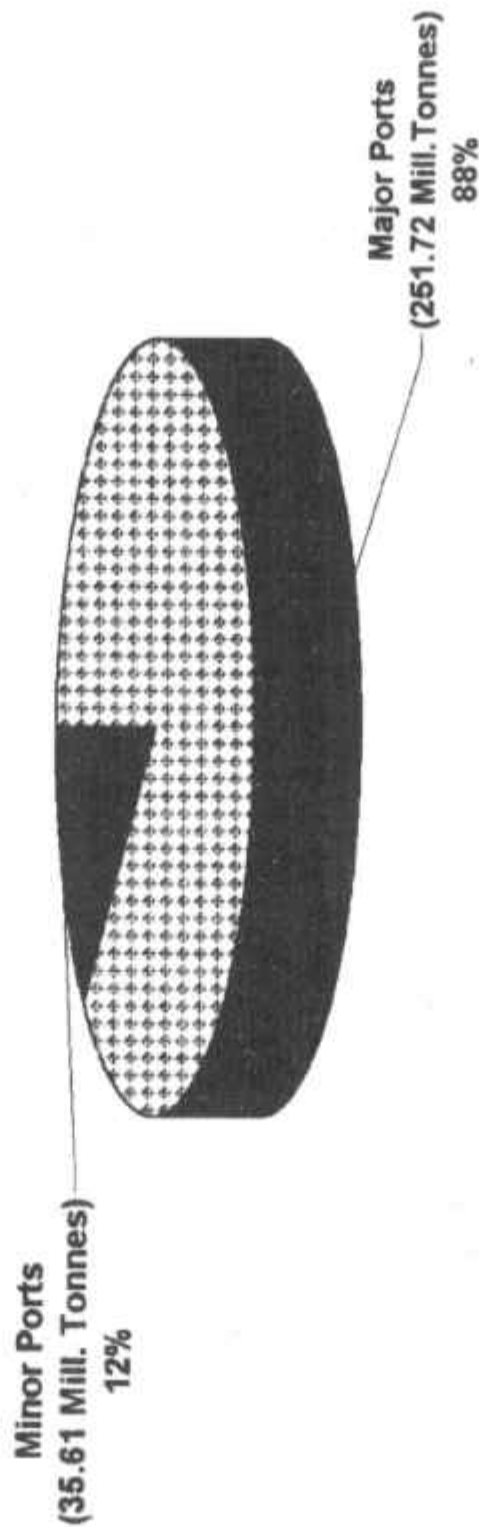


# Basic Port Statistics of India 1998-99

## TRAFFIC HANDLED AT INDIAN PORTS



TRANSPORT RESEARCH WING  
MINISTRY OF SURFACE TRANSPORT  
GOVERNMENT OF INDIA  
NEW DELHI

The Transport Research Wing of the Ministry of Surface Transport brings out the annual publication 'Basic Port Statistics of India'. It gives time series data relating to Major and Minor/Intermediate Ports. It also provides comprehensive and detailed statistics on port facilities, ship/cargo traffic handled at Indian Ports, origin/destination of overseas traffic, employment and finances of the various ports etc. The present publication gives data upto 1998-99, the detailed data is however, limited to 1997-98. Brief notes on major ports in India and their performances along with supportive graphs have also been included in this publication.

The sources of data are the Annual Administration Reports of Major/Minor Ports and their MIS returns. The data for the year 1998-99 for major ports have been compiled mostly from statements furnished by Indian Ports Association. A separate section on information on container traffic, container handling facilities, reefer container traffic, inland movement of containers, container handling rate, availability and utilisation of container handling equipments are given. Considering the growing importance of minor ports a separate section has been added on Minor Ports which are in the State Sector and are funded by the respective State Government. This gives data on Port-wise, commodity-wise cargo traffic handled at Minor Ports in various Maritime States, facilities available, performance indicators, employment, passenger traffic etc.

Considering the importance of the publication, it is our constant endeavour to reduce the time lag in bringing out the Publication. But for the continued interest and help extended by the Port Trusts and Maritime States/UTs, it would not have been possible for us to bring out this publication in time. We, therefore, gratefully acknowledge their contribution.

Suggestions for improvement in the contents and coverage of the publication are welcome and would receive our utmost consideration.

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December, 1999

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## Abbreviation Used :

|         |                                |
|---------|--------------------------------|
| ...     | : Not Available                |
| -       | : Nil                          |
| Neg./N  | : Negligible                   |
| TEU     | : Twenty Equivalent Unit       |
| GRT     | : Gross Registered Tonnage     |
| DLB     | : Dock Labour Board            |
| DWT     | : Dead Weight Tonnage          |
| Ro Ro   | : Roll On – Roll Off           |
| Cal     | : Calcutta Port Trust          |
| Hal     | : Haldia Dock Complex          |
| PPT     | : Paradip Port Trust           |
| VPT     | : Visakhapatnam Port Trust     |
| CHPT    | : Chennai Port Trust           |
| TPT     | : Tuticorin Port Trust         |
| COPT    | : Cochin Port Trust            |
| NMPT    | : New Mangalore Port Trust     |
| MOPT    | : Mormugao Port Trust          |
| JNPT    | : Jawahar Lal Nehru Port Trust |
| MBPT    | : Mumbai Port Trust            |
| KPT     | : Kandla Port Trust            |
| G.P.P.L | : Gujarat Pipavav Port Ltd.    |
| G.A.P.L | : Gujarat Adani Ports Ltd.     |
| Mech.   | : Mechanical                   |
| Conv.   | : Conventional                 |
| T       | : Tonnes                       |
| P       | : Provisional                  |

## PORT ORGANISATION IN INDIA

Ports are meant to provide sea-borne vessels some basic services such as dock, harbour or berth facilities and landing facilities for the passengers and cargo. Apart from this, Ports provide the basic services in the form of cranes, warehouses and labour for cargo handling.

2. There are 11 major Ports viz. Kandla, Mumbai, J.L.Nehru, Mormugao, New Mangalore, Cochin, Tuticorin, Chennai, Visakhapatnam, Paradip and Calcutta/Haldia. There are 184 minor/intermediate Ports situated along the coast line of about 6,000 Kms. and at sea islands. Four of the major Ports viz. Mumbai, Calcutta, Chennai and Mormugao are more than 100 years old. Cochin and Vizag Ports have celebrated their Golden Jubilee. The Ports of Kandla, Tuticorin, New Mangalore and Paradip were developed after the country attained political freedom and are thus relatively newer Ports. J. L. Nehru Port at Nhava Sheva became operational in 1989.

3. The major Ports are governed by the Major Port Trusts Act, 1963 and the Indian Ports Act, 1908 and the rules and regulations framed thereunder.

4. Each Major Port has a Board of Trustees representing various interests connected with the port operations and the shipping industry. The Chairman of each Major Port is appointed by Central Government. Besides Chairman, the Port Trust Board comprises Deputy Chairman, representatives of Customs, Railways, Defence, State Govt. Shipowners, Shippers, etc. All members of the Board, other than the Chairman and the Deputy Chairman are part time members.

5. The modernisation and development of Major Ports is a plan scheme. The Major Ports are empowered to receive loans from Government, raise loans in the open market and levy rates and fees for the services rendered. They are required to receive the prior approval of Central Govt. for the scale of rates, annual budgets and submit Annual Administration Reports. Their annual accounts are subject to audit by the Comptroller and Auditor General of India.

6. Ports mainly derive their revenue from cargo handled in their Port areas, charges on the ships visiting them, and other related charges. The main sources of revenue from cargo traffic are (i) Wharfage/landing fees, cargo related charges, (ii) Crane hire charges, (iii) Rentals from warehouses, (iv) Demurrage charges, (v) Charges for providing rail and other transport for the cargo movement and providing water facilities for the visiting ships. Similarly the main sources of revenue from ship traffic are (i) Port dues, (ii) Pilotage, (iii) Berthe-hire, (iv) Survey and measuring fees, (v) Ship repairs in dock areas.

7. The main activities of the Ports relate to (i) Maintenance of Port approaches, navigable channels and along side berths, dredging, conservancy, hydrographic surveys, (ii) Light houses and light vessels under the Port, (iii) Pilotage, towage, berthing and unberthing of visiting ships, (iv) Handling warehousing and transportation of goods in Port area, (v) Civil, mechanical and electrical engineering and maintenance of harbour crafts and plants, (vi) Fire-fighting and fumigation, (vii) Storage, (viii) Medical, welfare & housing services, (ix) Management of port properties and estates.

8. For its various activities, each Port engages different types of labour. The workers employed by the Port authorities are generally known as 'Port Workers' and they work on shore and for work on board the ship, workers registered with Dock Labour Board known as 'Dock Labour' are engaged.

9. As regards the capacity of a Port it is the aggregate of individual berths depending upon the type of commodity handled at that berth. There are a wide range of factors which influence the capacity of the berths. Portwise as well commoditywise break-up of capacity for the years 1997-98 and 1998-99 are as under:-

| Port                   | (In Million Tonnes) |                |
|------------------------|---------------------|----------------|
|                        | Port Capacity as on |                |
|                        | <u>31.3.98</u>      | <u>31.3.99</u> |
| 1. Calcutta and Haldia | 25.57               | 31.00          |
| 2. Paradip             | 10.90               | 11.25          |
| 3. Visakhapatnam       | 31.45               | 30.30          |
| 4. Chennai             | 25.90               | 26.62          |
| 5. Tuticorin           | 8.05                | 7.95           |
| 6. Cochin              | 13.46               | 13.45          |
| 7. New Mangalore       | 16.45               | 16.75          |
| 8. Mormugao            | 19.18               | 18.88          |
| 9. Mumbai              | 30.80               | 30.50          |
| 10. Kandla             | 26.00               | 37.00          |
| 11. J. L. Nehru        | 9.90                | 16.00          |
| Total All Ports        | 217.66              | 239.50         |

10. Commodity-wise break-up of Port capacities is given below:-

| <u>Commodity</u>            |                       | (In Million Tonnes) |
|-----------------------------|-----------------------|---------------------|
|                             | <u>Capacity as on</u> |                     |
|                             | <u>31.3.98</u>        | <u>31.3.99</u>      |
| 1. POL                      | 96.92                 | 105.70              |
| 2. Iron Ore                 | 44.50                 | 43.00               |
| 3. Coal                     | 9.00                  | 15.60               |
| 4. Fertilisers              | 5.65                  | 4.85                |
| 5. General break bulk cargo | 47.68                 | 47.45               |
| 6. Containers               | 13.91                 | 22.90               |
| Total All Ports             | 217.66                | 239.50              |

11. Private sector Participation: Recently clear and transparent guide-lines for private sector participation in Major Ports have been issued by the Govt. of India to cover the following areas:

- (1) Leasing out of existing assets of the Ports.
- (2) Construction/creation of additional assets such as:
  - (a) Construction and operation of Container Terminals
  - (b) Construction and operation of Bulk, Break-Bulk, multipurpose and specialised cargo berth.
  - (c) Warehousing, Container Freight Stations, Storage Facilities and tank farms
  - (d) Cranage/Handling Equipment
  - (e) Setting up of Captive Power Plants
  - (f) Dry docking and Ship-Repair facilities.

- (3) Leasing in of equipment for cargo handling and leasing in of floating crafts from private sector.
- (4) Pilotage.
- (5) Captive facilities for Port based industries.

The salient features of the guide-lines are as under:-

- (a) The existing legislative framework permits private sector participation in Ports.
- (b) Port will continue to discharge their regulatory role under Major Port Trusts Act, 1963. Ports will also take steps to frame regulations consistent with the guide-lines in order to enable private sector participation.
- (c) In identified projects to be put out on tender on BOT basis, the feasibility report will be made at the expense of the Port, the cost of which will be subsequently recovered from the successful tenderer.
- (d) BOT model will be generally used for private sector participation with the assets reverting free to the Port after the concession period. Evaluation will be made on the basis of criteria laid down clearly in the tender document and will be on the basis of maximum realisation to the Port using NPV analysis.
- (e) Generally a concession period of upto 30 years will be permitted. However, in exceptional cases where investments are very large, the concession period may be upto 50 years.
- (f) The Port will give no guarantee either for financial return or for the traffic which can be expected.
- (g) The tariff will be revised suitably every three years on the basis of rise in wages, operational cost, inflation etc.
- (h) Private sector participation will be on the basis of open competitive bidding.
- (i) The criteria for evaluation in taking on lease equipments/Port craft by Port Trusts, and for pilotage will be the least cost to the Ports.
- (j) There will be no adverse effect on port labour. No retrenchment will be done without the concurrence of labour and only in accordance with Industrial Disputes Act and relevant labour laws. Lessee will be bound by all the labour laws of the country.
- (k) There will be total transparency in inviting bids following the two cover system.

In addition the Port will be permitted to lease out existing assets/facilities of the Port Trust to the private sector, if such leasing out results in upgradation/augmentation of facilities/fresh investment by the entrepreneur, and as a result there is an increase in throughput and higher productivity.

The Port have also been permitted to allow captive facilities and captive oil jetties/SBMs to Port based industries including Central/State PSUs and Central oil companies without recourse to tender, provided such industries are Port specific and approved by concerned Administrative Ministries, and the Port is paid a revenue based on market rates.

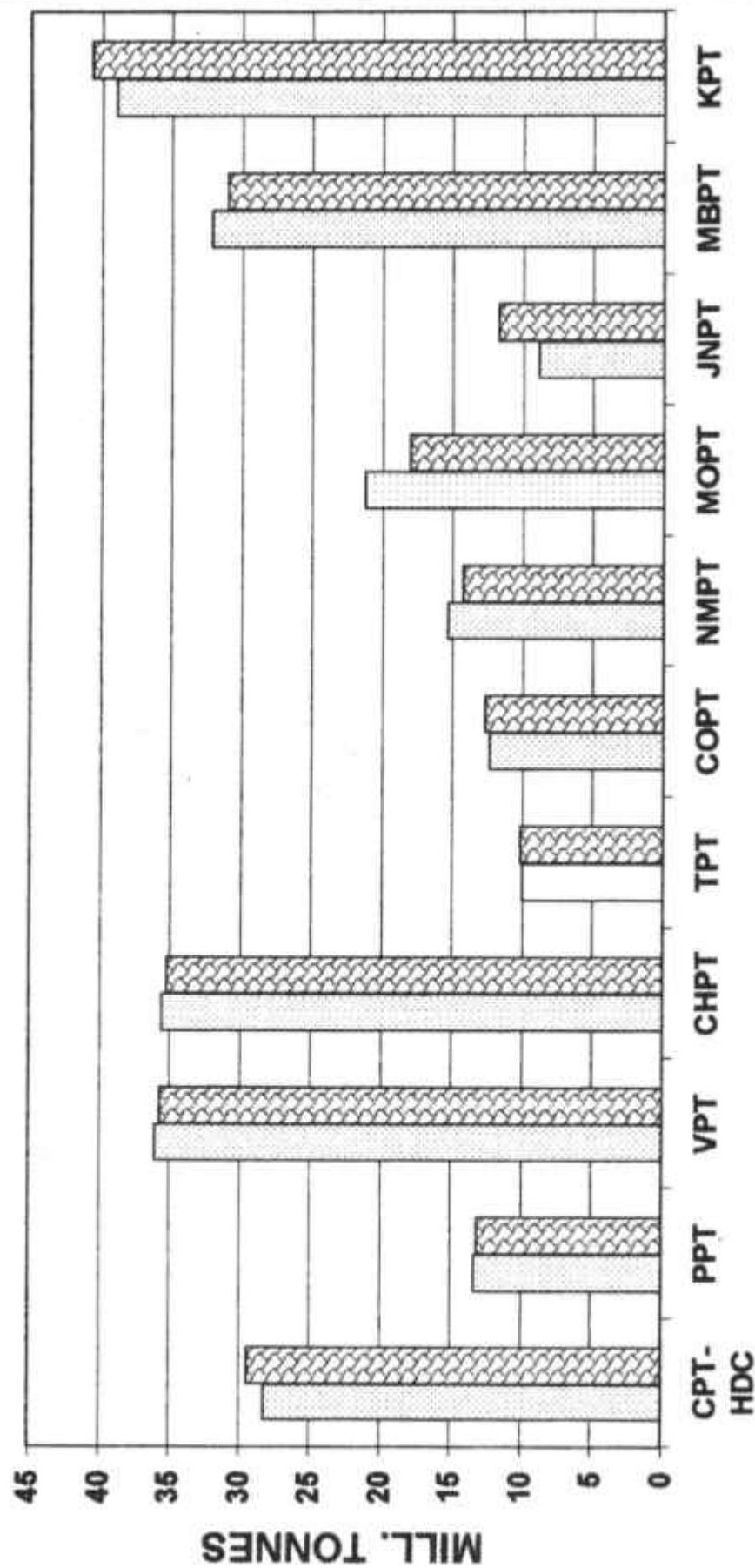
The Central Govt. will also encourage innovative proposals in the Port Sector put forward by private entrepreneurs and such proposals will be evaluated by a committee set up for the purpose.

Under the Port laws (Amendements) Act 1997 an independent Regulatory Authority to fix and revise Port tariff has been established.

In order to achieve the above objectives, further delegation of financial and administrative powers have been given by the Govt. of India to Port Trusts on the lines of MOU signing PSUs. Financial powers in respect of sanction of projects has been enhanced to Rs. 50 Crore for all Major Port Trusts in the case of additions/modifications /new investments and Rs. 100 Crore in the case of replacement/renewal of assets.

**PERFORMANCE  
OF  
MAJOR AND MINOR PORTS  
1998-99**

# TRAFFIC HANDLED AT MAJOR PORTS



PORTS

1997-98 1998-99

(V A)

## PERFORMANCE OF PORTS DURING 1998-99

There are 11 Major Ports, and 184 Minor/Intermediate working, non-working and captive/user's Ports in the country. The salient features of the performance of major and minor/intermediate Ports for the year 1998-99 are described below.

### MAJOR PORTS:

Vessels Handled: In 1998-99, major ports handled 14259 cargo vessels as compared to 14077 in 1997-98. The increase in vessels handled was 1.3%.

Traffic Handled: A total of 251.72 million tonnes of cargo traffic was handled during 1998-99 as compared to 251.66 million tonnes in 1997-98. The increase was marginal i.e. 0.02 percent. The traffic declined mainly in Iron Ore. This was due to decline in Iron Ore export especially to Japan and China due to lack of demand. The decline in Iron Ore export was more than 13 percent.

Five major ports, namely, Calcutta/Haldia, Tuticorin, Cochin, Kandla and Jawahar Lal Nehru showed a surge in traffic handled in 1998-99 over 1997-98 while at other ports traffic declined. Decline in Iron Ore traffic is one of the reasons for decrease in traffic at these ports except Mumbai, where decline was mainly on account of POL.

### PERFORMANCE INDICATORS

#### (i) Average Pre-berthing Detention

At 'all port level' this has declined from 2.3 days during 1997-98 to 2.1 days during 1998-99. It declined at all ports except Chennai Port.

#### (ii) Average Turn Round Time

At 'all port level' this has declined from 6.3 days in 1997-98 to 5.9 days in 1998-99. It declined at all ports except Chennai Port.

(iii) Out put Per Ship Berthday

At 'all port level' the Output per ship berthday has increased marginally from 4912 tonnes during 1997-98 to 4915 tonnes during 1998-99. It increased at all ports except Chennai, Tuticorin, Cochin and Kandla Ports.

(iv) Percentage of Idle time to time at working berth

At 'all port level' the idle time to the time at working berth has declined from 35 percent during 1997-98 to 29 percent during 1998-99. The performance in respect to this indicator shows improvement at all ports except Kandla.

**AVAILABILITY AND UTILISATION OF CARGO HANDLING EQUIPMENTS**

**(i) Wharf Cranes**

Compared to the availability norm of 85 to 90 percent, availability of these cranes was lower at New mangalore, Cochin, Paradip and Calcutta. Norm of utilisation of wharf cranes is over 35 percent and above; its utilisation was below the norm at all ports except Kandla and Visakhapatnam.

**(ii) Mobile Cranes**

The availability norm of mobile crane ranges between 82 to 85 percent. Its availability was below the norm at Calcutta, Haldia, Paradip, Tuticorin, Kandla and Cochin. The norm for utilisation of Mobile Cranes is over 30 percent; the utilisation was below the norm at all the ports except Chennai.

(iii) Fork Lift Trucks

The norm for availability for fork lift truck is 75 to 80 percent; the actual availability was below the norm at Calcutta, Cochin, Visakhapatnam and Haldia. The norm of utilisation of Fork Lift Truck is over 35 percent; none of the ports could reach this norm.

FINANCIAL PERFORMANCE

The operating surplus at major ports during 1997-98 was Rs. 1202 crore compared to Rs. 1049 crore during 1996-97 with an increase of 14.6 percent. The operating surplus has increased in all ports except Mumbai, Chennai and Visakhapatnam. The operating ratio at major ports exhibits increase during this period in all ports except the ports of Kandla, Jawahar Lal Nehru, Mormugao, New Mangalore, Tuticorin, Paradip and Calcutta. In case of Cochin and Haldia, both operating surplus and operating ratio increased since its income and expenditure increased during 1997-98.

MINOR PORTS

Cargo traffic handled at minor/intermediate ports was 35.61 million tonnes in 1998-99 as compared to 38.61 million tonnes during 1997-98. This traffic does not include LDT's at Alang & Sachna (1997-98 - 2.49 million tonnes, 1998-99 - 3.07 million tonnes) Ship Breaking Yards within the premises of ports of Bedi & Taleja in Gujarat State. The decline in traffic handled at minor/intermediate ports in 1998-99 was mainly due to less transshipment traffic at Sikka, Magdalla and Bhavnagar ports in Gujarat State. The decline in transshipment traffic in these ports was to the extent of 3.59 million tonnes in 1998-99 as compared to 1997-98. However, the commodity wise traffic handled at minor/intermediate ports in Gujarat State also declined by 1.32 million tonnes in 1998-99 as compared to 1997-98. The decline was mainly in Bedi Port (1.2 million tonnes) due to less export of oil cake and less import of fertiliser and in Porbandar port (0.8 million tonnes) due to less export of cement and less import of coal. The traffic handled at minor ports in Gujarat State was at its peak in 1997-98.

In other States like Tamil Nadu, Goa, Andhra Pradesh and Maharashtra there was significant increase in traffic handled in 1998-99 as compared to 1997-98. The traffic handled at minor ports in Goa more than doubled in 1998-99. In Tamil Nadu, increase in traffic was to the extent of 76% whereas in case of Maharashtra the increase was about 10% and Andhra Pradesh about 8%.

Though the traffic handled in Gujarat State declined in 1998-99, it holds first position in rank followed by Maharashtra, Andhra Pradesh, Goa, Andaman & Nicobar and Tamil Nadu.

TABLE - I

Number of Major and Minor Ports  
in the Maritime States -31.3.99

| State / U.T.                 | Number of<br>Major Ports | Number of<br>Minor Ports | Total Number<br>of Ports |
|------------------------------|--------------------------|--------------------------|--------------------------|
| <b>West Coast</b>            |                          |                          |                          |
| Gujarat                      | 1                        | 40                       | 41                       |
| Maharashtra                  | 2                        | 53                       | 55                       |
| Goa                          | 1                        | 5                        | 6                        |
| Daman & Diu                  | -                        | 2                        | 2                        |
| Karnataka                    | 1                        | 9                        | 10                       |
| Kerala                       | 1                        | 13                       | 14                       |
| <b>East Coast</b>            |                          |                          |                          |
| Tamil Nadu                   | 2                        | 14                       | 16                       |
| Pondicherry                  | -                        | 1                        | 1                        |
| Andhra Pradesh               | 1                        | 12                       | 13                       |
| Orissa                       | 1                        | 2                        | 3                        |
| West Bengal                  | 1                        | -                        | 1                        |
| Lakshadweep Islands          | -                        | 10                       | 10                       |
| Andaman & Nicobar<br>Islands | -                        | 23                       | 23                       |
| TOTAL                        | 11                       | 184                      | 195                      |

Note : '0 This includes working, non working and captive Ports.  
For details see section 3.

**TABLE - II**  
**Port Capacities-Major Ports As On 31.3.99** (In Million Tonnes)

| Commodity             | Calcutta     | Haldia           | Para-dip     | Vizag         | Chennai       | Tuticorin          | Cochin        | Mangalore    | New                        | Koram-gao     | Mumbai                | Kandla                    | Jl                                              | Total |
|-----------------------|--------------|------------------|--------------|---------------|---------------|--------------------|---------------|--------------|----------------------------|---------------|-----------------------|---------------------------|-------------------------------------------------|-------|
| (1)                   | (2)          | (3)              | (4)          | (5)           | (6)           | (7)                | (8)           | (9)          | (10)                       | (11)          | (12)                  | (13)                      | (14)                                            |       |
| P.O.L.                | 3.40<br>(7)  | 11.00<br>(2+2B)  | 1.50<br>(1)  | 10.00<br>(3)  | 0.50<br>(2)   | 1.00<br>(1)        | 10.50<br>(3)  | 7.50<br>(2)  | 1.50<br>(1)                | 21.00<br>(5)  | 29.00<br>(3+2SBM+1V)  | 105.70<br>(30+2SBM+1V+2B) |                                                 |       |
| Iron Ore              | -            | -                | 3.00<br>(1)  | 0.00<br>(1)   | 0.00<br>(1)   | -                  | -             | 2.50<br>(1)  | 18.50<br>(1+trans-shipper) | -             | -                     | -                         | 43.00<br>(3+trans-shipper)                      |       |
| Coal (Thermal)        | -            | 5.00<br>(2)      | 4.00<br>(3)  | -             | -             | 4.00<br>(2)        | -             | -            | -                          | -             | -                     | -                         | 15.50<br>(7)                                    |       |
| Fertilizers           | -            | -                | 0.05<br>(1)  | 0.50<br>(1)   | -             | -                  | 0.40<br>(1)   | -            | -                          | -             | -                     | -                         | 2.90<br>(2)                                     |       |
| Gen. Break Bulk Cargo | 1.90<br>(20) | 4.00<br>(6)      | 1.10<br>(2)  | 11.00<br>(13) | 7.50<br>(15)  | 2.95<br>(7)        | 1.35<br>(8)   | 1.75<br>(6)  | 0.60<br>(3)                | 4.00<br>(33)  | 8.00<br>(11)          | 2.50<br>(1)               | 47.45<br>(124)                                  |       |
| Containers            | 3.00<br>(6)  | 0.30<br>(1)      | -            | -             | 2.50<br>(2)   | -                  | 1.00<br>(2)   | -            | -                          | 5.50<br>(8)   | -                     | -                         | 10.50<br>(4)                                    |       |
| Total                 | 8.30<br>(33) | 32.70<br>(11+2B) | 11.25<br>(8) | 30.30<br>(18) | 26.62<br>(20) | 7.95<br>(10+Bzone) | 13.45<br>(14) | 16.75<br>(9) | 18.60<br>(4+trans-shipper) | 30.50<br>(46) | 37.00<br>(14+2SBM+1V) | 16.00<br>(7)              | 239.50<br>(194+2SBM+trans-shipper+1V+2B+8 Zone) |       |

\* Paradip : A capacity of 4.6 Million Tonnes has been assumed for the three Gen. Cargo berths which are handling coal at present. When coal handling moves to the dedicated facilities now under construction, the capacity of these 3 berths will get reduced to 1.65 Million Tonnes. Then the total capacity of the 5 general cargo berths will be 2.75 million tonnes instead of 1.1 million tonnes.

# Vizag : Thermal and coking coal are presently handled at six (WQ1 to WQ5 and MCB) general cargo berths whose capacity is reckoned as 7.5 million tonnes and included under general cargo. If coal gets shifted to dedicated coal handling facilities in future, the capacity will get reduced to 0.85 million tonnes per berth.

§ Chennai : Thermal coal is presently handled at JD(East) in 3 berths whose capacity is assessed as 3.75 million tonnes and included under general cargo capacity. When coal gets shifted to the new port at Sinoz, the capacity of these berths will get reduced to 1.5 million tonnes.

§ Kandla : VJs indicate the Virtual Jetties put up by oil industries. Capacity of Fertilizer berth is nil since due to damage of marine unloader, because of cyclone. OC berth capacity (10x0.60+2.00(1FFCO)=6MT

Haldia : BJs indicate barge jetties.  
Tuticorin : Capacity of 7th berth has been assumed as 0.45 million tonnes as a multipurpose berth which is expected to increase 2.25 MT by 2001-02 and 3.6 MT in Xth Plan

Source : Development Wing, MOST.

TABLE - III

## Major Ports-Capacity and Traffic-1998-99

| Port          | Capacity/<br>Traffic | POL<br>(Crude &<br>Product) | Iron<br>Ore  | Coal         | Ferti-<br>liser &<br>FRM | Other<br>Cargo | (In Million Tonnes) |                |
|---------------|----------------------|-----------------------------|--------------|--------------|--------------------------|----------------|---------------------|----------------|
|               |                      |                             |              |              |                          |                | Contai-<br>ner      | Total          |
| 1.            | 2.                   | 3.                          | 4.           | 5.           | 6.                       | 7.             | 8.                  | 9.             |
| Calcutta      | Capacity<br>Traffic  | 3.40<br>5.25                | -<br>-       | -<br>-       | -<br>0.05                | 1.90<br>1.89   | 3.00<br>1.97        | 8.30<br>9.16   |
| Haldia        | Capacity<br>Traffic  | 11.00<br>10.50              | -<br>-       | 6.80<br>7.07 | -<br>0.41                | 4.60<br>1.81   | 0.30<br>0.43        | 22.70<br>20.22 |
| Paradip       | Capacity<br>Traffic  | 1.50<br>2.01                | 3.00<br>0.80 | 4.80<br>7.94 | 0.85<br>0.42             | 1.10<br>1.94   | -<br>Neg.           | 11.25<br>13.11 |
| Visakhapatnam | Capacity<br>Traffic  | 10.80<br>12.80              | 8.00<br>7.01 | -<br>8.35    | 0.50<br>2.54             | 11.00<br>4.78  | -<br>0.17           | 30.30<br>35.65 |
| Chennai       | Capacity<br>Traffic  | 8.50<br>10.78               | 8.00<br>5.48 | -<br>9.91    | -<br>1.12                | 7.62<br>4.97   | 2.50<br>2.94        | 26.62<br>35.20 |
| Tuticorin     | Capacity<br>Traffic  | 1.00<br>0.39                | -<br>0.01    | 4.00<br>4.49 | -<br>0.75                | 2.95<br>3.30   | -<br>1.21           | 7.95<br>10.15  |
| Cochin        | Capacity<br>Traffic  | 10.50<br>9.86               | -<br>-       | -<br>0.15    | 0.60<br>0.46             | 1.35<br>1.22   | 1.00<br>0.98        | 13.45<br>12.67 |

TABLE - III (Contd...)

Major Ports-Capacity and Traffic - 1998-99

(In Million Tonnes)

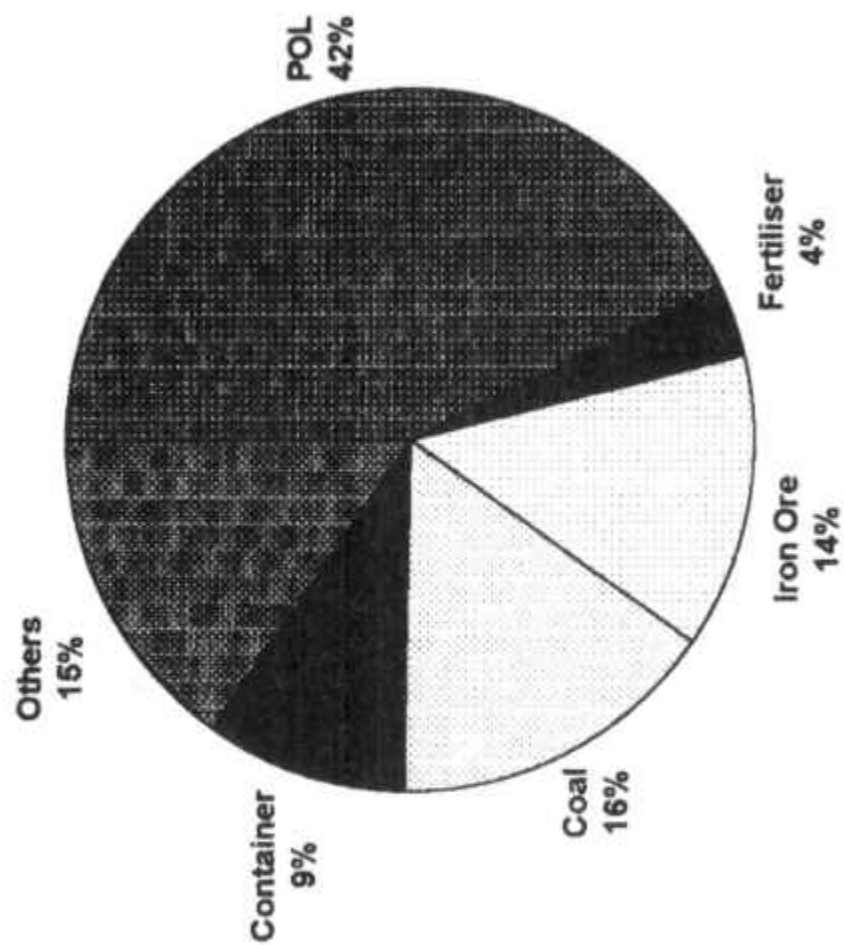
| Port          | POL<br>Capacity/<br>Traffic | (Crude &<br>Product) | Iron<br>Ore    | Coal           | Fertil-<br>izer &<br>FROM | Other<br>Cargo | Contal-<br>ner | Total            |
|---------------|-----------------------------|----------------------|----------------|----------------|---------------------------|----------------|----------------|------------------|
| 1.            | 2.                          | 3.                   | 4.             | 5.             | 6.                        | 7.             | 8.             | 9.               |
| New Mangalore | Capacity<br>Traffic         | 7.50<br>6.45         | 7.50<br>5.34   | -<br>0.06      | -<br>0.19                 | 1.75<br>2.17   | -<br>-         | 16.75<br>14.21   |
| Mormugao      | Capacity<br>Traffic         | 1.50<br>1.05         | 16.50<br>15.10 | -<br>0.31      | -<br>0.09                 | 0.68<br>1.43   | -<br>0.04      | 18.68<br>18.02   |
| J.L. Nehru    | Capacity<br>Traffic         | -<br>1.17            | -<br>0.55      | -<br>-         | 2.90<br>0.89              | 2.50<br>1.08   | 10.60<br>8.03  | 16.00<br>11.72   |
| Mumbai        | Capacity<br>Traffic         | 21.00<br>16.67       | -<br>-         | -<br>-         | -<br>0.90                 | 4.00<br>6.30   | 5.50<br>7.10   | 30.50<br>30.97   |
| Kandla        | Capacity<br>Traffic         | 29.00<br>30.47       | -<br>-         | -<br>0.74      | -<br>1.18                 | 8.00<br>7.34   | -<br>0.91      | 37.00<br>40.64   |
| All Ports     | Capacity<br>Traffic         | 105.70<br>107.40     | 43.00<br>34.29 | 15.60<br>39.02 | 4.85<br>9.00              | 47.45<br>38.23 | 22.90<br>23.78 | 239.50<br>251.72 |

Source :

1. Traffic - IPA

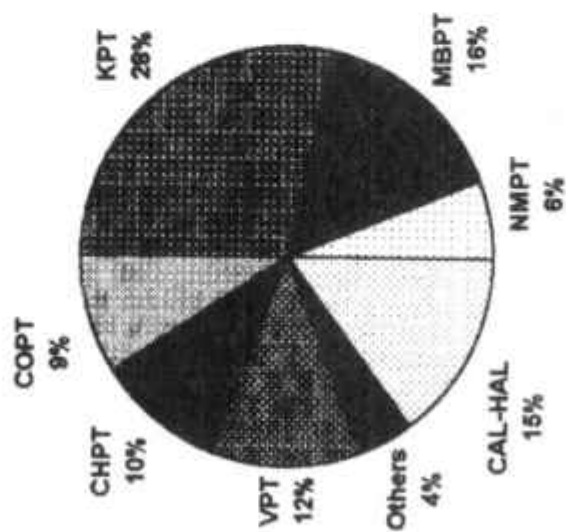
2. Capacity - Development Wing, MOST

## TRAFFIC HANDLED AT MAJOR PORTS IN 1998-99

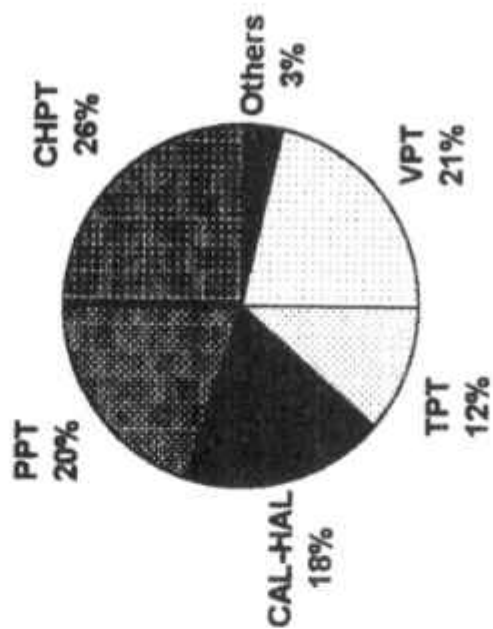


# TRAFFIC HANDLED AT MAJOR PORTS IN 1998-99

## POL TRAFFIC

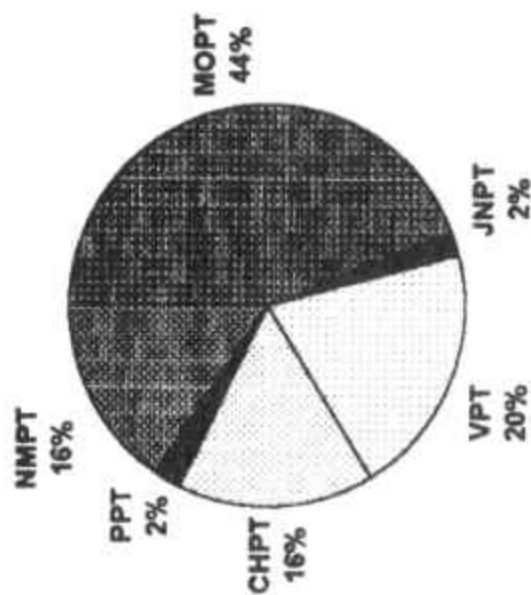


## COAL TRAFFIC



# TRAFFIC HANDLED AT MAJOR PORTS IN 1998-99

## IRON ORE TRAFFIC



## CONTAINER TRAFFIC

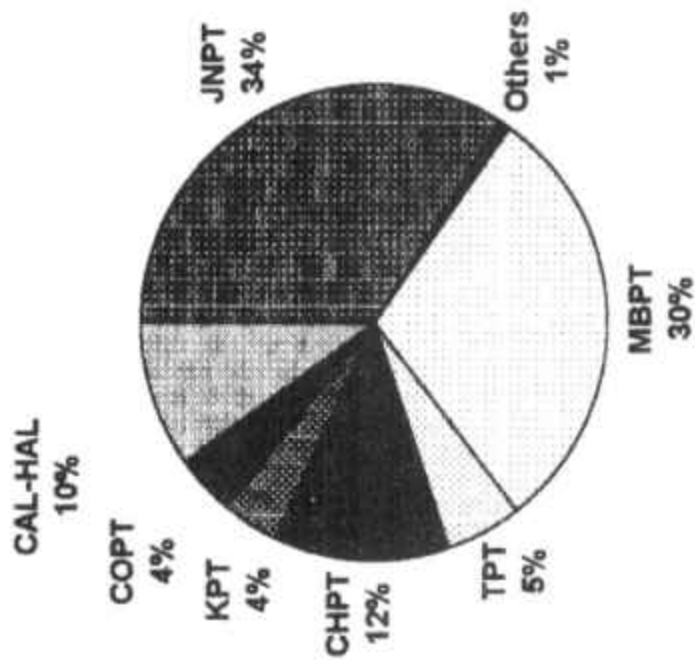


TABLE - IV

Traffic Handled At Major Ports of Selected Commodities - 1998-99 (P)

| Port          | POL<br>(Crude L<br>Product) | Iron<br>Ore | Ferti-<br>liser | FRM  | Food-<br>grains | Coal  | Container Cargo |              |        | Total  |
|---------------|-----------------------------|-------------|-----------------|------|-----------------|-------|-----------------|--------------|--------|--------|
|               |                             |             |                 |      |                 |       | -----           |              |        |        |
|               |                             |             |                 |      |                 |       | '000<br>Tonnes  | '000<br>TEUs | Others |        |
| Kandla        | 30469                       | -           | 588             | 594  | 1697            | 736   | 915             | 64           | 5638   | 40637  |
| Mumbai        | 16671                       | -           | 96              | 806  | 30              | -     | 7098            | 509          | 6269   | 30970  |
| JL Nehru      | 1173                        | 554         | 796             | 93   | 418             | -     | 8029            | 669          | 660    | 11723  |
| Mormugao      | 1047                        | 15101       | 86              | -    | -               | 309   | 37              | 3            | 1440   | 18020  |
| New Mangalore | 6454                        | 5335        | 175             | 11   | 368             | 61    | -               | -            | 1802   | 14206  |
| Cochin        | 9860                        | -           | 77              | 388  | 260             | 145   | 977             | 129          | 958    | 12665  |
| Tuticorin     | 388                         | 17          | 413             | 334  | 192             | 4487  | 1213            | 100          | 3106   | 10150  |
| Chennai       | 10784                       | 5475        | 679             | 446  | 98              | 9911  | 2942            | 284          | 4866   | 35201  |
| Visakhapatnam | 12803                       | 7009        | 1635            | 900  | 362             | 8354  | 172             | 14           | 4418   | 35653  |
| Paradip       | 2007                        | 797         | 26              | 395  | 12              | 7945  | Neg             | 1            | 1925   | 13108  |
| Calcutta      | 5252                        | -           | 1               | 46   | 53              | -     | 1971            | 132          | 1840   | 9163   |
| Haldia        | 10496                       | -           | 118             | 295  | 81              | 7071  | 427             | 28           | 1736   | 20224  |
| All Ports     | 107404                      | 34288       | 4690            | 4308 | 3571            | 39019 | 23782           | 1932         | 34658  | 251720 |

4.02 000

TABLE - V  
Traffic Handled At Major Ports In India -1998-99(P)  
(Overseas and Coastal)

(In Million Tonnes)

| Port          | Overseas |          |                   |        | Coastal |          |                   |       | Overseas & Coastal |          |                   |        |
|---------------|----------|----------|-------------------|--------|---------|----------|-------------------|-------|--------------------|----------|-------------------|--------|
|               | Loaded   | Unloaded | Tranship-<br>ment | Total  | Loaded  | Unloaded | Tranship-<br>ment | Total | Loaded             | Unloaded | Tranship-<br>ment | Total  |
| 1             | 2        | 3        | 4                 | 5      | 6       | 7        | 8                 | 9     | 10                 | 11       | 12                | 13     |
| Kandla        | 4.02     | 28.90    | 2.73              | 35.65  | 0.16    | 4.83     | -                 | 4.99  | 4.18               | 33.73    | 2.73              | 40.64  |
| Mumbai        | 5.06     | 17.52    | 0.04              | 22.62  | 6.73    | 1.62     | -                 | 8.35  | 11.79              | 19.14    | 0.04              | 30.97  |
| J.L. Nehru    | 4.25     | 6.51     | 0.05              | 10.81  | 0.05    | 0.84     | 0.02              | 0.91  | 4.30               | 7.35     | 0.07              | 11.72  |
| Mormugao      | 15.34    | 1.75     | 0.02              | 17.11  | 0.12    | 0.79     | -                 | 0.91  | 15.46              | 2.54     | 0.02              | 18.02  |
| New Mangalore | 5.12     | 6.55     | 0.02              | 11.69  | 2.16    | 0.34     | 0.02              | 2.52  | 7.28               | 6.89     | 0.04              | 14.21  |
| Cochin        | 0.77     | 6.56     | -                 | 7.33   | 1.54    | 3.80     | -                 | 5.34  | 2.31               | 10.36    | -                 | 12.67  |
| Tuticorin     | 1.63     | 3.34     | -                 | 4.97   | 0.04    | 5.14     | -                 | 5.18  | 1.67               | 8.48     | -                 | 10.15  |
| Chennai       | 8.62     | 7.81     | 0.78              | 17.21  | 0.71    | 16.50    | 0.78              | 17.99 | 9.33               | 24.31    | 1.56              | 35.20  |
| Visakhapatnam | 6.41     | 12.43    | 3.67              | 22.51  | 7.14    | 2.94     | 3.06              | 13.14 | 13.55              | 15.37    | 6.73              | 35.65  |
| Paradip       | 1.34     | 3.94     | -                 | 5.28   | 7.26    | 0.57     | -                 | 7.83  | 8.60               | 4.51     | -                 | 13.11  |
| Haldia        | 0.73     | 13.16    | -                 | 13.89  | 5.89    | 0.44     | -                 | 6.33  | 6.62               | 13.60    | -                 | 20.22  |
| Calcutta      | 0.92     | 2.38     | 3.51              | 6.81   | 0.22    | 2.12     | 0.01              | 2.35  | 1.14               | 4.50     | 3.52              | 9.16   |
| All Ports     | 54.21    | 110.85   | 10.82             | 175.88 | 32.02   | 39.93    | 3.89              | 75.84 | 86.23              | 150.78   | 14.71             | 251.72 |

Source:- Indian Ports Association.

# Traffic Handled At Indian Ports (In Million Tonnes)

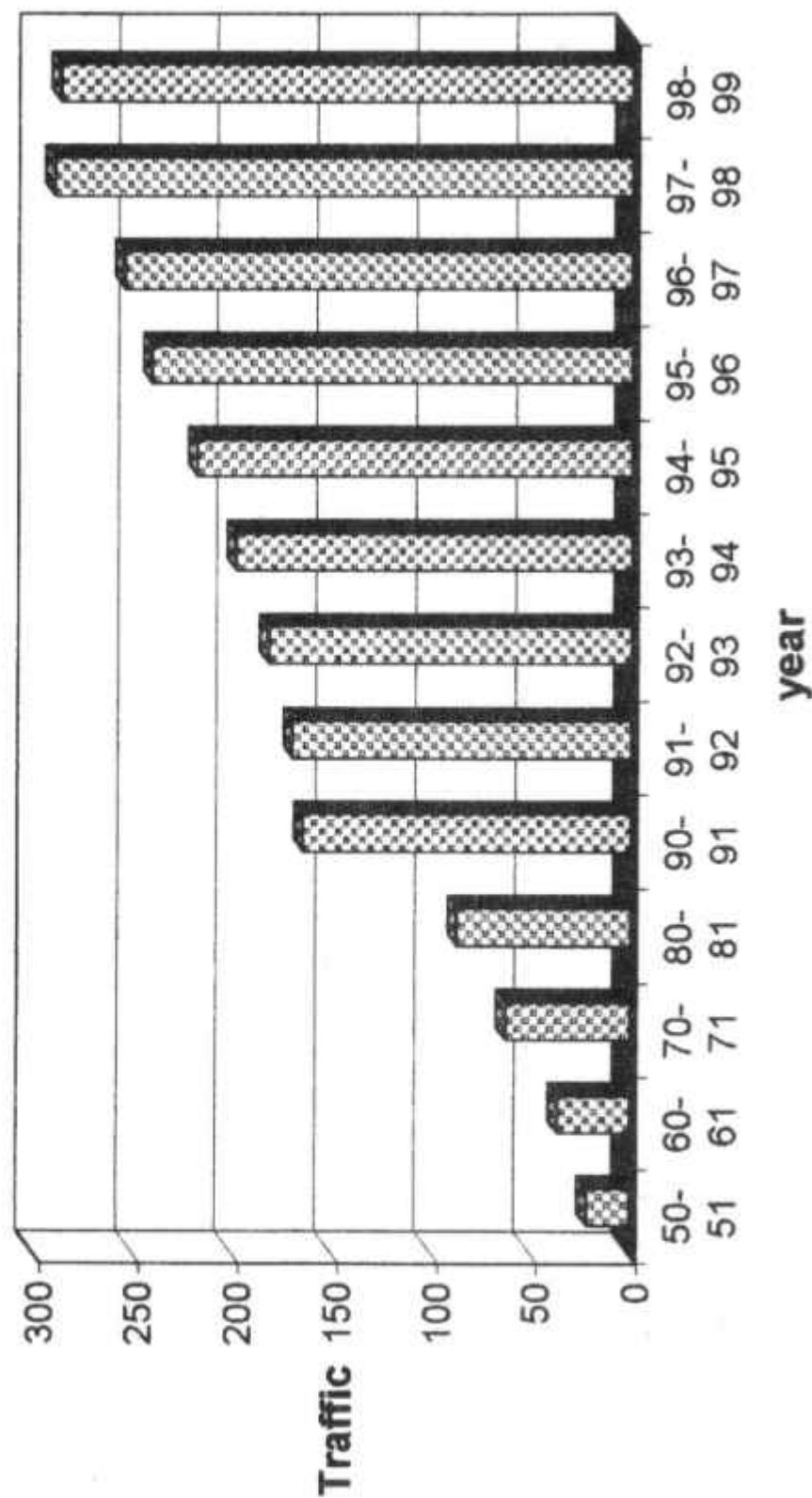


TABLE - VI  
Traffic Handled At Minor/Intermediate Ports

|                |       | ('000 Tonnes) |         |            |         |                    |         |               |         |          |         |
|----------------|-------|---------------|---------|------------|---------|--------------------|---------|---------------|---------|----------|---------|
| State / U.T.   |       | Overseas      |         | Coastal    |         | Overseas & Coastal |         | Transshipment |         | Overseas |         |
|                |       | : Loaded      |         | : Unloaded |         | : Loaded           |         | : Unloaded    |         | : mentg  |         |
|                |       | : Unloaded    | : Total | : Unloaded | : Total | : Loaded           | : Total | : Unloaded    | : Total | : Total  | : Total |
| Gujarat*       |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | 9089  | 8666          | 17755   | 3823       | 1639    | 5462               | 12912   | 10305         | 4498    | 27715    | 22809   |
| 1998-99        | 10394 | 5195          | 15589   | 3469       | 2844    | 6313               | 13863   | 8039          | 907     |          |         |
| Maharashtra    |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | 3519  | 191           | 3710    | 795        | 180     | 975                | 4314    | 371           | -       | 4685     | 5150    |
| 1998-99        | 3156  | 129           | 3285    | 1748       | 117     | 1865               | 4904    | 246           | -       |          |         |
| Goa            |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | 236   | 622           | 858     | 53         | 74      | 127                | 289     | 696           | -       | 985      | 2153    |
| 1998-99        | 104   | 1663          | 1767    | 102        | 284     | 386                | 206     | 1947          | -       |          |         |
| Daman & Diu    |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | -     | -             | -       | -          | -       | -                  | -       | -             | -       | -        | -       |
| 1998-99        | -     | -             | -       | -          | -       | -                  | -       | -             | -       | -        | -       |
| Karnataka      |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | 134   | 169           | 303     | 86         | 115     | 201                | 220     | 284           | -       | 504      | 234     |
| 1998-99        | 75    | 87            | 162     | 72         | -       | 72                 | 147     | 87            | -       |          |         |
| Kerala         |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | -     | 82            | 82      | 14         | 20      | 34                 | 14      | 102           | -       | 116      | 116     |
| 1998-99        | -     | 82            | 82      | 14         | 20      | 34                 | 14      | 102           | -       |          |         |
| Tamil Nadu     |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | 62    | -             | 62      | -          | 206     | 206                | 62      | 206           | -       | 268      | 472     |
| 1998-99        | 79    | -             | 79      | -          | 393     | 393                | 79      | 393           | -       |          |         |
| Pondicherry    |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | -     | -             | -       | -          | -       | -                  | -       | -             | -       | -        | -       |
| 1998-99        | 23    | -             | 23      | -          | -       | -                  | 23      | -             | -       | 23       |         |
| Andhra Pradesh |       |               |         |            |         |                    |         |               |         |          |         |
| 1997-98        | 1133  | 544           | 1677    | 59         | 1802    | 1861               | 1192    | 2346          | -       | 3538     | 3814    |
| 1998-99        | 1029  | 1056          | 2085    | 364        | 1365    | 1729               | 1393    | 2421          | -       |          |         |

Note: \* Separate Unloaded & Loaded Transshipment figures are not available.

TABLE - VI  
Traffic Handled At Minor/Intermediate Ports (Contd.)

| State / U.T.              | Overseas |        |       | Coastal  |        |       | Overseas & Coastal |        |       | Transshipment |        |       |
|---------------------------|----------|--------|-------|----------|--------|-------|--------------------|--------|-------|---------------|--------|-------|
|                           | Unloaded | Loaded | Total | Unloaded | Loaded | Total | Unloaded           | Loaded | Total | Unloaded      | Loaded | Total |
| Orissa                    |          |        |       |          |        |       |                    |        |       |               |        |       |
| 1997-98                   | 56       | 145    | 201   | -        | -      | -     | 56                 | 145    | 201   | -             | -      | -     |
| 1998-99                   | -        | 120    | 120   | -        | -      | -     | -                  | 120    | 120   | -             | -      | -     |
| Andaman & Nicobar Islands |          |        |       |          |        |       |                    |        |       |               |        |       |
| 1997-98                   | 17       | -      | 17    | 368      | 187    | 555   | 385                | 187    | 572   | -             | -      | -     |
| 1998-99                   | 22       | -      | 22    | 422      | 250    | 672   | 444                | 250    | 694   | -             | -      | -     |
| Lakshadweep               |          |        |       |          |        |       |                    |        |       |               |        |       |
| 1997-98                   | -        | -      | -     | 23       | -      | 23    | 23                 | -      | 23    | -             | -      | -     |
| 1998-99                   | -        | -      | -     | 23       | -      | 23    | 23                 | -      | 23    | -             | -      | -     |
| Total                     |          |        |       |          |        |       |                    |        |       |               |        |       |
| 1997-98                   | 14246    | 10419  | 24665 | 5221     | 4223   | 9444  | 19467              | 14642  | 4498  | 38607         | -      | -     |
| 1998-99                   | 14882    | 8332   | 23214 | 6214     | 5273   | 11487 | 21096              | 13605  | 907   | 35608         | -      | -     |

Note: \*Traffic handled at Gujarat Minor Port does not include LDT's at Alang & Sachana.  
1998-99 data is provisional.

