
	Officers	8	8	10	10	7	
18. Tebma Shipyard Ltd.	Total	1092	267	246	1083	1083	
	Officers	237	98	18	129	129	
19. Larsen & Toubro Limited	Total	4800	2500	3202	4048	4056	
	Officers	1300	150	1052	375	346	
20. N N Shipbuilders and Engineers Pvt Ltd	Total	195	0	92	92	92	
	Officers	5	0	12	12	12	
21. Pipavav	Total	-	-	5120	5035	4353	
	Officers	-	-	520	642	619	
<b>C. Grand Total (A + B)</b>		<b>Total</b>	<b>32293</b>	<b>31774</b>	<b>37793</b>	<b>38470</b>	<b>36930</b>
		<b>Officers</b>	<b>4694</b>	<b>3198</b>	<b>6126</b>	<b>5560</b>	<b>5382</b>

\* Empreiteiros Gerais Pvt. Ltd. Merged with Ferromar Shipping Pvt. Ltd.

## **Section-4**

# **FINANCIAL POSITION OF SHIPBUILDING AND SHIP REPAIRING COMPANIES**

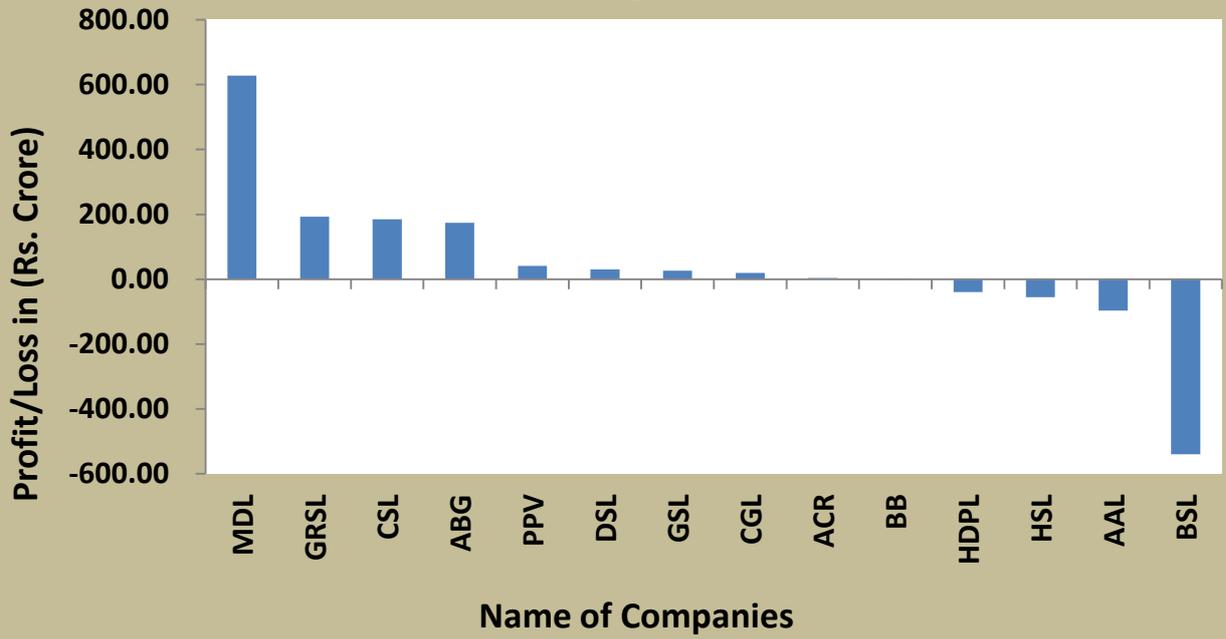
#### **4. FINANCIAL POSITION OF SHIP BUILDING AND SHIP REPAIRING COMPANIES**

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 2012-13 was Rs. 2769.16 crore by Mazagon Dock Ltd followed by Rs. 1642.34 crore by Cochin Shipyard Ltd, Rs. 1607.24 crore by Garden Reach Ship-Builders & Engineers Ltd, Rs. 564.22 crore by Goa Shipyard Ltd., and Rs. 562.50 crore by Hindustan Shipyard Ltd. In terms of profit, the highest profit was earned by Mazagon Dock Ltd (Rs. 627.77 crore) followed by Garden Reach Ship-Builders & Engineers Ltd (Rs 193.15 crore), Cochin Shipyard Ltd (Rs. 185.26 crore) and Goa Shipyard Ltd. (26.12 crore). Loss was incurred by Alcock Ashdown Ltd. (Rs.97 crore), followed by Hindustan shipyard Ltd (Rs 55 crore) and Hooghly Dock and Port Engineers Ltd (Rs. 40 crore).

