

## 4. Sea and Coastal Transport



Mangalore Port India



## 4. SEA AND COASTAL TRANSPORT

### Concepts and Definitions

**Av. Turn Round Time-** Total time spent by a ship since its entry till its departure.

**Berth-Day-** A day of occupation of berth (quay or mooring) by a ship.

**Av. Pre-berthing Detention(On Port Account, On Non-Port Account)-** The time for which a ship waits before getting entry into a berth.

**Output per ship berth day**(Container, Break-bulk, Dry Bulk-Mechanical, Dry Bulk-Conventional, Liquid Bulk)Total tonnage handled distributed over the total number of berth days.

**Idle time-** Non-working time of ship ( without loading or unloading of cargo) at berth.

**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.

**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 cubic feet = 1 ton) occupied by stores, fuel, machinery, crew etc. , which does not represent the earning capacity of the ship.

**Dry Cargo-** are freight such as coal, finished steel or its ingredients, grain, sand or gravel, and similar materials.

**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 small craft; also called tow boat, tug.

**TUG-** Powered craft developing not less than 37 KW and designed for the towing of dumb barges, pushed towed barges, rafts, but not for the carriage of goods.

**Tankers (Product Carrier)-** A cargo ship constructed or adapted for carriage in bulk of liquid cargoes of an inflammable nature.

**Roll On/Roll Off vessel (RO-RO)** It is frequently called a vehicle FERRY. It is designed for the conveyance of road vehicle 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 craning and cargo handling (and also pilferage) and permitting a quick turn round of the ship.

**Dredgers**- is a ship or boat equipped with a dredge; a device for scraping or sucking the seabed.

**Cellular Container** -A container comprising of one or more parallel and modular rows of cells capable of housing and supporting fragile products.

**Dead Weight Tonnage (DWT)** - Deadweight tonnage (often abbreviated as DWT for deadweight tonnes) is the displacement at any loaded condition minus the lightship weight. It includes the crew, passengers, cargo, fuel, water, and stores. Like Displacement, it is often expressed in long tons or in metric tons. This presents the actual carrying capacity of a ship. Lightship or Lightweight measures the actual weight of the ship with no fuel, passengers, cargo, water, etc. on board.

**Break Bulk Cargo** or **general cargo** is a term that covers a great variety of goods that must be loaded individually, and not in bulk as with oil or grain. Ships that carry this sort of cargo are often called general cargo ships.

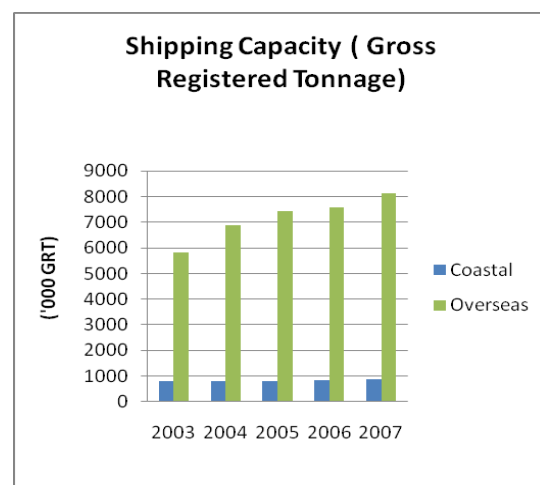
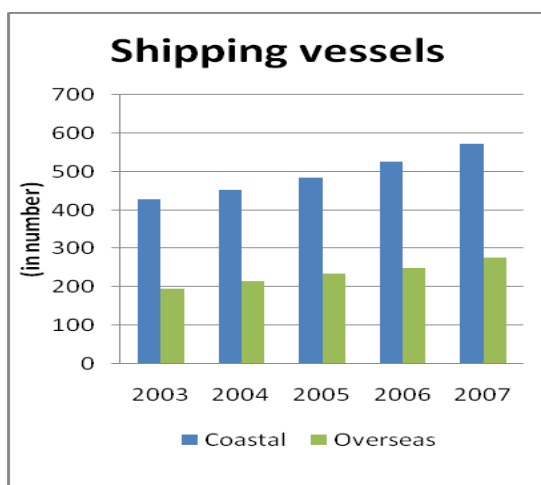
**Container Cargo /Containerization (or containerisation)**- is a system of intermodal freight transport using standard intermodal containers that are standardised by the International Organization for Standardization (ISO). These can be loaded and sealed intact onto container ships, railroad cars, planes, and trucks.

## 4. SEA AND COASTAL TRANSPORT

4.1 The chief data source for this sector is Transport Research Wing. of the Ministry of Road Transport and Highways. Unless otherwise stated analytical highlights given below are based on Table No. 4.0 on Trends in Important Indicators of Sea & Coastal Infrastructure.

### Accessibility

4.2 Number of major ports remained at 12 during 2003 to 2008 and number of non major ports increased from 185 in 2003 to 187 in 2008. Accessibility of sea and coastal transport improved in

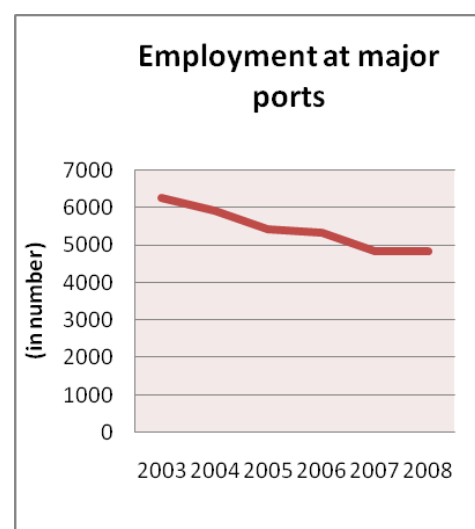
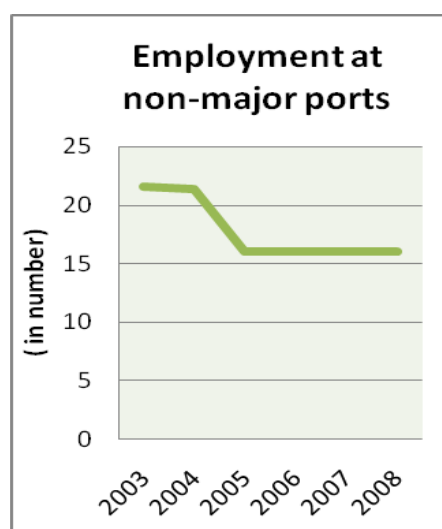


terms of number of shipping vessels. Both number of shipping vessels and gross registered tonnage has shown good increase during the period.

4.3 Number of coastal shipping vessels increased from 429 in 2003 to 573 in 2007. Similarly number of overseas shipping vessels increased from 196 in 2003 to 277 in 2007.

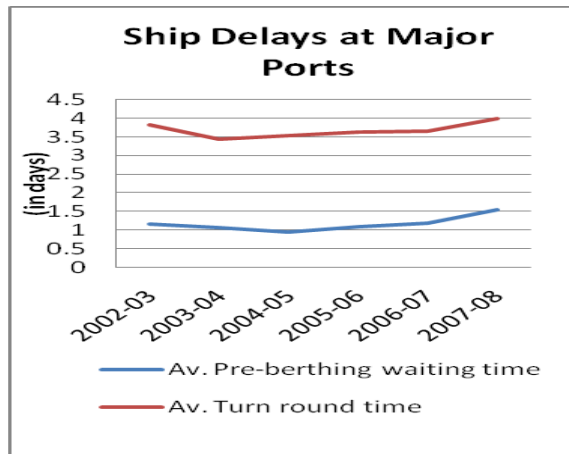
### Quality

4.4 Employment of both major and non-major ports is showing a declining trend. Average employment per port, at major ports decreased from 6250 in 2003 to 4833 in 2008 and at non-major ports it decreased from 22



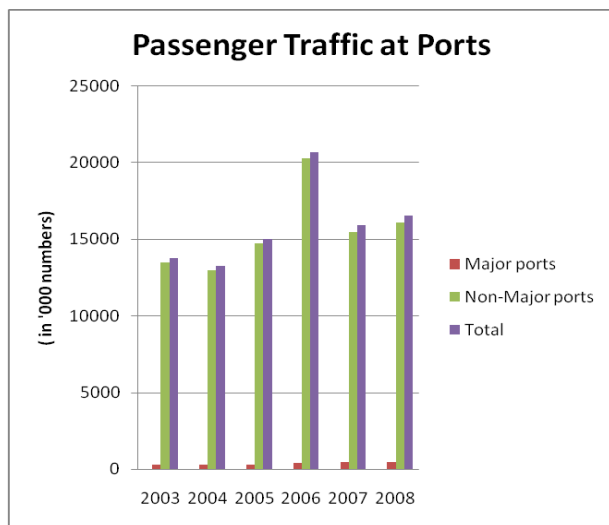
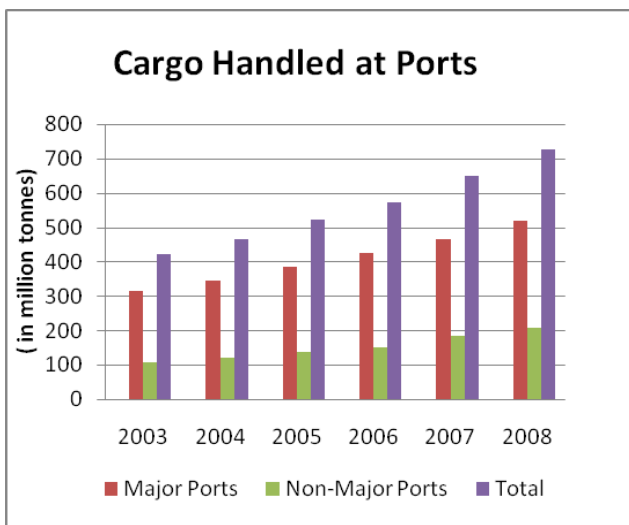
to 16 during the same period. While on the one hand employment at ports is showing a declining trend, on the other hand output per ship berth day increased at major ports from 8107 tonnes to 9440 tonnes showing a CAGR of 3% (Table 4B.2). This may be due to use of better technology and machinery.

4.5 The quality of major port services in terms of average pre berthing waiting time and average turn around time has slowly deteriorated during the reference period (2002-03 to 2007-08) (Table 4B.2).



**Fiscal cost**

4.6 Central budgetary support for the sector increased from ₹1159 crore in 2002-03 to ₹2109 crore in 2007-08. Average utilisation of funds during the period is 47% (Table 4C.3).



**Utilisation**

4.7 Number of vessels sailed increased from 15829 in 2002-03 to 21529 in 2007-08 showing a CAGR of 6% (Table 4C.3). Utilisation of port services has increased over the years both in terms of cargo handled and passenger traffic. The trend is similar both for major and non major ports.

4.8 Total cargo handled at major and non major ports increased from 422 million tonnes in 2003 to 726 million tonnes in 2008. Similarly total passenger traffic handled increased from 13.7 million in 2003 to 16.5 million in 2008. Average capacity utilization for major ports increased from 90% in 2006-07 and 96% in 2007-08 (Table 4D.5).

### **Affordability**

4.9 Contrary to general trends, average tariff for both cargo and passenger traffic is going down from 2002-03 to 2007-08 (Table 4E.1). Average tariff per tonne km. of cargo decreased from ₹125/- in 2002-03 to ₹121.5/- in 2007-08. Average tariff per passenger km. decreased from ₹85/- in 2002-03 to ₹67/- in 2007-08.