TABLE - VII

Traffic Handled at Minor/Intermediate Ports 1998-99(P) - Commoditywise

| State/      | Commodity                  | (' 000 Tonnes) |        |         |          |                    |       |               |        |                                    |       |
|-------------|----------------------------|----------------|--------|---------|----------|--------------------|-------|---------------|--------|------------------------------------|-------|
|             |                            | Overseas       |        | Coastal |          | Overseas & Coastal |       | Transshipment |        | Overseas : Coastal & Transshipment |       |
|             |                            | Unloaded       | Loaded | Total   | Unloaded | Loaded             | Total | Unloaded      | Loaded | Total                              | Total |
| GUJARAT*    | Fertiliser & Raw Materials | 10394          | 5195   | 15589   | 3469     | 2844               | 6313  | 13883         | 8039   | 907                                | 22809 |
|             | Building Materials         | 1254           | 51     | 1305    | -        | 1                  | 1     | 1254          | 52     | -                                  | 1306  |
|             | Coal                       | 4234           | 2232   | 2232    | 713      | 1859               | 2572  | 713           | 4191   | -                                  | 4904  |
|             | POL & other products       | 2485           | -      | 4234    | 56       | -                  | 56    | 4290          | -      | -                                  | 4290  |
|             | Iron Ore                   | -              | -      | 2485    | 186      | -                  | 186   | 2671          | -      | -                                  | 2671  |
|             | Chemicals                  | 653            | 26     | 679     | 43       | 37                 | 80    | 1929          | -      | -                                  | 1929  |
|             | Salt                       | -              | 37     | 37      | -        | 77                 | 77    | 696           | 63     | -                                  | 759   |
|             | H. R. Coils                | -              | 300    | 300     | -        | 181                | 181   | -             | 114    | -                                  | 114   |
|             | Paraxylene                 | 507            | -      | 507     | 6        | -                  | 6     | -             | 481    | -                                  | 481   |
|             | Oil Cakes                  | -              | 1227   | 1227    | -        | -                  | -     | 513           | -      | -                                  | 513   |
| MAHARASHTRA | Others                     | 1261           | 1322   | 2583    | 536      | 589                | 1125  | 1797          | 1227   | -                                  | 1227  |
|             | Transshipment              | -              | -      | -       | -        | -                  | -     | -             | 1911   | -                                  | 3708  |
|             | Iron Ore                   | 3156           | 129    | 3285    | 1748     | 117                | 1865  | 4904          | 246    | -                                  | 5150  |
|             | Building Material          | 2388           | 129    | 2517    | 232      | 118                | 348   | 2620          | 245    | -                                  | 2865  |
|             | Coal                       | 452            | -      | 452     | 1447     | -                  | 1447  | 1447          | -      | -                                  | 1447  |
|             | Others                     | 316            | -      | 316     | 69       | 1                  | 70    | 452           | 1      | -                                  | 452   |
|             | GOA                        | 104            | 1663   | 1767    | 102      | 284                | 386   | 206           | 1947   | -                                  | 2153  |
|             | Iron Ore                   | -              | 1663   | 1663    | 94       | 282                | 376   | 94            | 1945   | -                                  | 2039  |
|             | Coal                       | 104            | -      | 104     | -        | 1                  | 1     | 104           | 1      | -                                  | 105   |
|             | Others                     | -              | -      | -       | 8        | 1                  | 9     | 8             | 1      | -                                  | 9     |

Note: \*The traffic handled at Gujarat Minor Ports does not include LDT's at Alang &amp; Sachana.

TABLE - VII

Traffic Handled at Minor/Intermediate Ports 1998-99(P) - Commoditywise(Contd...)

| (In '000 Tonnes)             |   |          |   |         |   |                    |   |               |   |                                        |   |       |
|------------------------------|---|----------|---|---------|---|--------------------|---|---------------|---|----------------------------------------|---|-------|
| State/                       | : | Overseas | : | Coastal | : | Overseas & Coastal | : | Transshipment | : | Overseas<br>Coastal &<br>Transshipment |   |       |
| Commodity                    | : | Unloaded | : | Loaded  | : | Total              | : | Unloaded      | : | Loaded                                 | : | Total |
| TAMIL NADU                   | : | 79       | : | -       | : | 79                 | : | -             | : | 393                                    | : | 393   |
| Fertiliser                   | : | 47       | : | -       | : | 47                 | : | -             | : | -                                      | : | -     |
| Crude Oil                    | : | -        | : | -       | : | -                  | : | -             | : | 393                                    | : | 393   |
| Others                       | : | 32       | : | -       | : | 32                 | : | -             | : | -                                      | : | -     |
| ANDHRA PRADESH               | : | 1029     | : | 1056    | : | 2085               | : | 364           | : | 1385                                   | : | 2421  |
| Crude Oil                    | : | 27       | : | -       | : | 27                 | : | 299           | : | 1340                                   | : | 1340  |
| Fertiliser &<br>Raw Material | : | 666      | : | -       | : | 666                | : | -             | : | -                                      | : | -     |
| Others                       | : | 396      | : | 1056    | : | 1392               | : | 65            | : | 25                                     | : | 90    |
| ORISSA                       | : | -        | : | 120     | : | 120                | : | -             | : | -                                      | : | -     |
| Fertiliser                   | : | -        | : | 120     | : | 120                | : | -             | : | -                                      | : | -     |
| ANDAMAN &<br>NICOBAR*        | : | 22       | : | -       | : | 22                 | : | 422           | : | 250                                    | : | 672   |
| LAKSHADWEEP*                 | : | -        | : | -       | : | -                  | : | 23            | : | -                                      | : | 23    |

Note: \* Commodity wise details are not available. The total commodity wise traffic for these ports is included under the heading of 'others'.

TABLE - VII

Traffic Handled at Minor/Intermediate Ports 1998-99(P) - Commoditywise(Contd...)

| State/<br>Commodity | (In '000 Tonnes) |          |            |          |                    |          |               |          |                                    |         |
|---------------------|------------------|----------|------------|----------|--------------------|----------|---------------|----------|------------------------------------|---------|
|                     | Overseas         |          | Coastal    |          | Overseas & Coastal |          | Transshipment |          | Overseas : Coastal & Transshipment |         |
|                     | : Unloaded       | : Loaded | : Unloaded | : Loaded | : Unloaded         | : Loaded | : Unloaded    | : Loaded | : Total                            | : Total |
| KARNATAKA           | 75               | 87       | 182        | 72       | 72                 | -        | 147           | 87       | -                                  | 234     |
| Granite             | -                | 74       | 74         | -        | -                  | -        | -             | 74       | -                                  | 74      |
| Phosphoric Acid     | 38               | 11       | 49         | -        | -                  | -        | 38            | 11       | -                                  | 49      |
| Salt                | -                | -        | -          | 72       | 72                 | -        | 72            | -        | -                                  | 72      |
| Others              | 37               | 2        | 39         | -        | -                  | -        | 37            | 2        | -                                  | 39      |
| KERALA**            | -                | 82       | 82         | 14       | 34                 | 20       | 14            | 102      | -                                  | 116     |
| Ilmenite            | -                | 81       | 81         | -        | -                  | -        | -             | 81       | -                                  | 81      |
| Others              | -                | 1        | 1          | 14       | 34                 | 20       | 14            | 21       | -                                  | 35      |
| PONDICHERRY         | 23               | -        | 23         | -        | -                  | -        | 23            | -        | -                                  | 23      |
| Wheat               | 23               | -        | 23         | -        | -                  | -        | 23            | -        | -                                  | 23      |

\*\* Data relates to 1997-98.

TABLE - VII

Traffic Handled at Minor/Intermediate Ports (1998-99(P) - Commoditywise(Contd...))

| Commodity            | Status/ | Overseas |        |       | Coastal  |        |       | Overseas & Coastal |        |       | Transshipment |        | Overseas & Coastal & Transshipment |       |
|----------------------|---------|----------|--------|-------|----------|--------|-------|--------------------|--------|-------|---------------|--------|------------------------------------|-------|
|                      |         | Unloaded | Loaded | Total | Unloaded | Loaded | Total | Unloaded           | Loaded | Total | Unloaded      | Loaded | Total                              | Total |
| TOTAL                |         | 14882    | 8332   | 23214 | 6214     | 5273   | 11487 | 21096              | 13605  | 34701 | 907           |        | 35608                              |       |
| Fertiliser & R.M     |         | 2005     | 182    | 2187  | -        | 1      | 1     | 2005               | 183    | 2188  | -             |        | 2189                               |       |
| Building Material    |         | -        | 2232   | 2232  | 2160     | 1959   | 4119  | 2160               | 4191   | 6351  | -             |        | 6351                               |       |
| Coal                 |         | 4790     | -      | 4790  | 56       | 1      | 57    | 4846               | 1      | 4847  | -             |        | 4847                               |       |
| POL & Other Products |         | 2512     | -      | 2512  | 485      | 1340   | 1825  | 2997               | 1340   | 4337  | -             |        | 4337                               |       |
| Iron Ore             |         | 2388     | 1792   | 4180  | 2255     | 398    | 2653  | 4843               | 2190   | 6833  | -             |        | 6833                               |       |
| Chemicals            |         | 653      | 26     | 679   | 43       | 37     | 80    | 696                | 63     | 759   | -             |        | 759                                |       |
| Salt                 |         | -        | 37     | 37    | 72       | 77     | 149   | 72                 | 114    | 186   | -             |        | 186                                |       |
| Granite              |         | -        | 74     | 74    | -        | -      | -     | -                  | 74     | 74    | -             |        | 74                                 |       |
| Ilmenite             |         | -        | 81     | 81    | -        | -      | -     | -                  | 81     | 81    | -             |        | 81                                 |       |
| Wheat                |         | 23       | -      | 23    | -        | -      | -     | 23                 | -      | 23    | -             |        | 23                                 |       |
| H. R. Coils          |         | -        | 300    | 300   | -        | 181    | 181   | -                  | 481    | 481   | -             |        | 481                                |       |
| Paraxylene           |         | 507      | -      | 507   | 6        | -      | 6     | 513                | -      | 513   | -             |        | 513                                |       |
| Oil Cakes            |         | -        | 1227   | 1227  | -        | -      | -     | -                  | 1227   | 1227  | -             |        | 1227                               |       |
| Others               |         | 2004     | 2381   | 4385  | 1137     | 1279   | 2416  | 3141               | 3060   | 6201  | -             |        | 6201                               |       |
| Transshipment        |         | -        | -      | -     | -        | -      | -     | -                  | -      | -     | 907           |        | 907                                |       |

Table VIII

## Cargo Traffic Handled At Minor/Intermediate Ports - 1998-99(P) - Portwise

|            |       | ('000 Tonnes) |        |         |          |                    |       |               |        |                                    |       |
|------------|-------|---------------|--------|---------|----------|--------------------|-------|---------------|--------|------------------------------------|-------|
| State/Port | 1     | Overseas      |        | Coastal |          | Overseas & Coastal |       | Transshipment |        | Overseas : Coastal & Transshipment |       |
|            |       | Unloaded      | Loaded | Total   | Unloaded | Loaded             | Total | Unloaded      | Loaded | Total                              | Total |
| 1          | 2     | 3             | 4      | 5       | 6        | 7                  | 8     | 9             | 10     | 11                                 |       |
| GUJARAT*   | 10394 | 5185          | 15589  | 3469    | 2844     | 6313               | 13863 | 8039          | 907    | 22809                              |       |
| Bedi       | 385   | 1091          | 1476   | 6       | -        | 6                  | 391   | 1091          | -      | 1482                               |       |
| Bhavnagar  | 506   | 166           | 672    | -       | -        | -                  | 506   | 166           | 427    | 1099                               |       |
| Dahelj     | 532   | 49            | 581    | 58      | -        | 58                 | 590   | 49            | -      | 639                                |       |
| Jafarabad  | 524   | 1708          | 2232   | -       | 639      | 639                | 524   | 2347          | -      | 2871                               |       |
| Jakhau     | -     | -             | -      | -       | 4        | 4                  | -     | 4             | -      | 4                                  |       |
| Magdalla   | 4515  | 595           | 5110   | 3080    | 720      | 3800               | 7595  | 1315          | 110    | 9020                               |       |
| Muldwarka  | 414   | 416           | 830    | 1       | 1138     | 1139               | 415   | 1554          | -      | 1969                               |       |
| Mundra     | -     | 38            | 38     | -       | 25       | 25                 | -     | 63            | -      | 63                                 |       |
| Navlakhi   | 1084  | 37            | 1101   | -       | -        | -                  | 1064  | 37            | -      | 1101                               |       |
| Okha       | 723   | 495           | 1218   | 146     | 83       | 229                | 869   | 578           | -      | 1447                               |       |
| Portbandar | 196   | 115           | 311    | 27      | 2        | 29                 | 223   | 117           | -      | 340                                |       |
| Sikka      | 1063  | 33            | 1096   | 56      | 75       | 131                | 1119  | 108           | 370    | 1597                               |       |
| Veraval    | 195   | 23            | 218    | -       | 98       | 98                 | 195   | 121           | -      | 316                                |       |
| GAPL       | 122   | 114           | 236    | -       | -        | -                  | 122   | 114           | -      | 236                                |       |
| GPPL       | 155   | 315           | 470    | 95      | 60       | 155                | 250   | 375           | -      | 625                                |       |

Note: The traffic handled at Gujarat Minor Ports does not include LDT's at Alang &amp; Sachana.

Table VIII

Cargo Traffic Handled At Minor/Intermediate Ports - 1998-99(P) -Portwise(Contd...)

| (000 Tonnes)       |          |        |       |          |        |       |                    |        |       |                                                            |
|--------------------|----------|--------|-------|----------|--------|-------|--------------------|--------|-------|------------------------------------------------------------|
| State/Port         | Overseas |        |       | Coastal  |        |       | Overseas & Coastal |        |       | Transshipment : Overseas : Coastal & Transshipment : Total |
|                    | Unloaded | Loaded | Total | Unloaded | Loaded | Total | Unloaded           | Loaded | Total |                                                            |
| 1                  | 2        | 3      | 4     | 5        | 6      | 7     | 8                  | 9      | 10    | 11                                                         |
| <b>MAHARASHTRA</b> | 3156     | 129    | 3285  | 1746     | 117    | 1865  | 4904               | 246    | -     | 5150                                                       |
| Dabhol             | 524      | -      | 524   | 44       | -      | 44    | 568                | -      | -     | 568                                                        |
| Charamlat          | 1614     | -      | 1614  | N        | 51     | 51    | 1614               | 51     | -     | 1665                                                       |
| Mandwa             | -        | -      | -     | 6        | -      | 6     | 6                  | -      | -     | 6                                                          |
| Mora               | -        | -      | -     | 2        | N      | 2     | 2                  | N      | -     | 2                                                          |
| Ratnagiri          | 211      | -      | 211   | 764      | -      | 764   | 965                | -      | -     | 965                                                        |
| Rewdanda           | 807      | 129    | 936   | 232      | 66     | 298   | 1039               | 195    | -     | 1234                                                       |
| Trombay            | -        | -      | -     | -        | N      | N     | -                  | N      | -     | N                                                          |
| Ulwa Belapur       | -        | -      | -     | 680      | -      | 680   | 680                | -      | -     | 680                                                        |
| <b>GOA</b>         | 104      | 1663   | 1767  | 102      | 284    | 386   | 206                | 1947   | -     | 2153                                                       |
| Panaji             | 104      | 1663   | 1767  | 102      | 284    | 386   | 206                | 1947   | -     | 2153                                                       |
| <b>KARNATAKA</b>   | 75       | 87     | 162   | 72       | -      | 72    | 147                | 87     | -     | 234                                                        |
| Karwar             | 75       | 87     | 162   | 72       | -      | 72    | 147                | 87     | -     | 234                                                        |

Table VIII

Cargo Traffic Handled At Minor/Intermediate Ports - 1998-99(P) -Portwise(Contd....)

| ('000 Tonnes)            |            |          |       |            |        |                    |            |               |       |                                   |  |
|--------------------------|------------|----------|-------|------------|--------|--------------------|------------|---------------|-------|-----------------------------------|--|
|                          |            | Overseas |       | Coastal    |        | Overseas & Coastal |            | Transshipment |       | Overseas :Coastal & Transshipment |  |
| State/Port               | : Unloaded | Loaded   | Total | : Unloaded | Loaded | Total              | : Unloaded | Loaded        | Total | : Total                           |  |
| 1                        | 2          | 3        | 4     | 5          | 6      | 7                  | 8          | 9             | 10    | 11                                |  |
| ANDHRA PRADESH           | 1029       | 1056     | 2085  | 364        | 1365   | 1729               | 1393       | 2421          | -     | 3814                              |  |
| Kakinada Anchorage Port  | 484        | 1006     | 1490  | 34         | 25     | 59                 | 518        | 1031          | -     | 1549                              |  |
| Kakinada Deep Water Port | 545        | 50       | 595   | 330        | N      | 330                | 875        | 50            | -     | 925                               |  |
| Rawa                     | -          | -        | -     | -          | 1340   | 1340               | -          | 1340          | -     | 1340                              |  |
| TAMIL NADU               | 79         | -        | 79    | -          | 393    | 393                | 79         | 393           | -     | 472                               |  |
| Cuddalore                | 29         | -        | 29    | -          | -      | -                  | 29         | -             | -     | 29                                |  |
| Ennore                   | 47         | -        | 47    | -          | -      | -                  | 47         | -             | -     | 47                                |  |
| PY-3                     | -          | -        | -     | -          | 393    | 393                | -          | 393           | -     | 393                               |  |
| Thirukkadaiyar           | 3          | -        | 3     | -          | -      | -                  | 3          | -             | -     | 3                                 |  |
| PONDICHERRY              | 23         | -        | 23    | -          | -      | -                  | 23         | -             | -     | 23                                |  |
| Pondicherry              | 23         | -        | 23    | -          | -      | -                  | 23         | -             | -     | 23                                |  |

Table VIII

Cargo Traffic Handled At Minor/Intermediate Ports - 1998-99(P) -Portwise(Contd...)

('000 Tonnes)

| States/Port        | 1     | 2    | Overseas   |          | 3    | 4     | Coastal    |          | 5   | 6     | 7 | Overseas & Coastal |          | 8 | 9 | Transshipment |          | 10 | 11 |
|--------------------|-------|------|------------|----------|------|-------|------------|----------|-----|-------|---|--------------------|----------|---|---|---------------|----------|----|----|
|                    |       |      | : Unloaded | : Loaded |      |       | : Unloaded | : Loaded |     |       |   | : Unloaded         | : Loaded |   |   | : Unloaded    | : Loaded |    |    |
| KERALA**           | -     | -    | 82         | 82       | 14   | 20    | 34         | 14       | 102 | -     | - | 116                | -        | - | - | -             | -        | -  | -  |
| Kozhikode/Beyppore | -     | -    | -          | -        | 13   | 19    | 32         | 13       | 19  | -     | - | 32                 | -        | - | - | -             | -        | -  | -  |
| Neeendakara        | -     | -    | 81         | 81       | -    | -     | -          | -        | 81  | -     | - | 81                 | -        | - | - | -             | -        | -  | -  |
| Kovalam            | -     | -    | 1          | 1        | -    | 1     | 1          | -        | 2   | -     | - | 2                  | -        | - | - | -             | -        | -  | -  |
| Azhikkal           | -     | -    | -          | -        | 1    | -     | 1          | 1        | -   | -     | - | 1                  | -        | - | - | -             | -        | -  | -  |
| ORISSA             | -     | -    | 120        | 120      | -    | -     | -          | -        | 120 | -     | - | 120                | -        | - | - | -             | -        | -  | -  |
| Gopalpur           | -     | -    | 120        | 120      | -    | -     | -          | -        | 120 | -     | - | 120                | -        | - | - | -             | -        | -  | -  |
| ANDAMAN & NICOBAR  | -     | -    | -          | -        | 422  | 250   | 672        | 444      | 250 | -     | - | 694                | -        | - | - | -             | -        | -  | -  |
| Port Blair         | -     | -    | -          | -        | 336  | 99    | 435        | 344      | 99  | -     | - | 443                | -        | - | - | -             | -        | -  | -  |
| Other Ports        | -     | -    | -          | -        | 86   | 151   | 237        | 100      | 151 | -     | - | 251                | -        | - | - | -             | -        | -  | -  |
| LAKSHADWEEP        | -     | -    | -          | -        | 23   | -     | 23         | 23       | -   | -     | - | 23                 | -        | - | - | -             | -        | -  | -  |
| Total of all Ports | 14882 | 8332 | 23214      | 6214     | 5273 | 11487 | 21096      | 13605    | 907 | 35606 | - | -                  | -        | - | - | -             | -        | -  | -  |

\*\* Data relates to 1997-98.

**TABLE - IX**  
**Percentage Share Of Indian Flag In The Overseas**  
**Cargo Traffic At Indian Ports**

| Port               | 1996-97 (%) |        |       | 1997-98 (%) |        |       | 1998-99 (%) |        |       | Total |
|--------------------|-------------|--------|-------|-------------|--------|-------|-------------|--------|-------|-------|
|                    | Unloaded    | Loaded | Total | Unloaded    | Loaded | Total | Unloaded    | Loaded | Total |       |
| 1                  | 2           | 3      | 4     | 5           | 6      | 7     | 8           | 9      | 10    |       |
| <b>MAJOR PORTS</b> | 44.1        | 10.1   | 31.3  | 44.2        | 8.8    | 31.8  | 43.3        | 7.1    | 32.1  |       |
| Kandla             | 41.6        | 2.3    | 35.7  | 40.6        | 11.0   | 38.1  | 43.1        | 12.4   | 39.6  |       |
| Mumbai             | 32.4        | 31.4   | 32.0  | 30.1        | 28.4   | 29.5  | 31.0        | 21.2   | 28.4  |       |
| J.N.P.T.           | 23.7        | 11.4   | 18.4  | 10.3        | 9.2    | 9.9   | 8.4         | 7.0    | 7.9   |       |
| Mormugao           | 16.0        | 3.1    | 4.0   | 14.2        | 2.7    | 3.3   | 18.5        | 1.4    | 3.2   |       |
| N. Mangalore       | 76.2        | 10.4   | 37.7  | 77.8        | 7.4    | 40.8  | 73.8        | 10.4   | 45.8  |       |
| Cochin             | 47.9        | 4.4    | 36.6  | 64.0        | 27.4   | 58.9  | 70.2        | 48.3   | 67.2  |       |
| Tuticorin          | 16.2        | 13.6   | 15.0  | 27.3        | 11.2   | 21.6  | 22.8        | 4.6    | 16.8  |       |
| Chennai            | 39.3        | 2.6    | 23.7  | 45.2        | 4.5    | 27.5  | 39.5        | 3.9    | 24.5  |       |
| Vizag              | 59.4        | 6.2    | 38.4  | 55.2        | 7.3    | 40.8  | 49.7        | 2.8    | 36.4  |       |
| Paradip            | 9.3         | 28.8   | 15.7  | 31.1        | 13.1   | 26.2  | 19.6        | 3.8    | 15.6  |       |
| Haldia             | 47.9        | 20.6   | 47.0  | 54.9        | 5.3    | 52.0  | 57.9        | 3.6    | 55.1  |       |
| Calcutta           | 7.6         | 7.4    | 7.5   | 39.5        | 4.8    | 30.4  | 46.2        | 2.0    | 39.9  |       |
| <b>MINOR PORTS</b> | 13.5        | 13.5   | 13.5  | 13.6        | 22.6   | 16.8  | 14.0        | 25.0   | 17.9  |       |
| All Ports          | 42.2        | 10.5   | 29.8  | 40.6        | 10.4   | 30.0  | 40.2        | 9.4    | 30.5  |       |

Source : Major & Minor Ports .

TABLE - X  
Vessels-wise Selected Performance Indicators (Major Ports) - 1998-99(P)

| Item / Port                                 | Kandla | Mumbai | J.L.Nehru | Mormugao | Rev | Cochin | Tuticorin | Chennai | Vizag | Paradip | Haldia | Calcutta | All Ports |
|---------------------------------------------|--------|--------|-----------|----------|-----|--------|-----------|---------|-------|---------|--------|----------|-----------|
| <b>1. No. of vessels sailed</b>             |        |        |           |          |     |        |           |         |       |         |        |          |           |
| i) Dry-bulk                                 | 209    | 100    | 72        | 262      | 152 | 53     | 302       | 534     | 600   | 387     | 347    | 17       | 3035      |
| ii) Tankers                                 | 1045   | 805    | 160       | 155      | 422 | 398    | 136       | 481     | 582   | 286     | 598    | 438      | 5506      |
| iii) Break-bulk                             | 341    | 621    | 5         | 35       | 150 | 141    | 369       | 260     | 190   | 4       | 108    | 261      | 2485      |
| iv) Container                               | 113    | 696    | 656       | 31       | -   | 377    | 266       | 422     | 93    | 1       | 268    | 310      | 3233      |
| v) All types                                | 1708   | 2222   | 893       | 483      | 724 | 969    | 1073      | 1697    | 1465  | 678     | 1321   | 1026     | 14259     |
| <b>2. Av. Pre-berthing detention (days)</b> |        |        |           |          |     |        |           |         |       |         |        |          |           |
| i) Dry-bulk                                 | 5.4    | 4.3    | 3.3       | 2.0      | 1.1 | 0.4    | 1.8       | 3.5     | 1.8   | 0.6     | 1.4    | 2.0      | 2.2       |
| ii) Tankers                                 | 3.5    | 1.8    | 2.3       | 0.8      | 1.0 | 1.2    | 1.2       | 4.6     | 1.4   | 2.0     | 1.5    | 1.2      | 2.1       |
| iii) Break-bulk                             | 8.4    | 2.4    | 0.7       | 0.6      | 0.8 | 0.4    | 2.4       | 1.7     | 2.4   | 1.4     | 3.1    | 1.3      | 2.8       |
| iv) Container                               | 2.6    | 1.3    | 1.0       | 0.1      | -   | 0.7    | 0.6       | 3.7     | 0.7   | 0.1     | 0.1    | 0.8      | 1.3       |
| v) All types                                | 4.6    | 1.9    | 1.4       | 1.4      | 0.9 | 0.9    | 1.6       | 3.6     | 1.6   | 1.2     | 1.3    | 1.1      | 2.1       |
| <b>3. Av. Turn round time (days)</b>        |        |        |           |          |     |        |           |         |       |         |        |          |           |
| i) Dry-bulk                                 | 11.5   | 21.0   | 12.2      | 7.7      | 5.3 | 13.2   | 6.4       | 8.9     | 7.6   | 4.5     | 7.7    | 16.8     | 8.1       |
| ii) Tankers                                 | 5.5    | 4.6    | 4.4       | 2.6      | 2.4 | 3.2    | 3.1       | 7.5     | 3.2   | 3.6     | 3.1    | 4.7      | 4.3       |
| iii) Break-bulk                             | 15.8   | 10.0   | 3.5       | 5.3      | 6.1 | 4.7    | 6.0       | 7.6     | 7.8   | 7.9     | 14.7   | 13.2     | 9.7       |
| iv) Container                               | 5.6    | 5.0    | 2.2       | 0.9      | -   | 2.3    | 2.6       | 6.2     | 2.1   | 0.6     | 1.5    | 5.0      | 3.7       |
| v) All types                                | 8.3    | 6.8    | 3.4       | 5.4      | 3.8 | 3.6    | 4.9       | 7.6     | 5.5   | 4.2     | 4.8    | 7.1      | 5.9       |

TABLE - X (Contd...)

Vessels-wise Selected Performance Indicators (Major Ports) - 1998-99 (P)

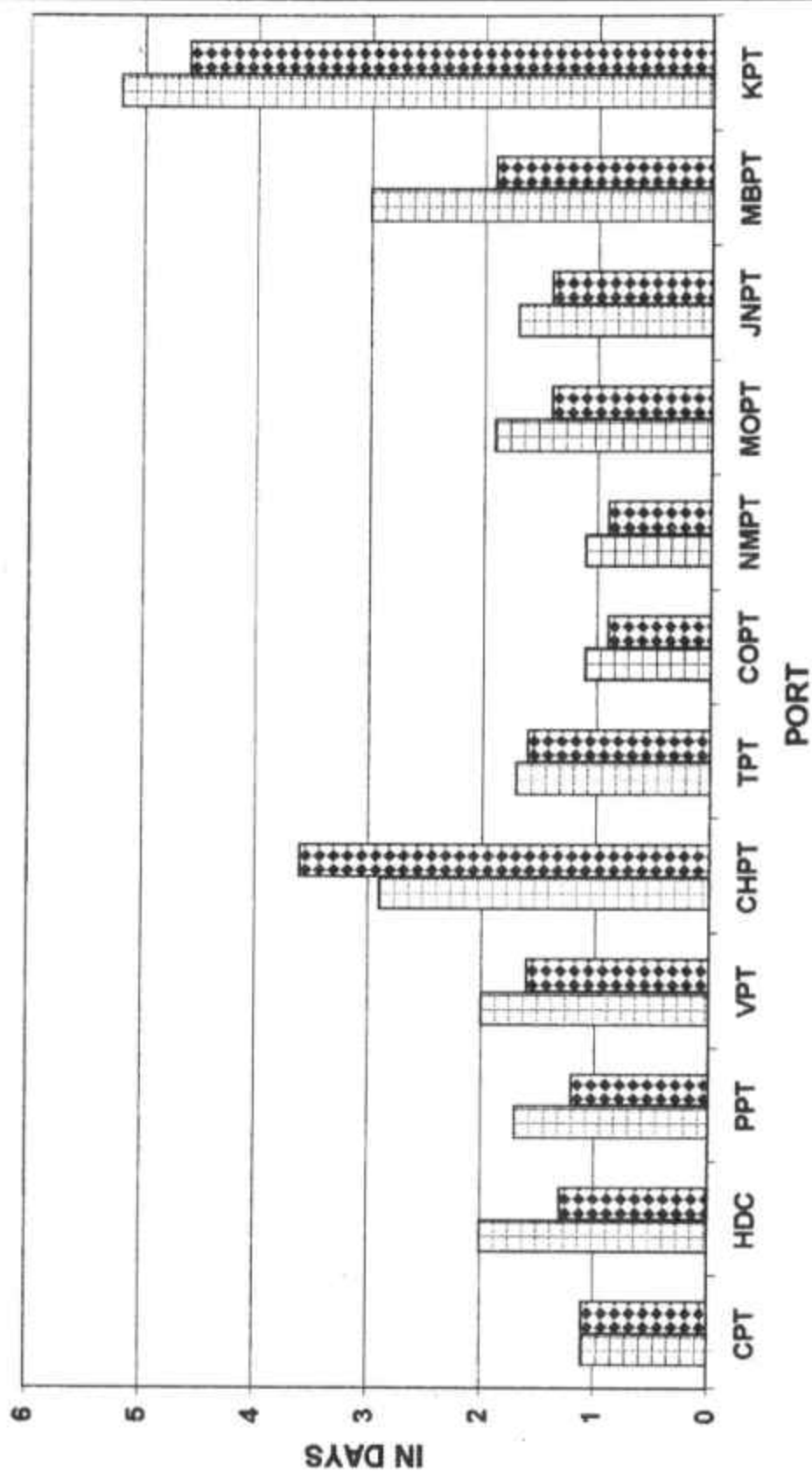
| Item / Port                                    | Kandla | Mumbai | J.L.Nehrur | Mormugao | New Mangalore | Cochin | Tuticorin | Chennai | Visag | Paradip | Maldiva | Calcutta | All Ports |
|------------------------------------------------|--------|--------|------------|----------|---------------|--------|-----------|---------|-------|---------|---------|----------|-----------|
| <b>4. % Idle time to time at working berth</b> |        |        |            |          |               |        |           |         |       |         |         |          |           |
| i) Dry-bulk                                    | 36     | 26     | 7          | 20       | 47            | 28     | 28        | 30      | 20    | 25      | 43      | 25       | 27        |
| ii) Tankers                                    | 32     | 24     | 4          | 34       | 26            | 23     | 28        | 29      | 36    | ...     | 37      | 48       | 29        |
| iii) Break-bulk                                | 7      | 30     | 6          | 16       | 57            | 42     | 30        | 46      | 25    | 27      | 40      | 38       | 32        |
| iv) Container                                  | 16     | 20     | 9          | 14       | -             | 32     | 34        | 41      | 37    | 40      | 43      | 36       | 27        |
| v) All types                                   | 23     | 26     | 7          | 21       | 45            | 30     | 30        | 36      | 24    | 20      | 41      | 39       | 29        |
| <b>5. Output per ship berth day (tonnes)</b>   |        |        |            |          |               |        |           |         |       |         |         |          |           |
| i) Dry-bulk                                    | 2621   | 816    | 3436       | 12493    | 9700          | 1020   | 4778      | 7250    | 5793  | 7123    | 5271    | 586      | 5481      |
| ii) Tankers                                    | 17239  | 8147   | 5139       | 5973     | 14203         | 15432  | 4231      | 10233   | 14038 | 6331    | 15033   | 4886     | 11172     |
| iii) Break-bulk                                | 1791   | 864    | 2425       | 3013     | 768           | 836    | 722       | 871     | 1545  | 1200    | 608     | 308      | 903       |
| iv) Container                                  | 3082   | 2620   | 10265      | 1549     | -             | 1901   | 1915      | 2924    | 1440  | 1915    | 1465    | 1904     | 3258      |
| v) All types                                   | 7230   | 2800   | 6886       | 10696    | 7536          | 4617   | 2577      | 5484    | 6466  | 6750    | 5634    | 1527     | 4915      |

TABLE - XI

Commodity-wise Average Pre-Berthing Time (Major Ports) -1998-99 (P)

| Port ---><br>Commodity | (In Days) |        |         |       |         |           |        |                  |          |        |        |           |           |
|------------------------|-----------|--------|---------|-------|---------|-----------|--------|------------------|----------|--------|--------|-----------|-----------|
|                        | Calcutta  | Haldia | Paradip | Vizag | Chennai | Tuticorin | Cochin | New<br>Mangalore | Mormugao | Mumbai | Kandla | J.L.Nehru | All Ports |
| P.O.L                  | 0.97      | 1.49   | 2.25    | 1.43  | 5.62    | 1.23      | 1.36   | 0.97             | 0.81     | 2.00   | 3.65   | 2.89      | 2.22      |
| Iron Ore               | 0.43      | 0.39   | 1.18    | 2.29  | 2.95    | 4.97      | -      | 1.16             | 2.04     | 0.03   | -      | 4.31      | 2.02      |
| Coking Coal            | -         | 1.70   | 0.59    | 1.70  | 4.74    | -         | 0.44   | 0.65             | 0.14     | -      | 7.52   | -         | 1.78      |
| Thermal Coal           | -         | 0.65   | 0.43    | 0.35  | 3.09    | 1.54      | -      | -                | 1.05     | -      | -      | -         | 1.48      |
| Fertilisers            | -         | 4.48   | 0.16    | 2.85  | 5.62    | 0.92      | 0.48   | 0.40             | 2.07     | 2.14   | 5.08   | 2.88      | 3.24      |
| Raw Materials          | 2.49      | 2.74   | 0.74    | 3.01  | 4.13    | 1.87      | 0.41   | 0.09             | -        | 4.14   | 4.49   | 3.48      | 3.10      |
| Other Dry Bulk         | 1.38      | 2.93   | 0.96    | 2.18  | 4.29    | 1.99      | 0.45   | 1.19             | 0.83     | 5.13   | 5.43   | 3.11      | 2.80      |
| Other Lqd. Bulk        | 1.76      | 1.36   | 1.28    | 0.96  | 2.94    | 1.26      | 0.34   | 0.87             | 1.00     | 1.58   | 3.09   | 1.77      | 1.88      |
| Break Bulk             | 1.31      | 3.07   | 1.40    | 2.41  | 1.73    | 2.41      | 0.44   | 0.75             | 0.59     | 2.37   | 8.35   | 0.70      | 2.84      |
| Containers             | 0.79      | 0.08   | 0.12    | 0.73  | 3.69    | 0.57      | 0.71   | -                | 0.14     | 1.28   | 2.60   | 0.95      | 1.28      |
| Total                  | 1.10      | 1.30   | 1.22    | 1.65  | 3.56    | 1.61      | 0.87   | 0.94             | 1.38     | 1.91   | 4.63   | 1.38      | 2.07      |

# AVERAGE PRE BERTHING WAITING TIME (IN DAYS)



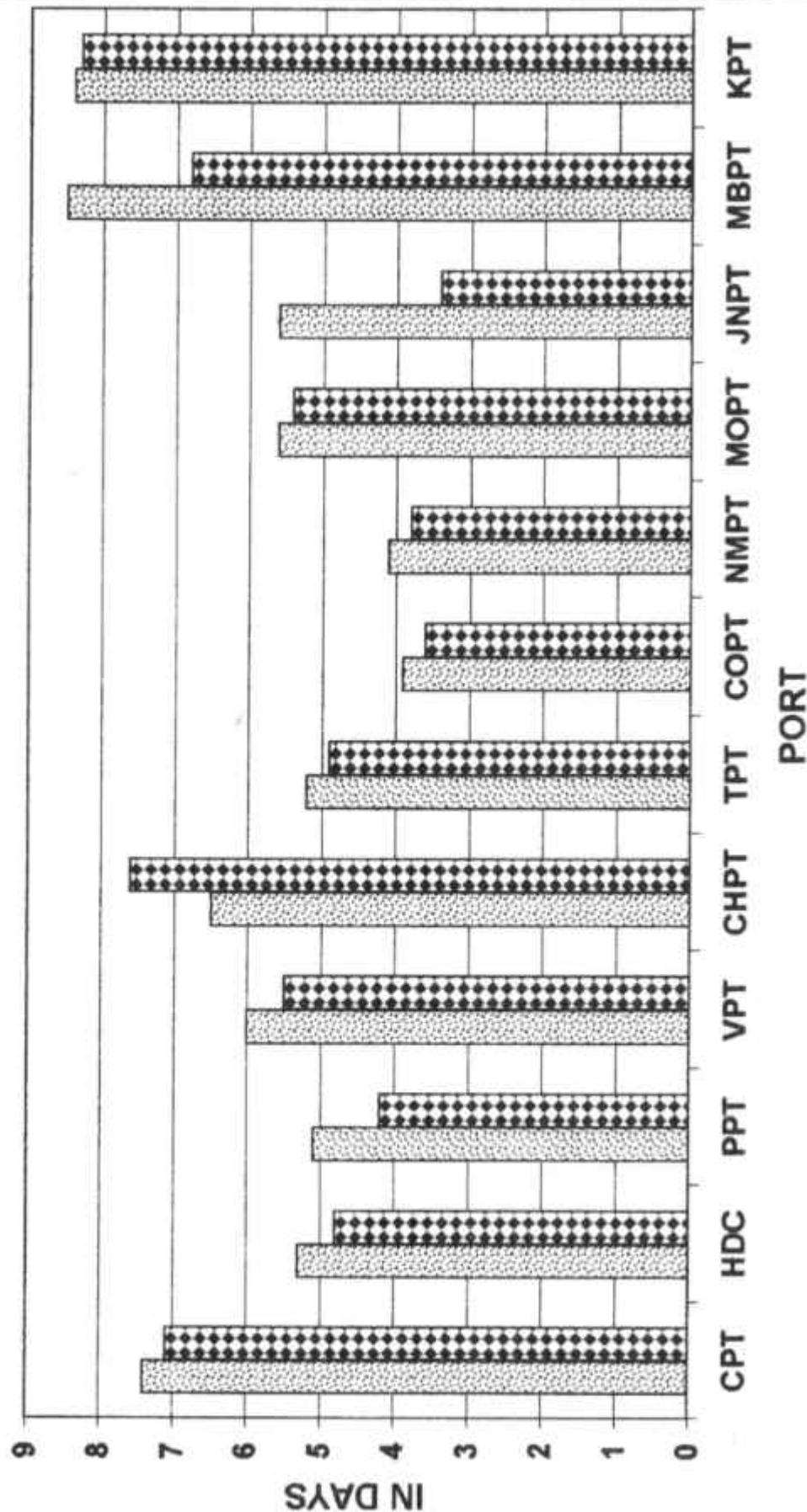
□ 1997-98 ■ 1998-99

TABLE - XII

Commodity-wise Average Turn Round Time (Major Ports) -1998-99(P)

| Port ---><br>Commodity | Calcutta | Haldia | Paradip | Vizag | Chennai | Tuticorin | Cochin | New<br>Mangalore | Mormugao | Mumbai | Kandla | J.I.Nehru All Ports | (In Days) |
|------------------------|----------|--------|---------|-------|---------|-----------|--------|------------------|----------|--------|--------|---------------------|-----------|
| P.O.L                  | 4.48     | 3.05   | 3.83    | 3.34  | 8.56    | 3.87      | 3.43   | 2.58             | 2.62     | 4.72   | 5.65   | 5.56                | 4.41      |
| Iron Ore               | 5.40     | 3.55   | 4.02    | 7.24  | 5.68    | 7.42      | -      | 2.72             | 6.07     | 11.45  | -      | 11.69               | 5.61      |
| Coking Coal            | -        | 7.72   | 4.48    | 6.16  | 9.60    | -         | 6.53   | 7.02             | 15.98    | -      | 12.78  | -                   | 6.53      |
| Thermal Coal           | -        | 3.45   | 3.56    | 5.58  | 7.50    | 4.97      | -      | -                | 5.83     | -      | -      | -                   | 5.29      |
| Fertilisers            | -        | 25.12  | 11.24   | 14.12 | 21.38   | 11.38     | 21.66  | 20.66            | 19.13    | 18.68  | 15.45  | 14.10               | 16.45     |
| Raw Materials          | 16.81    | 22.21  | 15.42   | 8.90  | 11.47   | 9.43      | 10.23  | 5.92             | -        | 22.26  | 9.43   | 15.03               | 13.88     |
| Other Dry Bulk         | 16.80    | 16.92  | 5.16    | 7.79  | 10.88   | 6.40      | 15.27  | 11.43            | 8.77     | 20.36  | 11.25  | 10.64               | 10.01     |
| Other Lqd. Bulk        | 5.36     | 3.42   | 2.80    | 2.42  | 5.57    | 2.89      | 1.35   | 1.64             | 2.47     | 4.42   | 5.19   | 3.29                | 4.05      |
| Break Bulk             | 13.21    | 14.68  | 7.87    | 7.79  | 7.61    | 6.05      | 4.70   | 6.13             | 5.29     | 9.96   | 15.75  | 3.48                | 9.66      |
| Containers             | 5.05     | 1.51   | 0.63    | 2.09  | 6.15    | 2.63      | 2.30   | -                | 0.87     | 5.02   | 5.62   | 2.23                | 3.71      |
| Total                  | 7.12     | 4.84   | 4.16    | 5.51  | 7.58    | 4.91      | 3.61   | 3.75             | 5.44     | 6.84   | 8.30   | 3.38                | 5.89      |

# AVERAGE TURN ROUND TIME (IN DAYS)



■ 1997-98 ■ 1998-99

TABLE - XIII

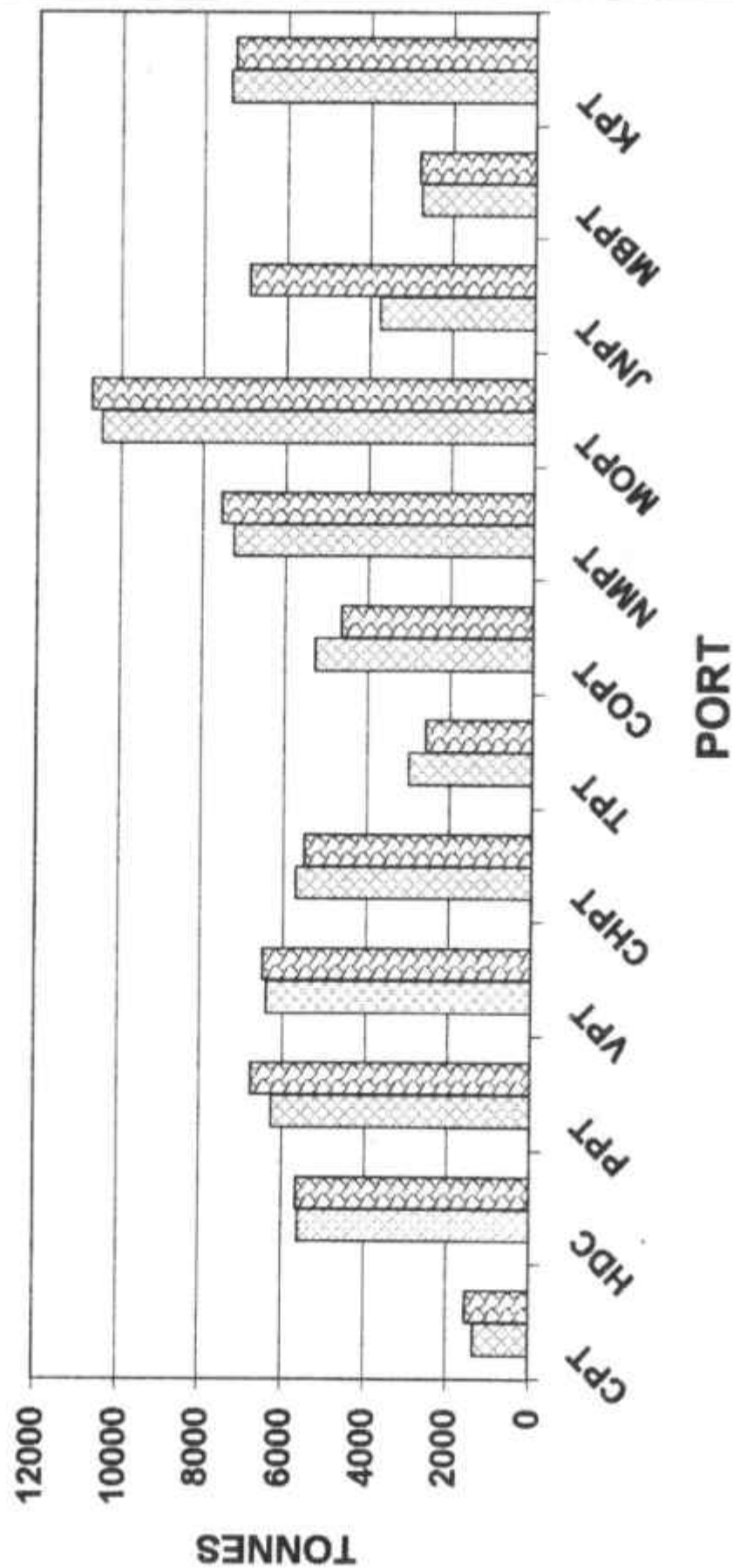
Commodity-wise Average Non-Working Time At Working Berth (Major Ports) - 1998-99(P)

| Port ----><br>Commodity | Calcutta | Haldia | Paradip | Visag | Chennai | Tuticorin | Cochin | New<br>Mangalore | Mormugao | Mumbai | Kandla | J.L.Nehru All Ports | (In Days) |
|-------------------------|----------|--------|---------|-------|---------|-----------|--------|------------------|----------|--------|--------|---------------------|-----------|
| P.O.L                   | 1.13     | 0.42   | ...     | 0.65  | 0.64    | 0.77      | 0.39   | 0.35             | 0.46     | 0.57   | 0.54   | 0.01                | 0.53      |
| Iron Ore                | 2.50     | 1.00   | 1.38    | 1.50  | 0.97    | 1.50      | -      | 0.54             | 0.80     | -      | -      | 0.21                | 0.91      |
| Coking Coal             | -        | 2.18   | 0.89    | 0.72  | 1.12    | -         | 2.00   | 3.00             | 4.20     | -      | 0.38   | -                   | 1.28      |
| Thermal Coal            | -        | 1.15   | 0.82    | 0.62  | 1.07    | 0.56      | -      | -                | 0.50     | -      | -      | -                   | 0.89      |
| Fertilisers             | -        | 5.60   | -       | 2.63  | 5.18    | 4.50      | 9.33   | 10.00            | 1.00     | 3.14   | 1.81   | 0.85                | 3.37      |
| Raw Materials           | 3.25     | 5.83   | -       | 0.49  | 2.94    | 2.64      | 4.05   | 3.00             | -        | 3.80   | 0.48   | 0.40                | 2.46      |
| Other Dry Bulk          | 3.00     | 3.44   | 1.33    | 1.33  | 1.81    | 1.26      | 6.26   | 5.24             | 1.05     | 4.82   | 0.56   | 0.66                | 1.84      |
| Other Lqd. Bulk         | 1.07     | 0.41   | ...     | 0.36  | 0.62    | 0.40      | 0.29   | 0.21             | 0.43     | 0.56   | 0.52   | 0.12                | 0.48      |
| Break Bulk              | 4.45     | 3.33   | 1.70    | 1.26  | 2.35    | 1.37      | 1.82   | 2.86             | 0.66     | 2.03   | 0.38   | 0.08                | 1.98      |
| Containers              | 1.16     | 0.41   | ned.    | 0.46  | 0.95    | 0.68      | 0.44   | -                | 0.06     | 0.69   | 0.39   | 0.10                | 0.57      |
| Total                   | 1.98     | 1.08   | 0.57    | 0.89  | 1.27    | 1.05      | 0.85   | 1.18             | 0.70     | 1.13   | 0.51   | 0.13                | 0.98      |

(In Tonnes)

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# OUT PUT PER SHIP BERTH-DAY (TONNES)



□ 1997-98 ▨ 1998-99

Table XV

## Major ports-Average Pre-Berthing Detention (P)

| Port          | (In Days) |          |              |         |          |              |
|---------------|-----------|----------|--------------|---------|----------|--------------|
|               | Total     | 1997-98  |              | 1998-99 |          |              |
|               |           | Port A/c | Non-Port A/c | Total   | Port A/c | Non-Port A/c |
| Calcutta      | 1.11      | 0.22     | 0.89         | 1.10    | 0.12     | 0.98         |
| Haldia        | 1.95      | 0.72     | 1.23         | 1.30    | 0.46     | 0.84         |
| Paradip       | 1.67      | 0.65     | 1.02         | 1.22    | 0.33     | 0.89         |
| Visakhapatnam | 1.97      | 1.54     | 0.43         | 1.65    | 0.76     | 0.89         |
| Chennai       | 2.91      | 1.02     | 1.89         | 3.56    | 1.59     | 1.97         |
| Tuticorin     | 1.70      | 0.45     | 1.25         | 1.61    | 0.01     | 1.60         |
| Cochin        | 1.07      | 0.42     | 0.65         | 0.87    | 0.25     | 0.62         |
| New Mangalore | 1.08      | 0.70     | 0.38         | 0.94    | 0.38     | 0.56         |
| Mormugao      | 1.87      | 0.54     | 1.33         | 1.38    | 0.49     | 0.89         |
| J.L.Nehru     | 1.74      | 1.52     | 0.22         | 1.38    | 0.45     | 0.93         |
| Mumbai        | 3.03      | 1.44     | 1.59         | 1.91    | 0.99     | 0.92         |
| Kandla        | 5.20      | 3.17     | 2.03         | 4.63    | 1.60     | 3.03         |
| All Ports     | 2.34      | 1.17     | 1.17         | 2.07    | 0.73     | 1.34         |

## **SECTION - I**

### **PORT SECTOR (MAJOR AND MINOR)**

#### **SUMMARY TABLES**

# 1.1.0 PORT SECTOR AT A GLANCE

| Item                                                        | 1991-92            | 1992-93            | 1993-94              | 1994-95              | 1995-96              | 1996-97              | 1997-98              |
|-------------------------------------------------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>I. No. of Ports</b>                                      |                    |                    |                      |                      |                      |                      |                      |
| i) Major                                                    | 11                 | 11                 | 11                   | 11                   | 11                   | 11                   | 11                   |
| ii) Minor/Intermediate                                      | 163                | 163                | 163                  | 163                  | 179                  | 179                  | 181                  |
| iii) Total                                                  | 174                | 174                | 174                  | 174                  | 190                  | 190                  | 192                  |
| <b>Major Ports</b>                                          |                    |                    |                      |                      |                      |                      |                      |
| <b>II. Cargo Handled<br/>(In million Tonnes)</b>            |                    |                    |                      |                      |                      |                      |                      |
| i) POL                                                      | 67.60              | 73.76              | 76.92                | 80.37                | 90.92                | 99.05                | 105.34               |
| ii) Iron Ore                                                | 31.60              | 29.83              | 34.10                | 34.35                | 34.56                | 33.26                | 39.61                |
| iii) Fertilised & Raw<br>Material                           | 9.92               | 9.91               | 9.47                 | 11.00                | 12.36                | 9.92                 | 12.44                |
| iv) Coal                                                    | 22.40              | 24.49              | 26.81                | 30.00                | 33.79                | 37.53                | 42.30                |
| Coke & Coking Coal                                          | 6.03               | 6.66               | 7.25                 | 9.07                 | 10.06                | 10.51                | 10.95                |
| Other Coal                                                  | 16.37              | 17.83              | 19.56                | 20.93                | 23.73                | 27.02                | 31.35                |
| v) Others(Including<br>Containers)                          | 25.12              | 28.51              | 31.72                | 39.37                | 43.58                | 47.21                | 51.97                |
| <b>Total</b>                                                | <b>158.64</b>      | <b>166.50</b>      | <b>179.02</b>        | <b>195.89</b>        | <b>215.21</b>        | <b>226.97</b>        | <b>251.66</b>        |
| <b>III. Containers<br/>('000 TEUs)<br/>(Million Tonnes)</b> | <b>681</b><br>6.72 | <b>797</b><br>7.62 | <b>1048</b><br>11.90 | <b>1258</b><br>15.01 | <b>1449</b><br>17.44 | <b>1699</b><br>20.74 | <b>1892</b><br>21.27 |
| <b>IV. Passenger Traffic<br/>Handled ('000 Nos.)</b>        | <b>162</b>         | <b>203</b>         | <b>216</b>           | <b>266</b>           | <b>296</b>           | <b>277</b>           | <b>266</b>           |