4.2. In private sector, the highest income earned during 2012-13 was by Pipavav (Rs 2613.03 crore) followed by ABG Shipyard Ltd (Rs. 2149.33 crore) and Bharti Shipyard Ltd (Rs 506.15 crore ). In terms of net profit, the highest profit was earned by ABG Shipyard Ltd (Rs 174 crore) followed by Pipavav (41 crore), and Dempo Shipbuilding and Engineering Ltd. (Rs. 30 crore). Loss was incurred by Bharti Shipyard Ltd. (Rs. 540 crore), followed by Bristol Boats (Rs 0.96 crore).

4.3. Chart XII 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 2013.

**Chart XI: Financial Performance of Major Public and Private Companies in 2012-13**



**Table No. 4.1 Financial Performance (Income Earned): Company - wise  
(2009 to 2013)**

(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)
<b>A. PUBLIC SECTOR</b>						
1.	Alcock Ashdown (Gujarat) Ltd.	2013	10989.00	-	503.10	11492.10
		2012	-	-	806.87	806.87
		2011	6178.08	0.00	566.28	6744.36
		2010	928.86	9.93	1639.84	2578.63
		2009	6629.89	12.65	731.65	7374.19
2.	Cochin Shipyard Ltd.	2013	126759.37	28656.83	8817.36	164233.56
		2012	125949.23	14535.92	7669.33	148154.48
		2011	131996.31	14174.68	14109.21	160280.20
		2010	101212.89	23635.72	7800.58	132649.19
		2009	98612.61	27006.10	10716.09	136334.80
3.	Garden Reach Ship-Builders & Engineers Ltd.	2013	23955.00	2111.00	134658.00	160724.00
		2012	30091.00	2458.00	100624.00	133173.00
		2011	27269.00	7931.00	81126.00	116326.00
		2010	19304.00	404.00	32648.00	52356.00
		2009	69035.00	93.00	14293.00	83421.00
4.	Goa Shipyard Ltd.	2013	49294.00	1367.00	5761.00	56422.00
		2012	66156.00	1487.00	4645.00	72288.00
		2011	66476.00	23711.00	12552.00	102739.00
		2010	57187.00	21585.00	@16706.00	78772.00
		2009	40158.00	7899.00	@10655.00	48057.00
5.	Hindustan Shipyard Ltd.	2013	23251.67	29072.38	3926.45	56250.50
		2012	26228.59	31988.83	2216.28	60433.70
		2011	29149.60	36064.84	43846.65	109061.09
		2010	25360.53	36535.52	4307.40	66203.45
		2009	19416.73	20164.65	10246.77	49828.15
6.	Hooghly Dock & Port Engineers Ltd.	2013	512.84	-	2312.80	2825.64
		2012	120.50	-	63247.61	63368.11
		2011	600.00	-	98.00	698.00
		2010	936.47	-	139.09	1075.56
		2009	342.57	23.40	74.89	440.86
7.	Mazagan Dock Ltd.	2013	96637.63	43946.66	136332.62	276916.91
		2012	246068.00	6301.00	54621.00	306990.00
		2011	219948.00	-	62666.00	282614.00
		2010	285613.00	-	22720.00	308333.00
		2009	235174.00	21654.00	32385.00	289213.00
8.	Shalimar Works Ltd.	2013	887.29	123.46	270.84	1281.59
		2012	1484.24	238.60	445.90	2168.74
		2011	1968.52	70.09	923.53	2962.14
		2010	684.60	352.43	99.71	1136.74
		2009	698.02	261.70	270.21	1229.93
<b>B. PRIVATE SECTOR</b>						
9.	Dempo Shipbuilding and Engineering Ltd.	2013	8549.30	446.58	1476.90	10472.78
		2012	5126.33	1025.56	835.31	6987.20
		2011	6215.55	1784.19	228.23	8227.97
		2010	7106.58	1016.19	163.16	8285.93
		2009	2670.92	812.76	1941.16	5424.84
10.	ABG Shipyard Ltd.	2013	194528.00	8683.00	11722.00	214933.00
		2012	234224.00	132.00	8930.00	243286.00
		2011	199180.00	19.00	8905.00	208104.00
		2010	162498.00	37.00	22644.00	185179.00
		2009	134806.25	86.13	7054.73	141947.11