**Table 4.0 : Trends in Important Indicators of Sea and Coastal Infrastructure**

| Sl. No.  | Item                           | 2003               | 2004    | 2005    | 2006    | 2007    | 2008    | CAGR % |
|--|--------------------------------|--------------------|---------|---------|---------|---------|---------|--------|
| ( Reference Date / Period  |                                |                    |         |         |         |         |         |        |
| - As on 31st March for Stock Variable                                |                                |                    |         |         |         |         |         |        |
| - Financial Year ending on 31 <sup>st</sup> March for Flow Variable) |                                |                    |         |         |         |         |         |        |
| <b>A</b>   |                                | <b>ACCESS</b>      |         |         |         |         |         |        |
| <b>I Ports (in number)</b>   |                                |                    |         |         |         |         |         |        |
| 1  | Major Ports                    | 12                 | 12      | 12      | 12      | 12      | 12      | 0      |
| 2  | Non-Major Ports                | 185                | 185     | 187     | 187     | 187     | 187     | 0.22   |
| 3  | Total                          | 197                | 197     | 199     | 199     | 199     | 199     | 0.20   |
| <b>II Total Number of Vessels</b>                                    |                                |                    |         |         |         |         |         |        |
| 4  | Coastal                        | 429                | 454     | 485     | 526     | 573     | -       | 7.50   |
|  | GRT ('000 GRT)                 | 806                | 808     | 816     | 841     | 893     | -       | 2.60   |
| 5  | Overseas                       | 196                | 215     | 236     | 250     | 277     | -       | 9.03   |
|  | GRT('000 GRT)                  | 5817               | 6893    | 7427    | 7577    | 8136    | -       | 8.75   |
| <b>B</b>   |                                | <b>QUALITY</b>     |         |         |         |         |         |        |
| <b>III Employment ('000 Nos.)</b>                                    |                                |                    |         |         |         |         |         |        |
| 6  | Major Ports                    | 75                 | 71      | 65      | 64      | 58      | 58      | -5.01  |
| 7  | Non-Major Ports                | 4                  | 4       | 3       | 3       | 3       | 3       | -5.59  |
| <b>IV Employment Per Port (in number)</b>                            |                                |                    |         |         |         |         |         |        |
| 8  | Major Ports                    | 6250               | 5917    | 5417    | 5333    | 4833    | 4833    | -5.01  |
| 9  | Non-Major Ports                | 22                 | 21      | 16      | 16      | 16      | 16      | -5.79  |
| <b>C</b>   |                                | <b>FISCAL COST</b> |         |         |         |         |         |        |
| <b>V Financial Performance (Rs. in crore) *</b>                      |                                |                    |         |         |         |         |         |        |
| 10   | Major Ports                    |                    |         |         |         |         |         |        |
|  | Total Revenue                  | 491110             | 474000  | 545290  | 598130  | 692790  | 761590  | 9.17   |
|  | Total Expenditure              | 375630             | 407540  | 435550  | 393690  | 461540  | 465860  | 4.40   |
| 11   | Port Sector                    |                    |         |         |         |         |         |        |
|  | Outlay                         | 1159               | 1200.89 | 1066.95 | 1163.45 | 1364.25 | 2109.27 | 12.72  |
|  | Expenditure                    | 541.89             | 347.89  | 360.97  | 639.97  | 1000.78 | 884.68  | 10.30  |
| <b>D</b>   |                                | <b>UTILISATION</b> |         |         |         |         |         |        |
| <b>VI Cargo Handled (Million Tonnes)</b>                             |                                |                    |         |         |         |         |         |        |
| 12   | Major Ports                    | 313.55             | 344.80  | 383.76  | 423.57  | 463.78  | 519.31  | 10.62  |
|  | % Share to Total Cargo Handled | 74.33              | 74.36   | 73.70   | 73.83   | 71.49   | 71.56   | -0.76  |
| 13   | Non-Major Ports                | 108.30             | 118.86  | 136.96  | 150.12  | 184.92  | 206.38  | 13.76  |
|  | % Share to Total Cargo Handled | 25.67              | 25.64   | 26.30   | 26.17   | 28.51   | 28.44   | 2.07   |
| 14   | Total                          | 421.85             | 463.66  | 520.72  | 573.69  | 648.70  | 725.69  | 11.46  |

\* Financial performance of non-major ports is not available.

**Table 4.0 : Trends in Important Indicators of Sea and Coastal Infrastructure**

| Sl. No.  | Item   | 2003  | 2004  | 2005  | 2006   | 2007  | 2008  | CAGR % |
|--|--|-------|-------|-------|--------|-------|-------|--------|
| ( Reference Date / Period  |  |       |       |       |        |       |       |        |
| - As on 31st March for Stock Variable                                |  |       |       |       |        |       |       |        |
| - Financial Year ending on 31 <sup>st</sup> March for Flow Variable) |  |       |       |       |        |       |       |        |
| <b>D</b>   | <b>UTILISATION</b>                                       |       |       |       |        |       |       |        |
| <b>VII</b>   | <b>Cargo Handled per Port (Million Tonnes)</b>           |       |       |       |        |       |       |        |
| 15   | Major Ports  | 26.13 | 28.73 | 31.98 | 35.30  | 38.65 | 43.28 | 10.62  |
| 16   | Non-Major Ports  | 0.59  | 0.64  | 0.73  | 0.80   | 0.99  | 1.10  | 13.52  |
| 17   | Total  | 2.14  | 2.33  | 2.62  | 2.88   | 3.26  | 3.65  | 11.23  |
| <b>VIII</b>  | <b>Container Cargo</b>                                   |       |       |       |        |       |       |        |
| 18   | Major Ports ('000 TEUs)                                  | 3362  | 3895  | 4235  | 4613   | 5539  | 6705  | 14.80  |
|  | ('000 Tonnes)  | 43694 | 51035 | 54791 | 62009  | 73469 | 92247 | 16.12  |
| 19   | % Share to Total Cargo Handled at Major Ports            | 13.94 | 14.80 | 14.28 | 14.64  | 15.84 | 17.76 | 4.97   |
| <b>IX</b>  | <b>Passenger Traffic ('000 Nos.)</b>                     |       |       |       |        |       |       |        |
| 20   | Major Ports  | 280   | 304   | 311   | 408    | 431   | 431   | 9.01   |
|  | % Share to Total Traffic                                 | 2.04  | 2.29  | 2.07  | 1.97   | 2.71  | 2.61  | 5.06   |
| 21   | Non-Major Ports  | 13474 | 12985 | 14738 | 20268  | 15502 | 16108 | 3.64   |
|  | % Share to Total Traffic                                 | 97.96 | 97.71 | 97.93 | 98.03  | 97.29 | 97.39 | -0.12  |
| 22   | Total  | 13754 | 13289 | 15049 | 20676  | 15933 | 16539 | 3.76   |
| <b>X</b>   | <b>Passenger Traffic per Port (in number)</b>            |       |       |       |        |       |       |        |
| 23   | Major Ports  | 23333 | 25333 | 25917 | 34000  | 35917 | 35917 | 9.01   |
| 24   | Non-Major Ports  | 72832 | 69439 | 78813 | 108385 | 82898 | 86139 | 3.41   |
| 25   | Total  | 69817 | 66779 | 75623 | 103899 | 80065 | 83111 | 3.55   |
| <b>XI</b>  | <b>Vessels Sailed (in number)</b>                        |       |       |       |        |       |       |        |
| 26   | Major Ports  | 15829 | 16651 | 17378 | 19171  | 20168 | 21529 | 6.34   |
| <b>E</b>   | <b>AFFORDABILITY</b>                                     |       |       |       |        |       |       |        |
| 27   | Average Tariff per Tonne km of Cargo Transported (in Rs) | 124.8 | 122.7 | 122.9 | 120.5  | 126.9 | 121.6 | -0.53  |
| 28   | Average Tariff per Passenger km (in Rs.)                 | 84.6  | 77.7  | 74.3  | 70.9   | 70.4  | 67.3  | -4.45  |

Source:1.Material supplied by TRW, M/o Shipping  
2.Indian Shipping Statistics published by M/o Shipping

**Table 4A.1 : Indian Coastal Shipping Fleet as on 31st December**

|  |   | (in numbers) |      |      |      |       |
|--|---|--------------|------|------|------|-------|
| Sl. No.                                  | Item  | 2003         | 2004 | 2005 | 2006 | 2007  |
| 1  | Total Number of Vessels                                     | 429          | 454  | 485  | 526  | 573   |
| 2  | GRT ('000 GRT)  | 806          | 808  | 816  | 841  | 893   |
| <b>No of vessels by type:-</b>           |   |              |      |      |      |       |
| 3  | Dry Cargo*  | 263          | 282  | 305  | 332  | 359   |
| 4  | Dry Cargo Bulk Carrier                                      | 9            | 9    | 10   | 10   | 11    |
| 5  | Tankers @   | 17           | 16   | 14   | 15   | 17    |
| 6  | Passenger cum Cargo   | 36           | 37   | 17   | 20   | ** 57 |
| 7  | Passenger Service   |              |      | 21   | 26   |       |
| 8  | Ethylene Gas Carrier  |              |      | 3    | 3    |       |
| 9  | RO-RO   |              |      | 1    | 1    |       |
| 10                                       | Dredgers  |              |      | 18   | 19   |       |
| 11                                       | Offshore Supply Vessels                                     | 73           | 78   | 82   | 87   | 94    |
| 12                                       | Specialised Vessels for Offshore Services                   | 31           | 32   | 36   | 36   | 35    |
| 13                                       | Port Trusts & Maritime Boards                               |              |      | 90   | 91   |       |
| 14                                       | Cellular Container  |              |      | -    | -    |       |
| 15                                       | Ore/Oil Bulk Carriers                                       |              |      | -    | -    |       |
| 16                                       | Acid Carriers   |              |      | -    | -    |       |
| 17                                       | LPG Carriers  |              |      | -    | -    |       |
| 18                                       | Supply Vessels  |              |      | -    | -    |       |
| 19                                       | Barges  |              |      | 3    | -    |       |
| <b>No of Vessels by size('000 GRT):-</b> |   |              |      |      |      |       |
| 20                                       | 100-999   | 274          | 301  | 331  | 362  | 397   |
| 21                                       | 1000-4999   | 122          | 120  | 121  | 132  | 142   |
| 22                                       | 5000-9999   | 15           | 15   | 15   | 14   | 16    |
| 23                                       | 10000-19999   | 10           | 10   | 10   | 10   | 18    |
| 24                                       | 20000 and above   | 8            | 8    | 8    | 8    |       |
| 25                                       | Total No. of Shipping Companies                             | 119          | 129  | 142  | 151  | 174   |
| 26                                       | No of Companies having one Ship                             | 58           | 63   | 72   | 77   | 94    |
| 27                                       | No of Companies having more than one but less than 10 Ships | 51           | 56   | 58   | 62   | 65    |
| 28                                       | No of Companies having 10 or more ships                     | 10           | 10   | 12   | 12   | 15    |

- Nil

\* Includes Tugs, Ro-Ro Vessels, Dredgers, Barges & Port Trust Maritime Board.

\*\* Includes Passenger Vessels

@ Includes Acid, LPG & Gas Carriers.

Source:1.Material supplied by TRW,M/o Shipping

**Table 4A.2 : Overseas Shipping Fleet as on 31st December**

(in numbers)

| Sl. No.                                  | Item  | 2003 | 2004 | 2005 | 2006 | 2007 |
|--|---|------|------|------|------|------|
| 1  | Total Number of Vessels                                     | 196  | 215  | 236  | 250  | 277  |
| 2  | GRT('000 GRT)   | 5817 | 6893 | 7427 | 7577 | 8136 |
| <b>No of vessels by type:-</b>           |   |      |      |      |      |      |
| 3  | Dry Cargo Liner*  | 14   | 17   | 26   | 38   | 55   |
| 4  | TUG   |      |      |      |      |      |
| 5  | Dry Cargo Bulk Carrier                                      | 78   | 82   | 89   | 87   | 95   |
| 6  | Oil Tankers^  | 98   | 110  | 116  | 120  | 122  |
| 7  | Tankers (Crude Oil Carrier)                                 |      |      |      |      |      |
| 8  | Passenger cum Cargo   | 2    | 2    | 3    | 3    | ** 3 |
| 9  | Passenger Service   |      |      | -    | -    |      |
| 10                                       | Ethylene Gas Carrier  |      |      | -    | -    |      |
| 11                                       | RO-RO   |      |      | -    | -    |      |
| 12                                       | Dredgers  |      |      | -    | -    |      |
| 13                                       | Offshore Supply Vessels                                     |      |      | -    | -    |      |
| 14                                       | Offshore Supply Vessels for Offshore Services               |      |      | -    | -    |      |
| 15                                       | Port Trusts & Maritime Boards                               |      |      | -    | -    |      |
| 16                                       | Cellular Container  |      |      | -    | -    |      |
| 17                                       | Ore/Oil Bulk Carriers                                       | 2    | 2    | 2    | 2    | 2    |
| 18                                       | Acid Carriers   |      |      | -    | -    |      |
| 19                                       | LPG Carriers  |      |      | -    | -    |      |
| 20                                       | Supply Vessels  |      |      | -    | -    |      |
| 21                                       | Timber Carrier  | 2    | 2    | -    | -    | 0    |
| <b>No of Vessels by size('000 GRT):-</b> |   |      |      |      |      |      |
| 22                                       | 100-999   | 1    | 1    | 6    | 7    | 10   |
| 23                                       | 1000-4999   | 12   | 17   | 22   | 36   | 44   |
| 24                                       | 5000-9999   | 6    | 7    | 13   | 9    | 12   |
| 25                                       | 10000-19999   | 49   | 48   | 42   | 42   | 43   |
| 26                                       | 20000-34999   | 70   | 76   | 81   | 81   | 82   |
| 27                                       | 35000-49999   | 26   | 22   | 24   | 25   | 33   |
| 28                                       | 50000-84999   | 32   | 40   | 43   | 45   | 48   |
| 29                                       | 85000 & above   |      | 4    | 5    | 5    | 5    |
| 30                                       | Total No. of Shipping Companies                             | 35   | 42   | 54   | 65   | 68   |
| 31                                       | No of Companies having one Ship                             | 18   | 24   | 35   | 40   | 40   |
| 32                                       | No of Companies having more than one but less than 10 Ships | 14   | 15   | 15   | 21   | 23   |
| 33                                       | No of Companies having 10 or more                           | 3    | 3    | 4    | 4    | 5    |