# 1.1.0 PORT SECTOR AT A GLANCE (Contd.)

## V. Employment (Thousand Number)

|  | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|--|------|------|------|------|------|------|------|
|  | 97   | 94   | 103  | 98   | 97   | 95   | 94   |

## VI. Financial Performance

### i) Total Revenue (Rs. Million)

|  | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|--|---------|---------|---------|---------|---------|---------|---------|
|  | 14474   | 17865   | 20646   | 32173   | 27586   | 31716   | 36073   |

### ii) Total Expenditure (Rs. Million)

|  | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|--|---------|---------|---------|---------|---------|---------|---------|
|  | 11002   | 12762   | 14445   | 16770   | 16772   | 21239   | 23907   |

## VII. Selected Performance Indicators

|                                        | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| i) Total Vessels Sailed (Nos.)         | 9026    | 10130   | 10606   | 11681   | 12300   | 13119   | 14077   |
| ii) Av. Turn round Time (days)         | 6.7     | 6.7     | 6.3     | 6.7     | 7.7     | 7.5     | 6.3     |
| iii) Av. Pre-Berthing Detention (days) | 1.6     | 2.0     | 1.9     | 2.4     | 3.6     | 3.1     | 2.3     |
| iv) Output Per Ship Berthday (tonnes)  | 3942    | 3575    | 3892    | 3988    | 4047    | 4497    | 4912    |

# 1.1.0 PORT SECTOR AT A GLANCE (Contd.)

| Item                                                        | 1991-92      | 1992-93      | 1993-94      | 1994-95      | 1995-96      | 1996-97      | 1997-98      |
|-------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Minor Ports</b>                                          |              |              |              |              |              |              |              |
| <b>I. Cargo Handled<br/>(In Million Tonnes)</b>             |              |              |              |              |              |              |              |
| i) Fertiliser & Raw Material                                | 2.15         | 3.01         | 2.28         | 1.65         | 2.61         | 1.94         | 3.93         |
| ii) Iron & Other Ore                                        | 0.36         | 0.49         | 0.44         | 5.18         | 4.69         | 5.74         | 6.64         |
| iii) Oil Cakes                                              | 2.07         | 2.37         | 2.48         | 2.15         | 2.04         | 2.20         | 2.14         |
| iv) Building Material                                       | 1.80         | 1.53         | 1.55         | 4.04         | 4.10         | 4.14         | 3.40         |
| v) Salt                                                     | 0.17         | 0.17         | 0.25         | 0.18         | 0.17         | 0.26         | 0.11         |
| vi) Others                                                  | 6.71         | 7.84         | 12.47        | 9.08         | 12.10        | 13.55        | 22.39        |
| <b>Total</b>                                                | <b>13.28</b> | <b>15.41</b> | <b>19.47</b> | <b>22.28</b> | <b>25.71</b> | <b>27.83</b> | <b>38.61</b> |
| <b>II. Passenger Traffic<br/>Handled<br/>(Million Nos.)</b> | <b>15.59</b> | <b>14.95</b> | <b>15.41</b> | <b>15.63</b> | <b>17.79</b> | <b>15.15</b> | <b>17.04</b> |
| <b>III. Ship Traffic (Nos.)</b>                             |              |              |              |              |              |              |              |
| i) Steamers                                                 | 1781         | 4146         | 4294         | 4938         | 8357         | 7873         | 8982         |
| ii) Sailing Vessels                                         | 26851        | 22467        | 28516        | 26163        | 20860        | 23178        | 25396        |

# 1.1.1 Trend of Cargo Traffic Handled at Indian Ports

(In Million Tonnes)

| Ports/<br>Years    | Overseas |        |        | Coastal  |        |       | Overseas & Coastal |        |        |
|--------------------|----------|--------|--------|----------|--------|-------|--------------------|--------|--------|
|                    | Unloaded | Loaded | Total  | Unloaded | Loaded | Total | Unloaded           | Loaded | Total  |
| (1)                | (2)      | (3)    | (4)    | (5)      | (6)    | (7)   | (8)                | (9)    | (10)   |
| <b>MAJOR PORTS</b> |          |        |        |          |        |       |                    |        |        |
| 1985-86            | 45.82    | 36.73  | 82.55  | 22.16    | 14.91  | 37.07 | 67.98              | 51.64  | 119.62 |
| 1989-90            | 54.13    | 45.26  | 99.39  | 26.72    | 21.46  | 48.18 | 80.85              | 66.72  | 147.57 |
| 1990-91            | 59.02    | 43.63  | 102.65 | 26.07    | 22.95  | 49.02 | 85.09              | 66.58  | 151.67 |
| 1991-92            | 59.91    | 44.89  | 104.80 | 26.66    | 25.18  | 51.84 | 86.57              | 70.07  | 156.64 |
| 1992-93            | 74.09    | 43.28  | 117.37 | 24.35    | 24.78  | 49.13 | 98.44              | 68.06  | 166.50 |
| 1993-94            | 76.02    | 53.48  | 129.50 | 24.81    | 24.71  | 49.52 | 100.83             | 78.19  | 179.02 |
| 1994-95            | 83.60    | 52.18  | 135.78 | 29.60    | 30.51  | 60.11 | 113.20             | 82.69  | 195.89 |
| 1995-96            | 94.86    | 57.24  | 152.10 | 31.79    | 31.32  | 63.11 | 126.65             | 88.56  | 215.21 |
| 1996-97            | 102.57   | 57.31  | 159.88 | 36.64    | 30.45  | 67.09 | 139.21             | 87.76  | 226.97 |
| 1997-98            | 117.36   | 61.64  | 179.00 | 38.62    | 34.04  | 72.66 | 155.98             | 95.68  | 251.66 |
| <b>MINOR PORTS</b> |          |        |        |          |        |       |                    |        |        |
| 1985-86            | 3.87     | 2.89   | 6.76   | 1.03     | 1.26   | 2.29  | 4.90               | 4.15   | 9.05   |
| 1989-90            | 4.25     | 4.51   | 8.76   | 1.14     | 0.96   | 2.10  | 5.39               | 5.47   | 10.86  |
| 1990-91            | 5.71     | 3.85   | 9.56   | 1.97     | 1.25   | 3.22  | 7.68               | 5.10   | 12.78  |
| 1991-92            | 4.77     | 4.10   | 8.87   | 3.02     | 1.37   | 4.39  | 7.79               | 5.47   | 13.26  |
| 1992-93            | 6.24     | 4.74   | 10.98  | 3.09     | 1.34   | 4.43  | 9.33               | 6.08   | 15.41  |
| 1993-94            | 7.57     | 6.64   | 14.21  | 3.84     | 1.42   | 5.26  | 11.41              | 8.06   | 19.47  |
| 1994-95            | 8.62     | 6.43   | 15.05  | 5.37     | 1.88   | 7.25  | 13.99              | 8.31   | 22.30  |
| 1995-96            | 9.95     | 8.17   | 18.12  | 5.12     | 2.47   | 7.59  | 15.07              | 10.64  | 25.71  |
| 1996-97            | 10.77    | 7.67   | 18.44  | 6.11     | 3.28   | 9.39  | 16.88              | 10.95  | 27.83  |
| 1997-98            | 18.75    | 10.42  | 29.17  | 5.22     | 4.22   | 9.44  | 23.97              | 14.64  | 38.61  |
| <b>ALL PORTS</b>   |          |        |        |          |        |       |                    |        |        |
| 1985-86            | 49.69    | 39.62  | 89.31  | 23.19    | 16.17  | 39.36 | 72.88              | 55.79  | 128.67 |
| 1989-90            | 58.38    | 49.77  | 108.15 | 27.86    | 22.42  | 50.28 | 86.24              | 72.19  | 158.43 |
| 1990-91            | 64.73    | 47.46  | 112.21 | 28.04    | 24.20  | 52.24 | 92.77              | 71.68  | 164.45 |
| 1991-92            | 64.68    | 48.99  | 113.67 | 29.68    | 26.55  | 56.23 | 94.36              | 75.54  | 169.90 |
| 1992-93            | 80.33    | 48.02  | 128.35 | 27.44    | 26.12  | 53.56 | 107.77             | 74.14  | 181.91 |
| 1993-94            | 83.59    | 60.12  | 143.71 | 28.65    | 26.13  | 54.78 | 112.24             | 86.25  | 198.49 |
| 1994-95            | 92.22    | 58.61  | 150.83 | 34.97    | 32.39  | 67.36 | 127.19             | 91.00  | 218.19 |
| 1995-96            | 104.81   | 65.41  | 170.22 | 36.91    | 33.79  | 70.70 | 141.72             | 99.20  | 240.92 |
| 1996-97            | 113.34   | 64.98  | 178.32 | 42.75    | 33.73  | 76.48 | 156.09             | 98.71  | 254.80 |
| 1997-98            | 136.11   | 72.06  | 208.17 | 43.84    | 38.26  | 82.10 | 179.95             | 110.32 | 290.27 |

# 1.1.2 Cargo Handled At Ports - By State

|                               |     | (In '000 Tonnes)                                                                |       |       |       |       |       |       |       |       |       |
|-------------------------------|-----|---------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Port/State/Type<br>of Traffic | (1) | 1985-86 1989-90 1990-91 1991-92 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98 |       |       |       |       |       |       |       |       |       |
|                               |     | (2)                                                                             | (3)   | (4)   | (5)   | (6)   | (7)   | (8)   | (9)   | (10)  | (11)  |
| <b>GUJARAT</b>                |     | 21051                                                                           | 25552 | 28998 | 31298 | 34794 | 40245 | 43445 | 48820 | 53588 | 66616 |
| Kandla                        |     | 16486                                                                           | 18925 | 19685 | 21002 | 22910 | 24500 | 26502 | 30339 | 33730 | 38901 |
| Other Ports                   |     | 4565                                                                            | 6627  | 9313  | 10296 | 11884 | 15745 | 16943 | 18481 | 19858 | 27715 |
| Overseas                      |     | 12407                                                                           | 16735 | 20615 | 21480 | 26975 | 33083 | 34650 | 40653 | 43794 | 55710 |
| Coastal                       |     | 8644                                                                            | 8817  | 8383  | 9818  | 7819  | 7162  | 8795  | 8167  | 9794  | 10906 |
| Loaded                        |     | 3012                                                                            | 5302  | 5734  | 6905  | 6957  | 9760  | 10475 | 12795 | 12804 | 14185 |
| Unloaded                      |     | 18039                                                                           | 20250 | 23264 | 24393 | 27837 | 30485 | 32970 | 36025 | 40784 | 52431 |
| <b>MAHARASHTRA</b>            |     | 25910                                                                           | 29782 | 31849 | 29587 | 32256 | 34539 | 38127 | 44260 | 45752 | 45677 |
| Mumbai                        |     | 24310                                                                           | 27746 | 28899 | 26261 | 28946 | 30506 | 30673 | 33916 | 33439 | 32097 |
| J.L.Nehru                     |     | -                                                                               | 697   | 2022  | 2794  | 3007  | 3387  | 5008  | 6873  | 8069  | 8895  |
| Other Ports                   |     | 1600                                                                            | 1339  | 928   | 532   | 303   | 646   | 2446  | 3471  | 4244  | 4685  |
| Overseas                      |     | 15438                                                                           | 18223 | 18984 | 17328 | 21386 | 25432 | 25565 | 29944 | 32401 | 35008 |
| Coastal                       |     | 10472                                                                           | 11559 | 12865 | 12259 | 10870 | 9107  | 12562 | 14316 | 13351 | 10669 |
| Loaded                        |     | 13657                                                                           | 15880 | 16157 | 15715 | 14621 | 14391 | 16374 | 19250 | 18595 | 16682 |
| Unloaded                      |     | 12253                                                                           | 13902 | 15692 | 13872 | 17635 | 20148 | 21753 | 25010 | 27157 | 28995 |

Note: 'Other Ports' means Minor/Intermediate Ports.

# 1.1.2 Cargo Handled At Ports - By State (Contd...)

| Port/State/Type<br>of Traffic | (In '000 Tonnes) |         |         |         |         |         |         |         |         |         |  |
|-------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
|                               | 1985-86          | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |
| (1)                           | (2)              | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |  |
| <b>GOA</b>                    | 16117            | 14168   | 14912   | 15111   | 16526   | 18929   | 19093   | 18202   | 17707   | 22167   |  |
| Mormugao                      | 16115            | 14168   | 14911   | 15099   | 16314   | 18717   | 18881   | 18095   | 17312   | 21182   |  |
| Other Ports                   | 2                | ...     | 1       | 12      | 212     | 212     | 212     | 107     | 395     | 985     |  |
| Overseas                      | 15659            | 13511   | 14213   | 14175   | 15251   | 17567   | 17445   | 17482   | 16668   | 21094   |  |
| Coastal                       | 458              | 657     | 699     | 936     | 1275    | 1362    | 1648    | 720     | 1039    | 1073    |  |
| Loaded                        | 14496            | 12685   | 13191   | 12709   | 14044   | 16306   | 16273   | 15376   | 15537   | 19900   |  |
| Unloaded                      | 1621             | 1483    | 1721    | 2402    | 2482    | 2623    | 2820    | 2826    | 2170    | 2267    |  |
| <b>Daman &amp; Diu</b>        | 4                | 1       | neg.    | neg.    | -       | -       | -       | -       | -       | -       |  |
| Other Ports                   | 4                | 1       | neg.    | neg.    | -       | -       | -       | -       | -       | -       |  |
| Overseas                      | -                | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |
| Coastal                       | 4                | 1       | neg.    | neg.    | -       | -       | -       | -       | -       | -       |  |
| Loaded                        | neg.             | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |
| Unloaded                      | 4                | 1       | neg.    | neg.    | -       | -       | -       | -       | -       | -       |  |
| <b>KARNATAKA</b>              | 4545             | 8314    | 8633    | 8657    | 7558    | 8940    | 8460    | 9407    | 12977   | 15786   |  |
| N. Mangalore                  | 3686             | 7661    | 8022    | 8274    | 7088    | 8630    | 8005    | 8884    | 12453   | 15282   |  |
| Other Ports                   | 859              | 653     | 611     | 383     | 470     | 310     | 455     | 523     | 524     | 504     |  |
| Overseas                      | 3978             | 7668    | 7702    | 7335    | 6785    | 7955    | 7218    | 7947    | 10381   | 12567   |  |
| Coastal                       | 567              | 646     | 931     | 1322    | 773     | 985     | 1242    | 1460    | 2596    | 3219    |  |
| Loaded                        | 3113             | 6676    | 6999    | 7136    | 5744    | 7531    | 6533    | 7191    | 8284    | 9468    |  |
| Unloaded                      | 1432             | 1638    | 1634    | 1521    | 1814    | 1409    | 1927    | 2216    | 4693    | 6318    |  |

Note: 'Other Ports' means Minor/Intermediate Ports.

# 1.1.1.2 Cargo Handled At Ports - By State (Contd...)

|                            |       | (In '000 Tonnes) |         |         |         |         |         |         |         |         |         |  |
|----------------------------|-------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Port/State/Type of Traffic |       | 1985-86          | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |
| (1)                        | (2)   | (3)              | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |         |  |
| <b>KERALA</b>              | 5388  | 7281             | 7405    | 7611    | 8103    | 7719    | 8828    | 11687   | 11813   | 12439   |         |  |
| Cochin                     | 5277  | 7124             | 7275    | 7481    | 7978    | 7620    | 8631    | 11503   | 11742   | 12323   |         |  |
| Other Ports                | 111   | 157              | 130     | 130     | 125     | 99      | 197     | 184     | 71      | 116     |         |  |
| Overseas                   | 2369  | 3085             | 2604    | 3106    | 3284    | 3107    | 4023    | 4842    | 5739    | 6567    |         |  |
| Coastal                    | 3019  | 4196             | 4801    | 4505    | 4819    | 4612    | 4805    | 6845    | 6074    | 5872    |         |  |
| Loaded                     | 819   | 1188             | 1145    | 1169    | 1233    | 1367    | 1630    | 2547    | 2321    | 2644    |         |  |
| Unloaded                   | 4569  | 6093             | 6260    | 6442    | 6870    | 6352    | 7198    | 9140    | 9492    | 9795    |         |  |
| <b>TAMIL NADU</b>          | 22849 | 29640            | 29820   | 31099   | 31806   | 33321   | 37629   | 40123   | 41056   | 45773   |         |  |
| Tuticorin                  | 4221  | 5324             | 5075    | 5868    | 6215    | 6700    | 8041    | 9286    | 9174    | 9974    |         |  |
| Chennai                    | 18148 | 23940            | 24518   | 25046   | 25331   | 26541   | 29464   | 30721   | 31848   | 35531   |         |  |
| Other Ports                | 480   | 376              | 227     | 185     | 260     | 80      | 124     | 116     | 34      | 268     |         |  |
| Overseas                   | 15501 | 17736            | 17714   | 17849   | 18645   | 19428   | 21210   | 25168   | 23644   | 27580   |         |  |
| Coastal                    | 7348  | 11904            | 12106   | 13250   | 13161   | 13893   | 16419   | 14955   | 17412   | 18193   |         |  |
| Loaded                     | 7341  | 10317            | 10062   | 10754   | 9864    | 10774   | 11413   | 11621   | 11481   | 13268   |         |  |
| Unloaded                   | 15508 | 19323            | 19758   | 20345   | 21942   | 22547   | 26216   | 28502   | 29575   | 32505   |         |  |

Note: 'Other Ports' means Minor/Intermediate Ports.

# 1.1.2 Cargo Handled At Ports - By State(Contd...)

| Port/State/Type<br>of Traffic | (In '000 Tonnes) |         |         |         |         |         |         |         |         |         |  |
|-------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
|                               | 1985-86          | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |
| (1)                           | (2)              | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |  |
| <b>PONDICHERY</b>             | 118              | 229     | 70      | 53      | 47      | 22      | 26      | 56      | 45      | N       |  |
| Other Ports                   | 118              | 229     | 70      | 53      | 47      | 22      | 26      | 56      | 45      | N       |  |
| Overseas                      | 118              | 229     | 70      | 53      | 47      | 22      | 26      | 56      | 45      | N       |  |
| Coastal                       | -                | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |
| Loaded                        | -                | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |
| Unloaded                      | 118              | 229     | 70      | 53      | 47      | 22      | 26      | 56      | 45      | N       |  |
| <b>ANDHRA PRADESH</b>         | 16985            | 22491   | 20545   | 22702   | 24325   | 27402   | 31416   | 35120   | 36725   | 39552   |  |
| Visakhapatnam                 | 15911            | 21117   | 19421   | 21522   | 22765   | 25595   | 30029   | 32817   | 34498   | 36014   |  |
| Other Ports                   | 1074             | 1374    | 1124    | 1180    | 1560    | 1807    | 1387    | 2303    | 2227    | 3538    |  |
| Overseas                      | 12125            | 16301   | 14944   | 16014   | 19157   | 20327   | 21538   | 23518   | 24545   | 24359   |  |
| Coastal                       | 4860             | 6190    | 5601    | 6688    | 5168    | 7075    | 9878    | 11602   | 12180   | 15193   |  |
| Loaded                        | 7378             | 11439   | 9719    | 11869   | 10919   | 13927   | 15118   | 16838   | 14922   | 16534   |  |
| Unloaded                      | 9607             | 11052   | 10826   | 10833   | 13406   | 13475   | 16298   | 18282   | 21803   | 23018   |  |
| <b>ORISSA</b>                 | 3331             | 6252    | 6945    | 7447    | 7813    | 8539    | 10336   | 11429   | 11719   | 13503   |  |
| Paradip                       | 3331             | 6184    | 6884    | 7297    | 7606    | 8327    | 10121   | 11259   | 11580   | 13302   |  |
| Other Ports                   | -                | 68      | 61      | 150     | 207     | 212     | 215     | 170     | 139     | 201     |  |
| Overseas                      | 3049             | 4960    | 5001    | 5078    | 4427    | 4853    | 5993    | 6505    | 5690    | 6256    |  |
| Coastal                       | 282              | 1292    | 1944    | 2369    | 3386    | 3686    | 4343    | 4924    | 6029    | 7247    |  |
| Loaded                        | 2374             | 3766    | 4056    | 4449    | 5231    | 5827    | 6669    | 7125    | 7809    | 8959    |  |
| Unloaded                      | 957              | 2486    | 2889    | 2998    | 2582    | 2712    | 3667    | 4304    | 3910    | 4544    |  |

Note: 'Other Ports' means Minor/Intermediate Ports.

1.1.1.2 Cargo Handled At Ports - By State (Contd....)

|                            |         | (In '000 Tonnes) |         |         |         |         |         |         |         |         |  |  |
|----------------------------|---------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| Port/State/Type of Traffic | 1985-86 | 1989-90          | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |  |
| (1)                        | (2)     | (3)              | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |  |  |
| <b>WEST BENGAL</b>         | 12128   | 14689            | 14953   | 16000   | 18337   | 18496   | 20535   | 21515   | 23124   | 28157   |  |  |
| Calcutta-Haldia            | 12128   | 14689            | 14953   | 16000   | 18337   | 18496   | 20535   | 21515   | 23124   | 28157   |  |  |
| Other Ports                | -       | -                | -       | -       | -       | -       | -       | -       | -       | -       |  |  |
| Overseas                   | 8664    | 9698             | 10372   | 11248   | 12383   | 11937   | 13155   | 14105   | 15411   | 19004   |  |  |
| Coastal                    | 3464    | 4991             | 4581    | 4752    | 5954    | 6559    | 7380    | 7410    | 7713    | 9153    |  |  |
| Loaded                     | 3471    | 4933             | 4537    | 4747    | 5422    | 6279    | 6453    | 6400    | 6896    | 8498    |  |  |
| Unloaded                   | 8657    | 9756             | 10416   | 11253   | 12915   | 12217   | 14082   | 15115   | 16228   | 19659   |  |  |
| <b>SEA-ISLANDS</b>         | 242     | 32               | 317     | 337     | 337     | 337     | 292     | 295     | 295     | 595     |  |  |
| Other Ports                | 242     | 32               | 317     | 337     | 337     | 337     | 292     | 295     | 295     | 595     |  |  |
| Overseas                   | -       | -                | -       | -       | -       | -       | -       | -       | -       | 17      |  |  |
| Coastal                    | 242     | 32               | 317     | 337     | 337     | 337     | 292     | 295     | 295     | 578     |  |  |
| Loaded                     | 126     | 1                | 82      | 99      | 99      | 99      | 60      | 56      | 61      | 187     |  |  |
| Unloaded                   | 116     | 31               | 235     | 238     | 238     | 238     | 232     | 239     | 234     | 408     |  |  |
| <b>ALL INDIA</b>           | 128668  | 158431           | 164447  | 169902  | 181902  | 198489  | 218187  | 240914  | 254801  | 290265  |  |  |
| Major Ports                | 119613  | 147575           | 151665  | 156644  | 166497  | 179019  | 195890  | 215208  | 226969  | 251658  |  |  |
| Other Ports                | 9055    | 10856            | 12782   | 13258   | 15405   | 19470   | 22297   | 25706   | 27832   | 38607   |  |  |
| Overseas                   | 89308   | 108146           | 112219  | 113666  | 128340  | 143711  | 150823  | 170220  | 178318  | 208162  |  |  |
| Coastal                    | 39360   | 50285            | 52228   | 56236   | 53562   | 54778   | 67364   | 70694   | 76483   | 82103   |  |  |
| Loaded                     | 55787   | 72187            | 71682   | 75552   | 74134   | 86261   | 90998   | 99199   | 98710   | 110325  |  |  |
| Unloaded                   | 72881   | 86244            | 92765   | 94350   | 107768  | 112228  | 127189  | 141715  | 156091  | 179940  |  |  |

Note: 'Other Ports' means Minor/Intermediate Ports.

### 1.1.3 Cargo Unloaded (Overseas & Coastal) At Ports - By State

('000 Tonnes)

| Port/State/Type of Traffic | 1985-86 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1                          | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |
| <b>GUJARAT</b>             |         |         |         |         |         |         |         |         |         |         |
| Kandla                     | 15175   | 16755   | 17271   | 18148   | 20503   | 20953   | 22651   | 25873   | 29267   | 35021   |
| Other Ports                | 2864    | 3495    | 5993    | 6245    | 7334    | 9532    | 10319   | 10152   | 11517   | 17410   |
| Total                      | 18039   | 20250   | 23264   | 24393   | 27837   | 30485   | 32970   | 36025   | 40784   | 52431   |
| Overseas                   | 10737   | 12569   | 16080   | 15941   | 21197   | 24495   | 26450   | 30092   | 33272   | 43342   |
| Coastal                    | 7302    | 7681    | 7184    | 8452    | 6640    | 5990    | 6520    | 5933    | 7512    | 9089    |
| <b>MAHARASHTRA</b>         |         |         |         |         |         |         |         |         |         |         |
| Mumbai                     | 11947   | 13141   | 13719   | 11506   | 15232   | 17438   | 16162   | 17320   | 18370   | 19308   |
| Jawaharlal Nehru           | -       | 507     | 1645    | 2061    | 2105    | 2088    | 3290    | 4314    | 4808    | 5373    |
| Other Ports                | 306     | 254     | 328     | 305     | 298     | 622     | 2301    | 3376    | 3979    | 4314    |
| Total                      | 12253   | 13902   | 15692   | 13872   | 17635   | 20148   | 21753   | 25010   | 27157   | 28995   |
| Overseas                   | 11168   | 13353   | 14770   | 13143   | 17221   | 19321   | 19245   | 21636   | 22874   | 26189   |
| Coastal                    | 1085    | 549     | 922     | 729     | 414     | 827     | 2508    | 3374    | 4283    | 2806    |
| <b>GOA</b>                 |         |         |         |         |         |         |         |         |         |         |
| Mormugao                   | 1621    | 1483    | 1721    | 2396    | 2394    | 2535    | 2732    | 2819    | 1951    | 1978    |
| Other Ports                | -       | -       | -       | 6       | 88      | 88      | 88      | 7       | 219     | 289     |
| Total                      | 1621    | 1483    | 1721    | 2402    | 2482    | 2623    | 2820    | 2826    | 2170    | 2267    |
| Overseas                   | 1163    | 847     | 1058    | 1660    | 1720    | 1910    | 2024    | 2336    | 1323    | 1358    |
| Coastal                    | 458     | 636     | 663     | 742     | 762     | 713     | 796     | 490     | 847     | 909     |
| <b>DAMAN &amp; DIU</b>     |         |         |         |         |         |         |         |         |         |         |
| Other Ports                | 4       | 1       | neg.    | neg.    | neg.    | neg.    | neg.    | -       | -       | -       |
| Total                      | 4       | 1       | neg.    | neg.    | neg.    | neg.    | neg.    | -       | -       | -       |
| Overseas                   | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Coastal                    | 4       | 1       | neg.    | neg.    | neg.    | neg.    | neg.    | -       | -       | -       |

Note: 'Other Ports' means Minor/Intermediate Ports.

1.1.1.3 Cargo Unloaded (Overseas & Coastal) At Ports - By State (Contd...)

|                            |       | ('000 Tonnes) |         |         |         |         |         |         |         |         |         |  |
|----------------------------|-------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Port/State/Type of Traffic |       | 1985-86       | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |
| 1                          | 2     | 3             | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |         |  |
| KARNATAKA                  |       |               |         |         |         |         |         |         |         |         |         |  |
| New Mangalore              | 996   | 1294          | 1363    | 1298    | 1530    | 1245    | 1640    | 1883    | 4479    | 6098    |         |  |
| Other Ports                | 436   | 344           | 271     | 223     | 284     | 164     | 287     | 333     | 214     | 220     |         |  |
| Total                      | 1432  | 1638          | 1634    | 1521    | 1814    | 1409    | 1927    | 2216    | 4693    | 6318    |         |  |
| Overseas                   | 1015  | 1062          | 958     | 776     | 1127    | 718     | 1144    | 1319    | 4287    | 5957    |         |  |
| Coastal                    | 417   | 576           | 676     | 745     | 687     | 691     | 783     | 897     | 406     | 361     |         |  |
| KERALA                     |       |               |         |         |         |         |         |         |         |         |         |  |
| Cochin                     | 4557  | 6053          | 6251    | 6433    | 6864    | 6351    | 7193    | 9125    | 9487    | 9781    |         |  |
| Other Ports                | 12    | 40            | 9       | 9       | 6       | 1       | 5       | 15      | 5       | 14      |         |  |
| Total                      | 4569  | 6093          | 6260    | 6442    | 6870    | 6352    | 7198    | 9140    | 9492    | 9795    |         |  |
| Overseas                   | 1803  | 2519          | 2138    | 2566    | 2601    | 2323    | 2952    | 3522    | 4497    | 5447    |         |  |
| Coastal                    | 2766  | 3574          | 4122    | 3876    | 4269    | 4029    | 4246    | 5618    | 4995    | 4348    |         |  |
| TAMIL NADU                 |       |               |         |         |         |         |         |         |         |         |         |  |
| Tuticorin                  | 4016  | 4900          | 4541    | 5099    | 5408    | 5606    | 6876    | 7955    | 7611    | 8414    |         |  |
| Chennai                    | 11107 | 14097         | 15000   | 15064   | 16286   | 16879   | 19247   | 20433   | 21933   | 24029   |         |  |
| Other Port                 | 385   | 326           | 217     | 182     | 248     | 62      | 93      | 114     | 31      | 62      |         |  |
| Total                      | 15508 | 19323         | 19758   | 20345   | 21942   | 22547   | 26216   | 28502   | 29575   | 32505   |         |  |
| Overseas                   | 9361  | 8788          | 8978    | 8413    | 10187   | 9807    | 11591   | 14595   | 13368   | 15583   |         |  |
| Coastal                    | 6147  | 10535         | 10780   | 11932   | 11755   | 12740   | 14625   | 13907   | 16207   | 16922   |         |  |

Note: 'Other Ports' means Minor/Intermediate Ports.

# 1.1.3 Cargo Unloaded (Overseas & Coastal) At Ports - By State (Contd...)

('000 Tonnes)

| Port/State/Type of Traffic | 1985-86 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1                          | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |
| <b>PONDICHERY</b>          |         |         |         |         |         |         |         |         |         |         |
| Other Ports                | 118     | 229     | 70      | 53      | 47      | 22      | 26      | 56      | 45      | N       |
| Total                      | 118     | 229     | 70      | 53      | 47      | 22      | 26      | 56      | 45      | N       |
| Overseas                   | 118     | 229     | 70      | 53      | 47      | 22      | 26      | 56      | 45      | N       |
| Coastal                    | -       | -       | -       | -       | -       | -       | -       | -       | -       | N       |

## **ANDHRA PRADESH**

|               |      |       |       |       |       |       |       |       |       |       |
|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Visakhapatnam | 8941 | 10410 | 10322 | 10431 | 12774 | 12930 | 15837 | 17611 | 21214 | 21826 |
| Other Ports   | 666  | 642   | 504   | 402   | 632   | 545   | 461   | 671   | 589   | 1192  |
| Total         | 9607 | 11052 | 10826 | 10833 | 13406 | 13475 | 16298 | 18282 | 21803 | 23018 |
| Overseas      | 5528 | 7824  | 8429  | 8999  | 12622 | 12018 | 13676 | 14731 | 16386 | 17018 |
| Coastal       | 4079 | 3228  | 2397  | 1834  | 784   | 1457  | 2622  | 3551  | 5417  | 6000  |

## **ORISSA**

|             |     |      |      |      |      |      |      |      |      |      |
|-------------|-----|------|------|------|------|------|------|------|------|------|
| Paradip     | 957 | 2460 | 2839 | 2880 | 2428 | 2581 | 3491 | 4200 | 3859 | 4488 |
| Other Ports | -   | 26   | 50   | 118  | 154  | 131  | 176  | 104  | 51   | 56   |
| Total       | 957 | 2486 | 2889 | 2998 | 2582 | 2712 | 3667 | 4304 | 3910 | 4544 |
| Overseas    | 957 | 2486 | 2889 | 2998 | 2582 | 2708 | 3514 | 4239 | 3784 | 4435 |
| Coastal     | -   | -    | -    | -    | -    | 4    | 153  | 65   | 126  | 109  |

Note: 'Other Ports' means Minor/Intermediate Ports.

### 1.1.3 Cargo Unloaded (Overseas & Coastal) At Ports - By State (Contd...)

('000 Tonnes)

| Port/State/Type<br>of Traffic | 1985-86 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1                             | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |

#### WEST BENGAL

|                 |      |      |       |       |       |       |       |       |       |       |
|-----------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Calcutta-Haldia | 8657 | 9756 | 10416 | 11253 | 12915 | 12217 | 14082 | 15115 | 16228 | 19659 |
| Other Ports     | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     |
| Total           | 8657 | 9756 | 10416 | 11253 | 12915 | 12217 | 14082 | 15115 | 16228 | 19659 |
| Overseas        | 7841 | 8701 | 9366  | 10125 | 11017 | 10261 | 11600 | 12283 | 13505 | 16757 |
| Coastal         | 816  | 1055 | 1050  | 1128  | 1898  | 1956  | 2482  | 2832  | 2723  | 2902  |

#### SEA-ISLAND

|             |     |    |     |     |     |     |     |     |     |     |
|-------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Other Ports | 116 | 31 | 235 | 238 | 238 | 238 | 232 | 239 | 234 | 408 |
| Total       | 116 | 31 | 235 | 238 | 238 | 238 | 232 | 239 | 234 | 408 |
| Overseas    | -   | -  | -   | -   | -   | -   | -   | -   | -   | 17  |
| Coastal     | 116 | 31 | 235 | 238 | 238 | 238 | 232 | 239 | 234 | 391 |

#### ALL INDIA

|             |       |       |       |       |        |        |        |        |        |        |
|-------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| MAJOR PORTS | 67974 | 80856 | 85088 | 86569 | 98439  | 100823 | 113201 | 126648 | 139207 | 155975 |
| Other Ports | 4907  | 5388  | 7677  | 7781  | 9329   | 11405  | 13988  | 15067  | 16884  | 23965  |
| Total       | 72881 | 86244 | 92765 | 94350 | 107768 | 112228 | 127189 | 141715 | 156091 | 179940 |
| Overseas    | 49691 | 58378 | 64736 | 64674 | 80321  | 83583  | 92222  | 104809 | 113341 | 136103 |
| Coastal     | 23190 | 27866 | 28029 | 29676 | 27447  | 28645  | 34967  | 36906  | 42750  | 43837  |

Note: 'Other Ports' means Minor/Intermediate Ports.

# 1.1.4 Cargo Loaded (Overseas And Coastal) At Ports - By State

('000 Tonnes)

| Port/State/Type of Traffic | 1985-86 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| (1)                        | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |
| <b>GUJARAT</b>             |         |         |         |         |         |         |         |         |         |         |
| Kandla                     | 1311    | 2170    | 2414    | 2854    | 2407    | 3547    | 3851    | 4466    | 4463    | 3880    |
| Other Ports                | 1701    | 3132    | 3320    | 4051    | 4550    | 6213    | 6624    | 8329    | 8341    | 10305   |
| Total                      | 3012    | 5302    | 5734    | 6905    | 6957    | 9760    | 10475   | 12795   | 12804   | 14185   |
| Overseas                   | 1670    | 4166    | 4535    | 5539    | 5778    | 8588    | 8200    | 10561   | 10522   | 12368   |
| Coastal                    | 1342    | 1136    | 1199    | 1366    | 1179    | 1172    | 2275    | 2234    | 2282    | 1817    |
| <b>MAHARASHTRA</b>         |         |         |         |         |         |         |         |         |         |         |
| Mumbai                     | 12363   | 14605   | 15180   | 14755   | 13714   | 13068   | 14511   | 16596   | 15069   | 12789   |
| Jawaharlal Nehru           | -       | 190     | 377     | 733     | 902     | 1299    | 1718    | 2559    | 3261    | 3522    |
| Other Ports                | 1294    | 1085    | 600     | 227     | 5       | 24      | 145     | 95      | 265     | 371     |
| Total                      | 13657   | 15880   | 16157   | 15715   | 14621   | 14391   | 16374   | 19250   | 18595   | 16682   |
| Overseas                   | 4270    | 4870    | 4214    | 4185    | 4165    | 6111    | 6320    | 8308    | 9527    | 8819    |
| Coastal                    | 9387    | 11010   | 11943   | 11530   | 10456   | 8280    | 10054   | 10942   | 9068    | 7863    |
| <b>GOA</b>                 |         |         |         |         |         |         |         |         |         |         |
| Mormugao                   | 14494   | 12685   | 13190   | 12703   | 13920   | 16182   | 16149   | 15276   | 15361   | 19204   |
| Other Ports                | 2       | -       | 1       | 6       | 124     | 124     | 124     | 100     | 176     | 696     |
| Total                      | 14496   | 12685   | 13191   | 12709   | 14044   | 16306   | 16273   | 15376   | 15537   | 19900   |
| Overseas                   | 14496   | 12664   | 13155   | 12515   | 13531   | 15657   | 15421   | 15146   | 15345   | 19736   |
| Coastal                    | -       | 21      | 36      | 194     | 513     | 649     | 852     | 230     | 192     | 164     |
| <b>Daman &amp; Diu</b>     |         |         |         |         |         |         |         |         |         |         |
| Other Ports                | neg.    | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Total                      | neg.    | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Overseas                   | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| Coastal                    | neg.    | -       | -       | -       | -       | -       | -       | -       | -       | -       |

Note: 'Other Ports' means Minor/Intermediate Ports.

1.1.4 Cargo Loaded (Overseas And Coastal) At Ports - By State (Contd...)

|                               |      | ('000 Tonnes) |         |         |         |         |         |         |         |         |         |  |
|-------------------------------|------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Port/State/Type<br>of Traffic |      | 1985-86       | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |
| (1)                           | (2)  | (3)           | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |         |  |
| KARNATAKA                     |      |               |         |         |         |         |         |         |         |         |         |  |
| New Mangalore                 | 2690 | 6367          | 6659    | 6976    | 5558    | 7385    | 6365    | 7001    | 7974    | 9184    |         |  |
| Other Ports                   | 423  | 309           | 340     | 160     | 186     | 146     | 168     | 190     | 310     | 284     |         |  |
| Total                         | 3113 | 6676          | 6999    | 7136    | 5744    | 7531    | 6533    | 7191    | 8284    | 9468    |         |  |
| Overseas                      | 2963 | 6606          | 6744    | 6559    | 5658    | 7237    | 6074    | 6628    | 6094    | 6610    |         |  |
| Coastal                       | 150  | 70            | 255     | 577     | 86      | 294     | 459     | 563     | 2190    | 2858    |         |  |
| KERALA                        |      |               |         |         |         |         |         |         |         |         |         |  |
| Cochin                        | 720  | 1071          | 1024    | 1048    | 1114    | 1269    | 1438    | 2378    | 2255    | 2542    |         |  |
| Other Ports                   | 99   | 117           | 121     | 121     | 119     | 98      | 192     | 169     | 66      | 102     |         |  |
| Total                         | 819  | 1188          | 1145    | 1169    | 1233    | 1367    | 1630    | 2547    | 2321    | 2644    |         |  |
| Overseas                      | 566  | 566           | 466     | 540     | 683     | 784     | 1071    | 1320    | 1242    | 1120    |         |  |
| Coastal                       | 253  | 622           | 679     | 629     | 550     | 583     | 559     | 1227    | 1079    | 1524    |         |  |
| TAMIL NADU                    |      |               |         |         |         |         |         |         |         |         |         |  |
| Tuticorin                     | 205  | 424           | 534     | 769     | 807     | 1094    | 1165    | 1331    | 1563    | 1560    |         |  |
| Chennai                       | 7041 | 9843          | 9518    | 9982    | 9045    | 9662    | 10217   | 10288   | 9915    | 11502   |         |  |
| Other Ports                   | 95   | 50            | 10      | 3       | 12      | 18      | 31      | 2       | 3       | 206     |         |  |
| Total                         | 7341 | 10317         | 10062   | 10754   | 9864    | 10774   | 11413   | 11621   | 11481   | 13268   |         |  |
| Overseas                      | 6140 | 8948          | 8736    | 9436    | 8458    | 9621    | 9619    | 10573   | 10276   | 11997   |         |  |
| Coastal                       | 1201 | 1369          | 1326    | 1318    | 1406    | 1153    | 1794    | 1048    | 1205    | 1271    |         |  |

Note: 'Other Ports' means Minor/Intermediate Ports.

# 1.1.4 Cargo Loaded (Overseas And Coastal) At Ports - By State (Contd...)

('000 Tonnes)

| Port/State/Type of Traffic | 1985-86 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| (1)                        | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |

## PONDICHERY

|             |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|
| Other Ports | - | - | - | - | - | - | - | - | - | - |
| Total       | - | - | - | - | - | - | - | - | - | - |
| Overseas    | - | - | - | - | - | - | - | - | - | - |
| Coastal     | - | - | - | - | - | - | - | - | - | - |

## ANDHRA PRADESH

|               |      |       |      |       |       |       |       |       |       |       |
|---------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| Visakhapatnam | 6970 | 10707 | 9099 | 11091 | 9991  | 12665 | 14192 | 15206 | 13284 | 14188 |
| Other Ports   | 408  | 732   | 620  | 778   | 928   | 1262  | 926   | 1632  | 1638  | 2346  |
| Total         | 7378 | 11439 | 9719 | 11869 | 10919 | 13927 | 15118 | 16838 | 14922 | 16534 |
| Overseas      | 6597 | 8477  | 6515 | 7015  | 6535  | 8309  | 7862  | 8787  | 8159  | 7341  |
| Coastal       | 781  | 2962  | 3204 | 4854  | 4384  | 5618  | 7256  | 8051  | 6763  | 9193  |

## ORISSA

|             |      |      |      |      |      |      |      |      |      |      |
|-------------|------|------|------|------|------|------|------|------|------|------|
| Paradip     | 2374 | 3724 | 4045 | 4417 | 5178 | 5746 | 6630 | 7059 | 7721 | 8814 |
| Other Ports | -    | 42   | 11   | 32   | 53   | 81   | 39   | 66   | 88   | 145  |
| Total       | 2374 | 3766 | 4056 | 4449 | 5231 | 5827 | 6669 | 7125 | 7809 | 8959 |
| Overseas    | 2092 | 2474 | 2112 | 2080 | 1845 | 2145 | 2479 | 2266 | 1906 | 1821 |
| Coastal     | 282  | 1292 | 1944 | 2369 | 3386 | 3682 | 4190 | 4859 | 5903 | 7138 |

Note: 'Other Ports' means Minor/Intermediate Ports.

1.1.4 Cargo Loaded (Overseas And Coastal) At Ports - By State (Contd...)

('000 Tonnes)

| Port/State/Type<br>of Traffic | 1985-86 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| (1)                           | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    |

**WEST BENGAL**

|                 |      |      |      |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|------|------|------|
| Calcutta-Haldia | 3471 | 4933 | 4537 | 4747 | 5422 | 6279 | 6453 | 6400 | 6896 | 8498 |
| Other Ports     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| Total           | 3471 | 4933 | 4537 | 4747 | 5422 | 6279 | 6453 | 6400 | 6896 | 8498 |
| Overseas        | 823  | 997  | 1006 | 1123 | 1366 | 1676 | 1555 | 1822 | 1906 | 2247 |
| Coastal         | 2648 | 3936 | 3531 | 3624 | 4056 | 4603 | 4898 | 4578 | 4990 | 6251 |

**SEA-ISLANDS**

|             |     |   |    |    |    |    |    |    |    |     |
|-------------|-----|---|----|----|----|----|----|----|----|-----|
| Other Ports | 126 | 1 | 82 | 99 | 99 | 99 | 60 | 56 | 61 | 187 |
| Total       | 126 | 1 | 82 | 99 | 99 | 99 | 60 | 56 | 61 | 187 |
| Overseas    | -   | - | -  | -  | -  | -  | -  | -  | -  | -   |
| Coastal     | 126 | 1 | 82 | 99 | 99 | 99 | 60 | 56 | 61 | 187 |

**ALL INDIA**

|             |       |       |       |       |       |       |       |       |       |        |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Major Ports | 51639 | 66719 | 66577 | 70075 | 68058 | 78196 | 82689 | 88560 | 87762 | 95683  |
| Other Ports | 4148  | 5468  | 5105  | 5477  | 6076  | 8065  | 8309  | 10639 | 10948 | 14642  |
| Total       | 55787 | 72187 | 71682 | 75552 | 74134 | 86261 | 90998 | 99199 | 98710 | 110325 |
| Overseas    | 39617 | 49768 | 47483 | 48992 | 48019 | 60128 | 58601 | 65411 | 64977 | 72059  |
| Coastal     | 16170 | 22419 | 24199 | 26560 | 26115 | 26133 | 32397 | 33788 | 33733 | 38266  |

Note: 'Other Ports' means Minor/Intermediate Ports.

# **SECTION - II**

# **MAJOR PORTS**

- 2.1 PORT FACILITIES**
- 2.2 CARGO TRAFFIC**
- 2.3 PASSENGER TRAFFIC**
- 2.4 SHIP TRAFFIC AND PORT CAPACITIES**
- 2.5 CONTAINER TRAFFIC AND HANDLING FACILITIES**
- 2.6 PORT PERFORMANCE**
- 2.7 EMPLOYMENT**
- 2.8 FINANCIAL PERFORMANCE**

# 2.1.1 Topography of Major Ports

| Port          | Location     |              | Entrance Channel                                             |                                 |                    | Turning Circle |                          | Type of Dock/<br>Port                                                           |
|---------------|--------------|--------------|--------------------------------------------------------------|---------------------------------|--------------------|----------------|--------------------------|---------------------------------------------------------------------------------|
|               | Latitude     | Longitude    | Distance of<br>: anchor from<br>: Harbour<br>: entrance (Km) | Minimum<br>: Depth<br>: (Mtrs.) | Width<br>: (Mtrs.) | No.            | Diameter<br>: (In Mtrs.) |                                                                                 |
| 1             | 2            | 3            | 4                                                            | 5                               | 6                  | 7              | 8                        | 9                                                                               |
| Kandla        | 23 01' N     | 70 13' E     | 27                                                           | 4.6<br>below chart<br>datum     | 200                | No             | Turning<br>Circle        | Single Line Quay-for cargo Jetties<br>Finger Jetties- for Liquid cargo          |
| Vadinar       | 22 30' 34" N | 69 42' 04" E | 8.0                                                          | 23.5                            | 1500               | -              | -                        | Off -Shore oil terminal<br>(Single Buoy Mooring)                                |
| Mumbai        | 18 54' N     | 72 49' E     | 9.6                                                          | 10.9                            | 366                | 1              | 366                      | Natural Harbour and<br>Impounded wet docks.                                     |
| J.L.Nehru     | 18 56.43' N* | 72 56.24' E* | 17.0                                                         | 11.0                            | 350                | 1              | 600                      | All weather Tidal Port                                                          |
| Mormugao      | 15 25' N     | 73 48' E     | 4.5                                                          | 13.0                            | 250                | 1              | 480                      | Natural Harbour<br>protected by a break-water.<br>(At the mouth of River Zuari) |
| New Mangalore | 12 55' N     | 74 48' E     | 7.5                                                          | 15.1                            | 245                | 1              | 570                      | Artificial lagoon port<br>with open berth.                                      |
| Cochin        | 9 58' N      | 76 14' E     | 10.5                                                         | 11.8                            | 185                | 2              | (1) 500<br>(2) 230       | Protected wet Port,<br>Lagoon Port                                              |

\* At South Corner of Bulk Berth.

# 2.1.1 Topography of Major Ports (Contd...)

| Port           | Location     |              | Entrance Channel                                       |                             | Turning Circle              |     | Type of Dock/<br>Port  |
|----------------|--------------|--------------|--------------------------------------------------------|-----------------------------|-----------------------------|-----|------------------------|
|                | Latitude     | Longitude    | Distance of<br>anchor from<br>Harbour<br>entrance (Km) | Minimum<br>Depth<br>(Mtrs.) | Minimum<br>Width<br>(Mtrs.) | No. | Diameter<br>(In Mtrs.) |
| 1              | 2            | 3            | 4                                                      | 5                           | 6                           | 7   | 8                      |
| 9              |              |              |                                                        |                             |                             |     |                        |
| Tuticorin      | 8 45' N      | 78 13' E     | 5.6                                                    | 9.2                         | 153                         | 1   | 488                    |
| Chennai        | 13 06' N     | 80 18' E     | 6.7                                                    | 18.6<br>OH 19.2             | 244                         | 1   | 550                    |
| Visakhapatnam  | 17 41' N     | 83 18' E     | 2.2                                                    | 10.7                        | 94-122                      | 1   | 366                    |
| -Inner Harbour |              |              | 0.4                                                    | 17.5                        | 200                         | 1   | 610                    |
| -Outer Harbour |              |              |                                                        |                             |                             |     |                        |
| Paradip        | 20 16' N     | 86 40' E     | 5.8                                                    | 12.8                        | 160                         | 1   | 520                    |
| Calcutta       | 22 32' 53" N | 88 18' 05" E | 1668                                                   | 6.7                         | 200                         | 2   | 200/250                |
| Halda          | 22 2' N      | 80 6' E      | 130                                                    | 5.5                         | 400                         | 1   | 545                    |

IH - Inner Harbour  
OH - Outer Harbour

Ø Pilotage distance

Artificial Harbour with  
open berth  
Artificial Harbour with  
wet docks.  
Natural Harbour.  
Artificial Lagoon type  
port.  
Riverine with impounded  
wet docks and river  
side jetties.  
Impounded wet dock with  
riverine oil jetties.

# 2.1.2 Details of Berths at Major Ports

| Port       | Type of Berth (No.)         | Draft<br>(In Mtrs.)          | Length<br>(In Mtrs.) | Maximum size of<br>ships that can be<br>accommodated<br>(DWT) | Percentage<br>occupancy<br>during<br>1997-98 |
|------------|-----------------------------|------------------------------|----------------------|---------------------------------------------------------------|----------------------------------------------|
| 1          | 2                           | 3                            | 4                    | 5                                                             | 6                                            |
| Kandla     | General Cargo Jetties (8)   | 9.14                         | 248.45               | 15000                                                         | 98                                           |
|            | Oil Jetty - I (1)           | 10.35                        | 91.4                 | 40000                                                         | 99                                           |
|            | Oil Jetty - II (1)          | 9.14                         | 84.5                 | 15000                                                         | 96                                           |
|            | Oil Jetty - III (1)         | 9.40                         | 91.4                 | 40000                                                         | 99                                           |
|            | Oil Jetty - IV (1)          | 10.70                        | 108.00               | 56000                                                         | 98                                           |
|            | Oil Jetty - V (1)           | 9.50                         | 108.00               | 40000                                                         | -                                            |
|            | S.B.M. (Vadinar) (1)        | 30.00                        | -                    | No restriction                                                | 50                                           |
| Mumbai     | Indira Dock (29*)           | (At chart datum)<br>7.0-10.0 | 152-244              | Length overall<br>600 feet.                                   | 79                                           |
|            | Victoria Dock (12)          | 6.7                          | 122-152              | Length overall<br>460 feet.                                   | 53                                           |
|            | Princess Dock (8)           | 6.1-6.4                      | 100-212              | Length overall<br>500 feet.                                   | 71                                           |
|            | Jawahar Deep (4)            | 10.97-14.3                   | 244-493              | 125000                                                        | 69                                           |
|            | Pir Pau Oil Pier (1)        | 7.5                          | 174                  | 35000                                                         | 26                                           |
|            | New Pir Pau Pier (1)        | 12.0                         | 197                  | 47000                                                         | 59                                           |
| J.L. Nehru | Container (3)               | 12.0                         | 680                  | 70000                                                         | 66                                           |
|            | Dry Bulk (2)                | 12.0                         | 500                  | 70000                                                         | 58                                           |
|            | Service: BBO3(1)<br>BBO4(1) | 12.0<br>8.0                  | 212<br>140           | 70000<br>15000                                                | 50<br>15                                     |

\* Included 7 Container berths.