**Table No.  
4.1**

**Financial Performance (Income Earned) Company - wise  
(2009 to 2013)**

(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 Shipyard Pvt. Ltd.	2013\$	49092.00	-	1523.00	50615.00
		2012	138652.78	58.50	1891.99	140603.27
		2011	156900.60	21.96	1211.93	158134.49
		2010	133785.85	20.52	1437.87	135244.24
		2009	100933.75	326.28	685.39	101945.42
12	Chowgule & Co.Ltd.	2013	23066.78	-	2289.72	25356.50
		2012	16922.90	-	4757.63	21680.53
		2011	18360.46	-	5344.00	23704.46
		2010	19905.47	-	346.66	20252.13
		2009	14713.48	-	316.12	15029.60
13	Ferromar Shipping Pvt. Ltd. #	2013	-	-	624.22	624.22
		2012	-	-	734.40	734.40
		2011	...	5.15	916.48	921.63
		2010	...	...	1093.58	1093.58
		2009	...	...	767.27	767.27
14	A.C.Roy & Comp. Ltd.	2013	2084.00	221.00	199.00	2504.00
		2012	1995.00	269.00	152.00	2416.00
		2011	2015.00	141.00	103.00	2259.00
		2010	2005.00	134.00	98.00	2237.00
		2009	1848.00	131.00	87.00	2066.00
15	Bristol Boats	2013	419.11	10.95	(-)66.00 **	364.06
		2012	70.12	25.25	172.51	267.88
		2011	0.00	208.95	2.34	211.29
		2010	-	3.50	33.78	37.28
		2009	-	17.94	13.33	31.27
16	Tebma Shipyard Ltd.	2013	37105.48	-	3501.31	40606.79
		2012	32547.28	-	2712.99	35260.27
		2011	5951.61	-	9468.40	15420.01
		2010	16220.74	-	4670.81	20891.55
		2009	31148.46	-	986.50	32134.96
17	Larsen & Toubro Limited	2013	0	-	0	0
		2012	531705.20	-	13382.80	545088.00
		2011	434959.30	-	18521.10	453480.40
		2010	366751.50	-	23846.10	390597.60
		2009	33646.57	-	1031.75	34678.32
18	N N Shipbuilders and Engine Pvt Ltd	2013	145.44	88.07	1176.45	1409.96
		2012	513.10	7.39	581.60	1102.09
		2011	426.43	...	463.51	889.94
		2010	791.53	112.28	21.07	924.88
		2009	730.00	100.00	30.00	860.00
19	Pipavav	2013	146930.00	-	114373.00	261303.00
		2012	186767.00	-	2379.00	189146.00
		2011	85993.08	-	4106.55	90099.63
		2010	-	-	-	-
		2009	-	-	-	-

@ After adjusting accretion/decretion to work in progress.

\* Income including WIP

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

\*\* Income from other resources Rs. 100.13 less Revenue incomplete contract- manufacture Rs. 166.13.

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

Table No. 4.2

Financial Performance (Expenditure) : Company-wise  
(2009 to 2013)