- Nil

\* Includes Cellular containers, containers, Dredgers, Ro-Ro Container Vessels, Supply Vessels, Tugs

^ Includes Acid, LPG and Gas Carriers

\*\* Includes Passenger Vessels

Source : 1. Material supplied by TRW, M/o Shipping

2. Indian Shipping Statistics published by M/o Shipping

**Table 4A.3 : Statewise Number of Ports, Number of Berths and Maximum Size of Ships that can be Accommodated at Various Berths(DWT) as on 31.03.2008**

| Sl. No. | State/Port              | Number of Ports | Number of Berths | Maximum size of Ships that can be accommodated at various berths(DWT) |
|---------|-------------------------|-----------------|------------------|---|
| 1       | <b>Gujarat</b>          |                 |                  |   |
|         | Major Port              | 1               | 18+3SBM+A        | 3,00,000  |
| 2       | Non-Major Port          | 40              |                  |   |
|         | <b>Maharashtra</b>      |                 |                  |   |
| 3       | Major Port              | 2               | 61+A             | 1,00,000  |
|         | Non-Major Port          | 53              |                  |   |
| 4       | <b>Goa</b>              |                 |                  |   |
|         | Major Port              | 1               | 6+TRANS          | 70,000  |
| 5       | Non-Major Port          | 5               |                  |   |
|         | <b>Karnataka</b>        |                 |                  |   |
| 6       | Major Port              | 1               | 13               | 90,000  |
|         | Non-Major Port          | 10              |                  |   |
| 7       | <b>Kerala</b>           |                 |                  |   |
|         | Major Port              | 1               | 15               | 1,15,000  |
| 8       | Non-Major Port          | 13              |                  |   |
|         | <b>Tami Nadu</b>        |                 |                  |   |
| 9       | Major Port              | 3               | 36+Bzone         | 77,400  |
|         | Non-Major Port          | 15              |                  |   |
| 10      | <b>Andhra Pradesh</b>   |                 |                  |   |
|         | Major Port              | 1               | 22               | -   |
| 11      | Non-Major Port          | 12              |                  |   |
|         | <b>Orissa</b>           |                 |                  |   |
| 12      | Major Port              | 1               | 14               | 75,000  |
|         | Non-Major Port          | 2               |                  |   |
| 13      | <b>West Bengal</b>      |                 |                  |   |
|         | Major Port              | 1               | 50+A+2BJ         | 1,50,000  |
| 14      | Non-Major Port          | 1               |                  |   |
|         | <b>Puducherry</b>       |                 |                  |   |
| 15      | Major Port              | -               | -                | -   |
|         | Non-Major Port          | 1               |                  |   |
| 16      | <b>A &amp; N Island</b> |                 |                  |   |
|         | Major Port              | -               | -                | -   |
| 17      | Non-Major Port          | 23              |                  |   |
|         | <b>Lakshadweep</b>      |                 |                  |   |
| 18      | Major Port              | -               | -                | -   |
|         | Non-Major Port          | 10              |                  |   |
| 19      | <b>Daman and Diu</b>    |                 |                  |   |
|         | Major Port              | -               | -                | -   |
| 20      | Non-Major Port          | 2               |                  |   |

Note: Statewise information on Non-Major Port regarding No. of Berths & Maximum size of Ships that can be accommodated is not available.

SBM- Single Buoy Mooring      TRANS- Transhipper  
 BJ- Barge Jetty                      A- Anchorage  
 Bzone-- Small Vessels handled at Zone B-Tuticorin  
 - Nil

Source : Material supplied by TRW, M/o Shipping

**Table 4B.1 : Physical Performance Indicators by Type of Vessels during 2002-03 to 2007-08- Major Ports**

| Sl. No.  | Item/Year   | Category of Vessels |                  |              |              |                   | All Type     |
|----------|---|---------------------|------------------|--------------|--------------|-------------------|--------------|
|          |   | Dry Bulk (Mech.)    | Dry Bulk (Conv.) | Liquid Bulk  | Break-Bulk   | Container Vessels |              |
| <b>1</b> | <b>Vessels Sailed (in number)</b>                       |                     |                  |              |              |                   |              |
|          | 2002-03   | 1519                | 2163             | 4920         | 2820         | 4482              | 15829        |
|          | 2003-04   | 1649                | 2427             | 5238         | 2780         | 4624              | 16651        |
|          | 2004-05   | 1788                | 3016             | 5394         | 2784         | 4430              | 17378        |
|          | 2005-06   | 1851                | 3405             | 5813         | 2978         | 5172              | 19171*       |
|          | 2006-07   | 1734                | 3661             | 6134         | 3113         | 5604              | 20168*       |
|          | 2007-08   | 1748                | 4465             | 6396         | 3192         | 5824              | 21529*       |
|          | <b>CAGR %</b>   | <b>2.85</b>         | <b>15.60</b>     | <b>5.39</b>  | <b>2.51</b>  | <b>5.38</b>       | <b>6.34</b>  |
| <b>2</b> | <b>Av. Pre-berthing waiting time (days)</b>             |                     |                  |              |              |                   |              |
|          | 2002-03   | 1.95                | 1.35             | 0.83         | 2.01         | 0.45              | 1.17         |
|          | 2003-04   | 3.34                | 1.21             | 0.84         | 1.2          | 0.43              | 1.08         |
|          | 2004-05   | 1.59                | 1.23             | 1.04         | 0.92         | 0.49              | 0.96         |
|          | 2005-06   | 1.74                | 1.71             | 1.1          | 1.14         | 0.54              | 1.11         |
|          | 2006-07   | 1.62                | 1.85             | 1            | 1.74         | 0.43              | 1.2          |
|          | 2007-08   | 1.97                | 2.89             | 1.28         | 1.68         | 0.71              | 1.55         |
|          | <b>CAGR %</b>   | <b>0.20</b>         | <b>16.44</b>     | <b>9.05</b>  | <b>-3.52</b> | <b>9.55</b>       | <b>5.79</b>  |
| <b>3</b> | <b>Av. Turn round time (days)</b>                       |                     |                  |              |              |                   |              |
|          | 2002-03   | 4.25                | 6.48             | 2.3          | 5.77         | 2.05              | 3.81         |
|          | 2003-04   | 5.57                | 5.41             | 2.49         | 4.94         | 1.79              | 3.45         |
|          | 2004-05   | 4.26                | 5.67             | 2.76         | 4.91         | 1.93              | 3.54         |
|          | 2005-06   | 4.58                | 6.21             | 2.82         | 4.87         | 1.77              | 3.63         |
|          | 2006-07   | 4.09                | 6.24             | 2.25         | 5.4          | 1.52              | 3.65         |
|          | 2007-08   | 4.16                | 6.61             | 2.85         | 5.45         | 2                 | 3.98         |
|          | <b>CAGR %</b>   | <b>-0.43</b>        | <b>0.40</b>      | <b>4.38</b>  | <b>-1.13</b> | <b>-0.49</b>      | <b>0.88</b>  |
| <b>4</b> | <b>% of idle time at berth to working time at berth</b> |                     |                  |              |              |                   |              |
|          | 2002-03   | 33.0                | 20.9             | 27.2         | 26.3         | 21.7              | 25.0         |
|          | 2003-04   | 36.0                | 19.4             | 24.3         | 29.7         | 17.3              | 24.2         |
|          | 2004-05   | 32.1                | 19.4             | 25           | 28.9         | 17                | 23.7         |
|          | 2005-06   | 30.5                | 20.4             | 25.9         | 27.6         | 15.6              | 23.6         |
|          | 2006-07   | 38.2                | 26.5             | 20.2         | 36.8         | 15.3              | 36.3         |
|          | 2007-08   | 24.9                | 19.3             | 24.5         | 22.2         | 16.5              | 22.3         |
|          | <b>CAGR %</b>   | <b>-5.48</b>        | <b>-1.58</b>     | <b>-2.07</b> | <b>-3.33</b> | <b>-5.33</b>      | <b>-2.26</b> |
| <b>5</b> | <b>Output per ship berth day (tonnes)</b>               |                     |                  |              |              |                   |              |
|          | 2002-03   | 23457               | 5226             | 17756        | 1602         | 6842              | 8107         |
|          | 2003-04   | 20936               | 6074             | 17330        | 1680         | 8785              | 9215         |
|          | 2004-05   | 22244               | 6373             | 17233        | 1768         | 9205              | 9371         |
|          | 2005-06   | 20786               | 6433             | 17045        | 1904         | 11358             | 9543         |
|          | 2006-07   | 22431               | 6042             | 17575        | 1839         | 19570             | 10326        |
|          | 2007-08   | 20057               | 6394             | 17034        | 1488         | 13776             | 9440         |
|          | <b>CAGR %</b>   | <b>-3.08</b>        | <b>4.12</b>      | <b>-0.83</b> | <b>-1.47</b> | <b>15.02</b>      | <b>3.09</b>  |

\* Total may not tally with breakups since some vessels are double counted in 2005-06,2006-07 and 2007-08 respectively.