2.1.2 Details of Berths at Major Ports(Contd...)

| Port          | Type of Berth (No.)                     | Draft<br>(In Mtrs.) | Length<br>(In Mtrs.) | Maximum size of<br>ships that can be<br>accommodated<br>(DWT) | Percentage<br>occupancy<br>during<br>1997-98 |
|---------------|-----------------------------------------|---------------------|----------------------|---------------------------------------------------------------|----------------------------------------------|
| 1             | 2                                       | 3                   | 4                    | 5                                                             | 6                                            |
| Mormugao      | General Cargo (B.No. 5)                 | 8.5                 | 175                  | 18000                                                         | 80                                           |
|               | General Cargo (B.No. 6)                 | 6.0                 | 213                  | 7000                                                          | 71                                           |
|               | Barge Berth (B.No. 7)                   | 3.5                 | 100                  | -                                                             | 61                                           |
|               | (adjacent to berth No.6)                |                     |                      |                                                               |                                              |
|               | Oil Berth (B.No. 8)                     | 13.0                | 116(298**)           | 125000                                                        | 55                                           |
|               | MOHP (B. No. 9)                         | 13.0                | 222(375.5**)         | 275000                                                        | 82                                           |
|               | Multi purpose G.C. Berth<br>(B. No. 10) | 12.0                | 250                  | 55000                                                         | 86                                           |
|               | Multi purpose G.C. Berth<br>(B. No. 11) | 12.0                | 270                  | 55000                                                         | 70                                           |
|               | General (7)                             | 6.5-10.5            | 125-198              | 30000<br>Each                                                 | 5, 79, 70, 49,<br>78, 47, 67                 |
|               | Iron Ore Berth (1)                      | 13.0                | 300                  | 60000                                                         | 61                                           |
| New Mangalore | Oil Jetty (1)                           | 10.5                | 330                  | 30000                                                         | 64                                           |
|               | MRPL Crude Jetty (1)                    | 14.0                | 320                  | 65000 to<br>85000                                             | 62                                           |

\*\* : Length between extreme mooring dolphins.

2.1.2 Details of Berths at Major Ports (Contd...)

| Port      | Type of Berth (No.)                                                                                                             | Draft<br>(In Mtrs.)                                                      | Length<br>(In Mtrs.)                                            | Maximum size of<br>ships that can be<br>accommodated<br>(DWT) | Percentage<br>occupancy<br>during<br>1997-98                                                                 |
|-----------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|           | 2                                                                                                                               | 3                                                                        | 4                                                               | 5                                                             | 6                                                                                                            |
| Cochin    | Break Bulk (9)<br>Fertiliser (1)<br>Oil terminal (1)<br>Tanker Berth (2)<br>(Norht./South)<br>Container (1)<br>Terminal (Q6/Q9) | 8.0-9.1<br>(Each)<br>10.7<br>11.7<br>9.1<br>10.7                         | 152-183<br>152-207<br>198-440<br>-<br>414                       | ...<br>87000<br>120000<br>25000<br>20000                      | 13, 22, 51, 57, 82<br>64, 34, 35, 85<br>85<br>96<br>60<br>67                                                 |
| Tuticorin | General Cargo Berth (6)                                                                                                         | 8.2                                                                      | 168-192                                                         | 50000                                                         | 95                                                                                                           |
|           | Oil Jetty (1)<br>Coal Jetty (2)                                                                                                 | 8.2<br>8.2                                                               | 228<br>235                                                      | Draft is the<br>limiting factor                               | 38<br>81                                                                                                     |
| Chennai   | Break Bulk/Neo Bulk (10)<br>Container<br>Terminal (3)<br>Liquid Bulk (2)<br>Dry Bulk (4)<br>Others (5)                          | 8.53-10.40<br>11.0-12.5<br>Each<br>16.00-17.4<br>11.00-17.4<br>7.92-8.53 | 170.60-246<br>200<br>Each<br>304 & 338.94<br>218-222<br>157-198 | ...<br>20000 To<br>45000<br>140000<br>Upto 130000<br>...      | 87, 80, 74, 80, 90<br>84, 85, 90, 91, 90<br>83, 77, 74<br>78, 72<br>85, 90, 92, 74,<br>73, 72, 99,<br>98, 92 |

## 2.1.2 Details of Berths at Major Ports(Contd...)

| Port                       | Type of Berth (No.) | Draft<br>(In Mtrs.) | Length<br>(In Mtrs.) | Maximum size of<br>ships that can be<br>accommodated<br>(DWT) | Percentage<br>occupancy<br>during<br>1997-98 |
|----------------------------|---------------------|---------------------|----------------------|---------------------------------------------------------------|----------------------------------------------|
| 1                          | 2                   | 3                   | 4                    | 5                                                             | 6                                            |
| Visakhapatnam              |                     |                     |                      |                                                               |                                              |
| Inner Harbour :            |                     |                     |                      |                                                               |                                              |
| Multi-purpose Berths* (12) |                     | 10.1-10.2           | 169-195              | 36000                                                         | 97                                           |
| Dry Bulk Berth (1)         |                     | 10.1                | 194                  | 35000                                                         | 84                                           |
| (Mech) F 8                 |                     |                     |                      |                                                               |                                              |
| Oil Berth (2)              |                     |                     |                      |                                                               |                                              |
| Liquid Bulk Berth          |                     | 10.1**              | 183                  | 36000                                                         | 76                                           |
| Liquid Bulk Berth          |                     | 9.8                 | 183                  | 36000                                                         | 88                                           |
| Outer Harbour :            |                     |                     |                      |                                                               |                                              |
| Ore Berth (2)              |                     |                     |                      |                                                               |                                              |
| Dry Bulk Berth(Iron-Ore)   |                     | 16.0                | 270                  | 120000                                                        | 89                                           |
| Dry Bulk Berth(Iron-Ore)   |                     | 16.0                | 270                  | 120000                                                        | 85                                           |
| General-cum-Bulk           |                     |                     |                      |                                                               |                                              |
| Cargo Berth (1)            |                     | 13.2                | 232                  | 60000                                                         | 98                                           |
| Off - Shore Tanker         |                     |                     |                      |                                                               |                                              |
| Terminal Berth (1)         |                     | 15.0                | 280                  | 120000                                                        | 38                                           |

\* For handling Break-Bulk / Container.

\*\* On a rising tide of 0.91 meters.

2.1.1.2 Details of Berths at Major Ports (Contd...)

| Port     | Type of Berth (No.)                              | Draft<br>(In Mtrs.) | Length<br>(In Mtrs.)              | Maximum size of<br>ships that can be<br>accommodated<br>(DWT)   | Percentage<br>occupancy<br>during<br>1997-98 |
|----------|--------------------------------------------------|---------------------|-----------------------------------|-----------------------------------------------------------------|----------------------------------------------|
| 1        | 2                                                | 3                   | 4                                 | 5                                                               | 6                                            |
| Paradip  | General Cargo Berth                              |                     |                                   |                                                                 |                                              |
|          | Dry & Break-Bulk-I                               | 11.5                | 687                               | 40000-60000                                                     | 81                                           |
|          | Dry & Break-Bulk-II                              | 11.5                | 687                               | 40000-60000                                                     | 78                                           |
|          | Dry & Break-Bulk-III                             | 11.5                | 687                               | 40000-60000                                                     | 78                                           |
|          | Iron Ore Berth (1)<br>(Mechanised Dry-Bulk)      | 13.2                | 155<br>(320m. between<br>Dolphin) | 60000-75000<br>(Depend on weather<br>Conditions)<br>60000-65000 | 65                                           |
|          | Fertiliser Berth (1)<br>(Mechanised Liquid Bulk) | 13.0                | 252                               | 60000-65000                                                     | 73                                           |
|          | Multipurpose Berth                               | 12.5                | 290                               | 60000-65000                                                     | 62                                           |
|          | South Quay                                       | 13.0                | 265                               | 50000                                                           | 71                                           |
|          | West Quay                                        | 13.0                | 497                               | 60000-65000                                                     | 68                                           |
|          | Multi Purpose Berth (21)                         |                     |                                   |                                                                 |                                              |
| Calcutta | 1. Berth 1/KPD                                   | 7.7                 | 133                               | 475' Length 70' Breadth                                         | 61                                           |
|          | 2. Berth 5/7KPD                                  | 8.7                 | 229                               | 515' Length 70' Breadth*                                        | 43                                           |
|          | 3. Berth 9.KPD                                   | 8.9                 | 108                               | -do-                                                            | 67                                           |
|          | 4. Berth 11KPD                                   | 8.9                 | 151                               | -do-                                                            | 79                                           |
|          | 5. Berth 4KPD                                    | 8.1                 | 136                               | -do-                                                            | 51                                           |

\* LOA - 157 mtrs. and Beam 21.35 mtrs.

# 2.1.2 Details of Berths at Major Ports (Contd...)

| 1                    | 2                   | 3                   | 4                    | 5                                                             | 6                                            |
|----------------------|---------------------|---------------------|----------------------|---------------------------------------------------------------|----------------------------------------------|
| Port                 | Type of Berth (No.) | Draft<br>(In Mtrs.) | Length<br>(In Mtrs.) | Maximum size of<br>ships that can be<br>accommodated<br>(DWT) | Percentage<br>occupancy<br>during<br>1997-98 |
| Calcutta<br>(Contd.) | 6. Berth 9/KPD      | 8.3                 | 128                  | 515' Length 70' Breadth*                                      | 39                                           |
|                      | 7. Berth 10KPD      | 8.8                 | 161                  | -do-                                                          | 64                                           |
|                      | 8. Berth 12KPD      | 8.5                 | 143                  | 475' Length 70' Breadth                                       | 85                                           |
|                      | 9. Berth 22KPD      | 8.8                 | 151                  | 500' Length 70' Breadth                                       | 100                                          |
|                      | 10. Berth 23KPD     | 8.1                 | 147                  | 515' Length 70' Breadth*                                      | 77                                           |
|                      | 11. Berth 24KPD     | 8.6                 | 152                  | -do-                                                          | 93                                           |
|                      | 12. Berth 25KPD     | 8.7                 | 169                  | -do-                                                          | 53                                           |
|                      | 13. Berth 26KPD     | 8.1                 | 185                  | -do-                                                          | 50                                           |
|                      | 14. Berth 27KPD     | 8.4                 | 195                  | -do-                                                          | 66                                           |
|                      | 15. Berth 28KPD     | 7.6                 | 195                  | -do-                                                          | 75                                           |
|                      | 16. Berth 29KPD     | 8.4                 | 185                  | -do-                                                          | 67                                           |
|                      | 17. Berth 1NSD      | 8.3                 | 200                  | 565' Length 80' Breadth**                                     | 38                                           |
|                      | 18. Berth 2NSD      | 8.0                 | 187                  | -do-                                                          | 62                                           |
|                      | 19. Berth 3NSD      | 8.5                 | 183                  | -do-                                                          | 65                                           |
|                      | 20. Berth 13NSD     | 7.3                 | 174                  | -do-                                                          | 60                                           |
|                      | 21. Berth 14NSD     | 7.9                 | 174                  | 540' Length 80' Breadth                                       | 72                                           |

\* LOA - 157 mtrs., Beam - 21.35 mtrs.  
 \*\* LOA - 172.5 mtrs., Beam - 24.5 mtrs.

2.1.2 Details of Berths at Major Ports(Contd...)

| Port                 | Type of Berth (No.)          | Draft<br>(In Mtrs.) | Length<br>(In Mtrs.) | Maximum size of<br>ships that can be<br>accommodated<br>(DWT) | Percentage<br>occupancy<br>during<br>1997-98 |
|----------------------|------------------------------|---------------------|----------------------|---------------------------------------------------------------|----------------------------------------------|
| 1                    | 2                            | 3                   | 4                    | 5                                                             | 6                                            |
| Calcutta<br>(Contd.) | Containers (6)               |                     |                      |                                                               |                                              |
|                      | 1. Berth 3KPD                | 8.9                 | 128                  | 515' Length, 70' Breadth                                      | 36                                           |
|                      | 2. Berth 6KPD                | 8.7                 | 118                  | -do-                                                          | 44                                           |
|                      | 3. Berth 4NSD                | 8.5                 | 181                  | 565' Length, 80' Breadth                                      | 41                                           |
|                      | 4. Berth 5NSD                | 8.4                 | 182                  | -do-                                                          | 36                                           |
|                      | 5. Berth 7NSD                | 8.1                 | 192                  | 550' Length, 80' Breadth                                      | 52                                           |
|                      | 6. Berth 8NSD                | 6.8                 | 225                  | -do-                                                          | ...                                          |
|                      | Liquid Bulk/Oil Berth (7)    |                     |                      |                                                               |                                              |
|                      | 1. Berth 12NSD               | 7.8                 | 152                  | 500' Length, 80' Breadth                                      | 39                                           |
|                      | 2. Berth 1 Budge Budge       | Up to 9 mtrs.       | 189                  | 139 to 189 mtrs.                                              | 59                                           |
|                      | 3. Berth 2 -do-              | -do-                | 102                  | 85 to 116 mtrs.                                               | 47                                           |
|                      | 4. Berth 3 -do-              | -do-                | 163                  | 106 to 141 mtrs.                                              | 22                                           |
|                      | 5. Berth 5 -do-              | -do-                | 189                  | 132 to 189 mtrs.                                              | 57                                           |
|                      | 6. Berth 7 -do-              | -do-                | 189                  | 106 to 141 mtrs.                                              | 45                                           |
|                      | 7. Berth 8 -do-              | -do-                | 189                  | 106 to 189 mtrs.                                              | 48                                           |
| Haldia               | 1. Liquid Bulk               | 10                  | 91.44                | 90000                                                         | 76                                           |
|                      | 2. Liquid Bulk               | 10                  | 145                  | 150000                                                        | 76                                           |
|                      | 3. Dry/Liquid Bulk           | 10                  | 337                  | 90000                                                         | 78                                           |
|                      | 4. Dry Bulk                  | 11                  | 284                  | 90000                                                         | 73                                           |
|                      | 5. Dry Bulk                  | 10                  | 195                  | 90000                                                         | 79                                           |
|                      | 6. Dry Bulk/Liquid Bulk      | 10                  | 234                  | 90000                                                         | 86                                           |
|                      | 7. Dry Bulk/Liquid Bulk      | 10                  | 234                  | 90000                                                         | 86                                           |
|                      | 8. Dry Bulk/Break Bulk       | 10                  | 218                  | 4 or more vessels with in a total                             | 94                                           |
|                      | 9. Dry/Break Bulk/Container  | 10                  | 218                  | LOA of 800 mtrs. can                                          | 84                                           |
|                      | 10. Dry/Break Bulk/Container | 10                  | 220                  | be simultaneously accommodated                                | 94                                           |
|                      | 11. Dry/Break Bulk/Container | 10                  | 206                  | from berth No. 8,9,10 & 11.                                   | -                                            |

### 2.1.3 Storage Facilities at Major Ports.

| Port   | Dry Storage Accommodation                              |     |                                                                     |          | Liquid Storage Tanks                                                                                                                      |          |                                                                                          |                                                                 |
|--------|--------------------------------------------------------|-----|---------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|        | Type                                                   | No. | Area<br>(Sq. mtrs.)                                                 | Capacity | No.                                                                                                                                       | Location | Capacity                                                                                 | Type of<br>Cargo                                                |
| 1      | 2                                                      | 3   | 4                                                                   | 5        | 6                                                                                                                                         | 7        | 8                                                                                        | 9                                                               |
| Kandla | i) Transit Sheds                                       | 4   | 23423                                                               | 30000    |                                                                                                                                           |          |                                                                                          |                                                                 |
|        | ii) Ware-Houses (Double storage)                       | 4   | 40800                                                               | 60000    |                                                                                                                                           |          |                                                                                          |                                                                 |
|        | iii) Other covered areas(Godowns)                      | 12  | 41348                                                               | 80500    |                                                                                                                                           |          |                                                                                          |                                                                 |
|        | iv) Transit Shed at Bunder                             | 2   | 2877                                                                | 3000     |                                                                                                                                           |          |                                                                                          |                                                                 |
|        | v) Container Freight Station                           | 2   | 6480                                                                | 10000    |                                                                                                                                           |          |                                                                                          |                                                                 |
|        | vi) Open Area                                          | -   | 450000                                                              | 320000   |                                                                                                                                           |          |                                                                                          |                                                                 |
| Mumbai | i) Transit Sheds                                       | 26  | 133135                                                              |          | 4 P&V Docks                                                                                                                               |          | 28000<br>Tonnes                                                                          | Molasses/<br>Caster Oil                                         |
|        | ii) Ware-Houses                                        | 20  | 124851                                                              |          |                                                                                                                                           |          |                                                                                          |                                                                 |
|        | iii) Other covered area<br>(Container freight station) | 23  | 58861+8011<br>ground slots for<br>Containers                        |          | 8(BPT) Jawahar<br>Deep                                                                                                                    |          | Varies from<br>810-10222<br>KL                                                           | POL Products<br>& Fresh Water                                   |
|        | iv) Open area<br>(At various places)                   | -   | 141404+3486<br>ground slots for temporary<br>stacking of containers |          | 8(BPCL) Jawahar<br>Deep                                                                                                                   |          | 191500 Kls.                                                                              | -do-                                                            |
|        |                                                        |     |                                                                     |          | 8(STC) Camac Bunder<br>3(STC) Mallet Bunder<br>88(V.V.F. Ltd.) Hay Bunder<br>28 (Aegis) Pir Pau<br>2 (Aegis) Pir Pau<br>17 (CTTL) Pir Pau |          | 11500 Tonnes<br>36000 Tonnes<br>47600 Tonnes<br>90000 Kls.<br>20000 Tonnes<br>35000 Kls. | Vegetable Oil.<br>Liquid Chemicals.<br>LPG<br>Chemical/Lub Oil. |

### 2.1.3 Storage Facilities at Major Ports (Contd...)

| Port             | Dry Storage Accomodation                            |     |                            |     | Liquid Storage Tanks  |           |                                                                                                                                                                          |
|------------------|-----------------------------------------------------|-----|----------------------------|-----|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | Type                                                | No. | Area<br>(Sq. mtrs.)        | No. | Location              | Capacity  | Type of<br>Cargo                                                                                                                                                         |
| 1                | 2                                                   | 3   | 4                          | 5   | 6                     | 7         | 8                                                                                                                                                                        |
| Mormugao         | I. Covered Storage                                  |     |                            | 8   | Within Harbour        | 18025     | Molasses, Caustic                                                                                                                                                        |
|                  | i) Transit Sheds                                    | 2   | 10010                      |     | (Installed by Private | Kls.      | Soda, MEG, etc.                                                                                                                                                          |
|                  | ii) Ware-Houses                                     | 5   | 17096                      |     | Parties)              |           |                                                                                                                                                                          |
|                  | iii) C.W.C. Godowns                                 | 3   | 8412                       | 26  | Outside (Installed by | 150837    | POL Products                                                                                                                                                             |
|                  | iv) F.C.I. Godowns                                  | 2   | 8268                       |     | IOC & HPC)            | Kls.      |                                                                                                                                                                          |
|                  | II. Open Storage                                    |     |                            | 3   | Outside (Installed    | 13354     | Phosphoric acid                                                                                                                                                          |
|                  | i) Behind B. No. 6 & 7                              |     | 13332                      |     | by Zuari Industries)  | Kls.      |                                                                                                                                                                          |
|                  | ii) Behind B. No. 10                                |     | 16000                      |     |                       |           |                                                                                                                                                                          |
|                  | iii) Behind B. No. 11                               |     | 22200                      |     |                       |           |                                                                                                                                                                          |
|                  | iv) Stock yard at Mechanical<br>ore handling plant. |     | 80000                      |     |                       |           |                                                                                                                                                                          |
| New<br>Mangalore | i) Transit/Overflow Sheds                           | 5   | 18714                      | 41  | Inside and Outside    | 190706 KL | Naptha, Petroleum                                                                                                                                                        |
|                  | ii) Ware-Houses                                     | 9   | 19710                      |     | the Security wall     |           | Products, Molasses                                                                                                                                                       |
|                  | iii) Open area                                      | 3   | 37757                      |     |                       |           | Palm Oil, Phosphoric                                                                                                                                                     |
|                  | iv) Silos                                           | 3   | 15000 Tonnes<br>(Capacity) |     |                       |           | Acid, Ammonia, etc.<br>L&T State of art Cement<br>handling storage and<br>bagging facilities based<br>on the transportation of<br>Bulk Solids by fluidisation<br>concept |

### 2.1.3 Storage Facilities at Major Ports(Contd...)

| Port               | Dry Storage Accommodation      |     |                     |     | Liquid Storage Tanks          |                  |                                                             |
|--------------------|--------------------------------|-----|---------------------|-----|-------------------------------|------------------|-------------------------------------------------------------|
|                    | Type                           | No. | Area<br>(Sq. mtrs.) | No. | Location                      | Capacity         | Type of<br>Cargo                                            |
| 1                  | 2                              | 3   | 4                   | 5   | 6                             | 7                | 8                                                           |
| <b>J. L. Nehru</b> |                                |     |                     |     |                               |                  |                                                             |
|                    | I. Bulk Terminal               |     |                     |     |                               |                  |                                                             |
|                    | A. Covered Sheds               |     |                     |     |                               |                  |                                                             |
|                    | i) Food Grain Shed             | 1   | 21000               | 92  | 5.2 kms away<br>from the port | 619300<br>Tonnes | POL, POL Products<br>Edible Oils, B & C<br>Class Chemicals. |
|                    | ii) Fertiliser Shed            | 2   | 21000 Each          |     |                               |                  |                                                             |
|                    | iii) Sulphur Shed              | 1   | 24700               |     |                               |                  |                                                             |
|                    | iv) Bag storage Shed           | 1   | 11880               |     |                               |                  |                                                             |
|                    | v) Wagon Loading Shed          | 1   | 32850               |     |                               |                  |                                                             |
|                    | B. Open Paved Area             |     |                     |     |                               |                  |                                                             |
|                    | i) Dry Bulk Storage            | 1   | 159139              |     |                               |                  |                                                             |
|                    | ii. Container Terminal         |     |                     |     |                               |                  |                                                             |
|                    | i) Open Paved Area             | 1   | 471000              |     |                               |                  |                                                             |
|                    | iii. Container Freight Station |     |                     |     |                               |                  |                                                             |
|                    | i) Covered                     |     | 33790               |     |                               |                  |                                                             |
|                    | ii) Open Paved Area            |     | 67243               |     |                               |                  |                                                             |
|                    | iv. Buffer Yard                |     |                     |     |                               |                  |                                                             |
|                    | i) Open Paved Area             | 1   | 40000               |     |                               |                  |                                                             |
| <b>Cochin</b>      |                                |     |                     |     |                               |                  |                                                             |
|                    | i) Transit Sheds               | 7   | 28263               | 14  | Near BTP                      | 1340 Tonnes      | Cashew Shell                                                |
|                    | ii) Ware-Houses                | 7   | 16246               |     |                               |                  | Liquid                                                      |
|                    | iii) Over Flow Sheds           | 7   | 13679               | 1   | S C B                         | 10000 Tonnes     | Liquid Ammonia                                              |
|                    | iv) Hazardous Sheds            | 2   | 202                 |     |                               |                  |                                                             |
|                    | v) Container Freight Station   | 1   | 10732               | 2   | Q 10                          | 13000 Tonnes     | Phosphoric Acid                                             |
|                    | vi) Carbide Shed               | 1   | 98                  |     |                               |                  |                                                             |

### 2.1.3 Storage Facilities at Major Ports(Contd...)

| Port          | Dry Storage Accomodation       |     |                     |     | Liquid Storage Tanks      |            |                         |
|---------------|--------------------------------|-----|---------------------|-----|---------------------------|------------|-------------------------|
|               | Type                           | No. | Area<br>(Sq. mtrs.) | No. | Location                  | Capacity   | Type of<br>Cargo        |
| 1             | 2                              | 3   | 4                   | 5   | 6                         | 7          | 8                       |
| Tuticorin     | i) Transit Sheds               | 2   | 10800               | 3   | Inside the Security Wall  | 15000 M3   | Phosphoric Acid         |
|               |                                |     |                     | 1   | Outside the Security Wall | 10000 MT   | Liquid Ammonia          |
|               |                                |     |                     | 10  | -do-                      | 2000 M3    | Vinyl Chloride, Monomer |
|               |                                |     |                     | 1   | -do-                      | 5000 M3    | -do-                    |
|               | ii) Ware - Houses              | 3   | 15550               | 3   | -do-                      | 3x8500 MT  | Furnace Oil             |
|               | iii) Other covered area        | 2   | 733 & 739           | 2   | -do-                      | 2x70 KL    | LSH-FHSD                |
|               | iv) Open area                  |     | 72000               | 3   | -do-                      | 1x13800 KL | Naptha                  |
|               |                                |     |                     |     |                           | 1x13700 KL | -do-                    |
|               |                                |     |                     |     |                           | 1x14100 KL | -do-                    |
|               |                                |     |                     | 2   | -do-                      | 1x600 MT   | LDO                     |
| Chennai       |                                |     |                     | 2   | -do-                      | 1x838 MT   | LDO                     |
|               |                                |     |                     | 2   | -do-                      | 7790 KL    | Ethylene Di - Chloride  |
|               |                                |     |                     | 1   | -do-                      | 10000 MT   | LPG                     |
|               | i) Transit Sheds               | 8   | 36000               | 42  | Inside Port               | 126200     | Phosphoric Acid         |
|               | ii) Ware-Houses                | 12  | 85886               |     |                           | Tonnes     | Lub. Oil                |
|               | iii) Container freight station | 2   | 12800               |     |                           | and        | Black & White Oil       |
|               | iv) Open space                 | -   | 325000              |     |                           | 139733 Kls | Edible Oil & Other      |
|               | v) Container parking yard      | -   | 130000              |     |                           |            | Liquid cargo            |
|               |                                |     |                     |     |                           |            |                         |
|               |                                |     |                     |     |                           |            |                         |
| Visakhapatnam | i) Transit Sheds               | 7   | 30959               | 13  | West Ore berths           | 19098      | Edible oils &           |
|               | ii) Ware-Houses                | 3   | 27044               |     | west jetty                | M. Tonnes  | Molasses,               |
|               | iii) Other covered area        |     |                     |     | berths area               |            | Caustic Soda,           |
|               | ( S.2 & S.3 Sheds)             | 2   | 8113                |     |                           |            | P. Acid & Ammonia.      |
|               | iv) Open area                  | 51  | 998795              |     |                           |            |                         |

### 2.1.3 Storage Facilities at Major Ports(Contd...)

| Port     | Dry Storage Accommodation |     |                     |     | Liquid Storage Tanks                           |           |                                                |
|----------|---------------------------|-----|---------------------|-----|------------------------------------------------|-----------|------------------------------------------------|
|          | Type                      | No. | Area<br>(Sq. mtrs.) | No. | Location                                       | Capacity  | Type of<br>Cargo                               |
| 1        | 2                         | 3   | 4                   | 5   | 6                                              | 7         | 8                                              |
| Paradip  | i) Transit Sheds          | 5   | 15280               | 12  | Outside Port                                   | 167000    | H, S, D, S, K, D, FO                           |
|          | ii) Ware - Houses         | 4   | 8969                |     |                                                |           | LDO                                            |
|          | iii) Other covered area   | -   | -                   |     |                                                |           |                                                |
|          | iv) Open area             | -   | 650000              |     |                                                |           |                                                |
| Calcutta | i) Transit Sheds          | 24  | 156396              | 159 | Near NS Dock/<br>Budge Budge                   | 398703 KL | POL (product)<br>veg. oil.                     |
|          | ii) Ware-Houses           | -   | -                   |     |                                                |           | Other Liquid Cargo.                            |
|          | iii) Other covered area   | -   | -                   |     |                                                |           |                                                |
|          | iv) Open area             | -   | 155165              |     |                                                |           |                                                |
| Haldia   | i) Transit Sheds          | 2   | 22070               |     | HDC does not have Liquid<br>storage facilities |           | POL product, Crude<br>oil, Other Liquid Cargo. |
|          | ii) Ware-Houses           | -   | -                   |     |                                                |           |                                                |
|          | iii) Other covered area   | -   | -                   |     |                                                |           |                                                |
|          | iv) Open area             | 9   | 531676              |     |                                                |           |                                                |

2.1.4 Performance Of Cargo Handling Equipments  
For The Years 1996-97, 1997-98 and 1998-99

| S.No. | Name Of The Port | Equipment      | 1996-97             |                    |                     | 1997-98            |                     |                    | 1998-99 (P)         |                    |  |
|-------|------------------|----------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--|
|       |                  |                | % Avail-<br>ability | % Utili-<br>sation | % Avail-<br>ability | % Utili-<br>sation | % Avail-<br>ability | % Utili-<br>sation | % Avail-<br>ability | % Utili-<br>sation |  |
| 1     | 2                | 3              | 4                   | 5                  | 6                   | 7                  | 8                   | 9                  |                     |                    |  |
| 1.    | Kandla           | Wharf Crane    | 92                  | 48                 | 90                  | 45                 | 74                  | 41                 |                     |                    |  |
|       |                  | Mobile Crane   | 100                 | -                  | 100                 | -                  | -                   | -                  |                     |                    |  |
|       |                  | Forklift Truck | 92                  | 32                 | 90                  | 30                 | 92                  | 29                 |                     |                    |  |
| 2.    | Mumbai           | Wharf Crane    | 93                  | 30                 | 90                  | 30                 | 89                  | 27                 |                     |                    |  |
|       |                  | Mobile Crane   | 95                  | 25                 | 90                  | 20                 | 88                  | 18                 |                     |                    |  |
|       |                  | Forklift Truck | 90                  | 22                 | 88                  | 20                 | 91                  | 21                 |                     |                    |  |
| 3.    | Mormugao         | Wharf Crane    | 98                  | 6                  | 93                  | 3                  | 97                  | 7                  |                     |                    |  |
|       |                  | Mobile Crane   | 98                  | 10                 | 96                  | 3                  | 97                  | 4                  |                     |                    |  |
|       |                  | Forklift Truck | 90                  | 45                 | 90                  | 50                 | 94                  | 23                 |                     |                    |  |
| 4.    | N.Mangalore      | Wharf Crane    | 90                  | -                  | 86                  | -                  | 59                  | 2                  |                     |                    |  |
|       |                  | Mobile Crane   | 100                 | 10                 | 100                 | 4                  | 100                 | 1                  |                     |                    |  |
|       |                  | Forklift Truck | 90                  | 5                  | 90                  | 5                  | 88                  | 5                  |                     |                    |  |
| 5.    | Cochin           | Wharf Crane    | 90                  | 15                 | 88                  | 10                 | 66                  | 10                 |                     |                    |  |
|       |                  | Mobile Crane   | 80                  | 15                 | 75                  | 3                  | 65                  | 3                  |                     |                    |  |
|       |                  | Forklift Truck | 80                  | 20                 | 75                  | 13                 | 82                  | 10                 |                     |                    |  |

**2.1.4 Performance Of Cargo Handling Equipments  
For The Years 1996-97, 1997-98 and 1998-99 (Contd.)**

| S.No. | Name Of The Port | Equipments     | 1996-97             |                    | 1997-98             |                    | 1998-99 (P)         |                    |
|-------|------------------|----------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
|       |                  |                | % Avail-<br>ability | % Utili-<br>sation | % Avail-<br>ability | % Utili-<br>sation | % Avail-<br>ability | % Utili-<br>sation |
| 1     | 2                | 3              | 4                   | 5                  | 6                   | 7                  | 8                   | 9                  |
| 6.    | Tuticorin        | Wharf Crane    | 90                  | 30                 | 90                  | 20                 | 93                  | 16                 |
|       |                  | Mobile Crane   | 90                  | 25                 | 60                  | 10                 | 62                  | 5                  |
|       |                  | Forklift Truck | 95                  | 15                 | 96                  | 12                 | 93                  | 6                  |
| 7.    | Chennai          | Wharf Crane    | 89                  | 35                 | 88                  | 33                 | 85                  | 27                 |
|       |                  | Mobile Crane   | 95                  | 45                 | 90                  | 44                 | 88                  | 44                 |
|       |                  | Forklift Truck | 85                  | 32                 | 85                  | 30                 | 85                  | 25                 |
| 8.    | Visakhapatnam    | Wharf Crane    | 90                  | 36                 | 90                  | 35                 | 94                  | 39                 |
|       |                  | Mobile Crane   | 95                  | 25                 | 92                  | 20                 | 90                  | 14                 |
|       |                  | Forklift Truck | 79                  | 30                 | 76                  | 26                 | 68                  | 20                 |
| 9.    | Paradip          | Wharf Crane    | 80                  | 30                 | 80                  | 32                 | 82                  | 13                 |
|       |                  | Mobile Crane   | 60                  | 10                 | 55                  | 10                 | 78                  | 4                  |
|       |                  | Forklift Truck | 88                  | 15                 | 87                  | 10                 | 99                  | 5                  |
| 10.   | Calcutta         | Wharf Crane    | 68                  | 15                 | 65                  | 12                 | 53                  | 9                  |
|       |                  | Mobile Crane   | 58                  | 25                 | 40                  | 20                 | 48                  | 22                 |
|       |                  | Forklift Truck | 58                  | 25                 | 42                  | 20                 | 47                  | 24                 |
| 11.   | Haldia           | Wharf Crane    | -                   | -                  | -                   | -                  | -                   | -                  |
|       |                  | Mobile Crane   | 85                  | 25                 | 80                  | 12                 | 45                  | 4                  |
|       |                  | Forklift Truck | 75                  | 20                 | 70                  | 20                 | 74                  | 15                 |

(P): Provisional

- Average Norms for :
1. Wharf Crane : Availability 85 % to 90 %  
Utilisation 35 % and above
  2. Mobile Crane : Availability 82 % to 85 %  
Utilisation 30 % and above
  3. Forklift Truck : Availability 75 % to 80 %  
Utilisation 35 % and above
- Source : Development Wing, Ministry Of Surface Transport and IPA.

# 2.2.1 Growth Of Cargo Traffic Handled At Major Ports

| Year    | (In Million Tonnes) |        |        |          |       |          |        |       |          |        |
|---------|---------------------|--------|--------|----------|-------|----------|--------|-------|----------|--------|
|         | Overseas            |        |        |          |       | Coastal  |        |       |          |        |
|         | :                   |        |        |          |       | :        |        |       |          |        |
|         | Unloaded            | Loaded | Total  | Unloaded | Total | Unloaded | Loaded | Total | Unloaded | Loaded |
| (1)     | (2)                 | (3)    | (4)    | (5)      | (6)   | (7)      | (8)    | (9)   | (10)     |        |
| 1965-66 | 22.41               | 16.62  | 39.03  | 5.94     | 5.25  | 11.19    | 28.35  | 21.87 | 50.22    |        |
| 1970-71 | 21.50               | 26.58  | 48.08  | 4.06     | 3.44  | 7.50     | 25.56  | 30.02 | 55.58    |        |
| 1975-76 | 29.13               | 29.04  | 58.17  | 4.20     | 3.63  | 7.83     | 33.33  | 32.67 | 66.00    |        |
| 1980-81 | 39.09               | 28.50  | 67.59  | 7.73     | 4.95  | 12.68    | 46.82  | 33.45 | 80.27    |        |
| 1981-82 | 39.78               | 32.23  | 72.01  | 8.61     | 7.36  | 15.97    | 48.39  | 39.59 | 87.98    |        |
| 1982-83 | 41.08               | 29.16  | 70.24  | 10.57    | 12.89 | 23.46    | 51.65  | 42.05 | 93.70    |        |
| 1983-84 | 38.80               | 29.07  | 67.87  | 13.41    | 15.10 | 28.51    | 52.21  | 44.17 | 96.38    |        |
| 1984-85 | 39.62               | 33.97  | 73.59  | 15.71    | 16.52 | 32.23    | 55.33  | 50.49 | 105.82   |        |
| 1985-86 | 45.82               | 36.73  | 82.55  | 22.16    | 14.91 | 37.07    | 67.98  | 51.64 | 119.62   |        |
| 1986-87 | 43.58               | 39.79  | 83.37  | 23.36    | 17.64 | 41.00    | 66.94  | 57.43 | 124.37   |        |
| 1987-88 | 49.95               | 40.15  | 90.10  | 23.39    | 21.11 | 44.50    | 73.34  | 61.26 | 134.60   |        |
| 1988-89 | 55.40               | 43.79  | 99.19  | 25.91    | 21.96 | 47.87    | 81.31  | 65.75 | 147.06   |        |
| 1989-90 | 54.13               | 45.26  | 99.39  | 26.72    | 21.46 | 48.18    | 80.85  | 66.72 | 147.57   |        |
| 1990-91 | 59.02               | 43.63  | 102.65 | 26.07    | 22.95 | 49.02    | 85.09  | 66.58 | 151.67   |        |
| 1991-92 | 59.91               | 44.89  | 104.80 | 26.66    | 25.18 | 51.84    | 86.57  | 70.07 | 156.64   |        |
| 1992-93 | 74.09               | 43.28  | 117.37 | 24.35    | 24.78 | 49.13    | 98.44  | 68.06 | 166.50   |        |
| 1993-94 | 76.02               | 53.48  | 129.50 | 24.81    | 24.71 | 49.52    | 100.83 | 78.19 | 179.02   |        |
| 1994-95 | 83.60               | 52.18  | 135.78 | 29.60    | 30.51 | 60.11    | 113.20 | 82.69 | 195.89   |        |
| 1995-96 | 94.86               | 57.24  | 152.10 | 31.79    | 31.32 | 63.11    | 126.65 | 88.56 | 215.21   |        |
| 1996-97 | 102.57              | 57.31  | 159.88 | 36.64    | 30.45 | 67.09    | 139.21 | 87.76 | 226.97   |        |
| 1997-98 | 117.36              | 61.64  | 179.00 | 38.62    | 34.04 | 72.66    | 155.98 | 95.68 | 251.66   |        |

# 2.2.2 Cargo Traffic Handled At Various Major Ports

(In Million Tonnes)

| Year    | Kandla | Mumbai | J.L. Nehru | P O R T S | Mormu | N. Mangalore | Cochin | Tuticorin | Chennai | Visakhapatnam | Paradip | Calcutta | Total |
|---------|--------|--------|------------|-----------|-------|--------------|--------|-----------|---------|---------------|---------|----------|-------|
| 1       | 2      | 3      | 4          | 5         | 6     | 7            | 8      | 9         | 10      | 11            | 12      | 13       |       |
| 1955-56 | 0.15   | 9.68   | -          | -         | -     | 1.64         | -      | 2.34      | 1.29    | -             | 8.01    | 23.11    |       |
| 1960-61 | 1.57   | 14.35  | -          | -         | -     | 2.01         | -      | 3.04      | 2.76    | -             | 9.39    | 33.12    |       |
| 1965-66 | 2.51   | 17.91  | -          | 7.87      | -     | 2.87         | -      | 4.97      | 4.46    | -             | 9.73    | 50.22    |       |
| 1970-71 | 1.61   | 14.37  | -          | 11.01     | -     | 4.81         | -      | 6.92      | 8.73    | 2.16          | 5.97    | 55.58    |       |
| 1975-76 | 3.20   | 16.65  | -          | 12.77     | 0.34  | 4.26         | 1.36   | 7.88      | 8.55    | 3.33          | 7.66    | 66.00    |       |
| 1980-81 | 8.76   | 16.98  | -          | 13.77     | 0.96  | 5.23         | 2.56   | 10.38     | 10.12   | 2.24          | 9.27    | 80.27    |       |
| 1981-82 | 9.69   | 19.40  | -          | 14.98     | 1.64  | 5.50         | 2.67   | 11.41     | 10.99   | 2.23          | 9.47    | 87.98    |       |
| 1982-83 | 12.36  | 23.21  | -          | 12.81     | 2.27  | 5.71         | 3.23   | 12.07     | 10.22   | 1.57          | 10.25   | 93.70    |       |
| 1983-84 | 14.16  | 23.89  | -          | 12.84     | 2.84  | 5.00         | 3.55   | 12.84     | 9.88    | 1.37          | 10.01   | 96.38    |       |
| 1984-85 | 15.74  | 26.94  | -          | 14.30     | 3.38  | 4.07         | 3.77   | 14.13     | 11.08   | 2.14          | 10.27   | 105.82   |       |
| 1985-86 | 16.49  | 24.31  | -          | 16.12     | 3.69  | 5.28         | 4.22   | 18.15     | 15.91   | 3.33          | 12.13   | 119.63   |       |
| 1986-87 | 16.19  | 25.08  | -          | 14.92     | 5.43  | 6.88         | 4.13   | 19.78     | 15.04   | 4.85          | 12.07   | 124.37   |       |
| 1987-88 | 18.08  | 29.57  | -          | 13.33     | 6.11  | 6.80         | 4.26   | 22.82     | 15.37   | 5.19          | 13.07   | 134.60   |       |
| 1988-89 | 17.81  | 29.34  | -          | 15.39     | 7.09  | 7.82         | 5.13   | 23.86     | 20.37   | 6.03          | 14.22   | 147.06   |       |
| 1989-90 | 18.92  | 27.75  | 0.70       | 14.17     | 7.66  | 7.12         | 5.32   | 24.52     | 21.12   | 6.18          | 14.69   | 147.57   |       |
| 1990-91 | 19.69  | 28.90  | 2.02       | 14.91     | 8.02  | 7.28         | 5.08   | 25.05     | 19.42   | 6.88          | 14.95   | 151.67   |       |
| 1991-92 | 21.00  | 26.26  | 2.79       | 15.10     | 8.27  | 7.48         | 5.87   | 25.33     | 21.52   | 7.30          | 16.00   | 156.64   |       |
| 1992-93 | 22.91  | 28.95  | 3.01       | 16.31     | 7.09  | 7.98         | 6.22   | 26.54     | 22.76   | 7.60          | 18.34   | 166.50   |       |
| 1993-94 | 24.50  | 30.51  | 3.38       | 18.72     | 8.63  | 7.62         | 6.70   | 29.46     | 25.59   | 8.33          | 18.50   | 179.02   |       |
| 1994-95 | 26.50  | 30.67  | 5.01       | 18.88     | 8.01  | 8.63         | 8.04   | 30.72     | 30.03   | 10.12         | 20.54   | 195.89   |       |
| 1995-96 | 30.34  | 33.92  | 6.87       | 18.09     | 8.88  | 11.50        | 9.29   | 31.85     | 32.82   | 11.26         | 21.52   | 215.21   |       |
| 1996-97 | 33.73  | 33.44  | 8.07       | 17.31     | 12.45 | 11.74        | 9.18   | 35.53     | 34.50   | 11.58         | 23.12   | 226.97   |       |
| 1997-98 | 38.90  | 32.10  | 8.90       | 21.18     | 15.28 | 12.32        | 9.98   | 35.53     | 36.01   | 13.30         | 28.16   | 251.66   |       |

2.2.3 Cargo Traffic (Commodity-Wise) Handled At Major Ports In India

| Year    | (In '000 Tonnes)             |                 |                                 |             |       |                 |        |        |          |                 |
|---------|------------------------------|-----------------|---------------------------------|-------------|-------|-----------------|--------|--------|----------|-----------------|
|         | POL<br>(Crude &<br>Products) | Ferti-<br>liser | Fertili-<br>ser Raw<br>Material | Iron<br>Ore | Coal  | Food-<br>grains | Others | Total  | Of which | Unloaded Loaded |
| (1)     | (2)                          | (3)             | (4)                             | (5)         | (6)   | (7)             | (8)    | (9)    | (10)     | (11)            |
| 1960-61 | 12265                        | 683             | 208                             | 1333        | 2131  | 5157            | 11348  | 33125  | 22579    | 10546           |
| 1970-71 | 18893                        | 1227            | 1040                            | 19203       | 675   | 3193            | 11348  | 55579  | 25557    | 30022           |
| 1980-81 | 33578                        | 4278            | 1933                            | 22836       | 2110  | 975             | 14560  | 80270  | 46816    | 33454           |
| 1981-82 | 34154                        | 2951            | 2142                            | 25114       | 3148  | 2376            | 18095  | 87980  | 48391    | 39589           |
| 1982-83 | 45340                        | 4023            | *                               | 22218       | 4875  | 2347            | 14894  | 93697  | 51648    | 42049           |
| 1983-84 | 49743                        | 1893            | 2342                            | 21952       | 4164  | 3417            | 12866  | 96377  | 52205    | 44172           |
| 1984-85 | 49004                        | 4226            | 2915                            | 26041       | 4422  | 1313            | 17902  | 105823 | 55334    | 50489           |
| 1985-86 | 54890                        | 4106            | 2700                            | 28841       | 7538  | 1133            | 20405  | 119613 | 67974    | 51639           |
| 1986-87 | 53070                        | 2387            | 4075                            | 30609       | 8551  | 1402            | 24272  | 124366 | 66940    | 57426           |
| 1987-88 | 58917                        | 1417            | 4165                            | 28748       | 12788 | 1672            | 26895  | 134602 | 73342    | 61260           |
| 1988-89 | 63166                        | 1648            | 4738                            | 32738       | 15468 | 3388            | 25915  | 147061 | 81310    | 65751           |
| 1989-90 | 61968                        | 2921            | 5193                            | 33186       | 17616 | 1493            | 25908  | 148285 | 80856    | 67429           |
| 1990-91 | 64004                        | 2879            | 6064                            | 31904       | 19659 | 1528            | 25627  | 151665 | 85088    | 66577           |
| 1991-92 | 67602                        | 3153            | 6767                            | 32101       | 22403 | 1539            | 23079  | 156644 | 86569    | 70075           |
| 1992-93 | 73764                        | 3595            | 6318                            | 29827       | 24488 | 2795            | 25710  | 166497 | 97922    | 68575           |
| 1993-94 | 76920                        | 4183            | 5291                            | 34096       | 26806 | 1964            | 29759  | 179019 | 100246   | 78773           |
| 1994-95 | 80373                        | 4334            | 6667                            | 34354       | 30798 | 1343            | 38021  | 195890 | 113201   | 82689           |
| 1995-96 | 90923                        | 5727            | 6628                            | 34562       | 33790 | 3852            | 39726  | 215208 | 126648   | 88560           |
| 1996-97 | 99050                        | 3327            | 6588                            | 33260       | 37530 | 4182            | 43032  | 226969 | 139207   | 87762           |
| 1997-98 | 105343                       | 4825            | 7610                            | 39611       | 42295 | 3996            | 47978  | 251658 | 155975   | 95683           |

\* Included in Fertilizer.

# 2.2.4 Cargo Traffic (Commodity-wise) Handled At Kandla Port

(In '000 Tonnes)

| Year    | POL<br>(Crude &<br>Products) | Fertiliser | Fertiliser<br>Raw Material | Food-<br>grains | Others | Total | Of which | Unloaded | Loaded |
|---------|------------------------------|------------|----------------------------|-----------------|--------|-------|----------|----------|--------|
| (1)     | (2)                          | (3)        | (4)                        | (5)             | (6)    | (7)   | (8)      | (9)      |        |
| 1960-61 | 708                          | 52         | 41                         | 413             | 359    | 1573  | 1231     | 342      |        |
| 1970-71 | 878                          | 145        | 58                         | 326             | 205    | 1612  | 1474     | 138      |        |
| 1980-81 | 7208                         | 404        | 262                        | 374             | 513    | 8761  | 8190     | 571      |        |
| 1981-82 | 7629                         | 207        | 393                        | 601             | 860    | 9690  | 9057     | 633      |        |
| 1982-83 | 10151                        | 338        | -                          | 475             | 1394   | 12358 | 11653    | 705      |        |
| 1983-84 | 11361                        | 93         | 136                        | 514             | 2054   | 14158 | 13272    | 886      |        |
| 1984-85 | 11938                        | 484        | 304                        | 282             | 2737   | 15745 | 14570    | 1175     |        |
| 1985-86 | 12340                        | 423        | 208                        | 302             | 3213   | 16486 | 15175    | 1311     |        |
| 1986-87 | 11928                        | 270        | 127                        | 454             | 3415   | 16194 | 14854    | 1340     |        |
| 1987-88 | 13395                        | 207        | 191                        | 812             | 3478   | 18083 | 16281    | 1802     |        |
| 1988-89 | 13238                        | 235        | 204                        | 580             | 3550   | 17807 | 16439    | 1368     |        |
| 1989-90 | 14354                        | 302        | 730                        | 436             | 3103   | 18925 | 16755    | 2170     |        |
| 1990-91 | 15062                        | 308        | 737                        | 585             | 2993   | 19685 | 17271    | 2414     |        |
| 1991-92 | 16503                        | 365        | 936                        | 940             | 2258   | 21002 | 18146    | 2854     |        |
| 1992-93 | 17951                        | 448        | 945                        | 600             | 2966   | 22910 | 20503    | 2407     |        |
| 1993-94 | 18157                        | 924        | 1043                       | 629             | 3647   | 24500 | 20953    | 3547     |        |
| 1994-95 | 18898                        | 705        | 1174                       | 689             | 5036   | 26502 | 22651    | 3651     |        |
| 1995-96 | 21126                        | 676        | 1102                       | 2038            | 5397   | 30339 | 25873    | 4466     |        |
| 1996-97 | 25061                        | 466        | 1335                       | 1951            | 5017   | 33730 | 29267    | 4463     |        |
| 1997-98 | 29036                        | 732        | 1550                       | 1386            | 6197   | 38901 | 35021    | 3880     |        |

| 2.2.5 Cargo Traffic (Commodity-Wise) Handled At Mumbai Port<br>(In '000 Tonnes) |                              |                 |                                 |                 |      |        |       |          |                 |
|---------------------------------------------------------------------------------|------------------------------|-----------------|---------------------------------|-----------------|------|--------|-------|----------|-----------------|
| Year                                                                            | POL<br>(Crude &<br>Products) | Ferti-<br>liser | Fertili-<br>ser Raw<br>Material | Food-<br>grains | Coal | Others | Total | Of which | Unloaded Loaded |
| (1)                                                                             | (2)                          | (3)             | (4)                             | (5)             | (6)  | (7)    | (8)   | (9)      | (10)            |
| 1960-61                                                                         | 7311                         | 208             | 67                              | 2113            | 20   | 4630   | 14349 | 10720    | 3629            |
| 1970-71                                                                         | 8445                         | 220             | 288                             | 948             | -    | 4469   | 14370 | 10973    | 3397            |
| 1980-81                                                                         | 8998                         | 733             | 543                             | 87              | -    | 6617   | 16978 | 13209    | 3769            |
| 1981-82                                                                         | 9449                         | 548             | 630                             | 226             | -    | 8543   | 19396 | 12794    | 6602            |
| 1982-83                                                                         | 17101                        | 936             | ...                             | 362             | -    | 4810   | 23209 | 11744    | 11465           |
| 1983-84                                                                         | 16650                        | 216             | 720                             | 376             | -    | 5927   | 23889 | 10372    | 13517           |
| 1984-85                                                                         | 16929                        | 339             | 702                             | 117             | -    | 8849   | 26936 | 11365    | 15571           |
| 1985-86                                                                         | 15470                        | 331             | 721                             | 608             | -    | 7180   | 24310 | 11947    | 12363           |
| 1986-87                                                                         | 16313                        | 236             | 985                             | 497             | -    | 7043   | 25074 | 11839    | 13235           |
| 1987-88                                                                         | 19384                        | 174             | 992                             | 572             | -    | 8446   | 29568 | 13570    | 15998           |
| 1988-89                                                                         | 19063                        | 162             | 1266                            | 860             | -    | 7991   | 29342 | 13567    | 15775           |
| 1989-90                                                                         | 18210                        | 141             | 1082                            | 432             | -    | 7781   | 27746 | 13141    | 14605           |
| 1990-91                                                                         | 19670                        | 46              | 621                             | 625             | -    | 7937   | 28899 | 13719    | 15180           |
| 1991-92                                                                         | 19512                        | 37              | 457                             | 340             | -    | 5915   | 26261 | 11506    | 14755           |
| 1992-93                                                                         | 20303                        | 39              | 928                             | 544             | -    | 7232   | 28946 | 15232    | 13714           |
| 1993-94                                                                         | 20820                        | 57              | 845                             | 763             | -    | 8021   | 30506 | 17438    | 13068           |
| 1994-95                                                                         | 18833                        | 70              | 892                             | 616             | -    | 10262  | 30673 | 16162    | 14511           |
| 1995-96                                                                         | 21138                        | 105             | 735                             | 1209            | -    | 10729  | 33916 | 17320    | 16596           |
| 1996-97                                                                         | 19908                        | 79              | 628                             | 1027            | -    | 11797  | 33439 | 18370    | 15069           |
| 1997-98                                                                         | 17682                        | 88              | 814                             | 1116            | -    | 12397  | 32097 | 19308    | 12789           |

2.2.6 Cargo Traffic (Commodity-Wise) Handled At J.L.Nehru Port

(In '000 Tonnes)

| Year    | POL<br>(Crude &<br>Products) | Fertiliser | Fertiliser<br>Material | Food-<br>grains | Iron<br>Ore | Others | Total | Of which<br>Unloaded | Loaded |
|---------|------------------------------|------------|------------------------|-----------------|-------------|--------|-------|----------------------|--------|
| (1)     | (2)                          | (3)        | (4)                    | (5)             | (6)         | (7)    | (8)   | (9)                  | (10)   |
| 1989-90 | -                            | 102        | 132                    | -               | ...         | 406    | 697   | 507                  | 190    |
| 1990-91 | -                            | 516        | 850                    | -               | ...         | 656    | 2022  | 1654                 | 368    |
| 1991-92 | -                            | 623        | 820                    | -               | ...         | 1351   | 2794  | 2061                 | 733    |
| 1992-93 | -                            | 568        | 114                    | 577             | ...         | 1728   | 3007  | 2105                 | 902    |
| 1993-94 | -                            | 855        | 23                     | 275             | ...         | 2234   | 3387  | 2088                 | 1299   |
| 1994-95 | -                            | 1187       | 125                    | -               | ...         | 3696   | 5008  | 3290                 | 1718   |
| 1995-96 | 139                          | 1716       | 179                    | 68              | 648         | 4123   | 6873  | 4314                 | 2559   |
| 1996-97 | 252                          | 984        | 363                    | 380             | 686         | 5404   | 8069  | 4808                 | 3261   |
| 1997-98 | 681                          | 881        | 75                     | 355             | 657         | 6246   | 8895  | 5373                 | 3522   |

2.2.7 Cargo Traffic (Commodity-Wise) Handled At Mormugao Port

| Year    | ('000 Tonnes)                |                 |                                 |             |                 |      |        |       |          |        |  |
|---------|------------------------------|-----------------|---------------------------------|-------------|-----------------|------|--------|-------|----------|--------|--|
|         | POL<br>(Crude &<br>Products) | Ferti-<br>liser | Fertili-<br>ser Raw<br>Material | Iron<br>Ore | Food-<br>grains | Coal | Others | Total | Of which |        |  |
|         |                              |                 |                                 |             |                 |      |        |       | Unloaded | Loaded |  |
| (1)     | (2)                          | (3)             | (4)                             | (5)         | (6)             | (7)  | (8)    | (9)   | (10)     | (11)   |  |
| 1960-61 | 39                           | 4               | -                               | 6035        | 54              | 10   | 259    | 6401  | 184      | 6217   |  |
| 1970-71 | 234                          | 97              | -                               | 9555        | 19              | -    | 1100   | 11005 | 353      | 10652  |  |
| 1980-81 | 589                          | 178             | 19                              | 12598       | -               | -    | 380    | 13764 | 843      | 12921  |  |
| 1981-82 | 657                          | 138             | 64                              | 13352       | 115             | -    | 650    | 14976 | 1145     | 13831  |  |
| 1982-83 | 736                          | 119             | -                               | 11407       | 43              | -    | 509    | 12814 | 982      | 11832  |  |
| 1983-84 | 1020                         | 142             | 61                              | 11528       | 39              | -    | 51     | 12841 | 938      | 11903  |  |
| 1984-85 | 904                          | 290             | 79                              | 12642       | 33              | -    | 351    | 14299 | 1150     | 13149  |  |
| 1985-86 | 945                          | 308             | -                               | 14188       | -               | -    | 674    | 16115 | 1621     | 14494  |  |
| 1986-87 | 784                          | 229             | 226                             | 13472       | -               | -    | 208    | 14919 | 1293     | 13626  |  |
| 1987-88 | 1132                         | 54              | 178                             | 11697       | -               | -    | 271    | 13332 | 1381     | 11951  |  |
| 1988-89 | 1321                         | 127             | 221                             | 13373       | 70              | -    | 277    | 15389 | 1783     | 13606  |  |
| 1989-90 | 1043                         | 245             | 146                             | 12413       | 12              | 15   | 294    | 14168 | 1483     | 12685  |  |
| 1990-91 | 1369                         | 166             | 148                             | 12986       | -               | 34   | 208    | 14911 | 1721     | 13190  |  |
| 1991-92 | 1865                         | 127             | 251                             | 12517       | -               | 31   | 308    | 15099 | 2396     | 12703  |  |
| 1992-93 | 1784                         | 244             | 204                             | 13601       | 4               | 107  | 370    | 16314 | 2394     | 13920  |  |
| 1993-94 | 2098                         | 141             | 135                             | 15748       | 11              | 109  | 475    | 18717 | 2535     | 16182  |  |
| 1994-95 | 1938                         | 70              | 191                             | 15693       | -               | 413  | 576    | 18881 | 2732     | 16149  |  |
| 1995-96 | 1911                         | 56              | 174                             | 14923       | -               | 565  | 466    | 18095 | 2819     | 15276  |  |
| 1996-97 | 1218                         | 39              | 214                             | 14635       | -               | 386  | 820    | 17312 | 1951     | 15361  |  |
| 1997-98 | 1134                         | 43              | 225                             | 18701       | -               | 487  | 592    | 21182 | 1978     | 19204  |  |

Note:- Mormugao was declared as Major Port during 1962-63.