(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)
<b>A. PUBLIC SECTOR</b>							
1	Alcock Ashdown (Gujarat) Ltd.	2013	13773.92	132.02	7284.18	21190.12	(-) 9698.02
		2012	3164.70	132.74	5258.51	8555.95	(+) 7749.08
		2011	5823.05	141.07	2984.53	8948.65	(-) 2204.29
		2010	13262.09	139.36	2321.15	15722.60	*(-) 13143.97
		2009	7891.07	122.94	2933.13	10947.14	(-)3573.02
2	Cochin Shipyard Ltd.	2013	141472.04	1921.59	2313.17	145706.80	(+) 18526.76
		2012	127802.43	1807.27	1312.09	130921.79	(+) 17232.69
		2011	133099.44	1761.18	2666.81	137527.43	(+) 22752.77
		2010	107001.46	1524.45	1819.21	110345.12	(+)22304.07
		2009	119440.85	979.98	21.00	120441.83	(+)14015.33
3	Garden Reach Ship-Builders & Engineers Ltd.	2013	139973.00	1391.00	45.00	141409.00	(+) 19315.00
		2012	114968.00	1270.00	-	116238.00	(+) 16935.00
		2011	98853.00	1047.00	150.00	100050.00	(+) 16276.00
		2010	83165.00	762.00	1.00	83928.00	(-) 31572.00
		2009	66957.00	755.00	18.00	67730.00	(+)15691.00
4	Goa Shipyard Ltd.	2013	49569.00	1818.00	2424.00	53811.00	(+) 2612.00
		2012	56351.00	1628.00	1706.00	59685.00	(+) 12603.00
		2011	74878.00	851.00	531.00	76260.00	(+) 26479.00
		2010	74177.00	470.00	1108.00	75755.00	(+)19723.00
		2009	44626.00	429.00	1065.00	46120.00	(+)12592.00
5	Hindustan Shipyard Ltd.	2013	59202.04	788.77	1777.08	61767.89	(-) 5517.39
		2012	67052.94	796.68	1182.42	69032.04	(-) 8598.34
		2011	101353.73	767.73	1434.64	103556.10	(+) 5499.99
		2010	60083.72	645.75	5241.55	65971.02	(+) 232.43
		2009	58087.30	692.67	5049.13	63829.10	(-)14000.85
6	Hooghly Dock & Port Engineers Ltd.	2013	6533.96	34.80	240.98	6809.74	(-) 3984.10
		2012	4156.16	40.40	94.51	4291.07	(+) 59077.04
		2011	1698.00	50.00	4450.00	6198.00	(-)5500.00
		2010	2230.61	53.04	4332.21	6615.86	(-)5540.30
		2009	1654.51	60.25	3999.28	5714.04	(-)5273.18
7	Mazagon Dock Ltd.	2013	212293.34	1401.00	446.00	214140.34	(+) 62776.57
		2012	233895.00	1314.00	2603.00	237812.00	(+) 69178.00
		2011	244736.00	1256.00	17.00	246009.00	(+) 24352.00
		2010	268467.00	1217.00	2.00	269686.00	(+)38647.00
		2009	248659.00	822.00	4.00	249485.00	(+)39728.00
8	Shalimar Works Ltd.	2013	1889.35	30.61	1505.53	3425.49	(-) 2143.90
		2012	2520.38	35.03	1361.48	3916.89	(-) 1748.15
		2011	2656.64	39.03	1240.26	3935.93	(-) 974.79
		2010	1072.99	45.03	1164.77	2282.79	(-)1146.05
		2009	1014.40	35.89	1097.62	2147.91	(-)1017.98
<b>B. PRIVATE SECTOR</b>							
9	Dempo Shipbuilding and Engineering Ltd.	2013	6880.02	265.16	336.82	7482.00	(+) 2990.78
		2012	6264.80	245.28	148.54	6658.62	(+) 313.71
		2011	7166.41	173.77	154.41	7494.59	(+)733.38
		2010	6580.20	204.33	119.49	6904.02	(+)1381.91
		2009	4877.78	186.21	98.02	5162.01	(+)246.42
10	ABG Shipyard Ltd.	2013	147062.00	10371.00	40130.00	197563.00	(+) 17370.00
		2012	172409.00	9925.00	33074.00	215408.00	(+) 18029.00
		2011	159833.00	6303.00	13947.00	180083.00	(+)18880.00
		2010	133519.00	3869.00	15061.00	152449.00	(+)22892.00
		2009	108109.48	1447.67	7395.44	116952.59	(+)24994.50

**Table No. 4.2  
(Contd.)**

**Financial Performance (Expenditure) : Company-wise  
(2009 to 2013)**

(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 Shipyard Pvt. Ltd.	2013	55892.00	4684.00	44014.00	104590.00	(-) 53976.00
		2012	92416.30	3997.03	49048.59	145461.92	(-) 4858.64
		2011	111402.09	2150.77	26632.63	140185.49	(+)17949.00
		2010	103145.95	1529.31	9773.07	114448.33	(+)20795.91
		2009	76266.46	1008.69	5133.49	82408.64	(+)19536.76
12	Chowgule & Co. Ltd.	2013	22495.86	917.13	0.02	23413.01	(+) 1943.49
		2012	16548.34	889.75	66.90	17504.99	(+) 4175.53
		2011	21878.72	1002.88	137.38	23018.98	(+) 685.49
		2010	21867.05	1147.16	694.10	23708.31	(-) 3803.84
		2009	14987.85	1237.50	793.81	17019.16	(-)1989.57
13	Ferromar Shipping Pvt. Ltd.	2013	263.12	221.04	36.09	520.25	(+) 103.97
		2012	253.40	235.36	69.21	557.97	(+) 176.43
		2011	327.98	441.20	96.00	865.18	(+) 56.45
		2010	362.65	797.97	1368.89	2529.51	(-)1435.93
		2009	257.96	116.66	101.05	475.67	(-)291.61
14	A.C.Roy & Comp. Ltd.	2013	2008.00	83.00	19.00	2110.00	(+) 394.00
		2012	2001.00	61.00	18.00	2080.00	(+) 336.00
		2011	1951.00	52.00	21.00	2024.00	(+) 235.00
		2010	1945.00	49.00	26.00	2020.00	(+)217.00
		2009	1782.00	43.00	36.00	1861.00	(+)205.00
15	Bristol Boats	2013	426.36	13.34	20.85	460.55	(-) 96.49
		2012	294.94	14.67	13.56	323.17	(-) 55.29
		2011	217.69	17.65	5.92	241.26	(-) 29.97
		2010	73.08	15.25	0.35	88.68	(-)51.40
		2009	72.82	15.49	0.03	88.34	(-)57.07
16	Tebma Shipyard Ltd.	2013	34502.39	2015.35	3959.25	40476.99	129.80
		2012	31326.49	2252.51	3948.53	37527.53	(-) 1273.26
		2011	17468.26	2274.85	3232.69	22975.80	(-)7555.80
		2010	32550.14	2105.63	4865.10	39520.87	(-)18629.32
		2009	35814.14	941.24	3092.05	39847.43	(-)7712.47
17	Larsen & Toubro Limited	2013	0	0	0	0	0
		2012	475873.70	-	6661.00	482534.70	(+) 63103.30
		2011	334316.20	-	61224.40	395540.60	(+) 58329.10
		2010	284535.50	-	47630.90	332166.40	(+)58431.20
		2009	26271.62	-	4492.08	30763.70	(+)3914.62
18	N N Shipbuilders and Engine Pvt Ltd	2013	1309.59	30.84	-	1340.43	(+) 69.53
		2012	1058.17	19.27	-	1077.44	(+) 24.65
		2011	851.70	2.64	9.80	864.14	(+)25.80
		2010	831.84	1.94	15.88	849.66	(+)75.22
		2009	710.00	2.00	12.00	724.00	(+)136.00
19	Pipavav	2013	205149.00	12270.00	39746.00	257165.00	(+) 4138.00
		2012	145520.00	10589.00	25768.00	181877.00	(+) 7269.00
		2011	67572.47	5198.09	11900.69	84671.25	(+)5428.38
		2010	-	-	-	-	-
		2009	-	-	-	-	-