Source : Material supplied by TRW, M/o Shipping

**Table 4B.2 : Trend in Physical Performance Indicators of Major Ports**

| Sl. No   | Item  | Kandla       | Mumbai       | Mormugao     | New Mangalore | Cochin       | Tuticorin    | Chennai     | Visakhapatnam | Paradip      | Haldia Dock/System | Kolkata Dock/-1 System | J L Nehru    | Ennore       | All Ports   |
|----------|---|--------------|--------------|--------------|---------------|--------------|--------------|-------------|---------------|--------------|--------------------|------------------------|--------------|--------------|-------------|
| <b>1</b> | <b>Vessels Sailed (in number)</b>           |              |              |              |               |              |              |             |               |              |                    |                        |              |              |             |
|          | 2002-03                                     | 1813         | 1629         | 626          | 832           | 945          | 1426         | 1593        | 1622          | 887          | 1659               | 677                    | 1766         | 154          | 15829       |
|          | 2003-04                                     | 1823         | 1800         | 677          | 876           | 912          | 1479         | 1656        | 1677          | 961          | 1832               | 687                    | 2105         | 166          | 16651       |
|          | 2004-05                                     | 1940         | 1883         | 664          | 1057          | 821          | 1435         | 1669        | 1805          | 1053         | 2086               | 730                    | 2064         | 171          | 17378       |
|          | 2005-06                                     | 2124         | 2053         | 642          | 1080          | 959          | 1548         | 1857        | 2071          | 1187         | 2348               | 734                    | 2395         | 173          | 19171       |
|          | 2006-07                                     | 2318         | 2087         | 699          | 1015          | 907          | 1509         | 2059        | 2052          | 1355         | 2300               | 891                    | 2775         | 201          | 20168       |
|          | 2007-08                                     | 2598         | 2066         | 748          | 1144          | 806          | 1576         | 2053        | 2346          | 1513         | 2335               | 1012                   | 3119         | 213          | 21529       |
|          | <b>CAGR %</b>                               | <b>7.46</b>  | <b>4.87</b>  | <b>3.63</b>  | <b>6.58</b>   | <b>-3.13</b> | <b>2.02</b>  | <b>5.20</b> | <b>7.66</b>   | <b>11.27</b> | <b>7.08</b>        | <b>8.37</b>            | <b>12.05</b> | <b>6.70</b>  | <b>6.34</b> |
| <b>2</b> | <b>Av. Pre-berthing waiting time (days)</b> |              |              |              |               |              |              |             |               |              |                    |                        |              |              |             |
|          | 2002-03                                     | 2.89         | 1.11         | 1.97         | 0.65          | 0.47         | 1.31         | 1.13        | 0.91          | 0.81         | 0.87               | 0.52                   | 0.49         | 0.08         | 1.17        |
|          | 2003-04                                     | 2.04         | 0.87         | 2.59         | 0.55          | 0.43         | 0.7          | 2.28        | 0.76          | 0.74         | 0.97               | 0.52                   | 0.62         | 0.07         | 1.08        |
|          | 2004-05                                     | 1.74         | 0.81         | 2.37         | 0.79          | 0.46         | 0.51         | 0.93        | 0.77          | 0.75         | 1.36               | 0.40                   | 0.77         | 0.07         | 0.96        |
|          | 2005-06                                     | 1.66         | 1.00         | 2.11         | 0.78          | 0.57         | 0.73         | 0.65        | 1.03          | 1.04         | 2.15               | 0.40                   | 0.86         | 0.19         | 1.11        |
|          | 2006-07                                     | 2.68         | 1.00         | 2.53         | 0.64          | 0.58         | 1.24         | 0.58        | 0.93          | 1.06         | 1.92               | 0.43                   | 0.56         | 0.13         | 1.20        |
|          | 2007-08                                     | 2.64         | 0.96         | 2.21         | 0.63          | 0.60         | 1.24         | 1.56        | 1.10          | 2.97         | 2.86               | 0.56                   | 0.83         | 0.30         | 1.55        |
|          | <b>CAGR %</b>                               | <b>-1.79</b> | <b>-2.86</b> | <b>2.33</b>  | <b>-0.62</b>  | <b>5.01</b>  | <b>-1.09</b> | <b>6.66</b> | <b>3.87</b>   | <b>29.67</b> | <b>26.87</b>       | <b>1.49</b>            | <b>11.12</b> | <b>30.26</b> | <b>5.79</b> |
| <b>3</b> | <b>Av. Turn round time (days)</b>           |              |              |              |               |              |              |             |               |              |                    |                        |              |              |             |
|          | 2002-03                                     | 5.94         | 5.06         | 3.78         | 1.90          | 2.66         | 3.59         | 3.66        | 3.72          | 3.00         | 3.02               | 4.47                   | 1.92         | 2.22         | 3.81        |
|          | 2003-04                                     | 5.06         | 4.10         | 4.45         | 2.35          | 2.48         | 2.59         | 4.61        | 3.33          | 3.43         | 3.69               | 4.23                   | 1.73         | 1.94         | 3.45        |
|          | 2004-05                                     | 4.62         | 4.21         | 5.66         | 2.96          | 2.62         | 2.66         | 3.94        | 3.2           | 3.41         | 4.05               | 4.17                   | 1.94         | 1.72         | 3.54        |
|          | 2005-06                                     | 4.39         | 4.06         | 6.06         | 3.00          | 2.70         | 2.83         | 3.32        | 3.79          | 3.56         | 4.89               | 4.12                   | 1.97         | 2.23         | 3.63        |
|          | 2006-07                                     | 5.46         | 4.63         | 6.15         | 3.14          | 2.17         | 3.67         | 3.36        | 3.65          | 3.54         | 3.85               | 4.38                   | 1.43         | 1.89         | 3.65        |
|          | 2007-08                                     | 5.13         | 4.07         | 6.24         | 3.21          | 1.94         | 3.85         | 4.55        | 3.91          | 5.54         | 4.26               | 5.46                   | 1.80         | 2.08         | 3.98        |
|          | <b>CAGR %</b>                               | <b>-2.89</b> | <b>-4.26</b> | <b>10.54</b> | <b>11.06</b>  | <b>-6.12</b> | <b>1.41</b>  | <b>4.45</b> | <b>1.00</b>   | <b>13.05</b> | <b>7.12</b>        | <b>4.08</b>            | <b>-1.28</b> | <b>-1.29</b> | <b>0.88</b> |

Source : Material supplied by TRW, M/o Shipping

**Table 4B.2 (Contd.) : Trend in Physical Performance Indicators of Major Ports**

| Sl. No   | Item  | Kandla      | Mumbai        | Mormu-gao    | New Mangalore | Cochin       | Tuticorin     | Chennai      | Visakha-patnam | Paradip      | Haldia Dock/System | Kolkata Dock/-1 System | J L Nehru    | Ennore       | All Ports    |
|----------|---|-------------|---------------|--------------|---------------|--------------|---------------|--------------|----------------|--------------|--------------------|------------------------|--------------|--------------|--------------|
| <b>4</b> | <b>% of idle time at berth to working time at berth</b> |             |               |              |               |              |               |              |                |              |                    |                        |              |              |              |
|          | <b>2002-03</b>  | 15.9        | 30.3          | 15.8         | 23.7          | 31.8         | 33.1          | 34.2*        | 19.4           | 28.3         | 35.9               | 41.4                   | 11.1         | 16.8         | 25.0         |
|          | <b>2003-04</b>  | 16.8        | 24.2          | 20.2         | 19.1          | 29.4         | 31.6          | 26.6         | 19.7           | 27.2         | 32.9               | 37.5                   | 12.5         | 10.3         | 24.2         |
|          | <b>2004-05</b>  | 16.4        | 19.9          | 19.6         | 17.6          | 28.7         | 30.6          | 29.5         | 21.0           | 31.3         | 30.1               | 37.4                   | 7.6          | 7.0          | 23.7         |
|          | <b>2005-06</b>  | 16.3        | 21.3          | 17.6         | 17.9          | 26.9         | 31.3          | 30.9         | 21.4           | 32.5         | 27.5               | 40.1                   | 7.4          | 10.5         | 23.6         |
|          | <b>2006-07</b>  | 17.0        | 25.6          | 19.8         | 18.0          | 26.4*        | 30.9          | 29.07*       | 22.0           | 29.5         | 37.1               | 35.8                   | 8.0          | 10.5         | 36.3         |
|          | <b>2007-08</b>  | 17.4        | 17.8          | 17.0         | 19.3          | 25.3         | 1.6           | 24.7         | 22.4           | 25.6         | 30.8               | 35.5                   | 8.0          | 11.2         | 22.3         |
|          | <b>CAGR %</b>   | <b>1.82</b> | <b>-10.09</b> | <b>1.47</b>  | <b>-4.02</b>  | <b>-4.47</b> | <b>-45.44</b> | <b>-6.30</b> | <b>2.92</b>    | <b>-1.99</b> | <b>-3.02</b>       | <b>-3.03</b>           | <b>-6.34</b> | <b>-7.79</b> | <b>-2.26</b> |
| <b>5</b> | <b>Output per ship berth day (tonnes)</b>               |             |               |              |               |              |               |              |                |              |                    |                        |              |              |              |
|          | <b>2002-03</b>  | 8933        | 5170          | 14029        | 15936         | 6877         | 4403          | 8660         | 10591          | 10763        | 7531               | 2889                   | 8418         | 26540        | 8107         |
|          | <b>2003-04</b>  | 8659        | 5692          | 16746        | 18044         | 7813         | 5040          | 9654         | 11701          | 10257        | 8388               | 3608                   | 11957        | 32767        | 9215         |
|          | <b>2004-05</b>  | 8434        | 5993          | 17084        | 15569         | 8506         | 5280          | 9629         | 12241          | 11049        | 8395               | 3771                   | 12782        | 38871        | 9371         |
|          | <b>2005-06</b>  | 8700        | 6314          | 16834        | 15057         | 7778         | 5392          | 10378        | 10558          | 11316        | 8755               | 3984                   | 16150        | 33615        | 9543         |
|          | <b>2006-07</b>  | 9843        | 4857          | 17799        | 13080         | 8282         | 5051          | 10165        | 10868          | 11795        | 8770               | 4490                   | 16727        | 35113        | 10326        |
|          | <b>2007-08</b>  | 11216       | 4519          | 10332        | 12664         | 10881        | 5474          | 10032        | 10613          | 11181        | 8353               | 3193                   | 18489        | 35260        | 9440         |
|          | <b>CAGR %</b>   | <b>4.66</b> | <b>-2.66</b>  | <b>-5.93</b> | <b>-4.49</b>  | <b>9.61</b>  | <b>4.45</b>   | <b>2.98</b>  | <b>0.04</b>    | <b>0.76</b>  | <b>2.09</b>        | <b>2.02</b>            | <b>17.04</b> | <b>5.85</b>  | <b>3.09</b>  |

\* Excludes Container Vessels

Source : Material supplied by TRW,M/o Shipping



**Table 4B.3: Employment at Major Ports (As on 31 March)**

| Sl. No.      | Port | (in number)  |              |              |              |              |              | CAGR %       |
|--------------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|              |      | Years        |              |              |              |              |              |              |
|              |      | 2003         | 2004         | 2005         | 2006         | 2007         | 2008         |              |
| 1            | KPT  | 3929         | 3788         | 3574         | 3506         | 3414         | 4237         | 0.66         |
| 2            | MbPT | 22217        | 21480        | 19388        | 19682        | 14935        | 14481        | -8.40        |
| 3            | JNPT | 1820         | 1810         | 1791         | 1779         | 1766         | 1763         | -0.63        |
| 4            | MoPT | 3556         | 3385         | 3243         | 3135         | 3082(a)      | 3018         | -3.41        |
| 5            | NMPT | 2220         | 2124         | 1985         | 1908         | 1832(b)      | 1770         | -4.15        |
| 6            | CoPT | 4414         | 4353         | 3959         | 3849         | 4823         | 4306         | -0.05        |
| 7            | TPT  | 2963         | 2788         | 2589         | 2574         | 2407©        | 2259         | -5.40        |
| 8            | ChPT | 11172        | 10329        | 8842         | 8582         | 9755         | 9065         | -2.12        |
| 9            | EPL  | 17           | 17           | 21           | 20           | 45           | 59           | 29.82        |
| 10           | VPT  | 6227         | 5889         | 5550         | 5216         | 5208         | 5069         | -4.09        |
| 11           | PPT  | 3513         | 3407         | 3306         | 3158         | 3013         | 2910         | -2.94        |
| 12           | KDS  | 8148         | 7551         | 6995         | 6530         | 6138         | 5925         | -6.66        |
| 13           | HDC  | 4473         | 4285         | 4104         | 3964         | 3793         | 3694         | -3.93        |
| <b>Total</b> |      | <b>74669</b> | <b>71206</b> | <b>65347</b> | <b>63903</b> | <b>60211</b> | <b>58556</b> | <b>-4.59</b> |

(a) Includes CHLD the erstwhile NDLB

(b) The cargo handling workers of Port are under "New Mangalore Port Cargo handling workers (Regulation of Employment) Scheme,1990."

© It includes the workers which are managed and administered by the Tuticorin Port Trust Handling Labour Pool (TPTCHLP)

**Table 4B.4: Employment at Non-Major Ports (As on 31 March)**

| Sl. No.      | States/UTs     | (in number) |             |             |             |             |             | CAGR %       |
|--------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
|              |                | Years       |             |             |             |             |             |              |
|              |                | 2003        | 2004        | 2005        | 2006        | 2007        | 2008        |              |
| 1            | Gujarat        | 2662        | 2048        | 1816        | 1265        | 1743        | 1718        | -8.39        |
| 2            | Maharashtra    | 173         | 165         | 154         | 154         | 154         | 153         | -2.43        |
| 3            | Goa            | 166         | 139         | 139         | 134         | 133         | 146         | -2.53        |
| 4            | Daman & Diu    | 22          | 22          | 22          | 22          | 22          | 22          | 0.00         |
| 5            | Karnataka      | 99          | 76          | 105         | 109         | 103         | 55*         | -11.09       |
| 6            | Kerala         | 316         | 257         | 121         | 121         | 185         | 191         | -9.58        |
| 7            | TamilNadu      | 110         | 73          | 89          | 68          | 68          | 62          | -10.83       |
| 8            | Puducherry     | 79          | 79          | 75          | 75          | 42          | 33          | -16.02       |
| 9            | Andhra Pradesh | 109         | 62          | 66          | 57          | 57          | 69          | -8.74        |
| 10           | A & N Island   | 477         | 470         | 468         | 452         | 447         | 452         | -1.07        |
| 11           | Lakshadweep    | -           | -           | -           | -           | -           | 118         | -            |
| <b>Total</b> |                | <b>4213</b> | <b>3391</b> | <b>3055</b> | <b>2457</b> | <b>2954</b> | <b>3019</b> | <b>-6.45</b> |

- Nil

\* Figure related to Karwar & Malpe port only.