# 2.2.8 Cargo Traffic (Commodity-Wise) Handled At New Mangalore Port

('000 Tonnes)

| Year    | POL<br>(Crude &<br>Products) | Fertiliser<br>Material | Fertiliser<br>Raw grains | Food-<br>grains | Coal | Iron<br>Ore | Others | Total | Of which | Unloaded | Loaded |
|---------|------------------------------|------------------------|--------------------------|-----------------|------|-------------|--------|-------|----------|----------|--------|
| (1)     | (2)                          | (3)                    | (4)                      | (5)             | (6)  | (7)         | (8)    | (9)   | (10)     | (11)     |        |
| 1980-81 | 310                          | 207                    | -                        | 4               | ...  | 3           | 439    | 963   | 639      | 324      |        |
| 1981-82 | 364                          | 180                    | -                        | 152             | ...  | 547         | 399    | 1642  | 821      | 821      |        |
| 1982-83 | 351                          | 153                    | -                        | 22              | ...  | 1122        | 624    | 2272  | 851      | 1421     |        |
| 1983-84 | 348                          | 211                    | -                        | 141             | ...  | 1231        | 906    | 2837  | 1242     | 1595     |        |
| 1984-85 | 437                          | 247                    | -                        | 83              | ...  | 1727        | 888    | 3382  | 995      | 2387     |        |
| 1985-86 | 412                          | 219                    | -                        | -               | ...  | 2260        | 795    | 3686  | 996      | 2690     |        |
| 1986-87 | 533                          | 165                    | -                        | -               | ...  | 3873        | 660    | 5431  | 1197     | 4234     |        |
| 1987-88 | 461                          | 93                     | -                        | -               | ...  | 4357        | 1197   | 6108  | 1305     | 4803     |        |
| 1988-89 | 571                          | 46                     | -                        | 62              | ...  | 5011        | 1394   | 7084  | 1567     | 5517     |        |
| 1989-90 | 577                          | 115                    | 77                       | -               | ...  | 5877        | 1015   | 7661  | 1294     | 6367     |        |
| 1990-91 | 612                          | 83                     | 99                       | -               | ...  | 6125        | 1103   | 8022  | 1363     | 6659     |        |
| 1991-92 | 622                          | 141                    | 175                      | -               | ...  | 6493        | 843    | 8274  | 1298     | 6976     |        |
| 1992-93 | 630                          | 241                    | 115                      | 258             | ...  | 5082        | 762    | 7088  | 1530     | 5558     |        |
| 1993-94 | 646                          | 106                    | 130                      | 19              | ...  | 7060        | 669    | 8630  | 1245     | 7385     |        |
| 1994-95 | 742                          | 87                     | 162                      | -               | ...  | 6080        | 934    | 8005  | 1640     | 6365     |        |
| 1995-96 | 957                          | 205                    | 115                      | -               | 41   | 6639        | 927    | 8864  | 1683     | 7001     |        |
| 1996-97 | 5069                         | 222                    | 163                      | 106             | 19   | 5945        | 929    | 12453 | 4479     | 7974     |        |
| 1997-98 | 6963                         | 242                    | 203                      | 325             | 99   | 6536        | 914    | 15282 | 6098     | 9184     |        |

2.2.9 Cargo Traffic (Commodity-Wise) Handled at Cochin Port

| Year    | ('000 Tonnes) |                                    |                 |                                 |                 |      |        |       |          |        |
|---------|---------------|------------------------------------|-----------------|---------------------------------|-----------------|------|--------|-------|----------|--------|
|         | (1)           | (2)                                | (3)             | (4)                             | (5)             | (6)  | (7)    | (8)   | Of which |        |
|         |               |                                    |                 |                                 |                 |      |        |       | Unloaded | Loaded |
|         |               | POL<br>(Crude & liser<br>Products) | Ferti-<br>liser | Fertili-<br>ser Raw<br>Material | Food-<br>grains | Coal | Others | Total |          |        |
|         | (1)           | (2)                                | (3)             | (4)                             | (5)             | (6)  | (7)    | (8)   | (9)      | (10)   |
| 1960-61 |               | 670                                | 156             | ...                             | 76              | 345  | 763    | 2010  | 1622     | 388    |
| 1970-71 |               | 3568                               | 258             | ...                             | 104             | -    | 882    | 4812  | 3447     | 1365   |
| 1980-81 |               | 3964                               | 662             | ...                             | 15              | -    | 592    | 5233  | 4112     | 1121   |
| 1981-82 |               | 4177                               | 531             | ...                             | 105             | -    | 688    | 5501  | 4203     | 1298   |
| 1982-83 |               | 4299                               | 544             | ...                             | 91              | -    | 776    | 5710  | 4471     | 1239   |
| 1983-84 |               | 3675                               | 503             | ...                             | 106             | -    | 720    | 5004  | 4102     | 902    |
| 1984-85 |               | 2611                               | 784             | ...                             | 49              | -    | 631    | 4075  | 3677     | 398    |
| 1985-86 |               | 3863                               | 769             | ...                             | 5               | -    | 640    | 5277  | 4557     | 720    |
| 1986-87 |               | 5432                               | 139             | 734                             | 15              | -    | 563    | 6883  | 5600     | 1283   |
| 1987-88 |               | 5366                               | 110             | 757                             | 23              | -    | 546    | 6802  | 5585     | 1217   |
| 1988-89 |               | 6268                               | 139             | 549                             | 175             | -    | 693    | 7824  | 6541     | 1283   |
| 1989-90 |               | 5589                               | 209             | 680                             | 45              | -    | 601    | 7124  | 6053     | 1071   |
| 1990-91 |               | 5804                               | 181             | 684                             | 40              | -    | 566    | 7275  | 6251     | 1024   |
| 1991-92 |               | 5881                               | 148             | 821                             | 19              | -    | 612    | 7481  | 6433     | 1048   |
| 1992-93 |               | 6222                               | 136             | 800                             | 90              | -    | 730    | 7978  | 6864     | 1114   |
| 1993-94 |               | 6101                               | 39              | 704                             | -               | -    | 776    | 7620  | 6351     | 1269   |
| 1994-95 |               | 6635                               | 95              | 816                             | -               | -    | 1085   | 8631  | 7193     | 1438   |
| 1995-96 |               | 9416                               | 194             | 803                             | 9               | -    | 1081   | 11503 | 9125     | 2378   |
| 1996-97 |               | 9218                               | 194             | 786                             | 32              | 119  | 1393   | 11742 | 9487     | 2255   |
| 1997-98 |               | 9613                               | 160             | 688                             | 164             | 141  | 1557   | 12323 | 9781     | 2542   |

# 2.2.10 Cargo Traffic (Commodity-wise) Handled At Tuticorin Port

('000 Tonnes)

| Year    | POL<br>(Crude & Diesel<br>Products) | Ferti-<br>liser | Fertiliz-<br>er's Rawgrains<br>Material | Food-<br>grains | Coal | Others | Total | Of which |      |
|---------|-------------------------------------|-----------------|-----------------------------------------|-----------------|------|--------|-------|----------|------|
| (1)     | (2)                                 | (3)             | (4)                                     | (5)             | (6)  | (7)    | (8)   | (9)      | (10) |
| 1980-81 | 444                                 | 438             | 147                                     | 80              | 737  | 714    | 2560  | 2117     | 443  |
| 1981-82 | 471                                 | 235             | 191                                     | 198             | 1045 | 527    | 2667  | 2390     | 277  |
| 1982-83 | 520                                 | 137             | 243                                     | -               | 1594 | 734    | 3228  | 2843     | 385  |
| 1983-84 | 425                                 | 154             | 365                                     | 50              | 1659 | 895    | 3548  | 2969     | 579  |
| 1984-85 | 509                                 | 509             | 511                                     | 114             | 1759 | 365    | 3767  | 3603     | 164  |
| 1985-86 | 336                                 | 451             | 473                                     | -               | 2409 | 552    | 4221  | 4016     | 205  |
| 1986-87 | 327                                 | 132             | 478                                     | -               | 2802 | 391    | 4130  | 3968     | 162  |
| 1987-88 | 364                                 | 106             | 320                                     | 70              | 2904 | 497    | 4261  | 3973     | 288  |
| 1988-89 | 468                                 | 145             | 532                                     | 408             | 2981 | 591    | 5125  | 4852     | 273  |
| 1989-90 | 476                                 | 434             | 231                                     | 159             | 2926 | 1098   | 5324  | 4900     | 424  |
| 1990-91 | 470                                 | 288             | 327                                     | 110             | 2635 | 1245   | 5075  | 4541     | 534  |
| 1991-92 | 496                                 | 302             | 442                                     | 75              | 3116 | 1437   | 5868  | 5099     | 769  |
| 1992-93 | 510                                 | 378             | 431                                     | 189             | 3162 | 1545   | 6215  | 5408     | 807  |
| 1993-94 | 463                                 | 205             | 209                                     | 29              | 3937 | 1857   | 6700  | 5606     | 1094 |
| 1994-95 | 417                                 | 221             | 463                                     | -               | 4495 | 2445   | 8041  | 6876     | 1165 |
| 1995-96 | 434                                 | 412             | 376                                     | 16              | 5620 | 2428   | 9286  | 7955     | 1331 |
| 1996-97 | 466                                 | 259             | 364                                     | 131             | 5493 | 2461   | 9174  | 7611     | 1563 |
| 1997-98 | 459                                 | 512             | 711                                     | 146             | 5578 | 2568   | 9974  | 8414     | 1560 |

2.2.11 Cargo Traffic (Commodity- Wise) Handled At Chennai Port

| Year    | ('000 Tonnes)                      |               |                                   |                 |             |       |        |       |          |        |
|---------|------------------------------------|---------------|-----------------------------------|-----------------|-------------|-------|--------|-------|----------|--------|
|         | POL<br>(Crude & Liser<br>Products) | Ferti-<br>(3) | Fertili-<br>ser's Raw<br>Material | Food-<br>grains | Iron<br>Ore | Coal  | Others | Total | Of which |        |
|         |                                    |               |                                   |                 |             |       |        |       | Unloaded | Loaded |
| (1)     | (2)                                | (3)           | (4)                               | (5)             | (6)         | (7)   | (8)    | (9)   | (10)     | (11)   |
| 1960-61 | 601                                | 210           | 25                                | 444             | 484         | 363   | 912    | 3039  | 2128     | 911    |
| 1970-71 | 2697                               | 300           | 165                               | 721             | 2149        | 15    | 878    | 6925  | 3737     | 3188   |
| 1980-81 | 4525                               | 612           | 422                               | 220             | 2748        | 62    | 1786   | 10375 | 6412     | 3963   |
| 1981-82 | 4789                               | 581           | 176                               | 341             | 3371        | 76    | 2075   | 11409 | 6796     | 4613   |
| 1982-83 | 5479                               | 669           | ...                               | 535             | 3169        | 16    | 2206   | 12074 | 7446     | 4628   |
| 1983-84 | 6584                               | 239           | 421                               | 667             | 3216        | 168   | 1541   | 12836 | 7832     | 5004   |
| 1984-85 | 7114                               | 590           | 563                               | 312             | 4283        | 106   | 1164   | 14132 | 8050     | 6082   |
| 1985-86 | 9191                               | 700           | 277                               | 136             | 4768        | 204   | 2872   | 18148 | 11107    | 7041   |
| 1986-87 | 6724                               | 620           | 259                               | 98              | 5304        | 781   | 5989   | 19775 | 10801    | 8974   |
| 1987-88 | 7337                               | 373           | 317                               | 45              | 5400        | 1866  | 7481   | 22819 | 12598    | 10221  |
| 1988-89 | 8769                               | 410           | 326                               | 471             | 5746        | 2616  | 5225   | 23863 | 13749    | 10114  |
| 1989-90 | 8455                               | 422           | 311                               | 137             | 6046        | 3643  | 4893   | 23907 | 14097    | 9810   |
| 1990-91 | 8162                               | 501           | 343                               | 65              | 5549        | 4353  | 5545   | 24518 | 15000    | 9518   |
| 1991-92 | 8649                               | 544           | 288                               | 77              | 5406        | 5051  | 5031   | 25046 | 15064    | 9982   |
| 1992-93 | 8632                               | 582           | 271                               | 242             | 4838        | 5588  | 5178   | 25331 | 16286    | 9045   |
| 1993-94 | 9143                               | 858           | 288                               | 89              | 4540        | 5857  | 5766   | 26541 | 16879    | 9662   |
| 1994-95 | 11942                              | 834           | 403                               | 10              | 5149        | 6448  | 4678   | 29464 | 19247    | 10217  |
| 1995-96 | 11419                              | 963           | 374                               | 32              | 4951        | 7530  | 5452   | 30721 | 20433    | 10288  |
| 1996-97 | 11762                              | 520           | 343                               | 107             | 4665        | 8796  | 5655   | 31848 | 21933    | 9915   |
| 1997-98 | 11585                              | 946           | 428                               | 162             | 6232        | 10463 | 5715   | 35531 | 24029    | 11502  |

# 2.2.12 Cargo Traffic (Commodity-Wise) Handled At Visakhapatnam Port

| Year    | POL<br>(Crude & other<br>Products) | Fertl-<br>iser | Fertili-<br>ser's Raw<br>Material | Food-<br>grains | Iron<br>Ore | Coal | Others | Total | Of which |        |
|---------|------------------------------------|----------------|-----------------------------------|-----------------|-------------|------|--------|-------|----------|--------|
|         |                                    |                |                                   |                 |             |      |        |       | Unloaded | Loaded |
| (1)     | (2)                                | (3)            | (4)                               | (5)             | (6)         | (7)  | (8)    | (9)   | (10)     | (11)   |
| 1960-61 | 1566                               | 5              | 1                                 | 311             | 118         | 18   | 744    | 2763  | 1386     | 1377   |
| 1970-71 | 1666                               | 204            | 418                               | 223             | 4935        | -    | 1287   | 8733  | 2325     | 6408   |
| 1980-81 | 2386                               | 397            | 424                               | 127             | 5657        | 353  | 779    | 10123 | 3999     | 6124   |
| 1981-82 | 2113                               | 98             | 497                               | 466             | 6194        | 433  | 1194   | 10995 | 4008     | 6987   |
| 1982-83 | 2108                               | 512            | ..                                | 349             | 5526        | 805  | 916    | 10216 | 4150     | 6066   |
| 1983-84 | 3126                               | 81             | 445                               | 438             | 4967        | 365  | 460    | 9882  | 4295     | 5587   |
| 1984-85 | 3470                               | 386            | 518                               | 107             | 5776        | 701  | 124    | 11082 | 4752     | 6330   |
| 1985-86 | 6274                               | 299            | 671                               | 82              | 5727        | 1737 | 1121   | 15911 | 8941     | 6970   |
| 1986-87 | 5307                               | 164            | 540                               | 263             | 5881        | 976  | 1904   | 15035 | 7195     | 7840   |
| 1987-88 | 5566                               | 108            | 642                               | 34              | 5585        | 2516 | 920    | 15371 | 7561     | 7810   |
| 1988-89 | 6999                               | 145            | 701                               | 265             | 6930        | 3810 | 1522   | 20372 | 10340    | 10032  |
| 1989-90 | 6828                               | 410            | 1115                              | 113             | 6791        | 4221 | 1639   | 21117 | 10410    | 10707  |
| 1990-91 | 5598                               | 459            | 1290                              | -               | 5496        | 4889 | 1689   | 19421 | 10322    | 9099   |
| 1991-92 | 6384                               | 504            | 1325                              | 27              | 6161        | 5648 | 1473   | 21522 | 10431    | 11091  |
| 1992-93 | 7592                               | 484            | 1336                              | 171             | 4960        | 6021 | 2201   | 22765 | 12774    | 9991   |
| 1993-94 | 7498                               | 682            | 1092                              | 46              | 5230        | 6624 | 4423   | 25595 | 12930    | 12665  |
| 1994-95 | 11237                              | 790            | 1337                              | 3               | 5551        | 7771 | 3340   | 30029 | 15837    | 14192  |
| 1995-96 | 12575                              | 1104           | 1235                              | 353             | 5710        | 8203 | 3637   | 32817 | 17611    | 15206  |
| 1996-97 | 13422                              | 489            | 1134                              | 405             | 5948        | 9057 | 4043   | 34498 | 21214    | 13284  |
| 1997-98 | 12116                              | 1039           | 1214                              | 300             | 6050        | 9934 | 5361   | 36014 | 21826    | 14188  |

2.2.13 Cargo Traffic (Commodity-Wise) Handled At Paradip Port

| Year    | ('000 Tonnes) |                              |                 |                                   |                 |             |      |        |                 |      |          |
|---------|---------------|------------------------------|-----------------|-----------------------------------|-----------------|-------------|------|--------|-----------------|------|----------|
|         | (1)           | (2)                          | (3)             | (4)                               | (5)             | (6)         | (7)  | (8)    | Total           |      | Of which |
|         |               |                              |                 |                                   |                 |             |      |        |                 |      |          |
|         |               | POI<br>(Crude &<br>Products) | Ferti-<br>liser | Fertili-<br>ser's Raw<br>Material | Food-<br>grains | Iron<br>Ore | Coal | Others | Unloaded Loaded |      |          |
|         |               |                              |                 |                                   |                 |             |      |        | (9)             | (10) | (11)     |
| 1970-71 |               |                              | -               | -                                 | -               | 2134        | -    | 23     | 2157            | 1    | 2156     |
| 1980-81 |               |                              | 88              | -                                 | -               | 1817        | 73   | 263    | 2241            | 307  | 1934     |
| 1981-82 |               |                              | 84              | -                                 | -               | 1637        | 173  | 336    | 2230            | 414  | 1816     |
| 1982-83 |               |                              | 26              | -                                 | 47              | 984         | 331  | 184    | 1572            | 524  | 1048     |
| 1983-84 |               |                              | 47              | -                                 | 148             | 990         | 25   | 158    | 1368            | 319  | 1049     |
| 1984-85 |               |                              | 37              | -                                 | 12              | 1607        | 148  | 333    | 2137            | 193  | 1944     |
| 1985-86 |               |                              | 135             | 50                                | -               | 1868        | 869  | 409    | 3331            | 957  | 2374     |
| 1986-87 |               |                              | 61              | 494                               | -               | 2079        | 1511 | 708    | 4853            | 2001 | 2852     |
| 1987-88 |               |                              | 9               | 470                               | -               | 1709        | 2305 | 694    | 5187            | 2252 | 2935     |
| 1988-89 |               |                              | -               | 648                               | 50              | 1678        | 2394 | 1262   | 6032            | 2777 | 3255     |
| 1989-90 |               |                              | 157             | 301                               | 6               | 2059        | 2709 | 952    | 6184            | 2460 | 3724     |
| 1990-91 |               |                              | 100             | 508                               | 11              | 1748        | 3614 | 903    | 6884            | 2839 | 4045     |
| 1991-92 |               |                              | 87              | 773                               | 1               | 1524        | 3954 | 958    | 7297            | 2880 | 4417     |
| 1992-93 |               |                              | 142             | 647                               | 3               | 1346        | 4542 | 926    | 7606            | 2428 | 5178     |
| 1993-94 |               |                              | 192             | 534                               | Neg.            | 1518        | 4845 | 1238   | 8327            | 2581 | 5746     |
| 1994-95 |               |                              | 125             | 691                               | -               | 1881        | 5830 | 1594   | 10121           | 3491 | 6630     |
| 1995-96 | 1066          |                              | 134             | 956                               | 20              | 1691        | 5909 | 1483   | 11259           | 4200 | 7059     |
| 1996-97 | 1693          |                              | 102             | 699                               | 26              | 1381        | 6513 | 1166   | 11580           | 3859 | 7721     |
| 1997-98 | 1737          |                              | 116             | 1066                              | -               | 1435        | 7852 | 1096   | 13302           | 4488 | 8814     |

2.2.14 Cargo Traffic (Commodity-Wise) Handled At Calcutta/Haldia Port

('000 Tonnes)

| Year    | POL<br>(Crude &<br>Products) | Fertl-<br>liser | Fertill-<br>ser's Raw<br>Material | Food-<br>grains | Iron<br>Ore | Coal | Others | Total | Of which |        |
|---------|------------------------------|-----------------|-----------------------------------|-----------------|-------------|------|--------|-------|----------|--------|
|         |                              |                 |                                   |                 |             |      |        |       | Unloaded | Loaded |
| (1)     | (2)                          | (3)             | (4)                               | (5)             | (6)         | (7)  | (8)    | (9)   | (10)     | (11)   |
| 1960-61 | 1409                         | 51              | 74                                | 1800            | 731         | 1385 | 3941   | 9391  | 5492     | 3899   |
| 1970-71 | 1405                         | 3               | 111                               | 852             | 430         | 660  | 2504   | 5965  | 3247     | 2718   |
| 1980-81 | 5154                         | 559             | 116                               | 68              | 13          | 885  | 2477   | 9272  | 6988     | 2284   |
| 1981-82 | 4505                         | 349             | 191                               | 172             | 13          | 1421 | 2823   | 9474  | 6763     | 2711   |
| 1982-83 | 4595                         | 346             | -                                 | 423             | 10          | 2129 | 2741   | 10244 | 6984     | 3260   |
| 1983-84 | 4754                         | 207             | 194                               | 938             | 20          | 1947 | 1954   | 10014 | 6864     | 3150   |
| 1984-85 | 5092                         | 560             | 238                               | 204             | 6           | 1708 | 2460   | 10268 | 6979     | 3289   |
| 1985-86 | 6059                         | 471             | 300                               | -               | -           | 2319 | 2979   | 12128 | 8657     | 3471   |
| 1986-87 | 5722                         | 371             | 232                               | 75              | -           | 2481 | 3191   | 12072 | 8192     | 3880   |
| 1987-88 | 5912                         | 183             | 298                               | 116             | -           | 3132 | 3430   | 13071 | 8836     | 4235   |
| 1988-89 | 6469                         | 239             | 291                               | 447             | -           | 3605 | 3172   | 14223 | 9695     | 4528   |
| 1989-90 | 6436                         | 384             | 388                               | 193             | -           | 4178 | 3110   | 14689 | 9756     | 4933   |
| 1990-91 | 7257                         | 231             | 457                               | 92              | -           | 4134 | 2782   | 14953 | 10416    | 4537   |
| 1991-92 | 7690                         | 275             | 479                               | 60              | -           | 4603 | 2893   | 16000 | 11253    | 4747   |
| 1992-93 | 8940                         | 313             | 527                               | 117             | -           | 5068 | 3372   | 18337 | 12915    | 5422   |
| 1993-94 | 8696                         | 224             | 288                               | 103             | -           | 5434 | 3751   | 18496 | 12217    | 6279   |
| 1994-95 | 9731                         | 150             | 413                               | 25              | -           | 5841 | 4375   | 20535 | 14082    | 6453   |
| 1995-96 | 10742                        | 162             | 579                               | 107             | -           | 5922 | 4003   | 21515 | 15115    | 6400   |
| 1996-97 | 10981                        | 73              | 559                               | 17              | -           | 7147 | 4347   | 23124 | 16228    | 6896   |
| 1997-98 | 14337                        | 66              | 636                               | 42              | -           | 7741 | 5335   | 28157 | 19659    | 8498   |

# 2.2.15 Cargo Traffic (Overseas/Coastal) At Various Major Ports

('000 Tonnes)

|          | P O R T S                                                               |       |      |       |       |      |      |       |       |      |       |        |    |    |
|----------|-------------------------------------------------------------------------|-------|------|-------|-------|------|------|-------|-------|------|-------|--------|----|----|
| Year     | Kandla :<br>Mumbai :<br>J.L. :<br>Mormu :<br>Nehru :<br>gao :<br>lore : | 1     | 2    | 3     | 4     | 5    | 6    | 7     | 8     | 9    | 10    | 11     | 12 | 13 |
| OVERSEAS |                                                                         |       |      |       |       |      |      |       |       |      |       |        |    |    |
| 1985-86  | 9375                                                                    | 14170 | -    | 15657 | 3225  | 2301 | 1508 | 13548 | 11051 | 3049 | 8664  | 82548  |    |    |
| 1986-87  | 8897                                                                    | 13626 | -    | 14222 | 4885  | 2636 | 1069 | 15193 | 10625 | 4194 | 8018  | 83365  |    |    |
| 1987-88  | 10314                                                                   | 16349 | -    | 12718 | 5669  | 3554 | 964  | 16930 | 10866 | 4171 | 8565  | 90100  |    |    |
| 1988-89  | 11078                                                                   | 16227 | -    | 14865 | 6546  | 3639 | 1742 | 15789 | 14883 | 5052 | 9370  | 99191  |    |    |
| 1989-90  | 11704                                                                   | 16455 | 697  | 13511 | 7179  | 2965 | 1935 | 15426 | 14927 | 4892 | 9698  | 99389  |    |    |
| 1990-91  | 13634                                                                   | 16363 | 2022 | 14212 | 7284  | 2518 | 1969 | 15518 | 13820 | 4940 | 10372 | 102652 |    |    |
| 1991-92  | 14683                                                                   | 14321 | 2794 | 14175 | 7130  | 3020 | 2225 | 15439 | 14834 | 4928 | 11248 | 104797 |    |    |
| 1992-93  | 18487                                                                   | 18379 | 3007 | 15251 | 6465  | 3194 | 2544 | 15841 | 17597 | 4220 | 12383 | 117368 |    |    |
| 1993-94  | 21182                                                                   | 22045 | 3387 | 17567 | 7792  | 3047 | 2351 | 16997 | 18555 | 4641 | 11937 | 129501 |    |    |
| 1994-95  | 21822                                                                   | 20605 | 4933 | 17445 | 6937  | 3861 | 3202 | 17884 | 20156 | 5778 | 13155 | 135778 |    |    |
| 1995-96  | 25982                                                                   | 22712 | 6873 | 17482 | 7605  | 4706 | 4100 | 20952 | 21249 | 6335 | 14105 | 152101 |    |    |
| 1996-97  | 28691                                                                   | 23919 | 7446 | 16416 | 10097 | 5687 | 3279 | 20331 | 23050 | 5551 | 15411 | 159878 |    |    |
| 1997-98  | 33457                                                                   | 22828 | 8470 | 20236 | 12264 | 6485 | 4333 | 23185 | 22682 | 6055 | 19004 | 178999 |    |    |
| 1997-98  | 33457                                                                   | 22828 | 8470 | 20236 | 12264 | 6485 | 4333 | 23185 | 22682 | 6055 | 19004 | 178999 |    |    |
| COASTAL  |                                                                         |       |      |       |       |      |      |       |       |      |       |        |    |    |
| 1985-86  | 7111                                                                    | 10140 | -    | 458   | 461   | 2976 | 2713 | 4600  | 4860  | 282  | 3464  | 37065  |    |    |
| 1986-87  | 7297                                                                    | 11448 | -    | 697   | 546   | 4247 | 3061 | 4582  | 4410  | 659  | 4054  | 41001  |    |    |
| 1987-88  | 7769                                                                    | 13219 | -    | 614   | 439   | 3248 | 3297 | 5889  | 4505  | 1016 | 4506  | 44502  |    |    |
| 1988-89  | 6729                                                                    | 13115 | -    | 524   | 538   | 4185 | 3383 | 8074  | 5489  | 980  | 4853  | 47870  |    |    |
| 1989-90  | 7221                                                                    | 11291 | -    | 657   | 482   | 4159 | 3389 | 8514  | 6190  | 1292 | 4991  | 48186  |    |    |
| 1990-91  | 6051                                                                    | 12536 | -    | 699   | 738   | 4757 | 3106 | 9000  | 5601  | 1944 | 4581  | 49013  |    |    |
| 1991-92  | 6319                                                                    | 11940 | -    | 924   | 1144  | 4461 | 3643 | 9607  | 6688  | 2369 | 4752  | 51847  |    |    |
| 1992-93  | 4423                                                                    | 10567 | -    | 1063  | 623   | 4784 | 3671 | 9490  | 5168  | 3386 | 5954  | 49129  |    |    |
| 1993-94  | 3318                                                                    | 8461  | -    | 1150  | 838   | 4573 | 4349 | 9544  | 7040  | 3686 | 6559  | 49518  |    |    |
| 1994-95  | 4680                                                                    | 10068 | 75   | 1436  | 1068  | 4770 | 4839 | 11580 | 9873  | 4343 | 7380  | 60112  |    |    |
| 1995-96  | 4357                                                                    | 11204 | -    | 613   | 1279  | 6797 | 5186 | 9769  | 11568 | 4924 | 7410  | 63107  |    |    |
| 1996-97  | 5039                                                                    | 9520  | 623  | 896   | 2356  | 6055 | 5895 | 11517 | 11448 | 6029 | 7713  | 67091  |    |    |
| 1997-98  | 5444                                                                    | 9269  | 425  | 946   | 3018  | 5838 | 5641 | 12346 | 13332 | 7247 | 9153  | 72659  |    |    |

## ('000 Tonnes)

-73-

2.2.16 Cargo Traffic (Unloaded/Loaded) At Various Major Ports

('000 Tonnes)

2.2.16 Cargo Traffic (Unloaded/loaded) At Various Major Ports (Contd.)

('000 Tonnes)

| Year         | Kandla | Mumbai | J.L.  | Morim | N.Manga- | Cochin | Tutl- | Chennai | Visakh | Paradip | Calcutta | Total  |
|--------------|--------|--------|-------|-------|----------|--------|-------|---------|--------|---------|----------|--------|
|              | :      | :      | :     | :     | :        | :      | :     | :       | :      | :       | :        | :      |
|              | :      | :      | Nehru | gao   | lore     | :      | corin | :       | patnam | :       | /Haldia  | :      |
| 1            | 2      | 3      | 4     | 5     | 6        | 7      | 8     | 9       | 10     | 11      | 12       | 13     |
| <b>TOTAL</b> |        |        |       |       |          |        |       |         |        |         |          |        |
| 1985-86      | 16486  | 24310  | -     | 16115 | 3686     | 5277   | 4221  | 18148   | 15911  | 3331    | 12128    | 119613 |
| 1986-87      | 16194  | 25074  | -     | 14919 | 5431     | 6883   | 4130  | 19775   | 15035  | 4853    | 12072    | 124366 |
| 1987-88      | 18083  | 29568  | -     | 13332 | 6108     | 6802   | 4261  | 22819   | 15371  | 5187    | 13071    | 134602 |
| 1988-89      | 17807  | 29342  | -     | 15389 | 7084     | 3824   | 5125  | 23863   | 20372  | 6032    | 14223    | 147061 |
| 1989-90      | 18925  | 27746  | 697   | 14168 | 7661     | 7124   | 5324  | 23940   | 21117  | 6184    | 14689    | 147575 |
| 1990-91      | 19685  | 28899  | 2022  | 14911 | 8022     | 7275   | 5075  | 24518   | 19421  | 6884    | 14953    | 151665 |
| 1991-92      | 21002  | 26261  | 2794  | 15099 | 8274     | 7481   | 5868  | 25046   | 21522  | 7297    | 16000    | 156644 |
| 1992-93      | 22910  | 28946  | 3007  | 16314 | 7088     | 7978   | 6215  | 25331   | 22765  | 7606    | 18337    | 166497 |
| 1993-94      | 24500  | 30506  | 3387  | 18717 | 8630     | 7620   | 6700  | 26541   | 25595  | 8327    | 18496    | 179019 |
| 1994-95      | 26502  | 30673  | 5008  | 18881 | 8005     | 8631   | 8041  | 29464   | 30029  | 10121   | 20535    | 195890 |
| 1995-96      | 30339  | 33916  | 6873  | 18095 | 8884     | 11503  | 9286  | 30721   | 32817  | 11259   | 21515    | 215208 |
| 1996-97      | 33730  | 33439  | 8069  | 17312 | 12453    | 11742  | 9174  | 31848   | 34498  | 11580   | 23124    | 226969 |
| 1997-98      | 38901  | 32097  | 8895  | 21182 | 15282    | 12323  | 9974  | 35531   | 36014  | 13302   | 28157    | 251658 |

### 2.2.2.17 Cargo Traffic Handled At Major Ports in India

('000 tonnes)

| PORT/<br>YEAR | OVERSEAS   |          | COASTAL |            | OVERSEAS & COASTAL |         |            |          |         |
|---------------|------------|----------|---------|------------|--------------------|---------|------------|----------|---------|
|               | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded           | : Total | : Unloaded | : Loaded | : Total |
| (1)           | (2)        | (3)      | (4)     | (5)        | (6)                | (7)     | (8)        | (9)      | (10)    |
| KANDLA        |            |          |         |            |                    |         |            |          |         |
| 1970-71       | 801        | 106      | 907     | 673        | 32                 | 705     | 1474       | 138      | 1612    |
| 1975-76       | 2105       | 254      | 2359    | 819        | 25                 | 844     | 2924       | 279      | 3203    |
| 1980-81       | 6871       | 488      | 7359    | 1319       | 83                 | 1402    | 8190       | 571      | 8761    |
| 1985-86       | 8445 ✓     | 930      | 9375    | 6730       | 381                | 7111    | 15175      | 1311     | 16486   |
| 1988-89       | 9837       | 1241     | 11078   | 6602       | 127                | 6729    | 16439      | 1368     | 17807   |
| 1989-90       | 9834       | 1870     | 11704   | 6921       | 300                | 7221    | 16755      | 2170     | 18925   |
| 1990-91       | 11367      | 2267     | 13634   | 5904       | 147                | 6051    | 17271      | 2414     | 19685   |
| 1991-92       | 12047      | 2636     | 14683   | 6101       | 218                | 6319    | 18148      | 2854     | 21002   |
| 1992-93       | 16235      | 2252     | 18487   | 4268       | 155                | 4423    | 20503      | 2407     | 22910   |
| 1993-94       | 17736      | 3446     | 21182   | 3217       | 101                | 3318    | 20953      | 3547     | 24500   |
| 1994-95       | 18771      | 3051     | 21822   | 3880       | 800                | 4680    | 22651      | 3851     | 26502   |
| 1995-96       | 21626      | 4356     | 25982   | 4247       | 110                | 4357    | 25873      | 4466     | 30339   |
| 1996-97       | 24360      | 4331     | 28691   | 4907       | 132                | 5039    | 29267      | 4463     | 33730   |
| 1997-98       | 29755      | 3702     | 33457   | 5266       | 178                | 5444    | 35021      | 3880     | 38901   |
| MUMBAI        |            |          |         |            |                    |         |            |          |         |
| 1970-71       | 9663       | 1891     | 11554   | 1310       | 1506               | 2816    | 10973      | 3397     | 14370   |
| 1975-76       | 11630      | 2591     | 14221   | 1024       | 1405               | 2429    | 12654      | 3996     | 16650   |
| 1980-81       | 10725      | 1907     | 12632   | 2484       | 1862               | 4346    | 13209      | 3769     | 16978   |
| 1985-86       | 11168      | 3002     | 14170   | 779        | 9361               | 10140   | 11947      | 12363    | 24310   |
| 1988-89       | 13106      | 3121     | 16227   | 461        | 12654              | 13115   | 13567      | 15775    | 29342   |
| 1989-90       | 12846      | 3609     | 16455   | 295        | 10996              | 11291   | 13141      | 14605    | 27746   |
| 1990-91       | 13125      | 3238     | 16363   | 594        | 11942              | 12536   | 13719      | 15180    | 28899   |
| 1991-92       | 11082      | 3239     | 14321   | 424        | 11516              | 11940   | 11506      | 14755    | 26261   |
| 1992-93       | 15116      | 3263     | 18379   | 116        | 10451              | 10567   | 15232      | 13714    | 28946   |
| 1993-94       | 17233      | 4812     | 22045   | 205        | 8256               | 8461    | 17438      | 13068    | 30506   |
| 1994-95       | 16030      | 4575     | 20605   | 132        | 9936               | 10068   | 16162      | 14511    | 30673   |
| 1995-96       | 16990      | 5722     | 22712   | 330        | 10874              | 11204   | 17320      | 16596    | 33916   |
| 1996-97       | 17790      | 6129     | 23919   | 580        | 8940               | 9520    | 18370      | 15069    | 33439   |
| 1997-98       | 17618      | 5210     | 22828   | 1690       | 7579               | 9269    | 19308      | 12789    | 32097   |

2.2.17 Cargo Traffic Handled At Major Ports in India(Contd.)

('000 tonnes)

| PORT/<br>YEAR      | OVERSEAS | Total | Unloaded | Loaded | COASTAL | Total | Unloaded | Loaded | Total |
|--------------------|----------|-------|----------|--------|---------|-------|----------|--------|-------|
| (1)                | (2)      | (3)   | (4)      | (5)    | (6)     | (7)   | (8)      | (9)    | (10)  |
| <b>J. L. NEHRU</b> |          |       |          |        |         |       |          |        |       |
| 1989-90            | 507      | 190   | 697      | -      | -       | -     | 507      | 190    | 697   |
| 1990-91            | 1645     | 377   | 2022     | -      | -       | -     | 1645     | 377    | 2022  |
| 1991-92            | 2061     | 733   | 2794     | -      | -       | -     | 2061     | 733    | 2794  |
| 1992-93            | 2105     | 902   | 3007     | -      | -       | -     | 2105     | 902    | 3007  |
| 1993-94            | 2088     | 1299  | 3387     | -      | -       | -     | 2088     | 1299   | 3387  |
| 1994-95            | 3215     | 1718  | 4933     | 75     | -       | 75    | 3290     | 1718   | 5008  |
| 1995-96            | 4314     | 2559  | 6873     | -      | -       | -     | 4314     | 2559   | 6873  |
| 1996-97            | 4185     | 3261  | 7446     | 623    | -       | 623   | 4808     | 3261   | 8069  |
| 1997-98            | 5052     | 3418  | 8470     | 321    | 104     | 425   | 5373     | 3522   | 8895  |
| <b>MOROGAO</b>     |          |       |          |        |         |       |          |        |       |
| 1970-71            | 86       | 10652 | 10738    | 267    | -       | 267   | 353      | 10652  | 11005 |
| 1975-76            | 216      | 12093 | 12309    | 459    | -       | 459   | 675      | 12093  | 12768 |
| 1980-81            | 621      | 12921 | 13542    | 222    | -       | 222   | 843      | 12921  | 13764 |
| 1985-86            | 1163     | 14494 | 15657    | 458    | -       | 458   | 1621     | 14494  | 16115 |
| 1988-89            | 1279     | 13586 | 14865    | 504    | 20      | 524   | 1783     | 13606  | 15389 |
| 1989-90            | 847      | 12664 | 13511    | 636    | 21      | 657   | 1483     | 12685  | 14168 |
| 1990-91            | 1058     | 13154 | 14212    | 663    | 36      | 699   | 1721     | 13190  | 14911 |
| 1991-92            | 1660     | 12515 | 14175    | 736    | 188     | 924   | 2396     | 12703  | 15099 |
| 1992-93            | 1720     | 13531 | 15251    | 674    | 389     | 1063  | 2394     | 13920  | 16314 |
| 1993-94            | 1910     | 15657 | 17567    | 625    | 525     | 1150  | 2535     | 16182  | 18717 |
| 1994-95            | 2024     | 15421 | 17445    | 708    | 728     | 1436  | 2732     | 16149  | 18881 |
| 1995-96            | 2336     | 15146 | 17482    | 483    | 130     | 613   | 2819     | 15276  | 18095 |
| 1996-97            | 1156     | 15260 | 16416    | 795    | 101     | 896   | 1951     | 15361  | 17312 |
| 1997-98            | 1122     | 19114 | 20236    | 856    | 90      | 946   | 1978     | 19204  | 21182 |

### 2.2.17 Cargo Traffic Handled At Major Ports in India (Contd.)

('000 tonnes)

| PORT/<br>YEAR | OVERSEAS  |         | COASTAL |           | OVERSEAS & COASTAL |        |           |         |        |  |
|---------------|-----------|---------|---------|-----------|--------------------|--------|-----------|---------|--------|--|
|               | :Unloaded | :Loaded | :Total  | :Unloaded | :Loaded            | :Total | :Unloaded | :Loaded | :Total |  |
| (1)           | (2)       | (3)     | (4)     | (5)       | (6)                | (7)    | (8)       | (9)     | (10)   |  |
| NEW MANGALORE |           |         |         |           |                    |        |           |         |        |  |
| 1975-76       | 151       | 125     | 276     | 55        | 8                  | 63     | 206       | 133     | 339    |  |
| 1980-81       | 332       | 319     | 651     | 307       | 5                  | 312    | 639       | 324     | 963    |  |
| 1985-86       | 603       | 2622    | 3225    | 393       | 68                 | 461    | 996       | 2690    | 3686   |  |
| 1988-89       | 1054      | 5492    | 6546    | 513       | 25                 | 538    | 1567      | 5517    | 7084   |  |
| 1989-90       | 812       | 6367    | 7179    | 482       | 0                  | 482    | 1294      | 6367    | 7661   |  |
| 1990-91       | 799       | 6485    | 7284    | 564       | 174                | 738    | 1363      | 6659    | 8022   |  |
| 1991-92       | 660       | 6470    | 7130    | 638       | 506                | 1144   | 1298      | 6976    | 8274   |  |
| 1992-93       | 935       | 5530    | 6465    | 595       | 28                 | 623    | 1530      | 5558    | 7088   |  |
| 1993-94       | 637       | 7155    | 7792    | 608       | 230                | 838    | 1245      | 7385    | 8630   |  |
| 1994-95       | 958       | 5979    | 6937    | 682       | 386                | 1068   | 1640      | 6365    | 8005   |  |
| 1995-96       | 1077      | 6528    | 7605    | 806       | 473                | 1279   | 1883      | 7001    | 8884   |  |
| 1996-97       | 4202      | 5895    | 10097   | 277       | 2079               | 2356   | 4479      | 7974    | 12453  |  |
| 1997-98       | 5823      | 6441    | 12264   | 275       | 2743               | 3018   | 6098      | 9184    | 15282  |  |
| COCHIN        |           |         |         |           |                    |        |           |         |        |  |
| 1970-71       | 3292      | 451     | 3743    | 155       | 914                | 1069   | 3447      | 1365    | 4812   |  |
| 1975-76       | 2913      | 334     | 3247    | 408       | 603                | 1011   | 3321      | 937     | 4258   |  |
| 1980-81       | 3517      | 290     | 3807    | 595       | 831                | 1426   | 4112      | 1121    | 5233   |  |
| 1985-86       | 1803      | 498     | 2301    | 2754      | 222                | 2976   | 4557      | 720     | 5277   |  |
| 1988-89       | 2959      | 680     | 3639    | 3582      | 603                | 4185   | 6541      | 1283    | 7824   |  |
| 1989-90       | 2483      | 482     | 2965    | 3570      | 589                | 4159   | 6053      | 1071    | 7124   |  |
| 1990-91       | 2138      | 380     | 2518    | 4113      | 644                | 4757   | 6251      | 1024    | 7275   |  |
| 1991-92       | 2566      | 454     | 3020    | 3867      | 594                | 4461   | 6433      | 1048    | 7481   |  |
| 1992-93       | 2601      | 593     | 3194    | 4263      | 521                | 4784   | 6864      | 1114    | 7978   |  |
| 1993-94       | 2322      | 725     | 3047    | 4029      | 544                | 4573   | 6351      | 1269    | 7620   |  |
| 1994-95       | 2947      | 914     | 3861    | 4246      | 524                | 4770   | 7193      | 1438    | 8631   |  |
| 1995-96       | 3522      | 1184    | 4706    | 5603      | 1194               | 6797   | 9125      | 2378    | 11503  |  |
| 1996-97       | 4497      | 1190    | 5687    | 4990      | 1065               | 6055   | 9487      | 2255    | 11742  |  |
| 1997-98       | 5447      | 1038    | 6485    | 4334      | 1504               | 5838   | 9781      | 2542    | 12323  |  |

# 2.2.17 Cargo Traffic Handled At Major Ports in India (Contd.)

('000 tonnes)

| PORT/<br>YEAR    | OVERSEAS   |          |         | COASTAL    |          |         | OVERSEAS & COASTAL |          |         |
|------------------|------------|----------|---------|------------|----------|---------|--------------------|----------|---------|
|                  | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded | : Total | : Unloaded         | : Loaded | : Total |
| (1)              | (2)        | (3)      | (4)     | (5)        | (6)      | (7)     | (8)                | (9)      | (10)    |
| <b>TUTICORIN</b> |            |          |         |            |          |         |                    |          |         |
| 1975-76          | 498        | 288      | 786     | 424        | 156      | 580     | 922                | 444      | 1366    |
| 1980-81          | 1038       | 140      | 1178    | 1079       | 303      | 1382    | 2117               | 443      | 2560    |
| 1985-86          | 1348       | 160      | 1508    | 2668       | 45       | 2713    | 4016               | 205      | 4221    |
| 1988-89          | 1507       | 235      | 1742    | 3345       | 38       | 3383    | 4852               | 273      | 5125    |
| 1989-90          | 1523       | 412      | 1935    | 3377       | 12       | 3389    | 4900               | 424      | 5324    |
| 1990-91          | 1448       | 521      | 1969    | 3093       | 13       | 3106    | 4541               | 534      | 5075    |
| 1991-92          | 1474       | 751      | 2225    | 3625       | 18       | 3643    | 5099               | 769      | 5868    |
| 1992-93          | 1742       | 802      | 2544    | 3666       | 5        | 3671    | 5408               | 807      | 6215    |
| 1993-94          | 1258       | 1093     | 2351    | 4348       | 1        | 4349    | 5606               | 1094     | 6700    |
| 1994-95          | 2047       | 1155     | 3202    | 4829       | 10       | 4839    | 6876               | 1165     | 8041    |
| 1995-96          | 2788       | 1312     | 4100    | 5167       | 19       | 5186    | 7955               | 1331     | 9286    |
| 1996-97          | 1734       | 1545     | 3279    | 5877       | 18       | 5895    | 7611               | 1563     | 9174    |
| 1997-98          | 2791       | 1542     | 4333    | 5623       | 18       | 5641    | 8414               | 1560     | 9974    |
| <b>CHENNAI</b>   |            |          |         |            |          |         |                    |          |         |
| 1975-76          | 4799       | 2612     | 7411    | 288        | 184      | 472     | 5087               | 2796     | 7883    |
| 1980-81          | 6226       | 3382     | 9608    | 186        | 581      | 767     | 6412               | 3963     | 10375   |
| 1985-86          | 7628       | 5920     | 13548   | 3479       | 1121     | 4600    | 11107              | 7041     | 18148   |
| 1988-89          | 7305       | 8484     | 15789   | 6444       | 1630     | 8074    | 13749              | 10114    | 23863   |
| 1989-90          | 6939       | 8487     | 15426   | 7158       | 1356     | 8514    | 14097              | 9843     | 23940   |
| 1990-91          | 7313       | 8205     | 15518   | 7687       | 1313     | 9000    | 15000              | 9518     | 24518   |
| 1991-92          | 6757       | 8682     | 15439   | 8307       | 1300     | 9607    | 15064              | 9982     | 25046   |
| 1992-93          | 8197       | 7644     | 15841   | 8089       | 1401     | 9490    | 16286              | 9045     | 25331   |
| 1993-94          | 8487       | 8510     | 16997   | 8392       | 1152     | 9544    | 16879              | 9662     | 26541   |
| 1994-95          | 9451       | 8433     | 17884   | 9796       | 1784     | 11580   | 19247              | 10217    | 29464   |
| 1995-96          | 11693      | 9259     | 20952   | 8740       | 1029     | 9769    | 20433              | 10288    | 30721   |
| 1996-97          | 11603      | 8728     | 20331   | 10330      | 1187     | 11517   | 21933              | 9915     | 31848   |
| 1997-98          | 12730      | 10455    | 23185   | 11299      | 1047     | 12346   | 24029              | 11502    | 35531   |



### 2.2.2.17 Cargo Traffic Handled At Major Ports In India(Contd..)

('000 tonnes)

| PORT/<br>YEAR   | OVERSEAS | COASTAL | OVERSEAS & COASTAL           |       |       |       |        |       |        |
|-----------------|----------|---------|------------------------------|-------|-------|-------|--------|-------|--------|
| :<br>: Unloaded | : Loaded | : Total | : Unloaded : Loaded : Total  |       |       |       |        |       |        |
| (1)             | (2)      | (3)     | (4) (5) (6) (7) (8) (9) (10) |       |       |       |        |       |        |
| CALCUTTA/HALDIA |          |         |                              |       |       |       |        |       |        |
| 1975-76         | 3810     | 2019    | 5829                         | 669   | 1165  | 1834  | 4479   | 3184  | 7663   |
| 1980-81         | 5983     | 1137    | 7120                         | 1005  | 1147  | 2152  | 6988   | 2284  | 9272   |
| 1985-86         | 7841     | 823     | 8664                         | 816   | 2648  | 3464  | 8657   | 3471  | 12128  |
| 1988-89         | 8545     | 825     | 9370                         | 1150  | 3703  | 4853  | 9695   | 4528  | 14223  |
| 1989-90         | 8701     | 997     | 9698                         | 1055  | 3936  | 4991  | 9756   | 4933  | 14689  |
| 1990-91         | 9366     | 1006    | 10372                        | 1050  | 3531  | 4581  | 10416  | 4537  | 14953  |
| 1991-92         | 10125    | 1123    | 11248                        | 1128  | 3624  | 4752  | 11253  | 4747  | 16000  |
| 1992-93         | 11017    | 1366    | 12383                        | 1898  | 4056  | 5954  | 12915  | 5422  | 18337  |
| 1993-94         | 10261    | 1676    | 11937                        | 1956  | 4603  | 6559  | 12217  | 6279  | 18496  |
| 1994-95         | 11600    | 1555    | 13155                        | 2482  | 4898  | 7380  | 14082  | 6453  | 20535  |
| 1995-96         | 12283    | 1822    | 14105                        | 2832  | 4578  | 7410  | 15115  | 6400  | 21515  |
| 1996-97         | 13505    | 1906    | 15411                        | 2723  | 4990  | 7713  | 16228  | 6896  | 23124  |
| 1997-98         | 16757    | 2247    | 19004                        | 2902  | 6251  | 9153  | 19659  | 8498  | 28157  |
| ALL PORTS       |          |         |                              |       |       |       |        |       |        |
| 1975-76         | 29124    | 29043   | 58167                        | 4209  | 3628  | 7837  | 33333  | 32671 | 66004  |
| 1980-81         | 39090    | 28503   | 67593                        | 7726  | 4951  | 12677 | 46816  | 33454 | 80270  |
| 1985-86         | 45818    | 36730   | 82548                        | 22156 | 14909 | 37065 | 67974  | 51639 | 119613 |
| 1988-89         | 55401    | 43790   | 99191                        | 25909 | 21961 | 47870 | 81310  | 65751 | 147061 |
| 1989-90         | 54134    | 45255   | 99389                        | 26722 | 21464 | 48186 | 80856  | 66719 | 147575 |
| 1990-91         | 59023    | 43629   | 102652                       | 26065 | 22948 | 49013 | 85088  | 66577 | 151665 |
| 1991-92         | 59909    | 44888   | 104797                       | 26660 | 25187 | 51847 | 86569  | 70075 | 156644 |
| 1992-93         | 74086    | 43282   | 117368                       | 24353 | 24776 | 49129 | 98439  | 68058 | 166497 |
| 1993-94         | 76017    | 53484   | 129501                       | 24806 | 24712 | 49516 | 100823 | 78196 | 179019 |
| 1994-95         | 83601    | 52177   | 135778                       | 29600 | 30512 | 60112 | 113201 | 82689 | 195890 |
| 1995-96         | 94858    | 57243   | 152101                       | 31790 | 31317 | 63107 | 126648 | 88560 | 215208 |
| 1996-97         | 102572   | 57306   | 159878                       | 36635 | 30456 | 67091 | 139207 | 87762 | 226969 |
| 1997-98         | 117359   | 61640   | 178999                       | 38616 | 34043 | 72659 | 155975 | 95683 | 251658 |