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

**Section -5**

**INTERNATIONAL SCENARIO**

## **5. INTERNATIONAL SCENARIO**

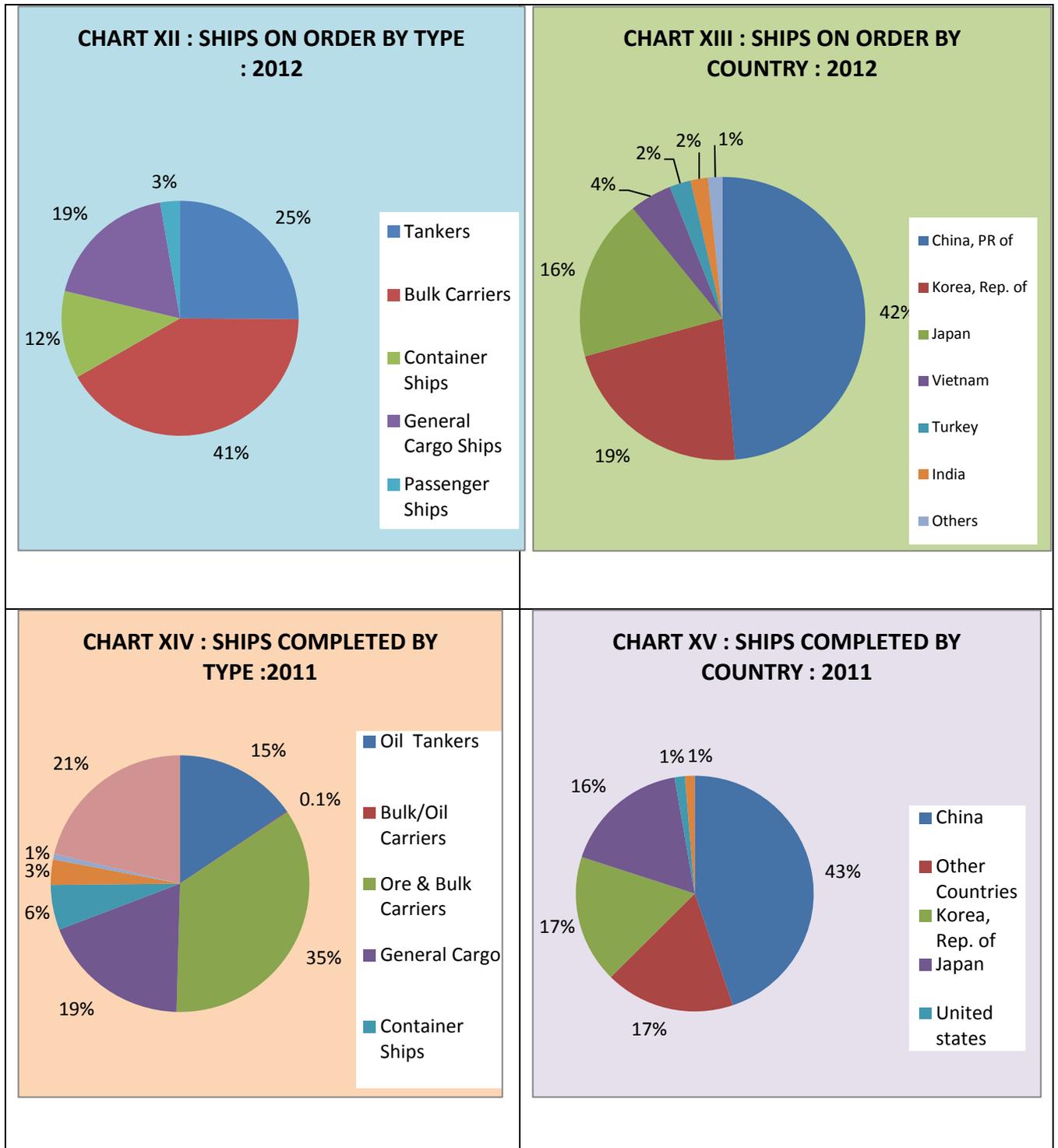
5.1. This section comprises comparative time series data on ship building activity in term of order and completion and by type and country (Table 5.1 to 5.6).