Source : Material supplied by TRW,M/o Shipping

**Table 4C.1 : Port-wise Capital Employed, Operating Expenditure and Operating Income**

(Rs. in crore)

| Sl. No.      | Port           | 2006-07          |                       |                  | 2007-08          |                       |                  |
|--------------|----------------|------------------|-----------------------|------------------|------------------|-----------------------|------------------|
|              |                | Capital Employed | Operating Expenditure | Operating Income | Capital Employed | Operating Expenditure | Operating Income |
| 1            | HDC            | -                | 540.22                | 958.09           | -                | 509.29                | 1004.09          |
| 2            | Kolkata        | 1402.44*         | 231.61                | 313.86           | 1685.02*         | 243.92                | 362.13           |
| 3            | Paradip        | 847.87           | 282.60                | 596.76           | 949.52           | 315.79                | 639.98           |
| 4            | Vishakhapatnam | 774.43           | 243.79                | 533.75           | 769.9            | 279.33                | 565.42           |
| 5            | Chennai        | 939.74           | 348.08                | 534.97           | 1224.97          | 400.85                | 628.09           |
| 6            | Tuticorin      | 553.86           | 68.97                 | 183.01           | 592.02           | 74.76                 | 195.35           |
| 7            | Cochin         | 258.92           | 147.57                | 212.08           | 256.71           | 181.2                 | 220.09           |
| 8            | New Mangalore  | 592.74           | 129.36                | 255.98           | 611.53           | 139.87                | 271.09           |
| 9            | Mormugoa       | 526.25           | 160.22                | 257.94           | 593.82           | 184.63                | 247.51           |
| 10           | Mumbai         | 2147.6           | 502.63                | 757.91           | 2371.45          | 567.25                | 818.15           |
| 11           | J L Nehru      | 2199.88          | 287.95                | 802.79           | 2746.02          | 313.79                | 890.92           |
| 12           | Kandla         | 847.93           | 211.86                | 331.26           | 865.22           | 247.97                | 341.57           |
| 13           | Ennore         | 723.55           | 41.07                 | 101.04           | 734.77           | 37.88                 | 128.02           |
| <b>Total</b> |                | <b>11815.21</b>  | <b>3195.93</b>        | <b>5839.44</b>   | <b>13400.95</b>  | <b>3496.53</b>        | <b>6312.41</b>   |

- Nil

\* Includes Kolkata Dock System &amp; Haldia Dock Complex.

Source : Material supplied by TRW,M/o Shipping

**Table 4C.2 : Financial Performance - Shipping Sector**

| (Rs. in lakh) |                                    |      |                      |                                 |              |  |                   |                        |
|---------------|------------------------------------|------|----------------------|---------------------------------|--------------|--|-------------------|------------------------|
| Sl. No.       | Company/Shipowner                  |      | Gross Value of Fleet | Freight, Charter Hire & Passage | Total Income | Operating Estt. & Other Exp(excl.Dep.) | Total Expenditure | Profit/Loss Before Tax |
| 1             | Arcadia Shipping                   | 2007 | ...                  | ...                             | 5442         | 4551                                   | 5152              | 290                    |
|               |                                    | 2006 | ...                  | ...                             | 4604         | 3866                                   | 4407              | 197                    |
|               |                                    | 2005 | 3812                 | ...                             | 3916         | 2162                                   | 2664              | 1251                   |
| 2             | Ardeshir.B.Cursetjee & Sons Ltd.   | 2007 | 7691                 | ...                             | 4297         | 3368                                   | 3935              | 362                    |
|               |                                    | 2006 | ...                  | ...                             | 4475         | 2459                                   | 3017              | 1458                   |
|               |                                    | 2005 | ...                  | ...                             | ...          | ...                                    | ...               | ...                    |
| 3             | Chowgule Steamships Ltd.           | 2007 | 15145                | ...                             | 4674         | 2746                                   | 3550              | 1124                   |
|               |                                    | 2006 | 15135                | 3371                            | 4380         | 2481                                   | 3250              | 1130                   |
|               |                                    | 2005 | 14111                | 3984                            | 4596         | 3278                                   | 4127              | 469                    |
| 4             | Dredging Corporation of India Ltd. | 2007 | 80622                | ...                             | 62209        | 38323                                  | 41981             | 20368                  |
|               |                                    | 2006 | 80622                | ...                             | 53459        | 32567                                  | 36276             | 17183                  |
|               |                                    | 2005 | 79168                | ...                             | 55871        | 33574                                  | 38284             | 17587                  |
| 5             | Foods Fats & Fertilisers Ltd.      | 2007 | ...                  | ...                             | 31847        | 30032                                  | 30525             | 1323                   |
|               |                                    | 2006 | 43                   | ...                             | 31847        | 25360                                  | 25679             | 564                    |
|               |                                    | 2005 | 197                  | ...                             | 23603        | 23111                                  | 23394             | 209                    |
| 6             | Gati Ltd.*                         | 2007 | 3952                 | ...                             | 26243        | ...                                    | ...               | ...                    |
|               |                                    | 2006 | 2775                 | ...                             | 46104        | 41792                                  | ...               | 3201                   |
|               |                                    | 2005 | ...                  | ...                             | 45772        | 42161                                  | ...               | 2746                   |
| 7             | Gautam Freight Pvt.Ltd.            | 2007 | 501                  | 9312                            | 9423         | 7974                                   | ...               | 449                    |
|               |                                    | 2006 | 501                  | 9814                            | 9874         | 8386                                   | 9052              | 822                    |
|               |                                    | 2005 | 501                  | 7688                            | 7756         | 6907                                   | 7349              | 407                    |
| 8             | Great Eastern Shipping Co.         | 2007 | 531110               | ...                             | 225110       | 107595                                 | 134121            | 90989                  |
|               |                                    | 2006 | 421324               | ...                             | 234208       | 118350                                 | 146631            | 87577                  |
|               |                                    | 2005 | 432865               | ...                             | 211923       | 104305                                 | 132805            | 79118                  |
| 9             | Mercator Lines Ltd.                | 2007 | 147403               | ...                             | 80847        | 63607                                  | 73361             | 7486                   |
|               |                                    | 2006 | 147260               | ...                             | 63785        | 36330                                  | 45697             | 18089                  |
|               |                                    | 2005 | 82413                | ...                             | 56398        | 36049                                  | 39318             | 17080                  |

... Not Available

\* The Fig are as on 30th June

**Table 4C.2 (contd.) : Financial Performance - Shipping Sector**

|         |                                     |      |                      |                                 |              |   |                   | (Rs. in lakh)          |
|---------|-------------------------------------|------|----------------------|---------------------------------|--------------|---|-------------------|------------------------|
| Sl. No. | Company/Shipowner                   |      | Gross Value of Fleet | Freight, Charter Hire & Passage | Total Income | Operating Estt. & Other Exp(excl.D ep.) | Total Expenditure | Profit/Loss Before Tax |
| 10      | Reliance Industries Ltd.            | 2007 | 27494                | ...                             | 11282560     | 9348998                                 | ...               | 1452047                |
|         |                                     | 2006 | 27641                | ...                             | 8402544      | 6992047                                 | 7332138           | 1070406                |
|         |                                     | 2005 | 25938                | ...                             | 6697676      | 5418458                                 | 5790808           | 906868                 |
| 11      | SKS(Ship) Ltd.                      | 2007 | 11960                | ...                             | 4102         | 2899                                    | 3508              | 583                    |
|         |                                     | 2006 | 9134                 | ...                             | 3541         | 2518                                    | 3011              | 516                    |
|         |                                     | 2005 | 7864                 | ...                             | 3218         | 1949                                    | 2276              | 942                    |
| 12      | Shreyas Shipping Ltd.               | 2007 | 23714                | ...                             | 14105        | 10466                                   | ...               | 3151                   |
|         |                                     | 2006 | 12313                | 12708                           | 12803        | 8455                                    | 9301              | 3502                   |
|         |                                     | 2005 | 14440                | 9684                            | 9766         | 6283                                    | 7041              | 2725                   |
| 13      | Sesa Goa Ltd.                       | 2007 | 8400                 | ...                             | 204944       | 11183                                   | ...               | 89985                  |
|         |                                     | 2006 | 8136                 | ...                             | 173476       | 90303                                   | 92769             | 80708                  |
|         |                                     | 2005 | 7928                 | ...                             | 142384       | 71083                                   | 73643             | 68742                  |
| 14      | SEAMAC                              | 2007 | 26887                | 14435                           | 17928        | 12005                                   | ...               | 4028                   |
|         |                                     | 2006 | 26368                | 12125                           | 16363        | 8862                                    | ...               | 6009                   |
|         |                                     | 2005 | 17131                | 8222                            | 8729         | 5609                                    | 6729              | 2121                   |
| 15      | Tolani Shipping Co. Ltd.            | 2007 | 56013                | 18782                           | 27839        | 17277                                   | 19152             | 8687                   |
|         |                                     | 2006 | 38149                | 19651                           | 29607        | 12194                                   | 14287             | 15320                  |
|         |                                     | 2005 | 40180                | ...                             | 23473        | 10671                                   | 12216             | 11257                  |
| 16      | Transport Corporation of India Ltd. | 2007 | 6486                 | 97664                           | 108957       | 102564                                  | 104555            | 4402                   |
|         |                                     | 2006 | 2807                 | 78271                           | 91398        | 85837                                   | 87689             | 3710                   |
|         |                                     | 2005 | 496                  | 61530                           | 73589        | 70691                                   | 72066             | 1523                   |
| 17      | Varun Shipping Ltd.                 | 2007 | 287791               | 67263                           | 72401        | 41061                                   | 57632             | 14769                  |
|         |                                     | 2006 | 199322               | 64293                           | 64431        | 33133                                   | 46094             | 18337                  |
|         |                                     | 2005 | 110353               | 38896                           | 38823        | 23772                                   | 30475             | 8348                   |

... Not Available

Source : Material supplied by TRW,M/o Shipping

**Table 4C.3 : Outlay and Expenditure of  
Central Govt. in the Port Sector during  
2002-03 to 2007-08**

| Year    | Port Sector |             | (Rs. in crore) |
|---------|-------------|-------------|----------------|
|         | Outlay      | Expenditure | Utilisation %  |
|         | 2002-03     | 1159.00     | 541.89         |
| 2003-04 | 1200.89     | 347.89      | 28.97          |
| 2004-05 | 1066.95     | 360.97      | 33.83          |
| 2005-06 | 1163.45     | 639.97      | 55.01          |
| 2006-07 | 1364.25     | 1000.81     | 73.36          |
| 2007-08 | 2109.27     | 884.68      | 41.94          |

Source : Material supplied by TRW,M/o Shipping

**Table 4D.1 : Cargo Traffic Handled by Major & Non-Major Ports during 2007-08**

(In 000' Tonnes)

| State/Port                            | Overseas |           |               |            | Costal  |           |               |       | Overseas & Costal |           |               |        |
|---------------------------------------|----------|-----------|---------------|------------|---------|-----------|---------------|-------|-------------------|-----------|---------------|--------|
|                                       | Loaded   | Un-Loaded | Tranship-ment | Total      | Loade-d | Un-Loaded | Tranship-ment | Total | Loaded            | Un-Loaded | Tranship-ment | Total  |
| <b>Gujarat</b>                        |          |           |               |            |         |           |               |       |                   |           |               |        |
| Major Port(No. of Ships)              | 14623    | 41893     | 1698          | 58214      | 1893    | 4813      | -             | 6706  | 16516             | 46706     | 1698          | 64920  |
| Non-Major Port(No of Steamers/<br>SV) | 40210    | 93761     | -             | 13397<br>1 | 7875    | 8675      | -             | 16550 | 48085             | 102436    | -             | 150521 |
| <b>Maharashtra</b>                    |          |           |               |            |         |           |               |       |                   |           |               |        |
| Major Port                            |          |           |               |            |         |           |               |       |                   |           |               |        |
| J L Nehru                             | 26015    | 24016     | 2711          | 52742      | 389     | 1822      | 885           | 3096  | 26404             | 25838     | 3596          | 55838  |
| Mumbai                                | 5436     | 31503     | -             | 36939      | 7062    | 1166      | 11871         | 20099 | 12498             | 32669     | 11871         | 57038  |
| Non-Major Port                        | 1520     | 3840      | -             | 5360       | 317     | 5686      | -             | 6003  | 1837              | 9526      | -             | 11363  |
| <b>Goa</b>                            |          |           |               |            |         |           |               |       |                   |           |               |        |
| Major Port                            | 27539    | 6547      | -             | 34086      | 404     | 638       | -             | 1042  | 27943             | 7185      | -             | 35128  |
| Non-Major Port                        | 12657    | 89        | -             | 12746      | 79      | -         | -             | 79    | 12736             | 89        | -             | 12825  |
| <b>Karnataka</b>                      |          |           |               |            |         |           |               |       |                   |           |               |        |
| Major Port                            | 13255    | 16693     | -             | 29948      | 3139    | 2932      | -             | 6071  | 16394             | 19625     | -             | 36019  |
| Non-Major Port                        | 8613     | 66        | -             | 8679       | 88      | 132       | -             | 220   | 8701              | 198       | -             | 8899   |
| <b>Kerala</b>                         |          |           |               |            |         |           |               |       |                   |           |               |        |
| Major Port                            | 2130     | 8474      | 55            | 10659      | 1491    | 3660      | -             | 5151  | 3621              | 12134     | 55            | 15810  |
| Non-Major Port                        | 11       | -         | -             | 11         | 76      | 17        | -             | 93    | 87                | 17        | -             | 104    |