**2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports**

|                   |  | ('000 tonnes) |         |         |           |         |        |           |         |        |  |
|-------------------|--|---------------|---------|---------|-----------|---------|--------|-----------|---------|--------|--|
| PORT/<br>YEAR     |  | 1995-96       |         | 1996-97 |           | 1997-98 |        |           |         |        |  |
|                   |  | :Unloaded     | :Loaded | :Total  | :Unloaded | :Loaded | :Total | :Unloaded | :Loaded | :Total |  |
| (1)               |  | (2)           | (3)     | (4)     | (5)       | (6)     | (7)    | (8)       | (9)     | (10)   |  |
| <b>KANDLA</b>     |  | 21626         | 4356    | 25982   | 24360     | 4331    | 28691  | 29755     | 3702    | 33457  |  |
| POL- Crude        |  | 8590          | -       | 8590    | 8524      | -       | 8524   | 10330     | -       | 10330  |  |
| POL- Products     |  | 7748          | 456     | 8204    | 11654     | 27      | 11681  | 13488     | -       | 13488  |  |
| Fertilizer        |  | 676           | -       | 676     | 366       | -       | 366    | 732       | -       | 732    |  |
| Fertilizer'Raw    |  |               |         |         |           |         |        |           |         |        |  |
| Material (Dry)    |  | 399           | -       | 399     | 651       | -       | 651    | 660       | -       | 660    |  |
| Fertilizer'Raw    |  |               |         |         |           |         |        |           |         |        |  |
| Material (liquid) |  | 703           | -       | 703     | 684       | -       | 684    | 890       | -       | 890    |  |
| Foodgrains        |  | 13            | 2025    | 2038    | 42        | 1909    | 1951   | 287       | 1099    | 1386   |  |
| Iron & Steel      |  | 216           | 5       | 221     | 205       | 44      | 249    | 386       | 54      | 440    |  |
| Iron Scrap        |  | 278           | -       | 278     | 395       | -       | 395    | 174       | -       | 174    |  |
| Sugar             |  | -             | -       | -       | -         | 64      | 64     | 33        | 45      | 78     |  |
| Veg. Oil &        |  |               |         |         |           |         |        |           |         |        |  |
| Animal fats       |  | 215           | 235     | 450     | 194       | 122     | 316    | 148       | 134     | 282    |  |
| Salt              |  | -             | 193     | 193     | -         | 118     | 118    | -         | 90      | 90     |  |
| Other Commodities |  | 2788          | 1442    | 4230    | 1645      | 2047    | 3692   | 2627      | 2280    | 4907   |  |

# 2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd.)

| PORT/<br>YEAR     | ('000 tonnes) |          |         |            |          |         |            |          |         |  |
|-------------------|---------------|----------|---------|------------|----------|---------|------------|----------|---------|--|
|                   | 1995-96       | 1996-97  | 1997-98 |            |          |         |            |          |         |  |
|                   | : Unloaded    | : Loaded | : Total | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded | : Total |  |
| (1)               | (2)           | (3)      | (4)     | (5)        | (6)      | (7)     | (8)        | (9)      | (10)    |  |
| <b>MUMBAI</b>     | 16990         | 5722     | 22712   | 17790      | 6129     | 23919   | 17618      | 5210     | 22828   |  |
| POL Crude         | 4505          | -        | 4505    | 5877       | -        | 5877    | 5595       | -        | 5595    |  |
| POL- Products     | 4777          | 734      | 5511    | 3807       | 740      | 4547    | 2617       | 235      | 2852    |  |
| Fertilizer        | 105           | -        | 105     | 79         | -        | 79      | 88         | -        | 88      |  |
| Fertilizers' Raw  | 735           | -        | 735     | 628        | -        | 628     | 814        | -        | 814     |  |
| Material (Dry)    | -             | -        | -       | -          | -        | -       | -          | -        | -       |  |
| Fertilizers' Raw  | -             | -        | -       | -          | -        | -       | -          | -        | -       |  |
| Material (Liquid) | -             | -        | -       | -          | -        | -       | -          | -        | -       |  |
| Foodgrains        | 446           | 763      | 1209    | 582        | 445      | 1027    | 877        | 239      | 1116    |  |
| Iron & Steel      | 1736          | 190      | 1926    | 1466       | 241      | 1707    | 1767       | 340      | 2107    |  |
| Veg. Oil & animal | 574           | 76       | 650     | 725        | 85       | 810     | 611        | 76       | 687     |  |
| fats              | -             | -        | -       | -          | -        | -       | -          | -        | -       |  |
| Iron Scrap        | 173           | -        | 173     | 183        | -        | 183     | 129        | -        | 129     |  |
| Cement            | -             | -        | -       | -          | -        | -       | -          | -        | -       |  |
| Sugar             | 45            | 41       | 86      | 4          | 127      | 131     | 116        | 7        | 123     |  |
| Other Commodities | 3894          | 3918     | 7812    | 4439       | 4491     | 8930    | 5004       | 4313     | 9317    |  |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd.)

| PORT/<br>YEAR           | ('000 tonnes) |         |         |          |        |       |          |        |       |  |
|-------------------------|---------------|---------|---------|----------|--------|-------|----------|--------|-------|--|
|                         | 1995-96       | 1996-97 | 1997-98 |          |        |       |          |        |       |  |
|                         | (2)           | (3)     | (4)     | (5)      | (6)    | (7)   | (8)      | (9)    | (10)  |  |
|                         | Unloaded      | Loaded  | Total   | Unloaded | Loaded | Total | Unloaded | Loaded | Total |  |
| (1)                     |               |         |         |          |        |       |          |        |       |  |
| <b>JAWAHARLAL NEHRU</b> | 4314          | 2559    | 6873    | 4185     | 3261   | 7446  | 5052     | 3418   | 8470  |  |
| POL-Crude               | -             | -       | -       | -        | -      | -     | 514      | -      | 514   |  |
| POL-Product             | 139           | -       | 139     | 252      | -      | 252   | 167      | -      | 167   |  |
| Fertiliser              | 1716          | -       | 1716    | 984      | -      | 984   | 881      | -      | 881   |  |
| Fert. Raw               | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Material (Dry)          | 179           | -       | 179     | 302      | -      | 302   | -        | -      | -     |  |
| Fert. Raw               | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Material (Liquid)       | -             | -       | -       | 61       | -      | 61    | 75       | -      | 75    |  |
| Iron Ore                | 416           | 232     | 648     | 199      | 137    | 336   | 261      | 80     | 341   |  |
| Foodgrains              | -             | 58      | 58      | 232      | 148    | 380   | 355      | -      | 355   |  |
| Other Commodities       | 1864          | 2259    | 4123    | 2155     | 2976   | 5131  | 2799     | 3338   | 6137  |  |
| <b>MORMUGAO</b>         | 2336          | 15146   | 17482   | 1156     | 15260  | 16416 | 1122     | 19114  | 20236 |  |
| POL-Product             | 1456          | -       | 1456    | 463      | -      | 463   | 316      | -      | 316   |  |
| Fertilizer              | 56            | -       | 56      | 39       | -      | 39    | 43       | -      | 43    |  |
| Fertilizer Raw          | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Material (Dry)          | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Fertilizer Raw          | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Material (Liquid)       | 174           | -       | 174     | 214      | -      | 214   | 225      | -      | 225   |  |
| Foodgrains              | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Coal/Coke               | 556           | 8       | 564     | 359      | 25     | 384   | 442      | 41     | 483   |  |
| Iron Ore                | -             | 14805   | 14805   | -        | 14550  | 14550 | -        | 18625  | 18625 |  |
| Other Ore               | -             | 150     | 150     | -        | 204    | 204   | -        | 220    | 220   |  |
| Other Commodities       | 94            | 183     | 277     | 81       | 481    | 562   | 96       | 228    | 324   |  |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd..)

| PORT/<br>YEAR        | ('000 tonnes) |          |         |          |          |         |          |          |         |  |
|----------------------|---------------|----------|---------|----------|----------|---------|----------|----------|---------|--|
|                      | 1995-96       | 1996-97  | 1997-98 |          |          |         |          |          |         |  |
|                      | Unloaded      | : Loaded | : Total | Unloaded | : Loaded | : Total | Unloaded | : Loaded | : Total |  |
| (1)                  | (2)           | (3)      | (4)     | (5)      | (6)      | (7)     | (8)      | (9)      | (10)    |  |
| <b>NEW MANGALORE</b> | 1077          | 6528     | 7605    | 4202     | 5895     | 10097   | 5823     | 6441     | 12264   |  |
| POL-Crude            | 161           | -        | 161     | 2927     | -        | 2927    | 3826     | -        | 3826    |  |
| POL-Products         | 21            | -        | 21      | 267      | 21       | 288     | 483      | 93       | 576     |  |
| Fertilizer           | 205           | -        | 205     | 222      | -        | 222     | 242      | -        | 242     |  |
| Fertilizer Raw       |               |          |         |          |          |         |          |          |         |  |
| Material (Dry)       | 16            | -        | 16      | 29       | -        | 29      | 37       | -        | 37      |  |
| Fertilizer Raw       |               |          |         |          |          |         |          |          |         |  |
| Material (Liquid)    | 99            | -        | 99      | 134      | -        | 134     | 166      | -        | 166     |  |
| Foodgrains           | -             | -        | -       | 106      | -        | 106     | 325      | -        | 325     |  |
| Iron scrap           | -             | -        | -       | 22       | -        | 22      | -        | -        | -       |  |
| Coal                 | 41            | -        | 41      | 19       | -        | 19      | 99       | -        | 99      |  |
| Iron Ore &           |               |          |         |          |          |         |          |          |         |  |
| Pellets              | -             | 6168     | 6168    | -        | 5484     | 5484    | -        | 6107     | 6107    |  |
| Other Ore            | -             | 35       | 35      | -        | -        | -       | -        | -        | -       |  |
| Coffee               | -             | -        | -       | -        | -        | -       | -        | -        | -       |  |
| Other Commodities    | 534           | 325      | 859     | 476      | 390      | 866     | 645      | 241      | 886     |  |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd.)

| PORT/<br>YEAR     | ('000 tonnes) |                  |          |                  |          |                  |          |                  |          |                  |
|-------------------|---------------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|
|                   | 1995-96       |                  | 1996-97  |                  | 1997-98  |                  |          |                  |          |                  |
|                   | Unloaded      | : Loaded : Total | Unloaded | : Loaded : Total | Unloaded | : Loaded : Total | Unloaded | : Loaded : Total | Unloaded | : Loaded : Total |
| (1)               | (2)           | (3)              | (4)      | (5)              | (6)      | (7)              | (8)      | (9)              | (10)     | (11)             |
| <b>COCHIN</b>     | 3522          | 1184             | 4706     | 4497             | 1190     | 5687             | 5447     | 1038             | 6485     |                  |
| POL- Crude        | 2052          | -                | 2052     | 2532             | -        | 2532             | 3280     | -                | 3280     |                  |
| POL- Products     | 97            | 515              | 612      | 294              | 388      | 682              | 300      | 283              | 583      |                  |
| Fertilizer        | 194           | -                | 194      | 194              | -        | 194              | 160      | -                | 160      |                  |
| Fertilizer 'Raw-  |               |                  |          |                  |          |                  |          |                  |          |                  |
| Material (Dry)    | 341           | -                | 341      | 344              | -        | 344              | 282      | -                | 282      |                  |
| Fertilizer 'Raw-  |               |                  |          |                  |          |                  |          |                  |          |                  |
| Material (Liq.)   | 462           | -                | 462      | 442              | -        | 442              | 406      | -                | 406      |                  |
| Foodgrains        | 4             | 5                | 9        | 27               | 5        | 32               | 164      | -                | 164      |                  |
| Iron & Steel      | 21            | 4                | 25       | 58               | 4        | 62               | 43       | 3                | 46       |                  |
| Veg. Oil & animal |               |                  |          |                  |          |                  |          |                  |          |                  |
| fats              | -             | -                | -        | -                | -        | -                | -        | -                | -        |                  |
| Tea               | -             | 72               | 72       | -                | 76       | 76               | -        | 96               | 96       |                  |
| Coffee            | -             | 112              | 112      | -                | 122      | 122              | -        | 105              | 105      |                  |
| Coal              | -             | -                | -        | 119              | -        | 119              | 141      | -                | 141      |                  |
| Cashewnuts/Cashew |               |                  |          |                  |          |                  |          |                  |          |                  |
| Kernels           | 10            | 37               | 47       | 58               | 46       | 104              | 91       | 48               | 139      |                  |
| Other Commodities | 341           | 439              | 780      | 429              | 549      | 978              | 580      | 503              | 1083     |                  |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd..)

| PORT/<br>YEAR     | ('000 tonnes) |          |         |          |          |         |          |          |         |  |
|-------------------|---------------|----------|---------|----------|----------|---------|----------|----------|---------|--|
|                   | 1995-96       | 1996-97  | 1997-98 |          |          |         |          |          |         |  |
|                   | Unloaded      | : Loaded | : Total | Unloaded | : Loaded | : Total | Unloaded | : Loaded | : Total |  |
| (1)               | (2)           | (3)      | (4)     | (5)      | (6)      | (7)     | (8)      | (9)      | (10)    |  |
| <b>TUTICORIN</b>  | 2788          | 1312     | 4100    | 1734     | 1545     | 3279    | 2791     | 1542     | 4333    |  |
| POL-Product       | -             | -        | -       | 48       | -        | 48      | 65       | -        | 65      |  |
| Fertilizer        | 412           | -        | 412     | 259      | -        | 259     | 512      | -        | 512     |  |
| Fertilizer 'Raw   |               |          |         |          |          |         |          |          |         |  |
| Material (Dry)    | 241           | -        | 241     | 256      | -        | 256     | 221      | -        | 221     |  |
| Fertilizer 'Raw   |               |          |         |          |          |         |          |          |         |  |
| Material (Liquid) | 135           | -        | 135     | 108      | -        | 108     | 490      | -        | 490     |  |
| Iron Scrap        | 1             | -        | 1       | 49       | -        | 49      | 36       | -        | 36      |  |
| Coal              | 914           | -        | 914     | 72       | -        | 72      | 391      | -        | 391     |  |
| Tea/Coffee        | -             | 17       | 17      | -        | 20       | 20      | -        | 11       | 11      |  |
| Salt              | -             | 18       | 18      | -        | 109      | 109     | -        | 116      | 116     |  |
| Foodgrains        | -             | 16       | 16      | 84       | 47       | 131     | 146      | -        | 146     |  |
| Other Commodities | 1085          | 1261     | 2346    | 858      | 1369     | 2227    | 930      | 1415     | 2345    |  |

### 2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd...)

| PORT/<br>YEAR          | ('000 tonnes)               |                             |                             |       |      |       |       |       |       |     |     |      |
|------------------------|-----------------------------|-----------------------------|-----------------------------|-------|------|-------|-------|-------|-------|-----|-----|------|
|                        | 1995-96                     | 1996-97                     | 1997-98                     |       |      |       |       |       |       |     |     |      |
|                        | : Unloaded : Loaded : Total | : Unloaded : Loaded : Total | : Unloaded : Loaded : Total | (2)   | (3)  | (4)   | (5)   | (6)   | (7)   | (8) | (9) | (10) |
| CHENNAI                | 11693                       | 9259                        | 20952                       | 11603 | 8728 | 20331 | 12730 | 10455 | 23185 |     |     |      |
| POL- Crude             | 5770                        | 860                         | 6630                        | 5908  | 510  | 6418  | 6758  | 675   | 7433  |     |     |      |
| POL- Products          | 26                          | 465                         | 491                         | 42    | 505  | 547   | 25    | 514   | 539   |     |     |      |
| Fertilizer             | 963                         | -                           | 963                         | 520   | -    | 520   | 946   | -     | 946   |     |     |      |
| Fertilizers'Raw        |                             |                             |                             |       |      |       |       |       |       |     |     |      |
| Materials (Dry)        | 374                         | -                           | 374                         | 343   | -    | 343   | 428   | -     | 428   |     |     |      |
| Fertilizers'Raw        |                             |                             |                             |       |      |       |       |       |       |     |     |      |
| Materials (Liquid)     | -                           | -                           | -                           | -     | -    | -     | -     | -     | -     |     |     |      |
| Foodgrains             | 8                           | 17                          | 25                          | 27    | 73   | 100   | 82    | 72    | 154   |     |     |      |
| Iron & Steel           | 295                         | 71                          | 366                         | 332   | 97   | 429   | 267   | 118   | 385   |     |     |      |
| Veg. Oil & animal fats | 146                         | -                           | 146                         | 330   | -    | 330   | 377   | -     | 377   |     |     |      |
| Iron Ore               | -                           | 4951                        | 4951                        | -     | 4665 | 4665  | -     | 6232  | 6232  |     |     |      |
| Chemicals              | 175                         | 89                          | 264                         | 431   | 100  | 531   | 450   | 117   | 567   |     |     |      |
| Iron Scrap             | 463                         | -                           | 463                         | 450   | -    | 450   | 377   | 21    | 398   |     |     |      |
| Coal                   | 1896                        | -                           | 1896                        | 1911  | -    | 1911  | 1483  | -     | 1483  |     |     |      |
| Coke                   | 388                         | -                           | 388                         | 332   | -    | 332   | 385   | -     | 385   |     |     |      |
| Other Commodities      | 1189                        | 2806                        | 3995                        | 977   | 2778 | 3755  | 1152  | 2706  | 3858  |     |     |      |

# 2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd.)

| PORT/<br>YEAR          | ('000 tonnes) |         |         |          |        |       |          |        |       |  |
|------------------------|---------------|---------|---------|----------|--------|-------|----------|--------|-------|--|
|                        | 1995-96       | 1996-97 | 1997-98 |          |        |       |          |        |       |  |
|                        | Unloaded      | Loaded  | Total   | Unloaded | Loaded | Total | Unloaded | Loaded | Total |  |
| (1)                    | (2)           | (3)     | (4)     | (5)      | (6)    | (7)   | (8)      | (9)    | (10)  |  |
| <b>VISAKHAPATNAM</b>   | 14094         | 7155    | 21249   | 15807    | 7243   | 23050 | 15885    | 6797   | 22682 |  |
| POL- Crude             | 3816          | -       | 3816    | 4479     | -      | 4479  | 3226     | -      | 3226  |  |
| POL- Products          | 1720          | 424     | 2144    | 3186     | 411    | 3597  | 3139     | 124    | 3263  |  |
| Fertilizers            | 1104          | -       | 1104    | 489      | -      | 489   | 1039     | -      | 1039  |  |
| Fertilizer Raw         | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Materials (Dry)        | 845           | -       | 845     | 789      | -      | 789   | 947      | -      | 947   |  |
| Fertilizer Raw         | -             | -       | -       | -        | -      | -     | -        | -      | -     |  |
| Materials (Liquid)     | 390           | -       | 390     | 345      | -      | 345   | 267      | -      | 267   |  |
| Foodgrains             | -             | 353     | 353     | 206      | 199    | 405   | 222      | 78     | 300   |  |
| Iron & Steel           | 78            | 824     | 902     | 24       | 1314   | 1338  | -        | 848    | 848   |  |
| Coal                   | 5099          | -       | 5099    | 5196     | -      | 5196  | 5523     | -      | 5523  |  |
| Coke                   | 60            | -       | 60      | 151      | -      | 151   | 433      | -      | 433   |  |
| Iron Ore               | -             | 3954    | 3954    | -        | 3988   | 3988  | -        | 3740   | 3740  |  |
| Chemicals              | 99            | -       | 99      | 99       | -      | 99    | 97       | -      | 97    |  |
| Iron scrap             | 24            | -       | 24      | -        | -      | -     | -        | -      | -     |  |
| Veg. Oil & animal fats | 137           | -       | 137     | 247      | -      | 247   | 159      | -      | 159   |  |
| Other Commodities      | 722           | 1600    | 2322    | 596      | 1331   | 1927  | 833      | 2007   | 2840  |  |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd...)

| PORT/<br>YEAR      | ('000 tonnes)     |                   |                   |       |       |       |       |       |       |       |
|--------------------|-------------------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|
|                    | 1995-96           | 1996-97           | 1997-98           |       |       |       |       |       |       |       |
|                    | Unloaded : Loaded | Unloaded : Loaded | Unloaded : Loaded | Total | Total | Total | Total | Total | Total | Total |
| (1)                | (2)               | (3)               | (4)               | (5)   | (6)   | (7)   | (8)   | (9)   | (10)  |       |
| <b>PARADIP</b>     | 4135              | 2200              | 6335              | 3733  | 1818  | 5551  | 4379  | 1676  | 6055  |       |
| POL-Product        | 623               | -                 | 623               | 932   | -     | 932   | 987   | -     | 987   |       |
| Fertilizers        | 134               | -                 | 134               | 102   | -     | 102   | 116   | -     | 116   |       |
| Fertilizer Raw     |                   |                   |                   |       |       |       |       |       |       |       |
| Materials (Dry)    | 366               | -                 | 366               | 172   | -     | 172   | 377   | -     | 377   |       |
| Fertilizer Raw     |                   |                   |                   |       |       |       |       |       |       |       |
| Materials (Liquid) | 590               | -                 | 590               | 527   | -     | 527   | 689   | -     | 689   |       |
| Foodgrains         | -                 | 20                | 20                | -     | 26    | 26    | -     | -     | -     |       |
| Iron & Steel       | -                 | -                 | -                 | -     | -     | -     | -     | 19    | 19    |       |
| Coal               | 1677              | -                 | 1677              | 1507  | -     | 1507  | 1507  | -     | 1507  |       |
| Coke               | -                 | -                 | -                 | -     | -     | -     | 265   | -     | 265   |       |
| Iron Ore           | -                 | 1665              | 1665              | -     | 1119  | 1119  | -     | -     | -     |       |
| Iron scrap         | -                 | -                 | -                 | -     | -     | -     | -     | 1018  | 1018  |       |
| Other Commodities  | 745               | 515               | 1260              | 493   | 673   | 1166  | 438   | 639   | 1077  |       |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd.)

| PORT/<br>YEAR       | ('000 tonnes) |         |       |          |        |         |          |        |       |  |
|---------------------|---------------|---------|-------|----------|--------|---------|----------|--------|-------|--|
|                     | 1             | 1995-96 | 1     | 1996-97  | 1      | 1997-98 |          |        |       |  |
|                     | Unloaded      | Loaded  | Total | Unloaded | Loaded | Total   | Unloaded | Loaded | Total |  |
| (1)                 | (2)           | (3)     | (4)   | (5)      | (6)    | (7)     | (8)      | (9)    | (10)  |  |
| <b>CALCUTTA</b>     | 1757          | 1565    | 3322  | 1773     | 1532   | 3305    | 4138     | 1471   | 5609  |  |
| POL- Crude          | -             | -       | -     | -        | -      | -       | 1650     | -      | 1650  |  |
| POL- Products       | 83            | -       | 83    | 58       | -      | 58      | 82       | -      | 82    |  |
| Fertilizer          | 119           | -       | 119   | 42       | -      | 42      | 45       | -      | 45    |  |
| Fertilizer Raw      | -             | -       | -     | -        | -      | -       | -        | -      | -     |  |
| Material (Dry)      | 88            | -       | 88    | 50       | -      | 50      | 65       | -      | 65    |  |
| Fertilizer Raw      | -             | -       | -     | -        | -      | -       | -        | -      | -     |  |
| Material (Liquid)   | -             | -       | -     | -        | -      | -       | -        | -      | -     |  |
| Foodgrains          | 20            | 63      | 83    | -        | 8      | 8       | 8        | 25     | 33    |  |
| Iron & Steel        | 148           | 301     | 449   | 191      | 303    | 494     | 171      | 264    | 435   |  |
| Veg. Oil &          | -             | -       | -     | -        | -      | -       | -        | -      | -     |  |
| animal fats         | 147           | -       | 147   | 176      | -      | 176     | 248      | 5      | 253   |  |
| Cement              | -             | -       | -     | -        | -      | -       | -        | -      | -     |  |
| Chemicals           | 68            | -       | 68    | 101      | 7      | 108     | 129      | -      | 129   |  |
| Tea                 | -             | 69      | 69    | -        | 73     | 73      | -        | 57     | 57    |  |
| Coal                | -             | -       | -     | -        | -      | -       | 44       | -      | 44    |  |
| Sugar               | 20            | 12      | 32    | -        | -      | -       | 109      | -      | 109   |  |
| Jute & its products | -             | 132     | 132   | -        | 226    | 226     | -        | 270    | 270   |  |
| Other Commodities   | 1064          | 988     | 2052  | 1155     | 915    | 2070    | 1587     | 850    | 2437  |  |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd...)

| PORT/<br>YEAR         | ('000 tonnes) |         |         |       |     |       |       |     |       |      |
|-----------------------|---------------|---------|---------|-------|-----|-------|-------|-----|-------|------|
|                       | 1995-96       | 1996-97 | 1997-98 |       |     |       |       |     |       |      |
|                       | (1)           | (2)     | (3)     | (4)   | (5) | (6)   | (7)   | (8) | (9)   | (10) |
| HALDIA                | 10526         | 257     | 10783   | 11732 | 374 | 12106 | 12619 | 776 | 13395 |      |
| POL- Crude            | 3604          | -       | 3604    | 3713  | -   | 3713  | 5201  | -   | 5201  |      |
| POL- Products         | 3131          | -       | 3131    | 3421  | -   | 3421  | 2632  | 65  | 2697  |      |
| Fertilizer            | 43            | -       | 43      | 31    | -   | 31    | 21    | -   | 21    |      |
| Fertilizer Raw        |               |         |         |       |     |       |       |     |       |      |
| Materials (Dry)       | 276           | -       | 276     | 240   | -   | 240   | 281   | -   | 281   |      |
| Fertilizer Raw        |               |         |         |       |     |       |       |     |       |      |
| Materials (Liquid)    | 215           | -       | 215     | 269   | -   | 269   | 290   | -   | 290   |      |
| Foodgrains            | 1             | 23      | 24      | 9     | 9   | 9     | -     | 9   | 9     |      |
| Iron & Steel          | 5             | 170     | 175     | 3     | 189 | 192   | 43    | 341 | 384   |      |
| Iron scrap (Pig Iron) | -             | -       | -       | 8     | -   | 8     | -     | 90  | 90    |      |
| Coking Coal & Coke    | 2800          | 5       | 2805    | 3498  | 21  | 3519  | 3547  | 14  | 3561  |      |
| Cement                | -             | -       | -       | -     | -   | -     | -     | -   | -     |      |
| Tea                   | -             | 32      | 32      | -     | 37  | 37    | -     | 41  | 41    |      |
| Other Commodities     | 451           | 27      | 478     | 549   | 118 | 667   | 604   | 216 | 820   |      |

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports (Contd.)

| PORT/<br>YEAR          | ('000 tonnes) |          |         |            |          |         |            |          |         |  |
|------------------------|---------------|----------|---------|------------|----------|---------|------------|----------|---------|--|
|                        | 1995-96       | 1996-97  | 1997-98 |            |          |         |            |          |         |  |
|                        | Unloaded      | : Loaded | : Total | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded | : Total |  |
| (1)                    | (2)           | (3)      | (4)     | (5)        | (6)      | (7)     | (8)        | (9)      | (10)    |  |
| <b>ALL MAJOR PORTS</b> |               |          |         |            |          |         |            |          |         |  |
| POL- Crude             | 94858         | 57243    | 152101  | 102572     | 57306    | 159878  | 117359     | 61640    | 178999  |  |
| POL- Products          | 28637         | 860      | 29497   | 33960      | 510      | 34470   | 40380      | 675      | 41055   |  |
| Fertilizer             | 19682         | 2594     | 22276   | 24424      | 2092     | 26516   | 24301      | 1314     | 25615   |  |
| Fertilizers'Raw        | 5727          | -        | 5727    | 3327       | -        | 3327    | 4825       | -        | 4825    |  |
| Material (Dry)         | 3860          | -        | 3860    | 3804       | -        | 3804    | 4112       | -        | 4112    |  |
| Fertilizers'Raw        |               |          |         |            |          |         |            |          |         |  |
| Material (Liquid)      | 2768          | -        | 2768    | 2784       | -        | 2784    | 3498       | -        | 3498    |  |
| Foodgrains             | 492           | 3353     | 3845    | 1306       | 2869     | 4175    | 2466       | 1522     | 3988    |  |
| Iron & Steel           | 2499          | 1565     | 4064    | 2279       | 2192     | 4471    | 2677       | 1987     | 4664    |  |
| Coal                   | 12983         | 13       | 12996   | 12681      | 46       | 12727   | 13133      | 55       | 13188   |  |
| Coke                   | 448           | -        | 448     | 483        | -        | 483     | 1127       | -        | 1127    |  |
| Iron Ore               | 416           | 31775    | 32191   | 199        | 29943    | 30142   | 261        | 35802    | 36063   |  |
| Other Commodities      | 17346         | 17083    | 34429   | 17325      | 19654    | 36979   | 20579      | 20285    | 40864   |  |



2.2.19 Coastal Traffic (Principal Commodities) Handled At Major Ports (Contd..)

| PORT/<br>COMMODITY   | ('000 tonnes) |          |         |            |          |         |            |          |         |  |
|----------------------|---------------|----------|---------|------------|----------|---------|------------|----------|---------|--|
|                      | 1995-96       | 1996-97  | 1997-98 |            |          |         |            |          |         |  |
| (1)                  | (2)           | (3)      | (4)     | (5)        | (6)      | (7)     | (8)        | (9)      | (10)    |  |
|                      | : Unloaded    | : Loaded | : Total | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded | : Total |  |
| <b>MORNUGAO</b>      | 483           | 130      | 613     | 795        | 101      | 896     | 856        | 90       | 946     |  |
| POL- Crude           | 455           | -        | 455     | 755        | -        | 755     | 818        | -        | 818     |  |
| Iron Ore             | -             | 118      | 118     | -          | 85       | 85      | -          | 76       | 76      |  |
| Coal/Coke            | -             | 1        | 1       | -          | 2        | 2       | 2          | 2        | 4       |  |
| Others               | 28            | 11       | 39      | 40         | 14       | 54      | 36         | 12       | 48      |  |
| <b>NEW MANGALORE</b> | 806           | 473      | 1279    | 277        | 2079     | 2356    | 275        | 2743     | 3018    |  |
| POL-Crude            | 773           | 2        | 775     | 236        | 1618     | 1854    | 87         | -        | 87      |  |
| POL- Products        | -             | 471      | 471     | -          | 461      | 461     | 160        | 2314     | 2474    |  |
| Iron Ore/Pallets     | 33            | -        | 33      | 41         | -        | 41      | 28         | 429      | 429     |  |
| Other commodities    |               |          |         |            |          |         |            |          | 28      |  |
| <b>COCHIN</b>        | 5603          | 1194     | 6797    | 4990       | 1065     | 6055    | 4334       | 1504     | 5838    |  |
| POL- Crude           | 5526          | -        | 5526    | 4787       | -        | 4787    | 4131       | -        | 4131    |  |
| POL- Products        | 37            | 1189     | 1226    | 179        | 1038     | 1217    | 128        | 1491     | 1619    |  |
| Other commodities    | 40            | 5        | 45      | 24         | 27       | 51      | 75         | 13       | 88      |  |

2.2.19 Coastal Traffic (Principal Commodities) Handled At Major Ports (Contd..)

|                        |      | ('000 tonnes) |        |         |          |         |       |          |        |       |       |
|------------------------|------|---------------|--------|---------|----------|---------|-------|----------|--------|-------|-------|
| PORT/<br>COMMODITY     |      | 1995-96       |        | 1996-97 |          | 1997-98 |       |          |        |       |       |
|                        |      | Unloaded      | Loaded | Total   | Unloaded | Loaded  | Total | Unloaded | Loaded | Total | Total |
| (1)                    | (2)  | (3)           | (4)    | (5)     | (6)      | (7)     | (8)   | (9)      | (10)   | (11)  | (12)  |
| <b>TUTICORIN</b>       |      |               |        |         |          |         |       |          |        |       |       |
| POL- Products          | 5167 | 19            | 5186   | 5877    | 18       | 5895    | 5623  | 18       | 5641   |       |       |
| Foodgrains             | 434  | -             | 434    | 418     | -        | 418     | 394   | -        | 394    |       |       |
| Coal                   | 4706 | -             | 4706   | 5421    | -        | 5421    | 5187  | -        | 5187   |       |       |
| Other commodities      | 27   | 19            | 46     | 38      | 18       | 56      | 42    | 18       | 60     |       |       |
| <b>CHENNAI</b>         |      |               |        |         |          |         |       |          |        |       |       |
| POL- Crude             | 8740 | 1029          | 9769   | 10330   | 1187     | 11517   | 11299 | 1047     | 12346  |       |       |
| POL- Products          | 3356 | -             | 3356   | 3692    | -        | 3692    | 2642  | -        | 2642   |       |       |
| Veg. Oil & Animal fats | 10   | 932           | 942    | 5       | 1100     | 1105    | 5     | 966      | 971    |       |       |
| Coal                   | 3    | -             | 3      | 1       | -        | 1       | 1     | -        | 1      |       |       |
| Foodgrains             | 5246 | -             | 5246   | 6553    | -        | 6553    | 8595  | -        | 8595   |       |       |
| Other commodities      | 125  | 90            | 215    | 79      | 80       | 159     | 56    | 73       | 129    |       |       |

2.2.19 Coastal Traffic (Principal Commodities) Handled At Major Ports (Contd.)

| PORT/<br>COMMODITY   | ('000 tonnes)                                                                       |         |         |      |      |       |      |      |       |      |
|----------------------|-------------------------------------------------------------------------------------|---------|---------|------|------|-------|------|------|-------|------|
|                      | 1995-96                                                                             | 1996-97 | 1997-98 |      |      |       |      |      |       |      |
|                      | (1)                                                                                 | (2)     | (3)     | (4)  | (5)  | (6)   | (7)  | (8)  | (9)   | (10) |
|                      | : Unloaded : Loaded : Total : Unloaded : Loaded : Total : Unloaded : Loaded : Total |         |         |      |      |       |      |      |       |      |
| <b>VISAKHAPATNAM</b> | 3517                                                                                | 8051    | 11568   | 5407 | 6041 | 11448 | 5941 | 7391 | 13332 |      |
| POL- crude           | 3109                                                                                | 3207    | 6316    | 4530 | -    | 4530  | 3268 | -    | 3268  |      |
| POL- Products        | 299                                                                                 | -       | 299     | 614  | 202  | 816   | 2246 | 113  | 2359  |      |
| Coal                 | -                                                                                   | 3044    | 3044    | -    | 3710 | 3710  | -    | 3978 | 3978  |      |
| Chemicals            | 10                                                                                  | -       | 10      | 14   | -    | 14    | 5    | -    | 5     |      |
| Iron Ore             | 32                                                                                  | 1724    | 1756    | 207  | 1753 | 1960  | 382  | 1928 | 2310  |      |
| Other commodities    | 67                                                                                  | 76      | 143     | 42   | 376  | 418   | 40   | 1372 | 1412  |      |
| <b>PARADIP</b>       | 65                                                                                  | 4859    | 4924    | 126  | 5903 | 6029  | 109  | 7138 | 7247  |      |
| POL-Product          | 65                                                                                  | 378     | 443     | 126  | 635  | 761   | 109  | 641  | 750   |      |
| Coal                 | -                                                                                   | 4232    | 4232    | -    | 5006 | 5006  | -    | 6080 | 6080  |      |
| Iron ore             | -                                                                                   | 26      | 26      | -    | 262  | 262   | -    | 417  | 417   |      |
| Others               | -                                                                                   | 223     | 223     | -    | -    | -     | -    | -    | -     |      |
| <b>CALCUTTA</b>      | 2493                                                                                | 309     | 2802    | 2462 | 256  | 2718  | 2146 | 197  | 2343  |      |
| POL- Crude           | -                                                                                   | -       | -       | -    | -    | -     | -    | -    | -     |      |
| POL- Products        | 2414                                                                                | 27      | 2441    | 2400 | 30   | 2430  | 1976 | 57   | 2033  |      |
| Foodgrains           | -                                                                                   | -       | -       | -    | -    | -     | -    | -    | -     |      |
| Iron & Steel         | 4                                                                                   | -       | 4       | -    | -    | -     | 7    | 1    | 8     |      |
| Coal                 | -                                                                                   | -       | -       | -    | -    | -     | -    | -    | -     |      |
| Other commodities    | 75                                                                                  | 282     | 357     | 62   | 226  | 288   | 163  | 139  | 302   |      |

2.2.19 Coastal Traffic (Principal Commodities) Handled At Major Ports

| PORT/<br>COMMODITY     | ('000 tonnes) |        |         |          |         |       |          |        |       |  |
|------------------------|---------------|--------|---------|----------|---------|-------|----------|--------|-------|--|
|                        | 1995-96       |        | 1996-97 |          | 1997-98 |       |          |        |       |  |
| (1)                    | (2)           | (3)    | (4)     | (5)      | (6)     | (7)   | (8)      | (9)    | (10)  |  |
|                        | Unloaded      | Loaded | Total   | Unloaded | Loaded  | Total | Unloaded | Loaded | Total |  |
| <b>HALDIA</b>          | 339           | 4269   | 4608    | 261      | 4734    | 4995  | 756      | 6054   | 6810  |  |
| POL- Crude             | -             | -      | -       | -        | -       | -     | -        | -      | -     |  |
| POL- Products          | 335           | 1148   | 1483    | 255      | 1104    | 1359  | 756      | 1918   | 2674  |  |
| Coal                   | -             | 3117   | 3117    | -        | 3628    | 3628  | -        | 4136   | 4136  |  |
| Other commodities      | 4             | 4      | 8       | 6        | 2       | 8     | -        | -      | -     |  |
| <b>ALL MAJOR PORTS</b> | 31790         | 31317  | 63107   | 36635    | 30456   | 67091 | 38616    | 34043  | 72659 |  |
| POL- Crude             | 15957         | 9994   | 25951   | 16952    | 8115    | 25067 | 13826    | 6723   | 20549 |  |
| POL- Products          | 5346          | 7853   | 13199   | 6411     | 6586    | 12997 | 9770     | 8354   | 18124 |  |
| Foodgrains             | -             | 7      | 7       | -        | 7       | 7     | -        | 8      | 8     |  |
| Coal                   | 9952          | 10394  | 20346   | 11974    | 12346   | 24320 | 13784    | 14196  | 27980 |  |
| Iron & Steel           | 6             | -      | 6       | -        | -       | -     | 7        | 1      | 8     |  |
| Iron Ore               | 32            | 2339   | 2371    | 557      | 2561    | 3118  | 698      | 2850   | 3548  |  |
| Other commodities      | 497           | 730    | 1227    | 741      | 841     | 1582  | 531      | 1911   | 2442  |  |

2.2.20 Overseas Traffic (Imports - 1997-98) By Country of Origin (Portwise-Commodities)

| Country of Origin/<br>Commodities | (In '000 Tonnes) |        |        |               |              |                  |        |               |         |                     |         |          |        |        |
|-----------------------------------|------------------|--------|--------|---------------|--------------|------------------|--------|---------------|---------|---------------------|---------|----------|--------|--------|
|                                   | 1                | 2      | 3      | 4             | 5            | 6                | 7      | 8             | 9       | 10                  | 11      | 12       | 13     | 14     |
|                                   |                  | Randla | Mumbai | J.L.<br>Nehru | Mormu<br>gao | N.Vanga-<br>lore | Cochin | Tut-<br>corin | Chennai | Vishakha-<br>patnam | Paradip | Calcutta | Baldia | Total  |
| ALL COMMODITIES                   |                  | 29755  | 17618  | 5052          | 1122         | 5823             | 5447   | 2791          | 12730   | 15885               | 4379    | 4138     | 12619  | 117359 |
| U.A.E.                            |                  | 2288   | 813    | 68            | 128          | 599              | -      | 501           | -       | 694                 | 477     | -        | -      | 5568   |
| Kuwait                            |                  | 9665   | 748    | 59            | 161          | 676              | -      | -             | -       | 1001                | 83      | -        | -      | 12393  |
| S.Arabia                          |                  | 1591   | 4611   | 411           | 12           | 513              | -      | -             | -       | 838                 | 565     | -        | -      | 8541   |
| Iran                              |                  | 320    | 657    | 7             | 15           | 875              | -      | -             | -       | 85                  | -       | -        | -      | 1959   |
| Iraq                              |                  | -      | -      | -             | -            | -                | -      | -             | -       | -                   | -       | -        | -      | -      |
| Qatar                             |                  | 34     | 26     | -             | -            | 104              | -      | -             | -       | 133                 | -       | -        | -      | 297    |
| Russia                            |                  | 113    | 680    | 1             | 46           | 64               | -      | 161           | -       | 131                 | 96      | -        | -      | 1292   |
| U.S.A                             |                  | 374    | 510    | 356           | 44           | 5                | 57     | 76            | -       | 661                 | 625     | 444      | 919    | 4412   |
| Behrain                           |                  | 2367   | 550    | 328           | 64           | 18               | -      | -             | 341     | 37                  | 106     | -        | -      | 3470   |
| Jordan                            |                  | 64     | 101    | 32            | 43           | 62               | -      | 377           | -       | 296                 | -       | -        | -      | 975    |
| Senegal                           |                  | 584    | -      | -             | -            | -                | -      | -             | -       | 342                 | -       | -        | -      | 926    |
| Korea                             |                  | 205    | 289    | -             | -            | 16               | -      | 11            | -       | 30                  | 31      | -        | -      | 926    |
| Netherland(Holland)               |                  | 1088   | 71     | 4             | -            | 70               | -      | 5             | -       | 5                   | 1       | -        | -      | 582    |
| Italy                             |                  | 79     | 115    | -             | -            | 10               | -      | 1             | -       | 4                   | -       | -        | -      | 1244   |
| Singapore                         |                  | 226    | 135    | 52            | -            | 3                | -      | 90            | -       | 328                 | 88      | -        | -      | 922    |
| Malaysia                          |                  | 635    | 427    | 5             | -            | 158              | -      | 142           | -       | 251                 | -       | -        | -      | 1619   |
| France                            |                  | 95     | 144    | 44            | 1            | -                | -      | 1             | -       | 7                   | -       | -        | -      | 292    |
| Canada                            |                  | 51     | 269    | 20            | -            | 79               | 38     | 20            | 92      | 5                   | 64      | -        | -      | 638    |
| Japan                             |                  | 464    | 315    | 2             | 8            | 10               | 12     | 9             | 145     | 97                  | 147     | 69       | -      | 1278   |
| Brazil                            |                  | 89     | 128    | -             | -            | 6                | -      | -             | -       | 35                  | 59      | -        | -      | 919    |
| Germany                           |                  | 89     | 393    | 53            | -            | 23               | 15     | 24            | 238     | 5                   | -       | -        | -      | 919    |
| U.K.                              |                  | 223    | 181    | 23            | 1            | -                | 6      | -             | -       | 5                   | -       | 174      | -      | 613    |
| Australia/N.Zealand               |                  | 439    | 364    | 307           | 3            | 267              | 221    | 199           | -       | 5671                | 1439    | 90       | 3022   | 12020  |
| Other European Countries          |                  | 194    | 366    | -             | 1            | 5                | 50     | 58            | -       | 93                  | 19      | 169      | 20     | 1438   |
| Other Asian Countries             |                  | 479    | 1062   | 102           | 508          | 438              | 3536   | 755           | 501     | 938                 | 332     | 2849     | 6671   | 19530  |
| Other African Countries           |                  | 4267   | 290    | -             | 48           | 1607             | 1407   | 95            | 1860    | 148                 | 24      | 27       | 16     | 8798   |
| Others                            |                  | 3732   | 4383   | 3178          | 38           | 215              | 105    | 266           | 8684    | 4076                | 223     | 316      | 1971   | 27187  |

2.2.20 Overseas Traffic (Imports - 1997-98) By Country Of Origin (Portwise-Commoditywise) (Contd.)

|                                     |   | (In '000 Tonnes) |      |     |     |      |      |    |      |      |     |      |      |       |
|-------------------------------------|---|------------------|------|-----|-----|------|------|----|------|------|-----|------|------|-------|
| Country of Origin/<br>Commodities   | 1 | 2                |      |     |     |      |      |    |      |      |     |      |      |       |
|                                     |   | 2                | 3    | 4   | 5   | 6    | 7    | 8  | 9    | 10   | 11  | 12   | 13   | 14    |
|                                     |   |                  |      |     |     |      |      |    |      |      |     |      |      |       |
| <b>POL CRUDE &amp;<br/>PRODUCTS</b> |   | 23818            | 8212 | 681 | 316 | 4309 | 3580 | 65 | 6783 | 6365 | 987 | 1732 | 7833 | 64691 |
| U.A.E.                              |   | 1700             | 538  | 68  | 128 | 471  | -    | 37 | -    | 307  | 76  | -    | -    | 3325  |
| Kuwait                              |   | 9115             | 742  | 33  | 118 | 648  | -    | -  | -    | 910  | 52  | -    | -    | 11618 |
| S.Arabia                            |   | 1312             | 4471 | 376 | -   | 504  | -    | -  | -    | 739  | 484 | -    | -    | 7886  |
| Iran                                |   | 27               | 254  | -   | -   | 842  | -    | -  | -    | -    | -   | -    | -    | 1123  |
| Iraq                                |   | -                | -    | -   | -   | -    | -    | -  | -    | -    | -   | -    | -    | -     |
| Qatar                               |   | 15               | -    | -   | -   | 67   | -    | -  | -    | -    | -   | -    | -    | 82    |
| Singapore                           |   | 181              | 46   | 28  | -   | 2    | -    | 22 | -    | 282  | 51  | -    | -    | 612   |
| Malaysia                            |   | -                | 2    | -   | -   | 97   | -    | 6  | -    | 139  | -   | -    | -    | 244   |
| Russia                              |   | 93               | 2    | -   | -   | -    | -    | -  | -    | 15   | 55  | -    | -    | 165   |
| Bahrain                             |   | 2315             | 519  | 66  | 64  | 11   | -    | -  | -    | 32   | 30  | -    | -    | 3097  |
| Yemen                               |   | 20               | -    | -   | 6   | -    | -    | -  | -    | -    | -   | -    | -    | 26    |
| U.S.A.                              |   | 30               | 49   | -   | -   | -    | 8    | -  | -    | 22   | -   | -    | 737  | 846   |
| Panama                              |   | -                | -    | -   | -   | -    | -    | -  | -    | -    | -   | -    | -    | -     |
| Oman                                |   | -                | -    | -   | -   | -    | -    | -  | -    | -    | -   | -    | -    | -     |
| Other European Countries            |   | 1043             | 123  | 59  | -   | 74   | -    | -  | 30   | -    | 44  | 28   | -    | 1401  |
| Other Asian Countries               |   | 145              | 34   | -   | -   | 180  | 2687 | -  | 209  | 9    | 82  | 1704 | 5200 | 10250 |
| Others                              |   | 7822             | 1432 | 51  | -   | 1413 | 885  | -  | 6544 | 3910 | 53  | -    | 1896 | 24006 |

2.2.20 Overseas Traffic (Imports - 1997-98) By Country of Origin (Fortwise-Commoditywise) (Contd.)

| Country of Origin/<br>Commodities | (In '000 Tonnes) |        |               |               |                  |        |                |         |                    |         |          |       |       |    |
|-----------------------------------|------------------|--------|---------------|---------------|------------------|--------|----------------|---------|--------------------|---------|----------|-------|-------|----|
|                                   | 1                | 2      | 3             | 4             | 5                | 6      | 7              | 8       | 9                  | 10      | 11       | 12    | 13    | 14 |
|                                   | Kandla           | Mumbai | J.L.<br>Nehru | Morani<br>gao | N.Mange-<br>lore | Cochin | Puli-<br>corin | Chennai | Visakha-<br>patnam | Paradip | Calcutta | Halda | Total |    |
| <b>FERTILISERS &amp; ITS</b>      |                  |        |               |               |                  |        |                |         |                    |         |          |       |       |    |
| <b>RAW MATERIALS</b>              |                  |        |               |               |                  |        |                |         |                    |         |          |       |       |    |
| Jordan                            | 2292             | 902    | 956           | 260           | 445              | 848    | 1223           | 1374    | 2253               | 1182    | 110      | 592   | 12435 |    |
| Canada                            | 35               | 90     | 32            | 43            | 62               | -      | 377            | -       | 296                | -       | -        | -     | 935   |    |
| S. Arabia                         | -                | 7      | -             | -             | -                | -      | 15             | -       | 5                  | 64      | -        | -     | 91    |    |
| Morocco                           | 135              | 39     | -             | -             | -                | -      | -              | -       | 39                 | 81      | -        | -     | 294   |    |
| Kuwait                            | 526              | 16     | 75            | 155           | 132              | -      | 146            | -       | 62                 | 557     | -        | -     | 1163  |    |
| Poland                            | -                | 4      | 24            | -             | 28               | -      | -              | -       | 35                 | 31      | -        | -     | 648   |    |
| U.S.A.                            | -                | -      | -             | -             | -                | -      | -              | -       | -                  | -       | -        | -     | -     |    |
| Russia                            | 147              | 14     | 306           | 43            | -                | 22     | 42             | 127     | 498                | 33      | -        | 27    | 1259  |    |
| Germany                           | -                | 44     | 81            | -             | 60               | -      | 161            | -       | 116                | 30      | -        | -     | 492   |    |
| U.A.R.                            | 89               | 3      | -             | -             | 23               | -      | 14             | 98      | 30                 | 15      | -        | -     | 272   |    |
| Bahrain                           | 100              | 176    | -             | -             | 52               | -      | 339            | -       | 26                 | 63      | -        | -     | 756   |    |
| Iran                              | 8                | 25     | -             | -             | 7                | -      | -              | -       | -                  | 16      | -        | -     | 56    |    |
| Iraq                              | 195              | 115    | -             | -             | 13               | -      | -              | -       | 56                 | -       | -        | -     | 379   |    |
| Belgium                           | -                | -      | -             | -             | -                | -      | -              | -       | -                  | -       | -        | -     | -     |    |
| Japan                             | -                | -      | -             | -             | -                | -      | -              | -       | -                  | -       | -        | -     | -     |    |
| Australia & New Zealand           | -                | -      | -             | -             | -                | -      | -              | -       | 70                 | -       | -        | -     | 70    |    |
| Others                            | 1047             | 369    | 438           | 27            | 68               | 826    | 129            | 1149    | 954                | 292     | 110      | 565   | 5974  |    |