5.2. The number of ships on order reflects the demand side dynamics of the world shipping industry. Over the decade (1998 to 2012), the number of ships on order at a global level has grown from 1917 units in 1998 to 4482 units in 2012. On the other hand, ships in order in terms of gross tonnage (GT) have grown from 53.42 million GT in 1998 to 180.81 million GT in 2012. During the year 1998 to 2012, order book of world shipbuilding industry had witnessed CAGR of 6.25% and 9.1% on order in term of numbers of ships and gross tonnage respectively.

5.3. The ships built and delivered recorded in terms of gross tonnage (GT), were of the order 104 million GT in 2011 (Table 5.4) reflecting an increase of 8.3% over 96 million GT completed in 2010. In terms of number, the total number of ships completed decreased to 3422 units in 2011 from 3531 units in 2010. The high volume of completions was contributed by Ore & Bulk Carriers of 53.5 million GT in 2011, which were up by 11.07 million GT over the previous year (Table 5.5).

5.4. Tables 5.2 & 5.4 provide country-wise data on the ship order book position and ship completion. China, Republic of Korea, and Japan were the top three nations which accounted for a global share of 38.7%, 35.6% and 18.7% respectively in ship completion (deliveries) in terms of gross tonnage in 2011.

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



Source: Shipping Statistics Yearbook 2012

Table No. 5.1

### World Ship-building - Ships On Order And Completed During The Years (1st July) 1998 - 2012

Year	Ships on Order *		Ships Completed @	
	No	1000 gt	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	2383	88663	1731	36786
2004	3338	127396	1931	40586
2005	4324	162852	2317	46904
2006 **	5645	206741	2447	52118
2007	7433	279484	2561	57459
2008	9450	369187	3038	68006
2009	8707	541191	3315	79483
2010	6968	283918	3531	96231
2011	6015	253232	3422	104097
2012	4482	180813	-	-

\* Ships of 300gt and Over.

\*\* As on 1st October, 2006.

@for 1998-2006 all ships of 100gt and above are included and since 2007 onwards 'all ships of 300gt and above are included.

Source : Shipping Statistics Year Books 2011 & 2012

Table No.5.2

### Ships on Order by Major Types and Country of Build (As on 1st July, 2012)

Ships of 300 gt. And above

Country of Build	Tankers		Bulk Carriers		Container Ships		General Cargo Ships		Passenger Ships		Total	
	No.	1000gt	No.	1000gt	No.	1000 TEU	No.	1000 TEU	No.	1000gt	No.	1000gt+TEU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Japan	116	3947	493	22221	12	82	90	1	11	286	722	26537
Korea Rep.	372	23693	183	8880	238	2322	70	24	-	-	863	34919
Italy	3	21	-	-	-	-	-	-	9	712	12	733
China PR of	368	14414	1027	44535	217	949	279	89	8	83	1899	60070
Germany	2	15	-	-	1	1	18	2	11	873	32	891
Poland	-	-	-	-	-	-	9	1	11	84	20	85
Croatia	7	108	3	86	-	-	5	0	2	8	17	202
Spain	-	-	1	-	-	-	-	-	2	20	3	20
Romania	10	68	3	125	4	34	14	1	-	-	31	228
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
US	5	212	-	-	-	-	5	1	2	12	12	225
Taiwan	-	-	2	44	30	170	-	-	-	-	32	214
Ukraine	6	25	-	-	-	-	8	1	-	-	14	26
Netherlands	4	11	-	-	-	-	29	4	1	3	34	18
Bangladesh	4	4	-	-	-	-	32	5	-	-	36	9
France	-	-	-	-	-	-	-	-	2	173	2	173
Russia	49	292	-	-	-	-	22	1	-	-	71	293
Turkey	54	275	2	23	6	6	22	0	10	16	94	320
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	2	37	-	-	-	-	-	-	2	8	4	45
Bulgaria	-	-	1	-	-	-	5	1	-	-	6	1
Philippines	6	564	51	3053	21	115	-	-	-	-	78	3732
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	5	158	5	158
India	-	-	35	764	-	-	39	5	3	7	77	776
Lithuania	-	-	-	-	-	-	8	0	-	-	8	-
Iran	9	430	-	-	-	-	-	-	-	-	9	430
Australia	-	-	-	-	-	-	-	-	3	21	3	21
Brazil	51	2156	2	88	3	8	-	-	7	4	63	2256
Slovakia	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	14	83	2	60	-	-	13	0	-	-	29	143
Singapore	-	-	-	-	1	0	-	-	6	35	7	35
Vietnam	27	271	55	1160	8	9	98	2	-	-	188	1442
Argentina	3	59	2	23	-	-	-	-	-	-	5	82
UAE	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	28	0	2	15	30	15
Sri Lanka	-	-	-	-	-	-	-	-	2	12	2	12
Canada	-	-	-	-	-	-	-	-	1	5	1	5
Czech Republic	-	-	-	-	-	-	9	0	-	-	9	-
Chile	-	-	-	-	-	-	-	-	-	-	-	-
Others	14	36	-	-	-	-	29	0	21	15	64	87
<b>Total</b>	<b>1126</b>	<b>46721</b>	<b>1862</b>	<b>81062</b>	<b>541</b>	<b>3696</b>	<b>832</b>	<b>138</b>	<b>121</b>	<b>2550</b>	<b>4482</b>	<b>180813*</b>