- : Nil

**Table 4D.1(contd.) : Cargo Traffic Handled by Major & Non-Major Ports during 2007-08**

(In 000' Tonnes)

| State/Port            | Overseas |           |               | Total | Costal  |           |               | Total | Overseas & Costal |           |               | Total |
|-----------------------|----------|-----------|---------------|-------|---------|-----------|---------------|-------|-------------------|-----------|---------------|-------|
|                       | Loaded   | Un-Loaded | Tranship-ment |       | Loade-d | Un-Loaded | Tranship-ment |       | Loaded            | Un-Loaded | Tranship-ment |       |
| <b>Tami Nadu</b>      |          |           |               |       |         |           |               |       |                   |           |               |       |
| Major Port            |          |           |               |       |         |           |               |       |                   |           |               |       |
| Tuticorin             | 5515     | 9824      | -             | 15339 | 493     | 5648      | -             | 6141  | 6008              | 15472     | -             | 21480 |
| Chennai               | 23369    | 28526     | -             | 51895 | 926     | 4333      | -             | 5259  | 24295             | 32859     | -             | 57154 |
| Ennore                | 2190     | 1212      | -             | 3402  | -       | 8161      | -             | 8161  | 2190              | 9373      | -             | 11563 |
| Non-Major Port        | 14       | 159       | -             | 173   | 252     | 462       | -             | 714   | 266               | 621       | -             | 887   |
| <b>Andhra Pradesh</b> |          |           |               |       |         |           |               |       |                   |           |               |       |
| Major Port            | 15742    | 27060     | 2085          | 44887 | 13180   | 3811      | 2719          | 19710 | 28922             | 30871     | 4804          | 64597 |
| Non-Major Port        | 7151     | 8900      | -             | 16051 | 2706    | 533       | -             | 3239  | 9857              | 9433      | -             | 19290 |
| <b>Orissa</b>         |          |           |               |       |         |           |               |       |                   |           |               |       |
| Major Port            | 14793    | 15103     | -             | 29896 | 10790   | 1734      | 17            | 12541 | 25583             | 16837     | 17            | 42437 |
| Non-Major Port        | 89       | 206       | -             | 295   | -       | -         | -             | -     | 89                | 206       | -             | 295   |
| <b>West Bengal</b>    |          |           |               |       |         |           |               |       |                   |           |               |       |
| Major Port            |          |           |               |       |         |           |               |       |                   |           |               |       |
| Haldia Dock Complex   | 12013    | 26253     | -             | 38266 | 2896    | 2426      | -             | 5322  | 14909             | 28679     | -             | 43588 |
| Kolkata Dock System   | 3138     | 4942      | 4566          | 12646 | 241     | 854       | -             | 1095  | 3379              | 5796      | 4566          | 13741 |
| Non-Major Port        | -        | -         | -             | -     | -       | -         | -             | -     | -                 | -         | -             | -     |
| <b>Puducherry</b>     |          |           |               |       |         |           |               |       |                   |           |               |       |
| Major Port            |          |           |               |       |         |           |               |       |                   |           |               |       |
| Non-Major Port        | -        | 10        | -             | 10    | -       | -         | -             | -     | -                 | 10        | -             | 10    |
| <b>Sea Islands</b>    |          |           |               |       |         |           |               |       |                   |           |               |       |
| Major Port            |          |           |               |       |         |           |               |       |                   |           |               |       |
| Non-Major Port        | -        | 9         | -             | 9     | 809     | 1367      | -             | 1367  | 809               | 1376      | -             | 2185  |

- : Nil

Source : Material supplied by TRW,M/o Shipping

**Table 4D.2 : Cargo Traffic Handled by Major & Non-Major Ports during 2006-07**

(In 000' Tonnes)

| State/Port         | Overseas |           |               |       | Costal |           |               |       | Overseas & Costal |           |               |        |
|--------------------|----------|-----------|---------------|-------|--------|-----------|---------------|-------|-------------------|-----------|---------------|--------|
|                    | Loaded   | Un-Loaded | Tranship-ment | Total | Loaded | Un-Loaded | Tranship-ment | Total | Loaded            | Un-Loaded | Tranship-ment | Total  |
| <b>Gujarat</b>     |          |           |               |       |        |           |               |       |                   |           |               |        |
| Major Port         | 10684    | 35335     | 1266          | 47285 | 1052   | 4645      | -             | 5697  | 11736             | 39980     | 1266          | 52982  |
| Non-Major Port     | 21579    | 77431     | -             | 99010 | 23105  | 9150      | -             | 32255 | 44684             | 86581     | -             | 131265 |
| <b>Maharashtra</b> |          |           |               |       |        |           |               |       |                   |           |               |        |
| Major Port         |          |           |               |       |        |           |               |       |                   |           |               |        |
| J L Nehru          | 21047    | 19031     | 1963          | 42041 | 498    | 1690      |               | 2188  | 21545             | 20721     | 1963          | 44229  |
| Mumbai             | 5792     | 24030     | 6381          | 36203 | 7505   | 679       | 7977          | 16161 | 13297             | 24709     | 14358         | 52364  |
| Non-Major Port     | 765      | 4441      | -             | 5206  | 422    | 5952      | -             | 6374  | 1187              | 10393     | -             | 11580  |
| <b>Goa</b>         |          |           |               |       |        |           |               |       |                   |           |               |        |
| Major Port         | 26988    | 6426      | -             | 33414 | 203    | 624       | -             | 827   | 27191             | 7050      | -             | 34241  |
| Non-Major Port     | 13992    | 279       | -             | 14271 | 35     | -         | -             | 35    | 14027             | 279       | -             | 14306  |
| <b>Karnataka</b>   |          |           |               |       |        |           |               |       |                   |           |               |        |
| Major Port         | 11022    | 13367     | -             | 24389 | 3098   | 4555      | -             | 7653  | 14120             | 17922     | -             | 32042  |
| Non-Major Port     | 6090     | 161       | -             | 6251  | 116    | 194       | -             | 310   | 6206              | 355       | -             | 6561   |
| <b>Kerala</b>      |          |           |               |       |        |           |               |       |                   |           |               |        |
| Major Port         | 1903     | 8909      | 4             | 10816 | 1569   | 2872      | -             | 4441  | 3472              | 11781     | 4             | 15257  |
| Non-Major Port     | -        | 46        | -             | 46    | 60     | 65        | -             | 125   | 60                | 111       | -             | 171    |

- Nil



**Table 4D.2(contd.): Cargo Traffic Handled by Major & Non-Major Ports during 2006-07**

(In 000' Tonnes)

| State/Port            | Overseas |           |               |       | Costal |           |               |       | Overseas & Costal |           |               |       |
|-----------------------|----------|-----------|---------------|-------|--------|-----------|---------------|-------|-------------------|-----------|---------------|-------|
|                       | Loaded   | Un-Loaded | Tranship-ment | Total | Loaded | Un-Loaded | Tranship-ment | Total | Loaded            | Un-Loaded | Tranship-ment | Total |
| <b>Tami Nadu</b>      |          |           |               |       |        |           |               |       |                   |           |               |       |
| Major Port            |          |           |               |       |        |           |               |       |                   |           |               |       |
| Tuticorin             | 4302     | 7695      | -             | 11997 | 197    | 5807      | -             | 6004  | 4499              | 13502     | -             | 18001 |
| Chennai               | 21337    | 26195     | -             | 47532 | 1318   | 4564      | -             | 5882  | 22655             | 30759     | -             | 53414 |
| Ennore                | 1724     | 653       | -             | 2377  | -      | 8337      | -             | 8337  | 1724              | 8990      | -             | 10714 |
| Non-Major Port        | 16       | 116       | -             | 132   | 262    | 411       | -             | 673   | 278               | 527       | -             | 805   |
| <b>Andhra Pradesh</b> |          |           |               |       |        |           |               |       |                   |           |               |       |
| Major Port            | 11654    | 25018     | 1855          | 38527 | 12176  | 2911      | 2771          | 17858 | 23830             | 27929     | 4626          | 56385 |
| Non-Major Port        | 6882     | 8267      | -             | 15149 | 2774   | 686       | -             | 3460  | 9656              | 8953      | -             | 18609 |
| <b>Orissa</b>         |          |           |               |       |        |           |               |       |                   |           |               |       |
| Major Port            | 13951    | 12822     | 4             | 26777 | 10904  | 831       | 5             | 11740 | 24855             | 13653     | 9             | 38517 |
| Non-Major Port        | -        | -         | -             | -     | -      | -         | -             | -     | -                 | -         | -             | -     |
| <b>West Bengal</b>    |          |           |               |       |        |           |               |       |                   |           |               |       |
| Major Port            |          |           |               |       |        |           |               |       |                   |           |               |       |
| Haldia Dock Complex   | 10296    | 25658     | -             | 35954 | 3623   | 2877      | -             | 6500  | 13919             | 28535     | -             | 42454 |
| Kolkata Dock System   | 2557     | 4007      | 4929          | 11493 | 259    | 843       | 1             | 1103  | 2816              | 4850      | 4930          | 12596 |
| Non-Major Port        | -        | -         | -             | -     | -      | -         | -             | -     | -                 | -         | -             | -     |
| <b>Puducherry</b>     |          |           |               |       |        |           |               |       |                   |           |               |       |
| Major Port            | -        | -         | -             | -     | -      | -         | -             | -     | -                 | -         | -             | -     |
| Non-Major Port        | 18       | 16        | -             | 34    | -      | -         | -             | -     | 18                | 16        | -             | 34    |
| <b>Sea Islands</b>    |          |           |               |       |        |           |               |       |                   |           |               |       |
| Major Port            | -        | -         | -             | -     | -      | -         | -             | -     | -                 | -         | -             | -     |
| Non-Major Port        | -        | 4         | -             | 4     | 544    | 1040      | -             | 1584  | 544               | 1044      | -             | 1588  |

- Nil

Source : Material supplied by TRW,M/o Shipping

**Table 4D.3 : Container Traffic Handled at Major Ports during 2006-07 & 2007-08**

(in number)

| Sl. No.      | Port                | Containers Handled During 2006-07 |               |                |               |                |                | Containers Handled During 2007-08 |               |                |               |                |                |
|--------------|---------------------|-----------------------------------|---------------|----------------|---------------|----------------|----------------|-----------------------------------|---------------|----------------|---------------|----------------|----------------|
|              |                     | Indian Lines                      |               | Foreign Lines  |               | Total          |                | Indian Lines                      |               | Foreign Lines  |               | Total          |                |
|              |                     | Size 20''                         | Size 40''     | Size 20''      | Size 40''     | Size 20''      | Size 40''      | Size 20''                         | Size 40''     | Size 20''      | Size 40''     | Size 20''      | Size 40''      |
| 1            | Kandla              | 61229                             | 17342         | 56202          | 12836         | 117431         | 30178          | 55829                             | 18488         | 51171          | 10558         | 107000         | 29046          |
| 2            | Mumbai              | 46940                             | 22761         | 31228          | 4070          | 81371          | 27105          | 33493                             | 18500         | 41786          | 1396          | 77044          | 20276          |
| 3            | J L Nehru           | 701032                            | 414201        | 702765         | 418696        | 1480770        | 908775         | 877552                            | 506393        | 853486         | 498005        | 1847271        | 1106285        |
| 4            | Mormugao            | 2869                              | 2138          | 2375           | 1861          | 5244           | 3999           | 3005                              | 2136          | 2642           | 2054          | 5647           | 4190           |
| 5            | New Mangalore       | 5999                              | 1439          | 5589           | 1412          | 11588          | 2851           | 6589                              | 2211          | 6445           | 2002          | 13034          | 4213           |
| 6            | Cochin              | 62008                             | 26273         | 58055          | 26906         | 120250         | 53234          | 70219                             | 27230         | 69177          | 27724         | 141400         | 56140          |
| 7            | Tuticorin           | 77856                             | 51570         | 81084          | 57511         | 158940         | 109081         | 94465                             | 62899         | 94799          | 67668         | 189264         | 130567         |
| 8            | Chennai             | 225039                            | 116865        | 211103         | 106707        | 436142         | 223572         | 285637                            | 148438        | 272325         | 133478        | 557962         | 281916         |
| 9            | Visakhapatnam       | 15397                             | 5275          | 17363          | 6086          | 33130          | 11361          | 20417                             | 6428          | 22445          | 7017          | 43310          | 13905          |
| 10           | Paradip             | 1248                              | 0             | 1228           | 0             | 2476           | 0              | 2075                              | 0             | 2113           | 0             | 4188           | 0              |
| 11           | Kolkata Dock System | 79742                             | 24524         | 60563          | 25039         | 140305         | 49563          | 99149                             | 31876         | 75692          | 29347         | 174841         | 61223          |
| 12           | Haldia Dock Complex | 28215                             | 10304         | 43791          | 8512          | 72006          | 18816          | 31525                             | 13360         | 45935          | 11969         | 77460          | 25329          |
| <b>Total</b> |                     | <b>1307574</b>                    | <b>692692</b> | <b>1271346</b> | <b>669636</b> | <b>2659653</b> | <b>1438535</b> | <b>1579955</b>                    | <b>837959</b> | <b>1538016</b> | <b>791218</b> | <b>3238421</b> | <b>1733090</b> |