2.2.20 Overseas Traffic (Imports - 1997-98) By Country Of Origin (Portwise-Commoditywise) (Contd.)

| Country of Origin/<br>Commodities | (In '000 Tonnes) |     |      |   |   |   |    |    |     |    |    |     |    |      |
|-----------------------------------|------------------|-----|------|---|---|---|----|----|-----|----|----|-----|----|------|
|                                   | 1                | 2   | 3    | 4 | 5 | 6 | 7  | 8  | 9   | 10 | 11 | 12  | 13 | 14   |
|                                   |                  |     |      |   |   |   |    |    |     |    |    |     |    |      |
| <b>IRON &amp; STEEL</b>           |                  |     |      |   |   |   |    |    |     |    |    |     |    |      |
| Germany                           |                  | 386 | 1767 | - | - | - | 43 | -  | 267 | -  | -  | 171 | 43 | 2677 |
| France                            |                  | 9   | 244  | - | - | - | -  | -  | 57  | -  | -  | -   | -  | 310  |
| Poland                            |                  | -   | 63   | - | - | - | -  | -  | -   | -  | -  | -   | -  | 63   |
| U.K.                              |                  | 5   | 358  | - | - | - | -  | -  | -   | -  | -  | -   | -  | 363  |
| Japan                             |                  | -   | 72   | - | - | - | -  | -  | -   | -  | -  | -   | -  | 72   |
| U.S.A.                            |                  | 105 | 151  | - | - | - | -  | -  | 33  | -  | -  | 14  | -  | 303  |
| Canada                            |                  | -   | 28   | - | - | - | -  | -  | 7   | -  | -  | -   | -  | 35   |
| Belgium                           |                  | -   | 3    | - | - | - | -  | -  | 10  | -  | -  | -   | -  | 13   |
| Czechoslovakia                    |                  | -   | 0    | - | - | - | -  | -  | -   | -  | -  | -   | -  | 8    |
| Brazil                            |                  | -   | 37   | - | - | - | -  | -  | -   | -  | -  | -   | -  | 37   |
| Korea                             |                  | 72  | 85   | - | - | - | -  | -  | -   | -  | -  | -   | -  | 157  |
| Malaysia                          |                  | -   | 2    | - | - | - | -  | -  | -   | -  | -  | -   | -  | 2    |
| Others                            |                  | 195 | 716  | - | - | - | 43 | -  | 160 | -  | -  | 157 | 43 | 1314 |
| <b>IRON SCRAP</b>                 |                  |     |      |   |   |   |    |    |     |    |    |     |    |      |
| U.S.A.                            |                  | 174 | 129  | - | - | - | -  | 36 | 377 | -  | -  | -   | -  | 716  |
| Russia                            |                  | 41  | 18   | - | - | - | -  | -  | 79  | -  | -  | -   | -  | 138  |
| France                            |                  | -   | 26   | - | - | - | -  | -  | -   | -  | -  | -   | -  | 26   |
| Singapore                         |                  | -   | -    | - | - | - | -  | -  | -   | -  | -  | -   | -  | -    |
| Netherlands                       |                  | -   | -    | - | - | - | -  | -  | -   | -  | -  | -   | -  | -    |
| Sri Lanka                         |                  | -   | -    | - | - | - | -  | -  | -   | -  | -  | -   | -  | -    |
| Malaysia                          |                  | -   | -    | - | - | - | -  | -  | -   | -  | -  | -   | -  | -    |
| U.K.                              |                  | 125 | 14   | - | - | - | -  | -  | -   | -  | -  | -   | -  | 139  |
| Others                            |                  | 8   | 71   | - | - | - | -  | 36 | 298 | -  | -  | -   | -  | 413  |



2.2.20 Overseas Traffic (Imports - 1997-98) By Country Of Origin (Portwise-Commoditywise) (Contd.)

| Country of Origin/<br>Commodities | Kandla | Mumbai | J.L.<br>Nehru | Mormu<br>gao | N. Manga-<br>lore | Cochin | Tuti-<br>corin | Chennai | Visakh-<br>apatnam | Paradip | Calcutta | Haldia | Total |
|-----------------------------------|--------|--------|---------------|--------------|-------------------|--------|----------------|---------|--------------------|---------|----------|--------|-------|
| 1                                 | 2      | 3      | 4             | 5            | 6                 | 7      | 8              | 9       | 10                 | 11      | 12       | 13     | 14    |
| VEGETABLE/<br>EDIBLE OIL          | 148    | 611    | 74            | -            | -                 | 73     | -              | -       | 377                | -       | 248      | -      | 1690  |
| Malaysia                          | 65     | 349    | 5             | -            | -                 | 49     | -              | -       | -                  | -       | -        | -      | 562   |
| Germany                           | -      | 1      | -             | -            | -                 | -      | -              | -       | 94                 | -       | -        | -      | 1     |
| Taiwan                            | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | -     |
| Singapore                         | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | -     |
| Pakistan                          | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | -     |
| U.S.A.                            | -      | 9      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | 9     |
| Kuwait                            | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | -     |
| Indonesia                         | 16     | 174    | 4             | -            | -                 | 19     | -              | -       | 23                 | -       | -        | -      | 236   |
| Other Asian Countries             | -      | 5      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | 545   |
| Others                            | 67     | 73     | 65            | -            | -                 | 5      | -              | -       | 42                 | -       | 216      | -      | 337   |
| CHEMICALS                         | -      | -      | -             | 23           | 38                | 18     | -              | -       | 97                 | -       | 129      | -      | 755   |
| U.S.A                             | -      | -      | -             | 6            | 4                 | 2      | -              | -       | -                  | -       | -        | -      | 30    |
| Japan                             | -      | -      | -             | -            | -                 | -      | -              | -       | 21                 | -       | -        | -      | 40    |
| France                            | -      | -      | -             | -            | -                 | -      | -              | -       | 6                  | -       | -        | -      | 6     |
| Germany                           | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | 8     |
| S.Arabia                          | -      | -      | -             | 12           | -                 | -      | -              | -       | 41                 | -       | -        | -      | 53    |
| Bangladesh                        | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | -     |
| Other American )<br>countries )   | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | -     |
| Other European )<br>countries )   | -      | -      | -             | -            | -                 | -      | -              | -       | -                  | -       | -        | -      | -     |
| Africa                            | -      | -      | -             | -            | -                 | 3      | -              | -       | -                  | -       | -        | -      | 2     |
| Others                            | -      | -      | -             | 5            | 34                | 13     | -              | -       | 68                 | -       | -        | -      | 71    |
|                                   | -      | -      | -             | -            | -                 | -      | -              | -       | 210                | -       | -        | -      | 210   |
|                                   | -      | -      | -             | -            | -                 | -      | -              | -       | 125                | -       | -        | -      | 335   |

2.2.20 Overseas Traffic (Imports - 1997-98) By Country of Origin (Portwise-Commoditywise) (Contd.)

| Country of Origin/<br>Commodities | 1 | 2 | 3   | 4 | 5   | 6   | 7   | 8   | 9    | 10   | 11   | 12  | 13   | 14    | (In '000 Tonnes) |
|-----------------------------------|---|---|-----|---|-----|-----|-----|-----|------|------|------|-----|------|-------|------------------|
|                                   |   |   |     |   |     |     |     |     |      |      |      |     |      |       |                  |
|                                   |   |   |     |   |     |     |     |     |      |      |      |     |      |       |                  |
| U.S.A.                            | - | - | -   | - | 442 | 99  | 141 | 391 | 1868 | 5956 | 1772 | 44  | 3547 | 14260 |                  |
| U.S.S.R.                          | - | - | -   | - | -   | -   | -   | -   | -    | 24   | -    | -   | -    | -     | 24               |
| New Zealand                       | - | - | -   | - | -   | -   | -   | -   | -    | -    | -    | -   | -    | -     | -                |
| Indonesia                         | - | - | -   | - | 91  | 53  | -   | 293 | -    | -    | -    | -   | -    | -     | 437              |
| Australia                         | - | - | -   | - | -   | -   | -   | 9   | -    | 5429 | 1439 | -   | 2980 | 9857  | -                |
| Poland                            | - | - | -   | - | -   | -   | -   | -   | -    | -    | -    | -   | -    | -     | -                |
| Others                            | - | - | -   | - | 351 | 46  | 141 | 89  | 1868 | 503  | 333  | 44  | 567  | 1942  | -                |
| WOOD                              | - | - | 203 | - | -   | 392 | -   | -   | 33   | -    | -    | 268 | -    | 896   | -                |
| Canada                            | - | - | -   | - | -   | 12  | -   | -   | -    | -    | -    | -   | -    | 13    | -                |
| Malaysia                          | - | - | 1   | - | -   | 10  | -   | -   | -    | -    | -    | -   | -    | 10    | -                |
| Burma                             | - | - | -   | - | -   | 131 | -   | -   | -    | -    | -    | 23  | -    | 154   | -                |
| Vietnam                           | - | - | -   | - | -   | -   | -   | -   | -    | -    | -    | -   | -    | -     | -                |
| New Zealand                       | - | - | -   | - | -   | 9   | -   | -   | -    | -    | -    | -   | -    | 9     | -                |
| Singapore                         | - | - | -   | - | -   | 1   | -   | -   | -    | -    | -    | -   | -    | 1     | -                |
| Other European Countries          | - | - | 6   | - | -   | -   | -   | -   | -    | -    | -    | -   | -    | 5     | -                |
| Other Asian Countries             | - | - | 61  | - | -   | -   | -   | -   | -    | -    | -    | 235 | -    | 308   | -                |
| Other African Countries           | - | - | 33  | - | -   | 196 | -   | -   | -    | -    | -    | 10  | -    | 248   | -                |
| Others                            | - | - | 106 | - | -   | 33  | -   | -   | 9    | -    | -    | -   | -    | 148   | -                |

2.2.20 Overseas Traffic (Imports - 1997-98) By Country Of Origin (Portwise-Commoditywise) (Contd.)

| Country of Origin/<br>Commodities | Kandla | Mumbai | (In '000 Tonnes) |              |                  |        |                |         |                   |         |          |        |       |
|-----------------------------------|--------|--------|------------------|--------------|------------------|--------|----------------|---------|-------------------|---------|----------|--------|-------|
|                                   |        |        | J.L.<br>Nehru    | Mormu<br>gao | N.Manga-<br>lore | Cochin | Tuti-<br>corin | Chennai | Visakha<br>patnam | Paradip | Calcutta | Haldia | Total |
| 1                                 | 2      | 3      | 4                | 5            | 6                | 7      | 8              | 9       | 10                | 11      | 12       | 13     | 14    |
| MACHINERY                         |        | 182    |                  |              |                  | 1      |                | 119     |                   |         |          |        | 302   |
| U.S.A.                            |        | 20     |                  |              |                  |        |                | 11      |                   |         |          |        | 31    |
| Japan                             |        | 18     |                  |              |                  |        |                | 14      |                   |         |          |        | 32    |
| France                            |        |        |                  |              |                  |        |                |         |                   |         |          |        |       |
| Germany                           |        | 34     |                  |              |                  |        |                | 14      |                   |         |          |        | 48    |
| U.S.S.R.                          |        | 6      |                  |              |                  |        |                |         |                   |         |          |        | 6     |
| Canada                            |        |        |                  |              |                  |        |                |         |                   |         |          |        |       |
| U.K.                              |        | 10     |                  |              |                  |        |                |         |                   |         |          |        | 10    |
| Taiwan                            |        |        |                  |              |                  |        |                |         |                   |         |          |        |       |
| Italy                             |        |        |                  |              |                  |        |                |         |                   |         |          |        |       |
| Czechoslovakia                    |        |        |                  |              |                  |        |                |         |                   |         |          |        |       |
| Sweden                            |        |        |                  |              |                  |        |                |         |                   |         |          |        |       |
| Switzerland                       |        |        |                  |              |                  |        |                |         |                   |         |          |        |       |
| Other Asian Countries             |        | 22     |                  |              |                  |        |                | 10      |                   |         |          |        | 32    |
| Other European Countries          |        | 35     |                  |              |                  |        |                | 14      |                   |         |          |        | 49    |
| Others                            |        | 37     |                  |              |                  | 1      |                | 56      |                   |         |          |        | 94    |

2.2.21 Overseas Traffic (Exports - 1997-98) By Country of Destination (Portwise-Commoditywise)

| Country of Destination/Commodities | (In '000 Tonnes) |      |      |       |      |      |      |       |      |      |      |     |       |    |
|------------------------------------|------------------|------|------|-------|------|------|------|-------|------|------|------|-----|-------|----|
|                                    | 1                | 2    | 3    | 4     | 5    | 6    | 7    | 8     | 9    | 10   | 11   | 12  | 13    | 14 |
| ALL COMMODITIES                    | 3702             | 5210 | 3418 | 19114 | 6441 | 1038 | 1542 | 10455 | 6797 | 1676 | 1471 | 776 | 61640 |    |
| U.S.A.                             | 79               | 174  | -    | 2     | 1    | 140  | 38   | 588   | 399  | -    | 264  | 103 | 1788  |    |
| Russia                             | 157              | 15   | -    | 62    | -    | -    | 24   | -     | 40   | -    | 49   | -   | 347   |    |
| U.K.                               | 17               | 44   | -    | 1     | -    | 22   | 45   | -     | 37   | -    | 275  | -   | 446   |    |
| Holland                            | 39               | 56   | 1    | 919   | 9    | -    | 27   | -     | 33   | 5    | -    | -   | 1112  |    |
| France                             | 17               | 24   | -    | 502   | 4    | -    | 4    | -     | 11   | 28   | -    | -   | 562   |    |
| Japan                              | 98               | 103  | -    | 9785  | 1383 | 53   | 27   | 3030  | 3687 | -    | 55   | -   | 18575 |    |
| Germany                            | 11               | 28   | -    | 147   | -    | 40   | 22   | 99    | -    | 354  | -    | -   | 347   |    |
| Australia/N.Zealand                | 7                | 56   | -    | 832   | 627  | 10   | 5    | -     | 53   | -    | 42   | 10  | 347   |    |
| Italy                              | 37               | 29   | -    | 587   | 104  | -    | 248  | -     | 242  | -    | -    | -   | 1492  |    |
| Romania                            | 7                | 4    | -    | 237   | 17   | -    | 46   | -     | 129  | -    | -    | -   | 598   |    |
| Belgium                            | 11               | 25   | -    | -     | -    | 9    | 5    | -     | 10   | -    | -    | -   | 465   |    |
| Canada                             | -                | 16   | -    | -     | -    | -    | -    | 24    | -    | -    | -    | -   | 64    |    |
| Iran                               | 32               | 56   | -    | 42    | 1829 | -    | -    | -     | 56   | -    | -    | -   | 2015  |    |
| Iraq                               | -                | 4    | -    | -     | -    | -    | -    | -     | -    | -    | -    | -   | -     |    |
| Singapore                          | 60               | 367  | 4    | 2     | 96   | -    | 32   | -     | 141  | -    | -    | -   | 702   |    |
| Indonesia                          | 60               | 88   | 77   | 42    | 2    | -    | 1    | -     | 260  | -    | -    | -   | 530   |    |
| Turkey                             | 3                | 12   | -    | 311   | 98   | -    | 1    | -     | 15   | -    | -    | -   | 440   |    |
| Korea (S)                          | 311              | 46   | -    | 1090  | -    | -    | 15   | -     | 214  | 23   | -    | -   | 1699  |    |
| Korea (N)                          | -                | 5    | -    | -     | -    | -    | -    | -     | -    | -    | -    | -   | 5     |    |
| Taiwan                             | 72               | 51   | 4    | 211   | 916  | -    | 36   | -     | 121  | 19   | -    | -   | 1430  |    |
| S. Arabia                          | 455              | 127  | -    | 39    | 1    | -    | -    | -     | 16   | -    | -    | -   | 638   |    |
| Pakistan                           | -                | 14   | -    | 437   | -    | -    | -    | -     | -    | 178  | -    | -   | 629   |    |
| Hungary                            | -                | 1    | -    | -     | -    | -    | -    | -     | -    | -    | -    | -   | 1     |    |
| Qatar                              | 7                | 17   | -    | -     | -    | -    | -    | -     | -    | -    | -    | -   | 24    |    |
| Czechoslovakia                     | -                | -    | -    | -     | -    | -    | -    | -     | -    | -    | -    | -   | -     |    |
| U.A.E.                             | 395              | -    | -    | 145   | -    | -    | -    | -     | -    | -    | -    | -   | 669   |    |
| Jordan                             | 13               | 70   | -    | 12    | 2    | -    | 70   | -     | 57   | -    | -    | -   | 95    |    |



2.2.21 Overseas Traffic (Exports - 1997-98) By Country of Destination (Portwise-Commoditywise) (Contd.)

| Country of Destination/Commodities | (In '000 Tonnes) |        |      |       |          |        |       |         |         |         |          |       |       |      |
|------------------------------------|------------------|--------|------|-------|----------|--------|-------|---------|---------|---------|----------|-------|-------|------|
|                                    | 1                | 2      | 3    | 4     | 5        | 6      | 7     | 8       | 9       | 10      | 11       | 12    | 13    | 14   |
|                                    | Kandla           | Mumbai | J.L. | Mormu | N.Manga- | Cochin | Tutl- | Chennai | Visakh- | Paradip | Calcutta | Halda | Total |      |
|                                    | :                | :      | :    | :     | :        | :      | :     | :       | :       | :       | :        | :     | :     |      |
|                                    |                  |        |      |       |          |        |       |         |         |         |          |       |       |      |
| PRODUCTS                           |                  |        |      |       |          |        |       |         |         |         |          |       |       |      |
| S.Arabia                           | -                | -      | 235  | -     | -        | 93     | 283   | -       | 1189    | 124     | -        | -     | 65    | 1989 |
| U.S.A.                             | -                | -      | 2    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | 2    |
| U.K.                               | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Japan                              | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| France                             | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Italy                              | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Holland                            | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Australia/N.Zealand                | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Belgium                            | -                | -      | 1    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | 1    |
| Singapore                          | -                | -      | 176  | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | 176  |
| Iran                               | -                | -      | -    | -     | -        | 93     | -     | -       | -       | 104     | -        | -     | -     | 373  |
| Iraq                               | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Kuwait                             | -                | -      | 1    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | 1    |
| S.Korea                            | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Other European Countries           | -                | -      | 21   | -     | -        | -      | -     | -       | 29      | -       | -        | -     | -     | 50   |
| Other African Countries            | -                | -      | 1    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | 1    |
| Other Asian Countries              | -                | -      | 9    | -     | -        | -      | 283   | -       | 364     | -       | -        | -     | 65    | 721  |
| Other American Countries           | -                | -      | -    | -     | -        | -      | -     | -       | -       | -       | -        | -     | -     | -    |
| Others                             | -                | -      | 24   | -     | -        | -      | -     | -       | 796     | 20      | -        | -     | -     | 840  |

2.2.21 Overseas Traffic (Exports - 1997-98) By Country of Destination (Portwise-Commoditywise) (Contd.)

| Country of Destination/Commodities | (In '000 Tonnes) |        |      |       |              |        |           |         |               |         |          |        |       |  |
|------------------------------------|------------------|--------|------|-------|--------------|--------|-----------|---------|---------------|---------|----------|--------|-------|--|
|                                    | Kandla           | Mumbai | J.L. | Morwa | N. Mangalore | Cochin | Tuticorin | Chennai | Visakhapatnam | Paradip | Calcutta | Haldia | Total |  |
| 1                                  | 2                | 3      | 4    | 5     | 6            | 7      | 8         | 9       | 10            | 11      | 12       | 13     | 14    |  |
| FOODGRAINS                         | 1099             | 239    |      |       |              |        |           |         |               |         |          |        |       |  |
| S. Arabia                          | 416              | 8      |      |       |              |        |           |         | 72            | 78      | 25       | 9      | 1522  |  |
| U.S.A.                             | 56               | 6      |      |       |              |        |           |         |               |         |          |        | 424   |  |
| U.K.                               |                  | 2      |      |       |              |        |           |         |               |         |          |        | 62    |  |
| Russia                             | 121              | 1      |      |       |              |        |           |         |               |         |          |        | 2     |  |
| Holland                            |                  | 1      |      |       |              |        |           |         |               |         |          |        | 122   |  |
| Canada                             |                  | 2      |      |       |              |        |           |         |               |         |          |        | 1     |  |
| Singapore                          |                  | 2      |      |       |              |        |           |         |               |         |          |        | 2     |  |
| Behrein                            |                  | 1      |      |       |              |        |           |         |               |         |          |        | 1     |  |
| Germany                            |                  |        |      |       |              |        |           |         |               |         |          |        | 2     |  |
| Kuwait                             | 41               | 4      |      |       |              |        |           |         |               |         |          |        | 1     |  |
| Oman                               |                  | 3      |      |       |              |        |           |         |               |         |          |        |       |  |
| Dubai                              | 2                | 35     |      |       |              |        |           |         |               |         |          |        | 45    |  |
| Other European Countries           | 8                | 3      |      |       |              |        |           |         |               |         |          |        | 3     |  |
| Other African Countries            | 239              | 89     |      |       |              |        |           |         |               |         |          |        | 37    |  |
| Other Asian Countries              | 97               | 42     |      |       |              |        |           |         |               |         |          |        | 11    |  |
| Others                             | 119              | 40     |      |       |              |        |           | 67      | 78            |         | 25       | 9      | 328   |  |
|                                    |                  |        |      |       |              |        |           | 5       |               |         |          |        | 240   |  |
|                                    |                  |        |      |       |              |        |           |         |               |         |          |        | 242   |  |

2.2.21 Overseas Traffic (Exports - 1997-98) By Country of Destination (Portwise-Commoditywise) (Contd.)

| Country of Destination/Commodities | (In '000 Tonnes) |     |   |   |   |   |    |   |     |     |    |     |     |      |
|------------------------------------|------------------|-----|---|---|---|---|----|---|-----|-----|----|-----|-----|------|
|                                    | 1                | 2   | 3 | 4 | 5 | 6 | 7  | 8 | 9   | 10  | 11 | 12  | 13  | 14   |
|                                    |                  |     |   |   |   |   |    |   |     |     |    |     |     |      |
| IRON & STEEL                       | 54               | 340 | - | - | - | - | 3  | - | 118 | 848 | 19 | 264 | 341 | 1987 |
| U.S.A.                             | -                | 19  | - | - | - | - | 1  | - | 36  | 124 | -  | -   | 24  | 204  |
| U.K.                               | -                | 5   | - | - | - | - | -  | - | -   | 33  | -  | 12  | -   | 50   |
| Belgium                            | -                | 10  | - | - | - | - | -  | - | -   | 88  | -  | -   | -   | 98   |
| Japan                              | -                | 1   | - | - | - | - | -  | - | 1   | 49  | -  | -   | -   | 51   |
| Russia                             | -                | -   | - | - | - | - | -  | - | -   | 38  | -  | -   | -   | 38   |
| Germany                            | -                | 3   | - | - | - | - | -  | - | 3   | -   | -  | -   | -   | 6    |
| Canada                             | -                | -   | - | - | - | - | -  | - | 7   | 10  | -  | -   | -   | 17   |
| Australia/N.Zealand                | -                | 5   | - | - | - | - | -  | - | -   | -   | -  | -   | -   | 5    |
| Kuwait                             | -                | 2   | - | - | - | - | -  | - | -   | -   | -  | -   | -   | 2    |
| Other European countries           | -                | 11  | - | - | - | - | 1  | - | 22  | 79  | -  | -   | -   | 113  |
| Other African countries            | -                | 34  | - | - | - | - | -  | - | 1   | 9   | -  | -   | -   | 44   |
| Other Asian countries              | -                | 122 | - | - | - | - | 1  | - | 47  | 396 | 19 | 115 | 279 | 979  |
| Others                             | 54               | 128 | - | - | - | - | -  | - | 1   | 22  | -  | 137 | 38  | 380  |
| MACHINERY                          | -                | 78  | - | - | - | - | 12 | - | 36  | -   | -  | -   | -   | 126  |
| U.S.A.                             | -                | 5   | - | - | - | - | -  | - | 9   | -   | -  | -   | -   | 14   |
| Russia                             | -                | -   | - | - | - | - | -  | - | -   | -   | -  | -   | -   | -    |
| Japan                              | -                | 1   | - | - | - | - | -  | - | 1   | -   | -  | -   | -   | 2    |
| Germany                            | -                | 1   | - | - | - | - | -  | - | 3   | -   | -  | -   | -   | 4    |
| Other African Countries            | -                | 14  | - | - | - | - | -  | - | 4   | -   | -  | -   | -   | 18   |
| Other European Countries           | -                | 4   | - | - | - | - | 9  | - | 6   | -   | -  | -   | -   | 18   |
| Middle East                        | -                | -   | - | - | - | - | -  | - | -   | -   | -  | -   | -   | -    |
| Other Asian Countries              | -                | 37  | - | - | - | - | 3  | - | 7   | -   | -  | -   | -   | 47   |
| S. America                         | -                | -   | - | - | - | - | -  | - | -   | -   | -  | -   | -   | -    |
| Others                             | -                | 16  | - | - | - | - | 1  | - | 6   | -   | -  | -   | -   | 23   |



2.2.21 Overseas Traffic (Exports - 1997-98) By Country of Destination (Portwise-Commoditywise) (Contd.)

| Country of Destination/<br>Commodities | (In '000 Tonnes) |   |   |    |       |      |   |   |      |      |      |    |    |       |
|----------------------------------------|------------------|---|---|----|-------|------|---|---|------|------|------|----|----|-------|
|                                        | 1                | 2 | 3 | 4  | 5     | 6    | 7 | 8 | 9    | 10   | 11   | 12 | 13 | 14    |
|                                        |                  |   |   |    |       |      |   |   |      |      |      |    |    |       |
| IRON ORE                               | -                | - | - | 80 | 18625 | 6107 | - | - | 6232 | 3740 | 1018 | -  | -  | 35802 |
| Japan                                  | -                | - | - | -  | 9581  | 2114 | - | - | 2726 | 3512 | 226  | -  | -  | 18159 |
| Korea (S)                              | -                | - | - | -  | 1088  | -    | - | - | -    | -    | -    | -  | -  | 1088  |
| West Indies                            | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Romania                                | -                | - | - | -  | 587   | -    | - | - | -    | -    | -    | -  | -  | 587   |
| Italy                                  | -                | - | - | -  | 822   | -    | - | - | -    | -    | -    | -  | -  | 822   |
| Pakistan                               | -                | - | - | -  | 415   | -    | - | - | -    | -    | -    | -  | -  | 415   |
| U.A.E.                                 | -                | - | - | -  | 143   | -    | - | - | -    | -    | -    | -  | -  | 143   |
| Holland                                | -                | - | - | -  | 919   | -    | - | - | -    | -    | -    | -  | -  | 919   |
| Belgium                                | -                | - | - | -  | 237   | -    | - | - | -    | -    | -    | -  | -  | 237   |
| Korea (N)                              | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Bahrain                                | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Australia                              | -                | - | - | -  | -     | 627  | - | - | -    | -    | -    | -  | -  | 627   |
| Iraq                                   | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Germany                                | -                | - | - | -  | 147   | -    | - | - | -    | -    | -    | -  | -  | 147   |
| Turkey                                 | -                | - | - | -  | 311   | 98   | - | - | -    | -    | -    | -  | -  | 409   |
| Hungary                                | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Czechoslovakia                         | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| China                                  | -                | - | - | -  | 3660  | 1342 | - | - | -    | 228  | 614  | -  | -  | 5844  |
| U.S.A.                                 | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Oman                                   | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Singapore                              | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| France                                 | -                | - | - | -  | 470   | -    | - | - | -    | -    | -    | -  | -  | 470   |
| Jordan                                 | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Iran                                   | -                | - | - | -  | -     | 1829 | - | - | -    | -    | -    | -  | -  | 1829  |
| Europe                                 | -                | - | - | -  | -     | -    | - | - | -    | -    | -    | -  | -  | -     |
| Others                                 | -                | - | - | 80 | 245   | 97   | - | - | 3506 | -    | 178  | -  | -  | 4106  |

Note : Iron ore & Pellet in New Mangalore & Mormugao.

# 2.3.1 Passenger Traffic At Major Ports In India

(In '000)

|               |      | Overseas                      |       | Coastal                       |            | Total                         |       |       |       |
|---------------|------|-------------------------------|-------|-------------------------------|------------|-------------------------------|-------|-------|-------|
| Port/Year     |      | Emarked : Disembarked : Total |       | Emarked : Disembarked : Total |            | Emarked : Disembarked : Total |       |       |       |
| (1)           | (2)  | (3)                           | (4)   | (5)                           | (6)        | (7)                           | (8)   | (9)   | (10)  |
| <b>KANDLA</b> |      |                               |       |                               |            |                               |       |       |       |
| 1965-66       | (a)  | (a)                           | (a)   | 90.7                          | 83.8       | 174.5                         | 90.7  | 83.8  | 174.5 |
| 1970-71       | -    | -                             | -     | 29.7                          | 29.9       | 59.6                          | 29.7  | 29.9  | 59.6  |
| 1988-89       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1989-90       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1990-91       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1991-92       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1992-93       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1993-94       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1994-95       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1995-96       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1996-97       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| 1997-98       | -    | -                             | -     | -                             | No Traffic | -                             | -     | -     | -     |
| <b>MUMBAI</b> |      |                               |       |                               |            |                               |       |       |       |
| 1965-66       | 67.8 | 75.9                          | 143.7 | 309.4                         | 294.9      | 604.3                         | 377.2 | 370.8 | 748.0 |
| 1970-71       | 50.7 | 52.9                          | 103.6 | 248.7                         | 230.9      | 479.6                         | 299.4 | 283.8 | 583.2 |
| 1980-81       | 17.9 | 20.9                          | 38.8  | 121.8                         | 116.1      | 237.9                         | 139.7 | 137.0 | 276.7 |
| 1985-86       | 6.3  | 6.2                           | 12.5  | 121.9                         | 124.1      | 246.0                         | 128.2 | 130.3 | 258.5 |
| 1986-87       | 5.1  | 3.5                           | 8.6   | 123.9                         | 123.2      | 247.1                         | 129.0 | 126.7 | 255.7 |
| 1987-88       | 6.3  | 7.3                           | 13.6  | 117.5                         | 119.9      | 237.4                         | 123.8 | 127.2 | 251.0 |
| 1988-89       | 6.3  | 7.0                           | 13.3  | 11.6                          | 9.8        | 21.4                          | 17.9  | 16.8  | 34.7  |
| 1989-90       | 8.7  | 9.1                           | 17.8  | -                             | -          | -                             | 8.7   | 9.1   | 17.8  |
| 1990-91       | 5.8  | 9.1                           | 14.9  | -                             | -          | -                             | 5.8   | 9.1   | 14.9  |
| 1991-92       | 6.9  | 7.3                           | 14.2  | -                             | -          | -                             | 6.9   | 7.3   | 14.2  |
| 1992-93       | 10.3 | 9.0                           | 19.3  | -                             | -          | -                             | 10.3  | 9.0   | 19.3  |
| 1993-94       | 7.2  | 8.6                           | 15.8  | -                             | -          | -                             | 7.2   | 8.6   | 15.8  |
| 1994-95       | 7.0  | 12.9                          | 19.9  | 31.3                          | 26.3       | 57.6                          | 38.3  | 39.2  | 77.5  |
| 1995-96       | 9.0  | 12.9                          | 21.9  | 31.4                          | 34.4       | 65.8                          | 40.4  | 47.3  | 87.7  |
| 1996-97       | 3.2  | 8.4                           | 11.6  | 25.2                          | 34.0       | 59.2                          | 28.4  | 42.4  | 70.8  |
| 1997-98       | 4.8  | 12.5                          | 17.3  | 22.9                          | 28.4       | 51.3                          | 27.7  | 40.9  | 68.6  |

# 2.3.1 Passenger Traffic At Major Ports In India (Contd.)

(In '000)

| Port/Year        | Overseas |             | Coastal  |             | Total      |             |
|------------------|----------|-------------|----------|-------------|------------|-------------|
|                  | Embarked | Disembarked | Embarked | Disembarked | Embarked   | Disembarked |
| (1)              | (2)      | (3)         | (4)      | (5)         | (6)        | (7)         |
| (8)              | (9)      | (10)        |          |             |            |             |
| JAWAHARLAL NEHRU |          |             |          |             |            |             |
| 1990-91          |          |             |          |             | No Traffic |             |
| 1991-92          |          |             |          |             | No Traffic |             |
| 1992-93          |          |             |          |             | No Traffic |             |
| 1993-94          |          |             |          |             | No Traffic |             |
| 1994-95          |          |             |          |             | No Traffic |             |
| 1995-96          |          |             |          |             | No Traffic |             |
| 1996-97          |          |             |          |             | No Traffic |             |
| 1997-98          |          |             |          |             | No Traffic |             |
| MORMUGAO         |          |             |          |             |            |             |
| 1965-66          | 0.4      | 1.3         | 1.7      | 10.1        | 9.6        | 19.7        |
| 1970-71          | -        | 1.4         | 1.4      | 1.4         | 0.1        | 1.5         |
| 1975-76          | -        | 0.2         | 0.2      | -           | -          | -           |
| 1988-89          |          |             |          |             | No Traffic |             |
| 1989-90          |          |             |          |             | No Traffic |             |
| 1990-91          |          |             |          |             | No Traffic |             |
| 1991-92          |          |             |          |             | No Traffic |             |
| 1992-93          |          |             |          |             | No Traffic |             |
| 1993-94          |          |             |          |             | No Traffic |             |
| 1994-95          |          |             |          |             | No Traffic |             |
| 1995-96          |          |             |          |             | No Traffic |             |
| 1996-97          |          |             |          |             | No Traffic |             |
| 1997-98          |          |             |          |             | No Traffic |             |

## (In '000)

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# 2.3.1 Passenger Traffic At Major Ports In India (Contd.)

(In '000)

| Port/Year     | Overseas  |              | Coastal |           | Total        |       |      |      |      |
|---------------|-----------|--------------|---------|-----------|--------------|-------|------|------|------|
|               | Embarkeed | Disembarkeed | Total   | Embarkeed | Disembarkeed | Total |      |      |      |
| (1)           | (2)       | (3)          | (4)     | (5)       | (6)          | (7)   | (8)  | (9)  | (10) |
| CHENNAI       |           |              |         |           |              |       |      |      |      |
| 1970-71       | 24.7      | 35.4         | 60.1    | 8.9       | 8.0          | 16.9  | 33.6 | 43.4 | 77.0 |
| 1975-76       | 20.9      | 15.9         | 36.8    | 15.1      | 13.8         | 28.9  | 36.0 | 29.7 | 65.7 |
| 1985-86       | 2.0       | 3.0          | 5.0     | 24.2      | 23.2         | 47.4  | 26.2 | 26.2 | 52.4 |
| 1986-87       | 2.3       | 3.7          | 6.0     | 27.0      | 24.3         | 51.3  | 29.3 | 28.0 | 57.3 |
| 1987-88       | 0.4       | 0.6          | 1.0     | 34.8      | 35.6         | 70.4  | 35.2 | 36.2 | 71.4 |
| 1988-89       | 0.6       | 0.5          | 1.1     | 37.2      | 34.2         | 71.4  | 37.8 | 34.7 | 72.5 |
| 1989-90       | neg.      | 0.9          | 0.9     | 30.0      | 25.8         | 55.8  | 30.0 | 26.7 | 56.7 |
| 1990-91       | neg.      | 0.1          | 0.1     | 31.3      | 27.6         | 58.9  | 31.3 | 27.7 | 59.0 |
| 1991-92       | 7.0       | 1.4          | 8.4     | 27.2      | 25.9         | 53.1  | 34.2 | 27.3 | 61.5 |
| 1992-93       | 6.4       | 0.9          | 7.3     | 34.3      | 32.6         | 66.9  | 40.7 | 33.5 | 74.2 |
| 1993-94       | 6.9       | -            | 6.9     | 41.2      | 37.3         | 78.5  | 48.1 | 37.3 | 85.4 |
| 1994-95       | 10.1      | -            | 10.1    | 38.2      | 32.4         | 70.6  | 48.3 | 32.4 | 80.7 |
| 1995-96       | 3.3       | ...          | 3.3     | 42.6      | 39.9         | 82.5  | 45.9 | 39.9 | 85.8 |
| 1996-97       | 3.9       | ...          | 3.9     | 40.1      | 38.1         | 78.2  | 44.0 | 38.1 | 82.1 |
| 1997-98       | (a)       | (a)          | (a)     | 37.3      | 38.9         | 76.2  | 37.3 | 38.9 | 76.2 |
| VISAKHAPATNAM |           |              |         |           |              |       |      |      |      |
| 1985-86       | -         | -            | -       | 1.8       | 2.0          | 3.8   | 1.8  | 2.0  | 3.8  |
| 1986-87       | -         | -            | -       | 4.5       | 4.8          | 9.3   | 4.5  | 4.8  | 9.3  |
| 1987-88       | -         | -            | -       | 3.0       | 1.4          | 4.4   | 3.0  | 1.4  | 4.4  |
| 1988-89       | -         | -            | -       | 1.3       | 1.1          | 2.4   | 1.3  | 1.1  | 2.4  |
| 1989-90       | -         | -            | -       | 2.2       | 4.2          | 6.4   | 2.2  | 4.2  | 6.4  |
| 1990-91       | -         | -            | -       | 7.6       | 7.9          | 15.5  | 7.6  | 7.9  | 15.5 |
| 1991-92       | -         | -            | -       | 2.7       | 3.3          | 6.0   | 2.7  | 3.3  | 6.0  |
| 1992-93       | -         | -            | -       | 2.5       | 1.8          | 4.3   | 2.5  | 1.8  | 4.3  |
| 1993-94       | -         | -            | -       | 4.6       | 7.4          | 12.0  | 4.6  | 7.4  | 12.0 |
| 1994-95       | -         | -            | -       | 3.6       | 4.8          | 8.4   | 3.6  | 4.8  | 8.4  |
| 1995-96       | -         | -            | -       | 3.7       | 4.0          | 7.7   | 3.7  | 4.0  | 7.7  |
| 1996-97       | -         | -            | -       | 6.0       | 6.9          | 12.9  | 6.0  | 6.9  | 12.9 |
| 1997-98       | -         | -            | -       | 6.1       | 5.6          | 11.7  | 6.1  | 5.6  | 11.7 |

(a) Included in Coastal.

2.3.1 Passenger Traffic At Major Ports In India (Contd..)

|                  |     | (In '000) |             |         |          |             |       |          |             |
|------------------|-----|-----------|-------------|---------|----------|-------------|-------|----------|-------------|
|                  |     | Overseas  |             | Coastal |          |             |       | Total    |             |
| Port/Year        |     | Embarked  | Disembarked | Total   | Embarked | Disembarked | Total | Embarked | Disembarked |
| (1)              | (2) | (3)       | (4)         | (5)     | (6)      | (7)         | (8)   | (9)      | (10)        |
| <b>TUTICORIN</b> |     |           |             |         |          |             |       |          |             |
| 1990-91          |     |           |             |         | No       | Traffic     |       |          |             |
| 1991-92          |     |           |             |         | No       | Traffic     |       |          |             |
| 1992-93          |     |           |             |         | No       | Traffic     |       |          |             |
| 1993-94          |     |           |             |         | No       | Traffic     |       |          |             |
| 1994-95          |     |           |             |         | No       | Traffic     |       |          |             |
| 1995-96          |     |           |             |         | No       | Traffic     |       |          |             |
| 1996-97          |     |           |             |         | No       | Traffic     |       |          |             |
| 1997-98          |     |           |             |         | No       | Traffic     |       |          |             |
| <b>PARADIP</b>   |     |           |             |         |          |             |       |          |             |
| 1997-98          | 0.7 | 0.7       | 1.4         | -       | -        | -           | 0.7   | 0.7      | 1.4         |

# 2.3.1 Passenger Traffic At Major Ports In India (Contd..)

(In '000)

| Port/Year      | Overseas   |               | Coastal |            | Total         |       |      |      |      |
|----------------|------------|---------------|---------|------------|---------------|-------|------|------|------|
|                | Embararked | Disembararked | Total   | Embararked | Disembararked | Total |      |      |      |
| (1)            | (2)        | (3)           | (4)     | (5)        | (6)           | (7)   | (8)  | (9)  | (10) |
| CALCUTTA/HAUDA |            |               |         |            |               |       |      |      |      |
| 1965-66        | (a)        | (a)           | (a)     | 10.1       | 0.1           | 10.2  | 10.1 | 0.1  | 10.2 |
| 1970-71        | 0.6        | 0.6           | 1.2     | 9.1        | 8.0           | 17.1  | 9.7  | 8.6  | 18.3 |
| 1975-76        | -          | -             | -       | 13.2       | 10.7          | 23.9  | 13.2 | 10.7 | 23.9 |
| 1980-81        | -          | -             | -       | 14.6       | 11.0          | 25.6  | 14.6 | 11.0 | 25.6 |
| 1985-86        | -          | -             | -       | 25.7       | 22.6          | 48.3  | 25.7 | 22.6 | 48.3 |
| 1986-87        | -          | -             | -       | 24.4       | 22.2          | 46.6  | 24.4 | 22.2 | 46.6 |
| 1987-88        | -          | -             | -       | 27.3       | 21.1          | 48.4  | 27.3 | 21.1 | 48.4 |
| 1988-89        | -          | -             | -       | 22.2       | 19.6          | 41.8  | 22.2 | 19.6 | 41.8 |
| 1989-90        | -          | -             | -       | 20.3       | 16.6          | 36.9  | 20.3 | 16.6 | 36.9 |
| 1990-91        | -          | -             | -       | 12.3       | 11.6          | 23.9  | 12.3 | 11.6 | 23.9 |
| 1991-92        | -          | -             | -       | 13.8       | 11.5          | 25.3  | 13.8 | 11.5 | 25.3 |
| 1992-93        | -          | -             | -       | 21.6       | 19.1          | 40.7  | 21.6 | 19.1 | 40.7 |
| 1993-94        | -          | -             | -       | 22.8       | 17.5          | 40.3  | 22.8 | 17.5 | 40.3 |
| 1994-95        | -          | -             | -       | 20.5       | 18.4          | 38.9  | 20.5 | 18.4 | 38.9 |
| 1995-96        | -          | -             | -       | 21.7       | 16.7          | 38.4  | 21.7 | 16.7 | 38.4 |
| 1996-97        | -          | -             | -       | 24.0       | 21.8          | 45.8  | 24.0 | 21.8 | 45.8 |
| 1997-98        | -          | -             | -       | 19.9       | 15.1          | 35.0  | 19.9 | 15.1 | 35.0 |

(a) : Included in Coastal.

### 2.3.1 Passenger Traffic At Major Ports In India (Contd...)

(In '000)

|                        |         | Overseas    |       | Coastal |             | Total |                               |
|------------------------|---------|-------------|-------|---------|-------------|-------|-------------------------------|
|                        |         | :           |       | :       |             | :     |                               |
| Port/Year              | Emarked | Disembarked | Total | Emarked | Disembarked | Total | Emarked : Disembarked : Total |
| (1)                    | (2)     | (3)         | (4)   | (5)     | (6)         | (7)   | (8) (9) (10)                  |
| <b>ALL MAJOR PORTS</b> |         |             |       |         |             |       |                               |
| 1965-66                | 95.6    | 158.9       | 254.5 | 425.5   | 393.6       | 819.1 | 521.1 552.5 1073.6            |
| 1970-71                | 76.0    | 90.3        | 166.3 | 299.1   | 280.0       | 579.1 | 375.1 370.3 745.4             |
| 1975-76                | 98.2    | 52.1        | 150.3 | 117.2   | 103.0       | 220.2 | 215.4 155.1 370.5             |
| 1980-81                | 34.1    | 36.1        | 70.2  | 163.1   | 154.9       | 318.0 | 197.2 191.0 388.2             |
| 1985-86                | 8.6     | 9.6         | 18.2  | 190.0   | 191.7       | 381.7 | 198.6 201.3 399.9             |
| 1986-87                | 8.0     | 7.9         | 15.9  | 197.0   | 193.1       | 390.1 | 205.0 201.0 406.0             |
| 1987-88                | 7.1     | 8.8         | 15.9  | 198.8   | 199.0       | 397.8 | 205.9 207.8 413.7             |
| 1988-89                | 6.9     | 7.5         | 14.4  | 93.7    | 85.2        | 178.9 | 100.6 92.7 193.3              |
| 1989-90                | 9.4     | 10.7        | 20.1  | 72.8    | 66.9        | 139.7 | 82.2 77.6 159.8               |
| 1990-91                | 7.2     | 10.5        | 17.7  | 72.3    | 66.4        | 138.7 | 79.5 76.9 156.4               |
| 1991-92                | 15.6    | 10.4        | 26.0  | 70.6    | 65.8        | 136.4 | 86.2 76.2 162.4               |
| 1992-93                | 21.0    | 14.3        | 35.3  | 85.8    | 81.6        | 167.4 | 106.8 95.9 202.7              |
| 1993-94                | 15.3    | 9.9         | 25.2  | 102.9   | 87.5        | 190.4 | 118.2 97.4 215.6              |
| 1994-95                | 18.8    | 14.7        | 33.5  | 120.1   | 112.6       | 232.7 | 138.9 127.3 266.2             |
| 1995-96                | 20.9    | 21.5        | 42.4  | 124.3   | 129.2       | 253.5 | 145.2 150.7 295.9             |
| 1996-97                | 11.7    | 13.1        | 24.8  | 118.8   | 133.6       | 252.4 | 130.5 146.7 277.2             |
| 1997-98                | 12.6    | 20.2        | 32.8  | 114.5   | 118.7       | 233.2 | 127.1 138.9 266.0             |

## 2.4.1 Number, Type And Size of Ships Handled (Major Ports)

(GRT in '000)

| Port        | Year    | Container |      | Break Bulk |      | Dry Bulk |       | Liquid Bulk |       | Lash |      | Ro-Ro |      | Total |       |
|-------------|---------|-----------|------|------------|------|----------|-------|-------------|-------|------|------|-------|------|-------|-------|
|             |         | No.       | GRT  | No.        | GRT  | No.      | GRT   | No.         | GRT   | No.  | GRT  | No.   | GRT  | No.   | GRT   |
| Kandla      | 1991-92 | 61        | 450  | 239        | 1941 | 110      | 1219  | 589         | 15441 | -    | -    | 5     | 186  | 1004  | 19237 |
|             | 1992-93 | 79        | 617  | 208        | 1672 | 145      | 1779  | 611         | 16749 | -    | -    | 2     | 50   | 1045  | 20867 |
|             | 1993-94 | 107       | 750  | 283        | 2211 | 208      | 1910  | 643         | 18224 | -    | -    | -     | -    | 1241  | 23095 |
|             | 1994-95 | 104       | 827  | 425        | 2357 | 177      | 1763  | 684         | 18747 | -    | -    | -     | -    | 1390  | 23694 |
|             | 1995-96 | 106       | 886  | 251        | 2358 | 159      | 2008  | 789         | 20898 | -    | -    | -     | -    | 1305  | 26150 |
|             | 1996-97 | 130       | 1364 | 305        | 2527 | 224      | 2783  | 868         | 23434 | -    | -    | -     | -    | 1527  | 30108 |
| Mumbai      | 1997-98 | 133       | 1495 | 330        | 2854 | 221      | 3096  | 1001        | 26062 | -    | -    | -     | -    | 1685  | 33507 |
|             | 1991-92 | 528       | 5430 | 654        | 5110 | 73       | 730   | 648         | 15320 | 25   | 810  | -     | -    | 1928  | 27400 |
|             | 1992-93 | 652       | 6540 | 612        | 4850 | 151      | 1450  | 634         | 14890 | 20   | 650  | -     | -    | 2069  | 28380 |
|             | 1993-94 | 653       | 6980 | 600        | 4780 | 129      | 1030  | 680         | 15220 | 32   | 1060 | -     | -    | 2094  | 29070 |
|             | 1994-95 | 801       | 8370 | 681        | 5860 | 126      | 1090  | 694         | 16120 | 28   | 1050 | -     | -    | 2230  | 32490 |
|             | 1995-96 | 776       | 8590 | 627        | 5310 | 108      | 750   | 747         | 16160 | 18   | 550  | -     | -    | 2276  | 31360 |
| J. L. Nehru | 1996-97 | 863       | 8960 | 654        | 5520 | 100      | 740   | 751         | 16060 | 12   | 280  | -     | -    | 2380  | 31560 |
|             | 1997-98 | 779       | 8360 | 681        | 6580 | 102      | 920   | 661         | 14570 | 10   | 270  | -     | -    | 2233  | 30700 |
|             | 1991-92 | 237       | ...  | -          | -    | 54       | ...   | -           | -     | -    | -    | 53    | ...  | 344   | ...   |
|             | 1992-93 | 319       | 3503 | 10         | 79   | 39       | 966   | 2           | 18    | -    | -    | 56    | 1538 | 426   | 6104  |
|             | 1993-94 | 300       | 4608 | 1          | 13   | 43       | 904   | -           | -     | -    | -    | 78*   | 2316 | 422   | 7841  |
|             | 1994-95 | 388       | 2730 | -          | -    | 60       | 855   | 3           | 14    | -    | -    | 895   | 1017 | 540   | 4616  |
| Mormugao    | 1995-96 | 357       | 5986 | -          | -    | 81       | 1894  | 14          | 190   | -    | -    | 945   | 3178 | 546   | 11248 |
|             | 1996-97 | 408       | 7312 | -          | -    | 74       | 1713  | 64          | 799   | -    | -    | 94#   | 3054 | 640   | 12878 |
|             | 1997-98 | 421       | 7931 | 1          | 3    | 54       | 1340  | 86          | 1144  | -    | -    | 68    | 2077 | 630   | 12495 |
|             | 1991-92 | -         | -    | 16         | 124  | 178      | 7101  | 267         | 4281  | -    | -    | -     | -    | 461   | 11506 |
|             | 1992-93 | 11        | 78   | 21         | 179  | 292      | 8397  | 307         | 4937  | -    | -    | -     | -    | 631   | 13591 |
|             | 1993-94 | 22        | 134  | 42         | 382  | 325      | 9586  | 332         | 5735  | -    | -    | -     | -    | 721   | 15837 |
| Total       | 1994-95 | 27        | 179  | 2          | 23   | 285      | 10006 | 327         | 5638  | -    | -    | -     | -    | 636   | 15846 |
|             | 1995-96 | 21        | 129  | 7          | 53   | 313      | 10113 | 296         | 5014  | -    | -    | -     | -    | 637   | 15309 |
|             | 1996-97 | 30        | 159  | 12         | 98   | 268      | 9395  | 197         | 3468  | -    | -    | -     | -    | 507   | 13120 |
|             | 1997-98 | 29        | 194  | 18         | 160  | 366      | 11608 | 195         | 3326  | -    | -    | -     | -    | 608   | 15288 |

\* Includes Naval And Other Ships.

\$ Includes car carriers &amp; General ships.