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

Table No. 5.3

## Ship on order by Type

### As on 1st July, 2010-12

Ship Type	Ships of 300gt and over					
	2010		2011		2012	
	No of Ships	1000gt	No of Ships	1000gt	No of Ships	1000gt
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Tankers	1748	73802	1303	592622	1126	46721
Bulk Carriers	3008	142293	2743	126648	1862	81102
Container Ships	660	43489	657	48358	541	40193
General Cargo Ships	1405	20207	1176	16002	832	10247
Passenger Ships	147	4127	136	2961	121	2550
<b>Grand Total</b>	<b>6968</b>	<b>283918</b>	<b>6015</b>	<b>253232</b>	<b>4482</b>	<b>180183</b>

Source: Shipping Statistics Year Books 2011 & 2012.

Table No. 5.4

### Merchant Ships Completed By Country Of Build (2009-2011)

(Ships of 100 gt &amp; Over)

Country of Build	2009		2010		2011	
	No.	1000 gt	No.	1000 gt	No.	1000 gt
(1)	(2)	(3)	(4)	(5)	(6)	(7)
(1) Belgium	-	-	-	-	-	-
(2) Brazil	21	76.5	17	45.7	25	101.7
(3) Denmark (a)	6	455.6	6	431.9	6	118.5
(4) Finland	3	303.7	1	225	3	48.3
(5) France	6	145.3	5	254.2	4	2.0
(6) China	1083	21927.7	1439	36489.8	1464	40329.3
(7) Germany FR of (b)	49	796.8	34	925.6	17	407.7
(8) Italy	24	533.2	35	688.4	13	383.0
(9) Korea, Rep. Of	534	29923	505	31240.6	573	37105.3
(10) Japan	619	20146.2	604	20204.6	564	19443.2
(11) Netherlands	25	133.4	21	136.6	23	172.7
(12) Norway	10	42.7	7	20.5	6	12.1
(13) Poland	48	376.4	40	162.9	28	101.4
(14) Spain	42	221.4	57	316.8	43	208.3
(15) Philippines	25	645.5	35	1161.4	29	1630.2
(16) United Kingdom	0	0	0	0	0	0.0
(17) United States	105	301.8	73	236.7	46	119.0
(18) Other Countries	715	3453.8	652	3690.8	578	3914.7
<b>World Total</b>	<b>3315</b>	<b>79483.0</b>	<b>3531</b>	<b>96231.5</b>	<b>3422</b>	<b>104097.4</b>

(a) Includes Faeroes.

(b) Figures for the Federal Republic of Germany include the former German Democratic Republic.

\* Data relates to vessels of all size of capacity completed during the financial year ended on 31st March and the year given in respective column above should be read as 2006-07 for year 2006, 2007-08 for 2007 and so on.

# Capacity is in term of DWT and the figure given were in financial year wise.

Source : Shipping Statistics Year Book 2012 for countries other than India.