Source : Material supplied by TRW,M/o Shipping

**Table 4D.4 : Level of Containerisation in General Cargo at Various Major Ports during 2006-07 to 2007-08**

(in 000'Tonnes)

| Sl. No. | Name of the Port    | Level of Containerisation in General Cargo |              |  |              |                 |              |  |              |
|---------|---------------------|--|--------------|--|--------------|-----------------|--------------|--|--------------|
|         |                     | 2006-07                                    |              |  |              | 2007-08         |              |  |              |
|         |                     | Container Cargo                            |              | General Cargo( Break Bulk + Container) |              | Container Cargo |              | General Cargo( Break Bulk + Container) |              |
|         |                     | Loaded                                     | Unloaded     | Loaded                                 | Unloaded     | Loaded          | Unloaded     | Loaded                                 | Unloaded     |
| 1       | Kandla              | 1733                                       | 1045         | 4397                                   | 3973         | 1546            | 1070         | 3743                                   | 5045         |
| 2       | Mumbai              | 631  | 949          | 3871                                   | 5468         | 84              | 1549         | 2881                                   | 12426        |
| 3       | J L Nehru           | 21582                                      | 19229        | 21584                                  | 19242        | 27179           | 24744        | 27183                                  | 24746        |
| 4       | Mormugao            | 79   | 76           | 409                                    | 82           | 84              | 82           | 417                                    | 82           |
| 5       | New Mangalore       | 158  | 107          | 240                                    | 349          | 166             | 153          | 215                                    | 576          |
| 6       | Cochin              | 1457                                       | 1492         | 1468                                   | 1780         | 1553            | 1630         | 1611                                   | 1838         |
| 7       | Tuticorin           | 2444                                       | 1567         | 4046                                   | 2123         | 2877            | 2753         | 4877                                   | 3357         |
| 8       | Chennai             | 6809                                       | 7357         | 8668                                   | 8072         | 8679            | 9371         | 10290                                  | 10339        |
| 9       | Visakhapatnam       | 512  | 287          | 1528                                   | 932          | 678             | 455          | 1737                                   | 1060         |
| 10      | Paradip             | 34   | 0            | 85                                     | 94           | 57              | 1            | 101                                    | 228          |
| 11      | Kolkata Dock System | 1610                                       | 2393         | 2107                                   | 4005         | 1903            | 3236         | 2686                                   | 5226         |
| 12      | Haldia Dock Complex | 1105                                       | 813          | 1512                                   | 1364         | 1383            | 1014         | 1679                                   | 1487         |
|         | <b>Total</b>        | <b>38154</b>                               | <b>35315</b> | <b>49915</b>                           | <b>47484</b> | <b>46189</b>    | <b>46058</b> | <b>57420</b>                           | <b>66410</b> |

Source : Material supplied by TRW,M/o Shipping

**Table 4D.5 : Capacity Utilisation of Major Ports during 2006-07 and 2007-08**

| Sl. No.          | Port | 2006-07                              |                        |               |              |                  |               |              |               | 2007-08                |               |              |                  |               |               |                              |
|------------------|------|--------------------------------------|------------------------|---------------|--------------|------------------|---------------|--------------|---------------|------------------------|---------------|--------------|------------------|---------------|---------------|------------------------------|
|                  |      | Capacity in MMT/<br>Utilisation in % | POL (Crude & Products) | Iron Ore      | Thermal Coal | Fertiliser & FRM | Other Cargo   | Container    | Total         | POL (Crude & Products) | Iron Ore      | Thermal Coal | Fertiliser & FRM | Other Cargo   | Container     | Average Capacity Utilisation |
| 1                | KDS  | Cap.                                 | 7.60                   | -             | -            | -                | 5.50          | 4.80         | 17.90         | 7.96                   | -             | -            | -                | 6.20          | 4.90          | 19.06                        |
|                  |      | Util.                                | 68.17                  | -             | -            | -                | 62.04         | 83.40        | 70.37         | 56.78                  | -             | -            | -                | 65.82         | 104.90        | 72.09                        |
| 2                | HDC  | Cap.                                 | 17.00                  | 4.00          | 7.00         | -                | 11.50         | 4.00         | 43.50         | 17.00                  | 6.00          | 7.00         | -                | 12.70         | 4.00          | 46.70                        |
|                  |      | Util.                                | 103.50                 | 207.80        | 77.61        | -                | 79.96         | 47.93        | 97.60         | 100.82                 | 164.00        | 25.71        | -                | 97.70         | 60.00         | 93.34                        |
| 3                | PPT  | Cap.                                 | 6.00                   | 4.50          | 20.00        | 7.50             | 18.00         | -            | 56.00         | 6.00                   | 4.50          | 20.00        | 7.50             | 18.00         | -             | 56.00                        |
|                  |      | Util.                                | 22.93                  | 264.00        | 62.37        | 56.72            | 47.40         | -            | 68.78         | 29.50                  | 288.00        | 53.30        | 47.47            | 74.93         | -             | 75.78                        |
| 4                | VPT  | Cap.                                 | 17.15                  | 12.00         | -            | 1.00             | 26.65         | 1.70         | 58.50         | 17.65                  | 12.50         | -            | 1.00             | 28.30         | 1.70          | 61.15                        |
|                  |      | Util.                                | 105.99                 | 122.65        | -            | 344.90           | 73.44         | 47.95        | 96.38         | 104.93                 | 149.52        | -            | 529.00           | 74.09         | 66.47         | 105.64                       |
| 5                | EPL  | Cap.                                 | -                      | -             | 13.00        | -                | -             | -            | 13.00         | -                      | -             | 13.00        | -                | -             | -             | 13.00                        |
|                  |      | Util.                                | -                      | -             | 67.70        | -                | -             | -            | 82.42         | -                      | -             | 69.62        | -                | -             | -             | 88.95                        |
| 6                | ChPT | Cap.                                 | 11.25                  | 8.00          | -            | -                | 15.55         | 15.20        | 50.00         | 11.80                  | 8.00          | -            | -                | 16.10         | 17.45         | 53.35                        |
|                  |      | Util.                                | 115.44                 | 131.65        | -            | -                | 101.15        | 93.20        | 106.83        | 107.71                 | 95.75         | -            | -                | 116.36        | 103.44        | 107.13                       |
| 7                | TPT  | Cap.                                 | 2.30                   | -             | 6.25         | -                | 7.00          | 5.00         | 20.55         | 2.30                   | -             | 6.25         | -                | 7.20          | 5.00          | 20.75                        |
|                  |      | Util.                                | 27.22                  | -             | 89.73        | -                | 110.80        | 80.22        | 87.60         | 20.00                  | -             | 97.76        | -                | 128.89        | 112.60        | 103.52                       |
| 8                | CoPT | Cap.                                 | 11.20                  | -             | -            | 0.60             | 4.27          | 4.08         | 20.15         | 18.70                  | -             | -            | 0.60             | 4.76          | 4.31          | 28.37                        |
|                  |      | Util.                                | 93.53                  | -             | -            | 100.67           | 28.38         | 72.28        | 75.72         | 60.43                  | -             | -            | 58.33            | 20.59         | 73.78         | 55.73                        |
| 9                | NMPT | Cap.                                 | 21.20                  | 7.50          | -            | -                | 12.60         | -            | 41.30         | 22.00                  | 7.50          | -            | -                | 14.00         | -             | 43.50                        |
|                  |      | Util.                                | 103.15                 | 83.31         | -            | -                | 31.16         | -            | 77.58         | 99.00                  | 123.47        | -            | -                | 35.56         | -             | 82.80                        |
| 10               | MoPT | Cap.                                 | 1.50                   | 21.50         | -            | -                | 7.00          | -            | 30.00         | 1.50                   | 24.30         | -            | -                | 7.25          | -             | 33.05                        |
|                  |      | Util.                                | 52.40                  | 124.38        | -            | -                | 95.91         | -            | 114.14        | 58.00                  | 112.47        | -            | -                | 95.56         | -             | 106.29                       |
| 11               | JNPT | Cap.                                 | 5.50                   | -             | -            | -                | 0.70          | 46.20        | 52.40         | 5.50                   | -             | -            | -                | 0.80          | 48.04         | 54.34                        |
|                  |      | Util.                                | 47.73                  | -             | -            | -                | 197.00        | 88.34        | 85.52         | 39.82                  | -             | -            | -                | 216.00        | 108.08        | 102.76                       |
| 12               | MbPT | Cap.                                 | 32.00                  | -             | -            | -                | 15.15         | 3.50         | 50.65         | 32.00                  | -             | -            | -                | 15.20         | 3.50          | 50.70                        |
|                  |      | Util.                                | 75.88                  | -             | -            | -                | 174.94        | 45.14        | 103.38        | 115.84                 | -             | -            | -                | 120.64        | 46.57         | 112.50                       |
| 13               | KPT  | Cap.                                 | 46.40                  | -             | -            | -                | 12.20         | 3.60         | 62.20         | 46.40                  | -             | -            | -                | 13.50         | 3.60          | 63.50                        |
|                  |      | Util.                                | 64.03                  | -             | -            | -                | 167.98        | 77.17        | 85.18         | 82.39                  | -             | -            | -                | 178.30        | 72.78         | 102.24                       |
| <b>All Ports</b> |      | <b>Cap.</b>                          | <b>179.10</b>          | <b>57.50</b>  | <b>46.25</b> | <b>9.10</b>      | <b>185.12</b> | <b>88.08</b> | <b>515.15</b> | <b>188.81</b>          | <b>62.80</b>  | <b>46.25</b> | <b>9.10</b>      | <b>144.01</b> | <b>92.50</b>  | <b>543.47</b>                |
|                  |      | <b>Util.</b>                         | <b>82.45</b>           | <b>136.40</b> | <b>67.09</b> | <b>77.34</b>     | <b>100.20</b> | <b>83.41</b> | <b>89.86</b>  | <b>88.22</b>           | <b>136.53</b> | <b>59.72</b> | <b>101.10</b>    | <b>94.42</b>  | <b>101.85</b> | <b>95.56</b>                 |

\* Ennore Port handled cargo other than Thermal Coal also.

Cap. : Capacity Util. : Utilisation

Source : Material supplied by TRW,M/o Shipping

**Table 4D.6 : Passenger Traffic Handled at Major Ports during 2002-03 to 2007-08**

(in thousand numbers)

| Port/Year             | Overseas      |                       |               | Coastal       |                  |              | Total         |                       |             |
|-----------------------|---------------|-----------------------|---------------|---------------|------------------|--------------|---------------|-----------------------|-------------|
|                       | Embar-<br>ked | Dis-<br>Embar-<br>ked | Total         | Embar-<br>ked | Dis-<br>Embarked | Total        | Emba-<br>rked | Dis-<br>Embark-<br>ed | Total       |
| <b>Mumbai</b>         |               |                       |               |               |                  |              |               |                       |             |
| 2002-03               | 3.6           | 2.6                   | 6.2           | -             | -                | -            | 3.6           | 2.6                   | 6.2         |
| 2003-04               | 1.7           | 1.9                   | 3.6           | -             | -                | -            | 1.7           | 1.9                   | 3.6         |
| 2004-05               | 0.7           | 0.5                   | 1.2           | 0.8           | 0.8              | 1.6          | 1.5           | 1.3                   | 2.8         |
| 2005-06               | 0.3           | 0.9                   | 1.2           | 42.0          | 41.5             | 83.5         | 42.3          | 42.4                  | 84.7        |
| 2006-07               | 1.3           | 0.5                   | 1.8           | 81.7          | 78.8             | 160.5        | 83.0          | 79.3                  | 162.3       |
| 2007-08               | 1.3           | 0.5                   | 1.8           | 81.8          | 78.8             | 160.6        | 83.1          | 79.3                  | 162.4       |
| <b>CAGR %</b>         | <b>-18.4</b>  | <b>-28.1</b>          | <b>-21.9</b>  | <b>367.6</b>  | <b>361.8</b>     | <b>364.7</b> | <b>87.4</b>   | <b>98.1</b>           | <b>92.1</b> |
| <b>Cochin</b>         |               |                       |               |               |                  |              |               |                       |             |
| 2002-03               | 2.9           | 2.9                   | 5.8           | 45.8          | 48.7             | 94.5         | 48.7          | 51.6                  | 100.3       |
| 2003-04               | 8.9           | 8.8                   | 17.7          | 51.7          | 48.9             | 100.6        | 60.6          | 57.7                  | 118.3       |
| 2004-05               | 9.6           | 9.5                   | 19.1          | 51.3          | 49.3             | 100.6        | 60.9          | 58.8                  | 119.7       |
| 2005-06               | 10.5          | 10.6                  | 21.1          | 50.2          | 49.9             | 100.1        | 60.7          | 60.5                  | 121.2       |
| 2006-07               | 14.1          | 14.0                  | 28.1          | 49.0          | 54.0             | 103.0        | 63.1          | 68.0                  | 131.1       |
| 2007-08               | 14.0          | 14.0                  | 28.0          | 47.9          | 52.6             | 100.5        | 61.9          | 66.6                  | 128.5       |
| <b>CAGR %</b>         | <b>37.0</b>   | <b>37.0</b>           | <b>37.0</b>   | <b>0.9</b>    | <b>1.6</b>       | <b>1.2</b>   | <b>4.9</b>    | <b>5.2</b>            | <b>5.1</b>  |
| <b>Chennai</b>        |               |                       |               |               |                  |              |               |                       |             |
| 2002-03               | Neg.          | Neg.                  | Neg.          | 52.9          | 44.7             | 97.6         | 52.9          | 44.7                  | 97.6        |
| 2003-04               | Neg.          | Neg.                  | Neg.          | 55.9          | 49.5             | 105.4        | 55.9          | 49.5                  | 105.4       |
| 2004-05               | 0.6           | 0.6                   | 1.2           | 51.2          | 48.4             | 99.6         | 51.8          | 49.0                  | 100.8       |
| 2005-06               | 0.9           | 0.2                   | 1.1           | 49.4          | 45.8             | 95.2         | 50.3          | 46.0                  | 96.3        |
| 2006-07               | 0.2           | 0.3                   | 0.5           | 39.3          | 30.8             | 70.1         | 39.5          | 31.1                  | 70.6        |
| 2007-08               | 0.1           | 0.2                   | 0.3           | 43.1          | 38.4             | 81.5         | 43.2          | 38.6                  | 81.8        |
| <b>CAGR %</b>         | <b>-45.0</b>  | <b>-30.7</b>          | <b>-37.0</b>  | <b>-4.0</b>   | <b>-3.0</b>      | <b>-3.5</b>  | <b>-4.0</b>   | <b>-2.9</b>           | <b>-3.5</b> |
| <b>Vishakhapatnam</b> |               |                       |               |               |                  |              |               |                       |             |
| 2002-03               | -             | -                     | -             | 11.3          | 11.7             | 23.0         | 11.3          | 11.7                  | 23.0        |
| 2003-04               | -             | -                     | -             | 8.6           | 9.0              | 17.6         | 8.6           | 9.0                   | 17.6        |
| 2004-05               | -             | -                     | -             | 10.1          | 12.0             | 22.1         | 10.1          | 12.0                  | 22.1        |
| 2005-06               | -             | -                     | -             | 8.4           | 7.8              | 16.2         | 8.4           | 7.8                   | 16.2        |
| 2006-07               | -             | -                     | -             | 8.4           | 8.4              | 16.8         | 8.4           | 8.4                   | 16.8        |
| 2007-08               | -             | -                     | -             | 12.2          | 10.3             | 22.5         | 12.2          | 10.3                  | 22.5        |
| <b>CAGR %</b>         | <b>-</b>      | <b>-</b>              | <b>-</b>      | <b>1.5</b>    | <b>-2.5</b>      | <b>-0.4</b>  | <b>1.5</b>    | <b>-2.5</b>           | <b>-0.4</b> |
| -                     | Nil           | ...                   | Not Available |               |                  |              |               |                       |             |

**Table 4D.6(contd.) : Passenger Traffic Handled at Major Ports  
during 2002-03 to 2007-08**

(in thousand numbers)

| Port/Year              | Overseas    |                   |             | Coastal     |                   |             | Total         |                   |             |
|------------------------|-------------|-------------------|-------------|-------------|-------------------|-------------|---------------|-------------------|-------------|
|                        | Embarked    | Dis-Embar-<br>ked | Total       | Embarked    | Dis-Emba-<br>rked | Total       | Embar-<br>ked | Dis-Embar-<br>ked | Total       |
| <b>Kolkata/Haldia</b>  |             |                   |             |             |                   |             |               |                   |             |
| 2002-03                | -           | -                 | -           | 25.3        | 27.4              | 52.7        | 25.3          | 27.4              | 52.7        |
| 2003-04                | -           | -                 | -           | 25.5        | 30.6              | 56.1        | 25.5          | 30.6              | 56.1        |
| 2004-05                | -           | -                 | -           | 31.7        | 30.8              | 62.5        | 31.7          | 30.8              | 62.5        |
| 2005-06                | -           | -                 | -           | 34.3        | 26.0              | 60.3        | 34.3          | 26.0              | 60.3        |
| 2006-07                | -           | -                 | -           | 29.2        | 21.4              | 50.6        | 29.2          | 21.4              | 50.6        |
| 2007-08                | -           | -                 | -           | 43.5        | 31.6              | 75.1        | 43.5          | 31.6              | 75.1        |
| <b>CAGR %</b>          | -           | -                 | -           | <b>11.4</b> | <b>2.9</b>        | <b>7.3</b>  | <b>11.4</b>   | <b>2.9</b>        | <b>7.3</b>  |
| <b>Mormugao</b>        |             |                   |             |             |                   |             |               |                   |             |
| 2002-03                | -           | -                 | -           | -           | -                 | -           | -             | -                 | -           |
| 2003-04                | -           | -                 | 2.8         | -           | -                 | -           | -             | -                 | 2.8         |
| 2004-05                | -           | -                 | 3.1         | -           | -                 | -           | -             | -                 | 3.1         |
| 2005-06                | -           | -                 | 2.6         | -           | -                 | 26.7        | -             | -                 | 29.3        |
| 2006-07                | -           | -                 | 11.9        | -           | -                 | 30.4        | -             | -                 | 42.3        |
| 2007-08                | ...         | ...               | 13.0        | -           | -                 | -           | ...           | ...               | 13.0        |
| <b>CAGR %</b>          | -           | -                 | <b>46.8</b> | -           | -                 | <b>13.9</b> | -             | -                 | <b>46.8</b> |
| <b>All Major Ports</b> |             |                   |             |             |                   |             |               |                   |             |
| 2002-03                | 6.5         | 5.5               | 12.0        | 135.3       | 132.5             | 267.8       | 141.8         | 138.0             | 279.8       |
| 2003-04                | 10.6        | 10.7              | 24.1        | 141.7       | 138.0             | 279.7       | 152.3         | 148.7             | 303.8       |
| 2004-05                | 10.9        | 10.6              | 24.6        | 145.1       | 141.3             | 286.4       | 156.0         | 151.9             | 311.0       |
| 2005-06                | 11.7        | 11.7              | 26.0        | 184.3       | 171.0             | 382.0       | 196.0         | 182.7             | 408.0       |
| 2006-07                | 15.4        | 14.5              | 29.9        | 207.6       | 193.4             | 401.0       | 223.0         | 207.9             | 430.9       |
| 2007-08                | 15.4        | 14.7              | 43.1        | 228.5       | 211.7             | 440.2       | 243.9         | 226.4             | 483.3       |
| <b>CAGR %</b>          | <b>18.8</b> | <b>21.7</b>       | <b>29.1</b> | <b>11.0</b> | <b>9.8</b>        | <b>10.5</b> | <b>11.5</b>   | <b>10.4</b>       | <b>11.6</b> |

- Nil                      ... Not Available

Source : Material supplied by TRW,M/o Shipping

**Table 4D.7 : Passenger Traffic Handled at Non-Major Ports during 2002-03 to 2007-08**

(in hundred numbers)

| State/Year         | Embarked | Dis-Embarked | Total  |
|--------------------|----------|--------------|--------|
| <b>Gujarat</b>     |          |              |        |
| 2002-03            | -        | -            | -      |
| 2003-04            | -        | -            | -      |
| 2004-05            | -        | -            | -      |
| 2005-06            | -        | -            | -      |
| 2006-07            | -        | -            | -      |
| 2007-08            | -        | -            | -      |
| <b>Maharashtra</b> |          |              |        |
| 2002-03            | 60914    | 58124        | 119038 |
| 2003-04            | 63174    | 46539        | 109713 |
| 2004-05            | 67057    | 63520        | 130577 |
| 2005-06            | 121638   | 59742        | 181380 |
| 2006-07            | 68492    | 62388        | 130880 |
| 2007-08            | 69607    | 63565        | 133172 |
| <b>Goa</b>         |          |              |        |
| 2002-03            | -        | -            | -      |
| 2003-04            | -        | -            | -      |
| 2004-05            | -        | -            | -      |
| 2005-06            | -        | -            | -      |
| 2006-07            | -        | -            | -      |
| 2007-08            | -        | -            | -      |
| <b>Kerala</b>      |          |              |        |
| 2002-03            | 37       | 36           | 73     |
| 2003-04            | 52       | 35           | 87     |
| 2004-05            | 39       | 37           | 76     |
| 2005-06            | 39       | 37           | 76     |
| 2006-07            | 56       | 59           | 115    |
| 2007-08            | 63       | 60           | 123    |

- Nil

NB: At non major ports overseas traffic is negligible

**Table 4D.7 (contd.) : Passenger Traffic Handled at Non-Major Ports during 2002-03 to 2007-08**

(in hundred numbers)

| State/Year                           | Embarked | Dis-Embarked | Total  |
|--------------------------------------|----------|--------------|--------|
| <b>Tamil Nadu</b>                    |          |              |        |
| 2002-03                              | 6953     | 6953         | 13906  |
| 2003-04                              | 7678     | 7678         | 15356  |
| 2004-05                              | 5729     | 5729         | 11458  |
| 2005-06                              | 5158     | 5159         | 10317  |
| 2006-07                              | 7460     | 7460         | 14920  |
| 2007-08                              | 8376     | 8376         | 16752  |
| <b>Karnataka</b>                     |          |              |        |
| 2002-03                              | 10       | 13           | 23     |
| 2003-04                              | 8        | 11           | 19     |
| 2004-05                              | 6        | 5            | 11     |
| 2005-06                              | 11       | 12           | 23     |
| 2006-07                              | 11       | 8            | 19     |
| 2007-08                              | 7        | 4            | 11     |
| <b>Andaman</b>                       |          |              |        |
| 2002-03                              | 782      | 938          | 1720   |
| 2003-04                              | 2300     | 2389         | 4689   |
| 2004-05                              | 2673     | 2582         | 5255   |
| 2005-06                              | 5353     | 5527         | 10880  |
| 2006-07                              | 4634     | 4455         | 9089   |
| 2007-08                              | 5547     | 5475         | 11022  |
| <b>All Minor/ Intermediate Ports</b> |          |              |        |
| 2002-03                              | 68696    | 66064        | 134760 |
| 2003-04                              | 73212    | 56652        | 129864 |
| 2004-05                              | 75504    | 71873        | 147377 |
| 2005-06                              | 132199   | 70477        | 202676 |
| 2006-07                              | 80653    | 74370        | 155023 |
| 2007-08                              | 83597    | 77479        | 161076 |

NB: At non major ports overseas traffic is negligible

Source : Material supplied by TRW,M/o Shipping



**Table 4E.1 : Average Tariff ( Major Ports)  
during 2002-03 to 2007-08**

| (in Rs.)      |   |                                    |
|---------------|---|------------------------------------|
| Year          | Average Tariff per<br>Tonne km of<br>Cargo Transported<br>(in Rs) | Average Tariff per<br>passenger km |
| 2002-03       | 124.82  | 84.56                              |
| 2003-04       | 122.65  | 77.70                              |
| 2004-05       | 122.93  | 74.34                              |
| 2005-06       | 120.47  | 70.89                              |
| 2006-07       | 125.91  | 68.91                              |
| 2007-08       | 121.55  | 67.33                              |
| <b>CAGR %</b> | <b>-0.53</b>  | <b>-4.45</b>                       |

Source : Material supplied by TRW,M/o Shipping