Table No. 5.5

## World Merchant Ships Completed By Principle Types (1986-2011)

(Ships of 100gt and over)

Year	Oil Tankers		Bulk/Oil Carriers(a)		Ore & Bulk Carriers		General Cargo(b),(d)		General Cargo (c)	
	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	375	16874	2	142	163	6323	204	2299	...	...
2004	387	15662	-	-	256	10260	258	2792	...	...
2005	426	16615	-	-	311	12492	383	3311	...	...
2006	439	14195	-	-	315	13257	292	1498	...	...
2007	582	17619	-	-	323	13398	505	4948	...	...
2008	750	21204	-	-	352	13300	540	6294	...	...
2009	747	26492	1	162	567	23577	600	6622	...	...
2010	629	22408	4	688	983	42443	614	7526	...	...
2011	531	23113	3	516	1192	53517	641	7419	...	...

Table No. 5.5  
(Contd.)

World Merchant Ships Completed By Principle Types  
(1986-2011)

(Ships of 100gt and over)

Year	Container Ships(a),(c)		Liquified Gas & Chemical Carriers		All Fishing Types		Miscellaneous		Total	
	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt	No.	1000gt
(1)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1986	61	1806	82	444	391	240	401	1487	1634	16845
1987	41	1125	60	202	526	260	380	1058	1528	12259
1988	38	1473	55	153	576	380	362	583	1575	10909
1989	46	1247	97	653	518	377	363	881	1593	13236
1990	68	1655	117	789	498	334	365	894	1672	15885
1991	78	1910	131	963	367	238	350	945	1574	16095
1992	88	2173	125	883	231	197	394	1026	1506	18633
1993	92	2083	131	1137	229	137	424	1196	1560	19714
1994	142	3128	106	1333	160	137	359	736	1466	18845
1995	166	3706	106	1243	157	86	401	1128	1565	22236
1996	201	4591	149	1746	175	99	435	1448	1732	25527
1997	247	5761	124	1627	186	94	546	1300	1850	24828
1998	256	6034	150	1759	164	74	524	1900	1729	25334
1999	124	2929	133	2186	144	104	526	1930	1564	27649
2000	155	2571	67	2028	247	163	462	2078	1650	31768
2001	188	6980	51	616	262	124	498	2717	1695	31342
2002	201	7217	64	1521	140	73	631	2420	1709	33556
2003	176	6282	107	2608	137	96	567	2162	1731	36786
2004	179	7105	90	2687	161	102	600	1978	1931	40586
2005	268	10307	86	2686	123	50	720	1443	2317	46904
2006	352	14640	124	3768	75	51	850	4685	2447	52118
2007	398	14563	133	4381	41	31	579	2519	2561	57459
2008	429	16259	171	7928	33	37	763	2983	3038	68006
2009	290	12048	201	7242	34	36	875	3306	3315	79483
2010	273	14714	148	4077	37	36	843	4340	3531	96231
2011	194	13599	109	1963	25	25	727	3946	3422	104097

(a) : Includes Ore/Oil Carriers.

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

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

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

Source : Shipping Statistics Year Book, 2012.

Table No. 5.6

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

(Ships of 300 gt and over)

Country	2011			2012		
	Total Order Book			Total Order Book		
	No	1000gt	1000gt	No	1000gt	1000gt
1	2	3	4	5	6	7
China, PR of	2588	47351	100631	1899	34815	72969
Croatia	21	346	431	17	202	254
Denmark	3	44	59	3	4	1
Finland	4	96	108	5	161	158
France	4	329	313	3	192	173
Germany, FR of	38	1393	1411	32	1163	1215
Italy	20	1021	975	13	764	742
Japan	953	18652	40366	722	13907	29254
Korea, Republic of	1254	39283	87009	863	29792	60390
Netherlands	46	255	194	34	191	132
Poland	28	188	133	21	177	127
Romania	36	653	1190	31	375	603
Russia	70	460	368	71	474	381
Spain	6	61	42	4	36	27
Turkey	117	962	660	94	715	486
U.S	15	287	436	12	287	488
Other Countries	812	10238	18906	658	7611	13413
<b>Total</b>	<b>6015</b>	<b>121619</b>	<b>253232</b>	<b>4482</b>	<b>90866</b>	<b>180813</b>

Source: Shipping Statistics Year Books 2011 &amp; 2012

## TERMINOLOGY USED IN SHIPPING

### A. Terms Relating To A Ship

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

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

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

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

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

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

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

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

**Lighterage** - Loading into and discharging out of lighters.

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

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

**Port Side** - Left side of a ship.

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

**Starboard Side** - Right side of a ship.

## B. TERMS RELATING TO TYPE OF SHIPS

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

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

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

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

**Cargo Ship** - A ship which is not a passenger ship

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

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

**Collier** - Generally a coastal ship designed to carry coal.

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

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

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

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

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

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

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

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

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

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

**Lash** - Lighter aboard ship.

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

**Liner Ship** - A ship that plies on 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 crantage 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 unberthed passenger.

**Unberthed Passenger Ship** - A ship carrying more than thirty unberthed passengers.

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