# Includes Car carriers, Navy and General &amp; other ships.

2.4.1 Number, Type And Size Of Ships Handled (Major Ports) (Contd.) (GRT in '000)

| Port         | Year    | Container |      | Break Bulk |      | Dry Bulk |       | Liquid Bulk |       | Lash |     | Ro-Ro |     | Total |       |
|--------------|---------|-----------|------|------------|------|----------|-------|-------------|-------|------|-----|-------|-----|-------|-------|
|              |         | No.       | GRT  | No.        | GRT  | No.      | GRT   | No.         | GRT   | No.  | GRT | No.   | GRT | No.   | GRT   |
| N. Mangalore | 1991-92 | 18        | 66   | 136        | 1161 | 189      | 4301  | 149         | 1973  | -    | -   | -     | -   | 492   | 7501  |
|              | 1992-93 | 18        | 53   | 143        | 1215 | 150      | 3700  | 142         | 1997  | -    | -   | -     | -   | 453   | 6965  |
|              | 1993-94 | 20        | 59   | 114        | 967  | 174      | 4573  | 174         | 2359  | -    | -   | -     | -   | 482   | 7958  |
|              | 1994-95 | 11        | 33   | 123        | 1068 | 179      | 4195  | 201         | 2816  | -    | -   | -     | -   | 514   | 8112  |
|              | 1995-96 | -         | -    | 122        | 1115 | 175      | 4481  | 208         | 2617  | -    | -   | -     | -   | 505   | 8213  |
|              | 1996-97 | -         | -    | 145        | 1486 | 163      | 4039  | 336         | 6797  | -    | -   | -     | -   | 644   | 12322 |
|              | 1997-98 | -         | -    | 157        | 1648 | 184      | 4792  | 388         | 8608  | -    | -   | -     | -   | 729   | 15048 |
| Cochin       | 1991-92 | 250       | 1325 | 100        | 984  | 33       | 474   | 277         | 6883  | 10   | 295 | -     | -   | 670   | 9961  |
|              | 1992-93 | 227       | 1050 | 90         | 753  | 33       | 541   | 289         | 7422  | 3    | 86  | -     | -   | 642   | 9852  |
|              | 1993-94 | 267       | 1469 | 90         | 675  | 31       | 356   | 263         | 6812  | 5    | 115 | -     | -   | 656   | 9427  |
|              | 1994-95 | 275       | 1652 | 59         | 402  | 34       | 376   | 294         | 8065  | -    | -   | -     | -   | 662   | 10495 |
|              | 1995-96 | 261       | 1747 | 105        | 782  | 43       | 962   | 388         | 9985  | -    | -   | -     | -   | 797   | 13476 |
|              | 1996-97 | 278       | 2202 | 134        | 760  | 41       | 885   | 375         | 9928  | -    | -   | -     | -   | 828   | 13775 |
|              | 1997-98 | 314       | 2259 | 120        | 504  | 55       | 830   | 383         | 1131  | -    | -   | -     | -   | 872   | 14724 |
| Tuticorin    | 1991-92 | 167       | 590  | 224        | 1027 | 163      | 3446  | 141         | 1845  | -    | -   | -     | -   | 695   | 6908  |
|              | 1992-93 | 145       | 561  | 300        | 1080 | 174      | 3687  | 129         | 1808  | -    | -   | -     | -   | 748   | 7136  |
|              | 1993-94 | 171       | 734  | 336        | 1052 | 193      | 4371  | 104         | 1391  | 2    | 72  | -     | -   | 806   | 7620  |
|              | 1994-95 | 165       | 873  | 352        | 1300 | 234      | 4950  | 125         | 1595  | 2    | 47  | -     | -   | 878   | 8765  |
|              | 1995-96 | 181       | 797  | 333        | 1365 | 297      | 6252  | 128         | 1616  | -    | -   | -     | -   | 939   | 10030 |
|              | 1996-97 | 182       | 951  | 294        | 1325 | 292      | 6214  | 137         | 1841  | -    | -   | -     | -   | 905   | 10331 |
|              | 1997-98 | 238       | 1284 | 287        | 1468 | 313      | 6696  | 146         | 2217  | -    | -   | -     | -   | 984   | 11665 |
| Chennai      | 1991-92 | 372       | 2779 | 222        | 1428 | 321      | 8299  | 481         | 10944 | 20   | 598 | -     | -   | 1416  | 24048 |
|              | 1992-93 | 322       | 2278 | 226        | 1724 | 364      | 9151  | 480         | 11344 | 16   | 685 | -     | -   | 1408  | 25182 |
|              | 1993-94 | 306       | 2543 | 232        | 1718 | 358      | 8482  | 460         | 11225 | 14   | 400 | -     | -   | 1370  | 24368 |
|              | 1994-95 | 327       | 3094 | 218        | 1639 | 378      | 9515  | 486         | 12663 | 15   | 429 | -     | -   | 1424  | 27340 |
|              | 1995-96 | 423       | 3791 | 204        | 1614 | 443      | 10735 | 482         | 12206 | 15   | 428 | -     | -   | 1567  | 28774 |
|              | 1996-97 | 461       | 4286 | 230        | 1797 | 422      | 10360 | 516         | 13298 | 15   | 428 | -     | -   | 1644  | 30169 |
|              | 1997-98 | 482       | 4391 | 224        | 1706 | 542      | 13452 | 467         | 12354 | 16   | 457 | -     | -   | 1731  | 32360 |

2.4.1 Number, Type And Size Of Ships Handled (Major Ports) (Contd.) (GRT in '000)

| Port          | Year    | Container |      | Break Bulk |      | Dry Bulk |       | Liquid Bulk |       | Lash |     | Ro-Ro |     | Total |       |
|---------------|---------|-----------|------|------------|------|----------|-------|-------------|-------|------|-----|-------|-----|-------|-------|
|               |         | No.       | GRT  | No.        | GRT  | No.      | GRT   | No.         | GRT   | No.  | GRT | No.   | GRT | No.   | GRT   |
| Visakhapatnam | 1991-92 | 44        | 204  | 67         | 571  | 398      | 10196 | 353         | 7575  | 8    | 235 | -     | -   | 870   | 18781 |
|               | 1992-93 | 49        | 302  | 108        | 956  | 426      | 10063 | 353         | 8420  | 15   | 434 | -     | -   | 951   | 20175 |
|               | 1993-94 | 50        | 334  | 186        | 1805 | 426      | 10421 | 370         | 9256  | 11   | 314 | -     | -   | 1043  | 22130 |
|               | 1994-95 | 37        | 192  | 203        | 1990 | 484      | 11794 | 478         | 11611 | 7    | 200 | -     | -   | 1209  | 25787 |
|               | 1995-96 | 40        | 271  | 280        | 2336 | 499      | 12417 | 490         | 12270 | 16   | 457 | -     | -   | 1325  | 27751 |
|               | 1996-97 | 63        | 508  | 223        | 2256 | 530      | 13674 | 602         | 16399 | 19   | 543 | -     | -   | 1437  | 33380 |
|               | 1997-98 | 68        | 535  | 212        | 2203 | 607      | 15286 | 618         | 15913 | 23   | 653 | -     | -   | 1528  | 34590 |
|               | 1991-92 | 6         | 42   | 15         | 120  | 234      | 5146  | 64          | 990   | 10   | 295 | -     | -   | 329   | 6593  |
|               | 1992-93 | -         | -    | 14         | 106  | 263      | 5890  | 71          | 1222  | 15   | 428 | -     | -   | 363   | 7646  |
|               | 1993-94 | -         | -    | 5          | 47   | 293      | 6216  | 89          | 1556  | 15   | 428 | -     | -   | 402   | 8247  |
| Paradip       | 1994-95 | -         | -    | 13         | 91   | 335      | 7529  | 118         | 1785  | 13   | 371 | -     | -   | 479   | 9776  |
|               | 1995-96 | -         | -    | 6          | 60   | 357      | 8184  | 160         | 2319  | 18   | 561 | -     | -   | 541   | 11124 |
|               | 1996-97 | -         | -    | 11         | 75   | 358      | 8029  | 187         | 2647  | 21   | 630 | -     | -   | 577   | 11381 |
|               | 1997-98 | -         | -    | 2          | 40   | 416      | 9243  | 225         | 3140  | 18   | 536 | -     | -   | 661   | 12959 |
|               | 1991-92 | 109       | 604  | 399        | 2811 | 31       | 237   | 148         | 1291  | 14   | 447 | -     | -   | 701   | 5390  |
|               | 1992-93 | 135       | 724  | 363        | 2506 | 39       | 378   | 216         | 2214  | 15   | 428 | -     | -   | 768   | 6250  |
|               | 1993-94 | 204       | 1222 | 315        | 2129 | 19       | 206   | 201         | 2060  | 14   | 400 | -     | -   | 753   | 6077  |
|               | 1994-95 | 222       | 1215 | 298        | 2241 | 10       | 104   | 211         | 2171  | 15   | 429 | -     | -   | 756   | 6160  |
|               | 1995-96 | 246       | 1339 | 222        | 1651 | 18       | 164   | 306         | 3128  | 14   | 400 | -     | -   | 806   | 6682  |
|               | 1996-97 | 288       | 1634 | 222        | 1732 | 14       | 141   | 336         | 2765  | 17   | 486 | -     | -   | 877   | 6758  |
| Calcutta      | 1997-98 | 336       | 1984 | 251        | 1816 | 13       | 126   | 393         | 4772  | 17   | 486 | -     | -   | 1010  | 9184  |
|               | 1991-92 | 47        | 488  | 9          | 72   | 206      | 4808  | 369         | 8700  | -    | -   | -     | -   | 631   | 14068 |
|               | 1992-93 | 49        | 402  | 19         | 194  | 229      | 5462  | 412         | 9468  | -    | -   | -     | -   | 709   | 15526 |
|               | 1993-94 | 57        | 463  | 35         | 375  | 236      | 5925  | 394         | 9693  | -    | -   | -     | -   | 722   | 16456 |
|               | 1994-95 | 63        | 405  | 48         | 373  | 261      | 6533  | 412         | 11255 | -    | -   | -     | -   | 754   | 18566 |
|               | 1995-96 | 44        | 259  | 42         | 358  | 273      | 6986  | 480         | 12900 | -    | -   | -     | -   | 839   | 20503 |
|               | 1996-97 | 98        | 643  | 45         | 444  | 340      | 8628  | 467         | 13087 | -    | -   | -     | -   | 950   | 22802 |
|               | 1997-98 | 234       | 1465 | 74         | 685  | 370      | 9523  | 597         | 16155 | -    | -   | -     | -   | 1275  | 27828 |
| Kaldia        | 1991-92 | 47        | 488  | 9          | 72   | 206      | 4808  | 369         | 8700  | -    | -   | -     | -   | 631   | 14068 |
|               | 1992-93 | 49        | 402  | 19         | 194  | 229      | 5462  | 412         | 9468  | -    | -   | -     | -   | 709   | 15526 |
|               | 1993-94 | 57        | 463  | 35         | 375  | 236      | 5925  | 394         | 9693  | -    | -   | -     | -   | 722   | 16456 |
|               | 1994-95 | 63        | 405  | 48         | 373  | 261      | 6533  | 412         | 11255 | -    | -   | -     | -   | 754   | 18566 |
|               | 1995-96 | 44        | 259  | 42         | 358  | 273      | 6986  | 480         | 12900 | -    | -   | -     | -   | 839   | 20503 |
|               | 1996-97 | 98        | 643  | 45         | 444  | 340      | 8628  | 467         | 13087 | -    | -   | -     | -   | 950   | 22802 |
|               | 1997-98 | 234       | 1465 | 74         | 685  | 370      | 9523  | 597         | 16155 | -    | -   | -     | -   | 1275  | 27828 |

2.4.1 Number, Type And Size Of Ships Handled (Major Ports) (Contd..)

(GRT in '000)

| Port      | Year    | Container |       | Break Bulk |       | Dry Bulk |       | Liquid Bulk |        | Lash |      | Ro-Ro |      | Total |        |
|-----------|---------|-----------|-------|------------|-------|----------|-------|-------------|--------|------|------|-------|------|-------|--------|
|           |         | No.       | GRT   | No.        | GRT   | No.      | GRT   | No.         | GRT    | No.  | GRT  | No.   | GRT  | No.   | GRT    |
| All Ports | 1991-92 | 1776      | 11912 | 1945       | 14152 | 1801     | 41656 | 3337        | 73270  | 109  | 2950 | 58    | 186  | 9026  | 144126 |
|           | 1992-93 | 2006      | 16108 | 2115       | 15314 | 2305     | 51464 | 3646        | 80489  | 84   | 2711 | 58    | 1588 | 10214 | 167674 |
|           | 1993-94 | 2157      | 19356 | 2239       | 16154 | 2435     | 53980 | 3710        | 83531  | 93   | 2789 | 78    | 2316 | 10712 | 178126 |
|           | 1994-95 | 2420      | 19570 | 2422       | 17344 | 2563     | 58710 | 4028        | 92480  | 80   | 2526 | 89    | 1017 | 11602 | 191647 |
|           | 1995-96 | 2455      | 23795 | 2199       | 17002 | 2766     | 64946 | 4488        | 99303  | 81   | 2396 | 94    | 3178 | 12083 | 210620 |
|           | 1996-97 | 2801      | 28019 | 2275       | 18020 | 2826     | 66601 | 4836        | 110523 | 84   | 2367 | 94    | 3054 | 12916 | 228584 |
|           | 1997-98 | 3034      | 29898 | 2357       | 19667 | 3243     | 76912 | 5160        | 119392 | 84   | 2402 | 68    | 2077 | 13946 | 250348 |

2.4.2 Major Port-Wise Commodity-Wise Capacity

| Commodities      | (1) | (2)      | (3)    | (4)     | (5)           | (6)     | (7)       | (8)    | (9)           | (10)     | (11)   | (12)   | (13)       | (14)   |
|------------------|-----|----------|--------|---------|---------------|---------|-----------|--------|---------------|----------|--------|--------|------------|--------|
|                  |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
|                  |     | Calcutta | Haldia | Paradip | Visakhapatnam | Chennai | Tuticorin | Cochin | New Mangalore | Morungao | Mumbai | Kandla | J.L. Mehru | Total  |
| POL              |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
| As on 31.3.96    |     | 2.40     | 8.50   | -       | 11.50         | 8.50    | 1.10      | 10.50  | 1.00          | 1.50     | 18.00  | 17.00  | -          | 80.00  |
| As on 31.3.97    |     | 3.12     | 8.50   | 0.70    | 11.50         | 8.50    | 1.10      | 10.50  | 7.50          | 1.50     | 21.00  | 21.00  | -          | 94.92  |
| As on 31.3.98    |     | 3.12     | 8.50   | 0.70    | 11.50         | 8.50    | 1.10      | 10.50  | 7.50          | 1.50     | 21.00  | 23.00  | -          | 96.92  |
| As on 31.3.99    |     | 3.40     | 11.00  | 1.50    | 10.80         | 8.50    | 1.00      | 10.50  | 7.50          | 1.50     | 21.00  | 29.00  | -          | 105.70 |
| Iron Ore         |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
| As on 31.3.96    |     | -        | -      | 4.00    | 8.00          | 8.00    | -         | -      | 7.50          | 14.00    | -      | -      | -          | 41.50  |
| As on 31.3.97    |     | -        | -      | 4.00    | 8.00          | 8.00    | -         | -      | 7.50          | 17.00    | -      | -      | -          | 44.50  |
| As on 31.3.98    |     | -        | -      | 4.00    | 8.00          | 8.00    | -         | -      | 7.50          | 17.00    | -      | -      | -          | 44.50  |
| As on 31.3.99    |     | -        | -      | 3.00    | 8.00          | 8.00    | -         | -      | 7.50          | 16.50    | -      | -      | -          | 43.00  |
| Coal             |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
| As on 31.3.96    |     | -        | 5.00   | -       | -             | -       | 3.00      | -      | -             | -        | -      | -      | -          | 8.00   |
| As on 31.3.97    |     | -        | 5.00   | -       | -             | -       | 4.00      | -      | -             | -        | -      | -      | -          | 9.00   |
| As on 31.3.98    |     | -        | 5.00   | -       | -             | -       | 4.00      | -      | -             | -        | -      | -      | -          | 9.00   |
| As on 31.3.99    |     | -        | 6.80   | 4.80    | -             | -       | 4.00      | -      | -             | -        | -      | -      | -          | 15.60  |
| Fertiliser       |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
| As on 31.3.96    |     | -        | 1.80   | 2.00    | 0.35          | -       | -         | 0.40   | -             | -        | -      | 0.50   | 2.90       | 7.95   |
| As on 31.3.97    |     | -        | -      | 1.10    | 0.55          | -       | -         | 0.60   | -             | -        | -      | 0.50   | 2.90       | 5.65   |
| As on 31.3.98    |     | -        | -      | 1.10    | 0.55          | -       | -         | 0.60   | -             | -        | -      | 0.50   | 2.90       | 5.65   |
| As on 31.3.99    |     | -        | -      | 0.85    | 0.50          | -       | -         | 0.60   | -             | -        | -      | -      | 2.90       | 4.85   |
| Break-Bulk Cargo |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
| As on 31.3.96    |     | 2.80     | 1.43   | 2.55    | 3.80          | 3.65    | 2.00      | 1.40   | 1.50          | 0.80     | 7.55   | 3.30   | -          | 30.78  |
| As on 31.3.97    |     | 2.60     | 3.90   | 5.10    | 11.40         | 6.90    | 2.50      | 1.40   | 1.45          | 0.68     | 5.30   | 2.50   | 3.50       | 47.23  |
| As on 31.3.98    |     | 2.60     | 3.90   | 5.10    | 11.40         | 6.90    | 2.95      | 1.40   | 1.45          | 0.68     | 5.30   | 2.50   | 3.50       | 47.68  |
| As on 31.3.99    |     | 1.90     | 4.60   | 1.10    | 11.00         | 7.62    | 2.95      | 1.35   | 1.75          | 0.68     | 4.00   | 8.00   | 2.50       | 47.45  |
| Container        |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
| As on 31.3.96    |     | 1.55     | 0.30   | -       | -             | 1.92    | -         | 0.96   | -             | -        | 1.25   | -      | 3.00       | 8.98   |
| As on 31.3.97    |     | 2.15     | 0.30   | -       | -             | 2.50    | -         | 0.96   | -             | -        | 4.50   | -      | 3.50       | 13.91  |
| As on 31.3.98    |     | 2.15     | 0.30   | -       | -             | 2.50    | -         | 0.96   | -             | -        | 4.50   | -      | 3.50       | 13.91  |
| As on 31.3.99    |     | 3.00     | 0.30   | -       | -             | 2.50    | -         | 1.00   | -             | -        | 5.50   | -      | 10.60      | 22.90  |
| TOTAL            |     |          |        |         |               |         |           |        |               |          |        |        |            |        |
| As on 31.3.96    |     | 6.75     | 17.03  | 8.55    | 23.65         | 22.07   | 6.10      | 13.26  | 10.00         | 16.30    | 26.80  | 20.80  | 5.90       | 177.21 |
| As on 31.3.97    |     | 7.87     | 17.70  | 10.90   | 31.45         | 25.90   | 7.60      | 13.46  | 16.45         | 19.18    | 30.80  | 24.00  | 9.90       | 215.21 |
| As on 31.3.98    |     | 7.87     | 17.70  | 10.90   | 31.45         | 25.90   | 8.05      | 13.46  | 16.45         | 19.18    | 30.80  | 26.00  | 9.90       | 217.66 |
| As on 31.3.99    |     | 8.30     | 22.70  | 11.25   | 30.30         | 26.62   | 7.95      | 13.45  | 16.75         | 18.68    | 30.50  | 37.00  | 16.00      | 239.50 |

Source : Development Wing - MCST

# 2.5.1 Container Handling Facilities - Major Portwise (1997-98)

| Port     | No. of Berths | Vessel Size (IN DWT) | Equipment                |                       |         |                     |
|----------|---------------|----------------------|--------------------------|-----------------------|---------|---------------------|
|          |               |                      | Quay Side Gantry         | Yard Gantry           | Toplift | Tractors : Forklift |
|          |               |                      |                          | Cranes                | Trucks  |                     |
| CALCUTTA | 6             | 15000                |                          | 3x35.5 T (RTG)        | 1x35 T  | 17 2(6.5 T)         |
| HALDIA   | 1             | 40,000               | -                        | 1x30 T (RAIL MOUNTED) | 1       | 1 7                 |
| CHENNAI  | 2             | 20,000 TO 45,000     | 2x35.5 T (RTG)<br>2x40 T | 4x35.5 T              | 9*      | 30 6                |
| COCHIN   | 2             | 10,000 TO 20,000     | 2x40.0 T                 | 3x35.5 T (RTG)        | 5x40TS  | 19 39               |
| J.N.P.T. | 3             | 85000                | 3x35.5 T<br>38x40 T      | 8+6x35.5 T<br>8 (RTG) | -       | 19+19@ 3@           |
|          |               |                      | 1+2 RAIL MOUNTED)        |                       |         |                     |
| MUMBAI   | 8             | 42,000               | 2x35.5 T                 | 3x35.5 T (RTG)        | 4x42T** | - -                 |

Source : All Major Ports/Administrative Reports

\* Includes 3 Reach stackers \$ Includes 2 Reach Stackers.

@ Hired equipments.

\*\* Reach Stackers.

## 2.5.2 Container Traffic Handled At Major Ports

|                                              |         | (In Million Tonnes) |         |         |         |         |         |         |         |         |         |  |  |
|----------------------------------------------|---------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| Item                                         | 1987-88 | 1988-89             | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |  |
| (1)                                          | (2)     | (3)                 | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    | (11)    | (12)    |  |  |
| <b>1. Export</b>                             |         |                     |         |         |         |         |         |         |         |         |         |  |  |
| i) Indian Lines                              | 0.25    | 0.32                | 0.34    | 0.36    | 0.36    | 0.35    | 0.57    | 0.76    | 0.89    | 0.52    | 0.89    |  |  |
| ii) Foreign Lines                            | 2.59    | 2.64                | 3.18    | 3.32    | 3.28    | 3.21    | 5.29    | 7.04    | 8.27    | 10.57   | 10.76   |  |  |
| iii) Total                                   | 2.84    | 2.96                | 3.52    | 3.68    | 3.64    | 3.56    | 5.86    | 7.80    | 9.16    | 11.09   | 11.65   |  |  |
| <b>2. Import</b>                             |         |                     |         |         |         |         |         |         |         |         |         |  |  |
| i) Indian Lines                              | 0.48    | 0.45                | 0.44    | 0.46    | 0.35    | 0.46    | 0.69    | 0.82    | 0.94    | 0.65    | 0.75    |  |  |
| ii) Foreign Lines                            | 2.57    | 2.75                | 3.38    | 3.56    | 2.73    | 3.60    | 5.35    | 6.39    | 7.34    | 9.00    | 8.87    |  |  |
| iii) Total                                   | 3.05    | 3.20                | 3.82    | 4.02    | 3.08    | 4.06    | 6.04    | 7.21    | 8.28    | 9.65    | 9.62    |  |  |
| <b>3. Total</b>                              |         |                     |         |         |         |         |         |         |         |         |         |  |  |
| i) Indian Lines                              | 0.73    | 0.77                | 0.78    | 0.82    | 0.71    | 0.81    | 1.26    | 1.58    | 1.83    | 1.17    | 1.64    |  |  |
| ii) Foreign Lines                            | 5.16    | 5.39                | 6.56    | 6.88    | 6.01    | 6.81    | 10.64   | 13.43   | 15.61   | 19.57   | 19.63   |  |  |
| iii) Total                                   | 5.89    | 6.16                | 7.34    | 7.70    | 6.72    | 7.62    | 11.90   | 15.01   | 17.44   | 20.74   | 21.27   |  |  |
| 4. General Cargo<br>(Break Bulk & Container) | 14.58   | 14.50               | 16.66   | 16.92   | 15.58   | 17.69   | 23.16   | 27.87   | 30.84   | 33.24   | 36.43   |  |  |
| % Of Container Cargo<br>to general cargo     | 40.4    | 42.5                | 44.1    | 45.5    | 43.1    | 43.1    | 51.4    | 53.9    | 56.5    | 62.4    | 58.4    |  |  |

Note : From 1992-93 to 1995-96 separate figures by Indian Lines and Foreign Lines for Import and Export data are not available and the figures are estimated on previous year ratios and for 1996-97 and 1997-98 the figures for Indian/Foreign Lines are estimated on the basis of IPA figures.

**2.5.3 Container Cargo as well as Tare weight  
Of Containers At Major Ports  
During 1997-98**

| (000 'Tonnes) |                    |                |                      |
|---------------|--------------------|----------------|----------------------|
| Port          | Container<br>cargo | Tare<br>weight | Container<br>traffic |
| Kandla        | 1114               | 185            | 1299                 |
| Mumbai        | 6068               | 1220           | 7288                 |
| J.L.Nehru     | 4980               | 1070           | 6050                 |
| Mormugao      | 30                 | 8              | 38                   |
| Cochin        | 815                | 241            | 1056                 |
| Tuticorin     | 913                | 203            | 1116                 |
| Chennai       | 2923               | 79             | 3002                 |
| Visakhapatnam | 116                | 30             | 146                  |
| Calcutta      | 1811               | 311            | 2122                 |
| Haldia        | 324                | 57             | 381                  |
| Total         | 19094              | 3404           | 22498                |

Note:- There was no container traffic at Paradip and New Mangalore Ports.

#### 2.5.5.4 Reefer Container Traffic

| Port          | Year    | Export                                 |                                         | Import                                  |                                         |      |       |
|---------------|---------|----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|------|-------|
|               |         | : 20 ft Containers :<br>: TEUs :Tonnes | : 40 ft Containers :<br>: TEUs : Tonnes | : 20 ft Containers :<br>: TEUs : Tonnes | : 40 ft Containers :<br>: TEUs : Tonnes |      |       |
| Calcutta      | 1995-96 | 914                                    | 14624                                   | 608                                     | 5843                                    | -    | -     |
|               | 1996-97 | 546                                    | 11302                                   | 1174                                    | 18585                                   | 22   | 400   |
|               | 1997-98 | 381                                    | 6048                                    | 772                                     | 12213                                   | 6    | 89    |
| Haldia        | 1995-96 | 3                                      | 7                                       | 84                                      | 147                                     | 3    | 7     |
|               | 1996-97 | 1                                      | 15                                      | 8                                       | 68                                      | -    | -     |
|               | 1997-98 | -                                      | -                                       | 146                                     | 446                                     | -    | -     |
| Visakhapatnam | 1995-96 | 105                                    | 2061                                    | 2198                                    | 26616                                   | -    | -     |
|               | 1996-97 | 185                                    | 3081                                    | 2076                                    | 26717                                   | -    | -     |
|               | 1997-98 | 115                                    | 2312                                    | 2598                                    | 33639                                   | -    | -     |
| Chennai       | 1995-96 | ...                                    | ...                                     | ...                                     | ...                                     | ...  | ...   |
|               | 1996-97 | ...                                    | ...                                     | ...                                     | ...                                     | ...  | ...   |
|               | 1997-98 | 759                                    | 9078                                    | 1974                                    | 21516                                   | 357  | 3074  |
| Tuticorin     | 1995-96 | 351                                    | 5576                                    | 830                                     | 10753                                   | -    | -     |
|               | 1996-97 | 340                                    | 4911                                    | 856                                     | 10104                                   | -    | -     |
|               | 1997-98 | 345                                    | 5934                                    | 1064                                    | 11810                                   | -    | -     |
| Cochin        | 1995-96 | 1468                                   | 14680                                   | 3079                                    | 30790                                   | -    | -     |
|               | 1996-97 | 1865                                   | 23312                                   | 7596                                    | 86331                                   | 1903 | 4662  |
|               | 1997-98 | 1186                                   | 14615                                   | 7690                                    | 88875                                   | 41   | 512   |
| Mormugao      | 1995-96 | 117                                    | 2221                                    | 422                                     | 6258                                    | 50   | 954   |
|               | 1996-97 | 160                                    | 2007                                    | 726                                     | 8086                                    | 49   | 392   |
|               | 1997-98 | 72                                     | 998                                     | 620                                     | 7370                                    | 86   | 831   |
| J.L.Nehru     | 1995-96 | 496                                    | 5952                                    | 6992                                    | 83904                                   | 98   | 1176  |
|               | 1996-97 | 551                                    | 6612                                    | 7086                                    | 85032                                   | 880  | 10560 |
|               | 1997-98 | 367                                    | 4404                                    | 6020                                    | 72240                                   | 214  | 2568  |
| Mumbai        | 1995-96 | 864                                    | 12355                                   | 12352                                   | 156253                                  | 490  | 7987  |
|               | 1996-97 | 1475                                   | 23160                                   | 13942                                   | 160055                                  | 1296 | 12845 |
|               | 1997-98 | 1681                                   | 28439                                   | 15356                                   | 170138                                  | 1493 | 21336 |
| Kandla        | 1995-96 | 210                                    | 4332                                    | 1886                                    | 19675                                   | 15   | 170   |
|               | 1996-97 | 215                                    | 5139                                    | 3554                                    | 46847                                   | 163  | 670   |
|               | 1997-98 | 127                                    | 3186                                    | 2730                                    | 37064                                   | 149  | 596   |
| Total         | 1995-96 | 4528                                   | 61808                                   | 28451                                   | 340239                                  | 656  | 10294 |
|               | 1996-97 | 5338                                   | 79539                                   | 37018                                   | 441825                                  | 4313 | 29529 |
|               | 1997-98 | 5033                                   | 75014                                   | 38970                                   | 390295                                  | 2346 | 27154 |

There is no Container Traffic at Paradip and New Mangalore

# 2.5.5 Trend of Container Traffic Handled At Major Ports (Port-Wise)

(In '000 Tonnes)

| Item    | Kandla | Mumbai | J.L.   | Mormu- | N.Manga- | Cochin | Tutl- | Chennai | Vizakha- | Paradip | Calcutta | Haldia | Total |
|---------|--------|--------|--------|--------|----------|--------|-------|---------|----------|---------|----------|--------|-------|
| :       | :      | :      | Mehrui | gao    | lore     | :      | corin | :       | patnam   | :       | :        | :      | :     |
| 1       | 2      | 3      | 4      | 5      | 6        | 7      | 8     | 9       | 10       | 11      | 12       | 13     | 14    |
| EXPORT  |        |        |        |        |          |        |       |         |          |         |          |        |       |
| 1990-91 | 344    | 1423   | 377    | -      | 7        | 236    | 109   | 578     | 36       | -       | 362      | 208    | 3680  |
| 1991-92 | 238    | 999    | 711    | -      | 14       | 264    | 164   | 605     | 59       | 3       | 495      | 82     | 3634  |
| 1992-93 | 254    | 466    | 891    | 4      | 14       | 278    | 212   | 715     | 73       | -       | 592      | 60     | 3559  |
| 1993-94 | 462    | 1750   | 1143   | 9      | 15       | 374    | 285   | 947     | 65       | -       | 760      | 55     | 5865  |
| 1994-95 | 467    | 2605   | 1560   | 11     | 4        | 534    | 427   | 1097    | 77       | -       | 928      | 59     | 7769  |
| 1995-96 | 595    | 2857   | 2208   | 13     | -        | 641    | 478   | 1271    | 69       | -       | 982      | 45     | 9159  |
| 1996-97 | 758    | 3328   | 2895   | 21     | -        | 719    | 630   | 1459    | 111      | -       | 1072     | 99     | 11092 |
| 1997-98 | 805    | 2788   | 3389   | 18     | -        | 754    | 742   | 1651    | 95       | -       | 1116     | 293    | 11651 |
| IMPORT  |        |        |        |        |          |        |       |         |          |         |          |        |       |
| 1990-91 | 158    | 2465   | 279    | -      | 2        | 39     | 57    | 559     | 46       | -       | 302      | 108    | 4015  |
| 1991-92 | 95     | 1553   | 603    | -      | 2        | 30     | 38    | 398     | 20       | -       | 309      | 33     | 3081  |
| 1992-93 | 105    | 2030   | 821    | 1      | 1        | 38     | 65    | 536     | 12       | -       | 417      | 35     | 4061  |
| 1993-94 | 268    | 3349   | 933    | 2      | -        | 49     | 120   | 629     | 16       | -       | 639      | 33     | 6038  |
| 1994-95 | 331    | 3285   | 1369   | 2      | 4        | 165    | 226   | 922     | 49       | -       | 833      | 24     | 7210  |
| 1995-96 | 366    | 3708   | 1862   | 6      | -        | 155    | 280   | 1038    | 25       | -       | 832      | 6      | 8278  |
| 1996-97 | 421    | 4457   | 2183   | 13     | -        | 248    | 271   | 1105    | 56       | -       | 879      | 18     | 9651  |
| 1997-98 | 494    | 3280   | 2661   | 12     | -        | 302    | 374   | 1351    | 51       | -       | 1006     | 88     | 9619  |
| TOTAL   |        |        |        |        |          |        |       |         |          |         |          |        |       |
| 1990-91 | 502    | 3888   | 656    | -      | 9        | 275    | 166   | 1137    | 82       | -       | 664      | 316    | 7695  |
| 1991-92 | 333    | 2552   | 1314   | -      | 16       | 294    | 202   | 1003    | 79       | 3       | 804      | 115    | 6715  |
| 1992-93 | 359    | 2496   | 1712   | 5      | 15       | 316    | 277   | 1251    | 85       | -       | 1009     | 95     | 7620  |
| 1993-94 | 730    | 5099   | 2076   | 11     | 15       | 423    | 405   | 1576    | 81       | -       | 1399     | 88     | 11903 |
| 1994-95 | 798    | 5920   | 2929   | 13     | 8        | 699    | 653   | 2019    | 126      | -       | 1761     | 83     | 15009 |
| 1995-96 | 961    | 6565+  | 4070   | 19+    | -        | 796    | 758   | 2309    | 94       | -       | 1814     | 51     | 17437 |
| 1996-97 | 1179   | 7785+  | 5078   | 34+    | -        | 967    | 901   | 2564    | 167      | -       | 1951     | 117    | 20743 |
| 1997-98 | 1299   | 6068+  | 6050   | 30+    | -        | 1056   | 1116  | 3002    | 146      | -       | 2122     | 381    | 21270 |

\* Exclude Tareweight

2.5.6 Container Traffic Handled at Major Ports (Type-Wise)

| Type    | 1     | KANDLA                                                                                    |       |        | MUMBAI |        |        | JAWAHARLAL NEHRU |        |  |
|---------|-------|-------------------------------------------------------------------------------------------|-------|--------|--------|--------|--------|------------------|--------|--|
|         |       |                                                                                           |       |        |        |        |        |                  |        |  |
|         |       | : 1995-96 : 1996-97 : 1997-98 : 1995-96 : 1996-97 : 1997-98 : 1995-96 : 1996-97 : 1997-98 |       |        |        |        |        |                  |        |  |
| 1       | 2     | 3                                                                                         | 4     | 5      | 6      | 7      | 8      | 9                | 10     |  |
| IMPORT  |       |                                                                                           |       |        |        |        |        |                  |        |  |
| 20'     | 33586 | 38473                                                                                     | 42077 | 284486 | 316606 | 328330 | 140556 | 169881           | 213194 |  |
| 40'     | 27204 | 30881                                                                                     | 34043 | 170076 | 185596 | 188356 | 80708  | 86379            | 103502 |  |
|         | 3191  | 3796                                                                                      | 4017  | 57205  | 65505  | 69987  | 29924  | 41751            | 54846  |  |
| Stuffed |       |                                                                                           |       |        |        |        |        |                  |        |  |
| 20'     | 19098 | 21033                                                                                     | 24565 | 209063 | 230673 | 249940 | 88918  | 98730            | 142289 |  |
| 40'     | 15048 | 17357                                                                                     | 19627 | 121157 | 135401 | 143084 | 52608  | 52788            | 72097  |  |
|         | 2025  | 1838                                                                                      | 2469  | 43953  | 47636  | 53428  | 18155  | 22971            | 35096  |  |
| Empty   |       |                                                                                           |       |        |        |        |        |                  |        |  |
| 20'     | 14488 | 17440                                                                                     | 17512 | 75423  | 85933  | 78390  | 51638  | 71151            | 70905  |  |
| 40'     | 12156 | 13524                                                                                     | 14416 | 48919  | 50195  | 45272  | 28100  | 33591            | 31405  |  |
|         | 1166  | 1958                                                                                      | 1548  | 13252  | 17869  | 16559  | 11769  | 18780            | 19750  |  |
| EXPORT  |       |                                                                                           |       |        |        |        |        |                  |        |  |
| 20'     | 31138 | 38964                                                                                     | 42117 | 230495 | 264940 | 271101 | 183985 | 230574           | 274390 |  |
| 40'     | 26202 | 32130                                                                                     | 35583 | 146291 | 161068 | 160587 | 108377 | 122146           | 135768 |  |
|         | 2468  | 3417                                                                                      | 3267  | 42102  | 51936  | 55257  | 37804  | 54214            | 69311  |  |
| Stuffed |       |                                                                                           |       |        |        |        |        |                  |        |  |
| 20'     | 30093 | 37430                                                                                     | 40387 | 212062 | 242433 | 252095 | 174267 | 220768           | 265537 |  |
| 40'     | 26069 | 31854                                                                                     | 34987 | 142676 | 152371 | 155885 | 105369 | 120436           | 133273 |  |
|         | 2012  | 2788                                                                                      | 2700  | 34693  | 45031  | 48105  | 34449  | 50166            | 66132  |  |
| Empty   |       |                                                                                           |       |        |        |        |        |                  |        |  |
| 20'     | 1045  | 1534                                                                                      | 1730  | 18433  | 22507  | 19006  | 9718   | 9806             | 8853   |  |
| 40'     | 133   | 276                                                                                       | 596   | 3615   | 8697   | 4702   | 3008   | 1710             | 2495   |  |
|         | 456   | 629                                                                                       | 567   | 7409   | 6905   | 7152   | 3355   | 4048             | 3179   |  |

Note: Wherever size of the containers is not specified, the no. of containers is in Twenty Equivalent Units. Total of Import, Export, Stuffed and Empty are given in 20' equivalent units (TEU)

# 2.5.6 Container Traffic Handled at Major Ports (Type-wise) (Contd.)

| Type                | KANDLA  |         |         |         | MUMBAI  |         | JAWAHARLAL NEHRU |         |         |  |
|---------------------|---------|---------|---------|---------|---------|---------|------------------|---------|---------|--|
|                     | 1995-96 | 1996-97 | 1997-98 | 1995-96 | 1996-97 | 1997-98 | 1995-96          | 1996-97 | 1997-98 |  |
| 1                   | 2       | 3       | 4       | 5       | 6       | 7       | 8                | 9       | 10      |  |
| <b>TRANSHIPMENT</b> |         |         |         |         |         |         |                  |         |         |  |
| 20'                 | -       | -       | -       | 2552    | 1869    | 1858    | 14595            | 22693   | 16565   |  |
| 40'                 | -       | -       | -       | 1488    | 1345    | 1358    | 7977             | 11391   | 10437   |  |
|                     | -       | -       | -       | 532     | 262     | 250     | 3309             | 5651    | 3064    |  |
| Stuffed             | -       | -       | -       | 2552    | 1869    | 1858    | 14595            | 22693   | 16309   |  |
| 20'                 | -       | -       | -       | 1488    | 1345    | 1358    | 7977             | 11391   | 10205   |  |
| 40'                 | -       | -       | -       | 532     | 262     | 250     | 3309             | 5651    | 3052    |  |
| Empty               | -       | -       | -       | -       | -       | -       | -                | -       | 256     |  |
| 20'                 | -       | -       | -       | -       | -       | -       | -                | -       | 232     |  |
| 40'                 | -       | -       | -       | -       | -       | -       | -                | -       | 12      |  |
| <b>TOTAL</b>        |         |         |         |         |         |         |                  |         |         |  |
| 20'                 | 64724   | 77437   | 84194   | 517533  | 583415  | 601289  | 339136           | 423148  | 504149  |  |
| 40'                 | 53406   | 63011   | 69626   | 317855  | 348009  | 350301  | 197062           | 219916  | 249707  |  |
|                     | 5659    | 7213    | 7284    | 99839   | 117703  | 125494  | 71037            | 101616  | 127221  |  |
| Stuffed             | 49191   | 58463   | 64952   | 423677  | 474975  | 503893  | 277780           | 342191  | 424135  |  |
| 20'                 | 41117   | 49211   | 54614   | 265321  | 289117  | 300327  | 165954           | 184615  | 215575  |  |
| 40'                 | 4037    | 4626    | 5169    | 79178   | 92929   | 101783  | 55913            | 78788   | 104280  |  |
| Empty               | 15533   | 18974   | 19242   | 93856   | 108440  | 97396   | 61356            | 80957   | 80014   |  |
| 20'                 | 12289   | 13800   | 15012   | 52534   | 58892   | 49974   | 31108            | 35301   | 34132   |  |
| 40'                 | 1622    | 2587    | 2115    | 20661   | 24774   | 23711   | 15124            | 22828   | 22941   |  |

Note: Wherever size of the containers is not specified, the no. of containers is in Twenty Equivalent Units. Total of Import, Export, Stuffed and Empty are given in 20' equivalent units (TEU)

2.5.6 Container Traffic Handled at Major Ports (Type-Wise) (Contd..)

| Type          | MORMUGAO |         |         | NEW MANGALORE |         |         | COCHIN  |         |         |
|---------------|----------|---------|---------|---------------|---------|---------|---------|---------|---------|
|               | 1995-96  | 1996-97 | 1997-98 | 1995-96       | 1996-97 | 1997-98 | 1995-96 | 1996-97 | 1997-98 |
| 1             | 2        | 3       | 4       | 5             | 6       | 7       | 8       | 9       | 10      |
| <b>IMPORT</b> | 1043     | 1668    | 1750    | -             | -       | -       | 45665   | 53879   | 58187   |
| 20'           | 455      | 810     | 700     | -             | -       | -       | 20049   | 24111   | 24261   |
| 40'           | 294      | 429     | 525     | -             | -       | -       | 12808   | 14881   | 16963   |
| Stuffed       | 640      | 1160    | 1378    | -             | -       | -       | 9416    | 11725   | 15506   |
| 20'           | 316      | 722     | 630     | -             | -       | -       | 5614    | 6275    | 8264    |
| 40'           | 162      | 219     | 374     | -             | -       | -       | 1901    | 2725    | 3621    |
| Empty         | 403      | 508     | 372     | -             | -       | -       | 36249   | 42154   | 42681   |
| 20'           | 139      | 88      | 70      | -             | -       | -       | 14435   | 17836   | 15997   |
| 40'           | 132      | 210     | 151     | -             | -       | -       | 10907   | 12159   | 13342   |
| <b>EXPORT</b> | 1095     | 1715    | 1611    | -             | -       | -       | 50308   | 57581   | 62445   |
| 20'           | 471      | 837     | 691     | -             | -       | -       | 22764   | 26327   | 26697   |
| 40'           | 312      | 439     | 460     | -             | -       | -       | 13772   | 15627   | 17874   |
| Stuffed       | 916      | 1405    | 1297    | -             | -       | -       | 49601   | 56786   | 60838   |
| 20'           | 450      | 731     | 677     | -             | -       | -       | 22641   | 26096   | 25814   |
| 40'           | 233      | 337     | 310     | -             | -       | -       | 13480   | 15345   | 17512   |
| Empty         | 179      | 310     | 314     | -             | -       | -       | 707     | 795     | 1607    |
| 20'           | 21       | 106     | 14      | -             | -       | -       | 123     | 231     | 883     |
| 40'           | 79       | 102     | 150     | -             | -       | -       | 292     | 282     | 362     |

Note: Wherever size of the containers is not specified, the no. of containers is in Twenty Equivalent Units. Total of Import, Export, Stuffed and Empty are given in 20' equivalent Units (TEU)

## 2.5.6 Container Traffic Handled at Major Ports (Type-Wise) (Contd..)

| Type         | MORMUGAO |         |         |         |         |         |         |         |         |         | NEW MANGALORE |         |         |         |         |         |         |         |         |         | COCHIN  |  |  |  |  |  |  |  |  |  |
|--------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|
|              | 1995-96  | 1996-97 | 1997-98 | 1995-96 | 1996-97 | 1997-98 | 1995-96 | 1996-97 | 1997-98 | 1995-96 | 1996-97       | 1997-98 | 1995-96 | 1996-97 | 1997-98 | 1995-96 | 1996-97 | 1997-98 | 1995-96 | 1996-97 | 1997-98 |  |  |  |  |  |  |  |  |  |
| 1            | 2        | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |         |               |         |         |         |         |         |         |         |         |         |         |  |  |  |  |  |  |  |  |  |
| TRANSHIPMENT |          |         |         |         |         |         |         |         |         |         |               |         |         |         |         |         |         |         |         |         |         |  |  |  |  |  |  |  |  |  |
| 20'          | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 40'          | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| Stuffed      | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 20'          | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 40'          | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| Empty        | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 20'          | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 40'          | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| TOTAL        | 2138     | 3383    | 3361    | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 20'          | 926      | 1647    | 1391    | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 40'          | 606      | 868     | 985     | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| Stuffed      | 1556     | 2565    | 2675    | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 20'          | 766      | 1453    | 1307    | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 40'          | 395      | 556     | 684     | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| Empty        | 582      | 818     | 686     | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 20'          | 160      | 194     | 84      | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |
| 40'          | 211      | 312     | 301     | -       | -       | -       | -       | -       | -       | -       | -             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |  |  |  |  |  |  |  |  |  |

Note: Wherever size of the containers is not specified, the no. of containers is in Twenty Equivalent Units. Total of Import, Export, Stuffed and Empty are given in 20' equivalent Units (TEUs)

2.5.6 Container Traffic Handled at Major Ports (Type-Wise) (Contd.)

| Type          | TUTICORIN                                                                                    |       |       | CHENNAI |        |        | VISAKHAPATNAM |      |      |
|---------------|----------------------------------------------------------------------------------------------|-------|-------|---------|--------|--------|---------------|------|------|
|               | : 1995-96 : 1996-97 : 1997-98 : 1995-96* : 1996-97* : 1997-98* : 1995-96 : 1996-97 : 1997-98 |       |       |         |        |        |               |      |      |
| 1             | 2                                                                                            | 3     | 4     | 5       | 6      | 7      | 8             | 9    | 10   |
| <b>IMPORT</b> | 33970                                                                                        | 43928 | 49788 | 114309  | 126936 | 145239 | 3843          | 6485 | 6227 |
| 20'           | 18310                                                                                        | 23048 | 25168 | 65447   | 73046  | 81401  | 1649          | 3735 | 2841 |
| 40'           | 7830                                                                                         | 10440 | 12310 | 24431   | 26945  | 31919  | 1097          | 1375 | 1693 |
| Stuffed       | 15106                                                                                        | 12544 | 19767 | 84702   | 88917  | 110583 | 1061          | 2431 | 2382 |
| 20'           | 9644                                                                                         | 8748  | 12031 | 51212   | 56017  | 65053  | 851           | 1647 | 1438 |
| 40'           | 2731                                                                                         | 1898  | 3868  | 16745   | 16450  | 22740  | 105           | 392  | 472  |
| Empty         | 18864                                                                                        | 31384 | 30021 | 29607   | 38019  | 34706  | 2782          | 4054 | 3845 |
| 20'           | 8666                                                                                         | 14300 | 13137 | 14235   | 17029  | 16348  | 798           | 2088 | 1403 |
| 40'           | 5099                                                                                         | 8542  | 8442  | 7686    | 10495  | 9179   | 992           | 983  | 1221 |
| <b>EXPORT</b> | 34649                                                                                        | 44841 | 52676 | 113177  | 129209 | 146622 | 4603          | 6632 | 6537 |
| 20'           | 17505                                                                                        | 21747 | 25734 | 67049   | 74647  | 83582  | 1951          | 3918 | 2949 |
| 40'           | 8572                                                                                         | 11547 | 13471 | 23064   | 27261  | 31520  | 1326          | 1357 | 1794 |
| Stuffed       | 33392                                                                                        | 44191 | 51046 | 109418  | 126228 | 141858 | 4133          | 5871 | 5306 |
| 20'           | 17228                                                                                        | 21207 | 24242 | 66378   | 73872  | 82182  | 1749          | 3707 | 2464 |
| 40'           | 8082                                                                                         | 11492 | 13402 | 21520   | 26178  | 29838  | 1192          | 1082 | 1421 |
| Empty         | 1257                                                                                         | 650   | 1630  | 3759    | 2981   | 4764   | 470           | 761  | 1231 |
| 20'           | 277                                                                                          | 540   | 1492  | 671     | 775    | 1400   | 202           | 211  | 485  |
| 40'           | 490                                                                                          | 55    | 69    | 1544    | 1103   | 1682   | 134           | 275  | 373  |

Note: Wherever size of the containers is not specified, the no. of containers is in Twenty Equivalent Units. Total of Import, Export, Stuffed and Empty are given in 20' equivalent units (TEUs)

# 2.5.6 Container Traffic Handled at Major Ports (Type-Wise) (Contd.)

| Type         | TUTICORIN |         |         | CHENNAI  |          |          | VISAKHAPATNAM |         |         |
|--------------|-----------|---------|---------|----------|----------|----------|---------------|---------|---------|
|              | 1995-96   | 1996-97 | 1997-98 | 1995-96* | 1996-97* | 1997-98* | 1995-96       | 1996-97 | 1997-98 |
| 1            | 2         | 3       | 4       | 5        | 6        | 7        | 8             | 9       | 10      |
| TRANSHIPMENT | -         | -       | -       | -        | 2        | 340      | 204           | -       | -       |
| 20'          | -         | -       | -       | -        | 2        | 340      | 204           | -       | -       |
| 40'          | -         | -       | -       | -        | -        | -        | -             | -       | -       |
| Stuffed      | -         | -       | -       | -        | 2        | 340      | 204           | -       | -       |
| 20'          | -         | -       | -       | -        | 2        | 340      | 204           | -       | -       |
| 40'          | -         | -       | -       | -        | -        | -        | -             | -       | -       |
| Empty        | -         | -       | -       | -        | -        | -        | -             | -       | -       |
| 20'          | -         | -       | -       | -        | -        | -        | -             | -       | -       |
| 40'          | -         | -       | -       | -        | -        | -        | -             | -       | -       |
| <b>TOTAL</b> | 68619     | 88769   | 102464  | 227523#  | 256503#  | 292593#  | 8446          | 13117   | 12764   |
| 20'          | 35815     | 44795   | 50902   | 132498   | 148033   | 165187   | 3600          | 7653    | 5790    |
| 40'          | 16402     | 21987   | 25781   | 47495    | 54226    | 63439    | 2423          | 2732    | 3487    |
| Stuffed      | 48498     | 56735   | 70813   | 194122   | 215485   | 252595   | 5194          | 8302    | 7688    |
| 20'          | 26872     | 29955   | 36273   | 117592   | 130229   | 147439   | 2600          | 5354    | 3902    |
| 40'          | 10813     | 13390   | 17270   | 38265    | 42628    | 52578    | 1297          | 1474    | 1893    |
| Empty        | 20121     | 32034   | 31651   | 33366    | 41000    | 39470    | 3252          | 4815    | 5076    |
| 20'          | 8943      | 14840   | 14629   | 14906    | 17804    | 17748    | 1000          | 2299    | 1888    |
| 40'          | 5589      | 8597    | 8511    | 9230     | 11598    | 10861    | 1126          | 1258    | 1594    |

Note: Wherever size of the containers is not specified, the no. of containers is in Twenty Equivalent Units. Total of Import, Export, Stuffed and Empty are given in 20' equivalent units (TEUs)

Note:- \* There were 166,228 and 540 containers of size 45' in 1995-96, 1996-97 and 1997-98 respectively which has been included in 20' containers.

# Includes 35 TEUs of shifting in 95-96, 18 TEUs of shifting in 96-97 and 528 TEUs of Shifting in 1997-98

2.5.6 Container Traffic Handled at Major Ports (Type-Wise) (Contd...)

| Type          | PARADIP |         |         | HAIDIA  |         |         | CALCUTTA |         |         | ALL PORTS |         |         |
|---------------|---------|---------|---------|---------|---------|---------|----------|---------|---------|-----------|---------|---------|
|               | 1995-96 | 1996-97 | 1997-98 | 1995-96 | 1996-97 | 1997-98 | 1995-96  | 1996-97 | 1997-98 | 1995-96   | 1996-97 | 1997-98 |
| 1             | 2       | 3       | 4       | 5       | 6       | 7       | 8        | 9       | 10      | 11        | 12      | 13      |
| <b>IMPORT</b> |         |         |         |         |         |         |          |         |         |           |         |         |
| 20'           |         |         |         | 642     | 1930    | 8865    | 62969    | 70289   | 77312   | 721069    | 830075  | 930969  |
| 40'           |         |         | NIL     | 336     | 772     | 2169    | 39971    | 45925   | 47454   | 424205    | 474303  | 509895  |
|               |         |         |         | 153     | 579     | 3348    | 11499    | 12182   | 14929   | 148432    | 177886  | 210537  |
| Stuffed       |         |         |         | 272     | 1388    | 7311    | 48671    | 50478   | 57272   | 476947    | 519079  | 630943  |
| 20'           |         |         |         | 240     | 428     | 1465    | 32533    | 34728   | 36838   | 289223    | 314111  | 360527  |
| 40'           |         |         | NIL     | 16      | 480     | 2923    | 8069     | 7875    | 10217   | 93862     | 102484  | 135208  |
| Empty         |         |         |         | 370     | 542     | 1554    | 14298    | 19811   | 20040   | 244122    | 310996  | 300026  |
| 20'           |         |         |         | 96      | 344     | 704     | 7438     | 11197   | 10616   | 134982    | 160192  | 149368  |
| 40'           |         |         | NIL     | 137     | 99      | 425     | 3430     | 4307    | 4712    | 54570     | 75402   | 75329   |
| <b>EXPORT</b> |         |         |         |         |         |         |          |         |         |           |         |         |
| 20'           |         |         |         | 3201    | 6869    | 18834   | 58343    | 62406   | 63568   | 710994    | 843731  | 939901  |
| 40'           |         |         | NIL     | 2015    | 3379    | 9820    | 37517    | 40832   | 38428   | 430142    | 487031  | 519839  |
|               |         |         |         | 593     | 1745    | 4507    | 10413    | 10787   | 12570   | 140426    | 178350  | 210031  |
| Stuffed       |         |         |         | 3015    | 6787    | 18495   | 56514    | 60152   | 60544   | 673411    | 802051  | 897403  |
| 20'           |         |         |         | 1979    | 3357    | 9737    | 36956    | 40132   | 37790   | 421495    | 473763  | 507051  |
| 40'           |         |         | NIL     | 518     | 1715    | 4379    | 9779     | 10010   | 11377   | 125958    | 164144  | 195176  |
| Empty         |         |         |         | 186     | 82      | 339     | 1829     | 2254    | 3024    | 37583     | 41680   | 42498   |
| 20'           |         |         |         | 36      | 22      | 83      | 561      | 700     | 638     | 8647      | 13268   | 12788   |
| 40'           |         |         | NIL     | 75      | 30      | 128     | 634      | 777     | 1193    | 14468     | 14206   | 14855   |

Note: Wherever size of the containers is not specified, the no. of containers is in Twenty Equivalent Units. Total of Import, Export, Stuffed and Empty are given in 20' equivalent units (TEU)

# 2.5.6 Container Traffic Handled at Major Ports (Type-wise) (Contd.)

| Type         | PARADIP                                                                                                                 |   |   |   | BALDI |      |      | CALCUTTA |        |        | ALL PORTS |          |          |
|--------------|-------------------------------------------------------------------------------------------------------------------------|---|---|---|-------|------|------|----------|--------|--------|-----------|----------|----------|
|              | 1                                                                                                                       | 2 | 3 | 4 | 5     | 6    | 7    | 8        | 9      | 10     | 11        | 12       | 13       |
|              | : 1995-96 : 1996-97 : 1997-98 : 1995-96 : 1996-97 : 1997-98 : 1995-96 : 1996-97 : 1997-98 : 1995-96 : 1996-97 : 1997-98 |   |   |   |       |      |      |          |        |        |           |          |          |
| 1            | 2                                                                                                                       | 3 | 4 | 5 | 6     | 7    | 8    | 9        | 10     | 11     | 12        | 13       |          |
| TRANSHIPMENT |                                                                                                                         |   |   |   |       |      |      |          |        |        |           |          |          |
| 20'          |                                                                                                                         |   |   |   |       | 82   | 513  | -        | -      | -      | 17220     | 25669    | 20157    |
| 40'          |                                                                                                                         |   |   |   |       | -    | 163  | -        | -      | -      | 9498      | 13517    | 12705    |
|              |                                                                                                                         |   |   |   |       | 41   | 175  | -        | -      | -      | 3861      | 6076     | 3726     |
| Stuffed      |                                                                                                                         |   |   |   |       | -    | -    | -        | -      | -      | -         | -        | -        |
| 20'          |                                                                                                                         |   |   |   |       | 82   | 286  | -        | -      | -      | 17150     | 25669    | 19193    |
| 40'          |                                                                                                                         |   |   |   |       | -    | 96   | -        | -      | -      | 9468      | 13517    | 12137    |
|              |                                                                                                                         |   |   |   |       | 41   | 95   | -        | -      | -      | 3841      | 6076     | 3528     |
| Empty        |                                                                                                                         |   |   |   |       | -    | -    | -        | -      | -      | -         | -        | -        |
| 20'          |                                                                                                                         |   |   |   |       | -    | 227  | -        | -      | -      | 70        | -        | 964      |
| 40'          |                                                                                                                         |   |   |   |       | -    | 67   | -        | -      | -      | 30        | -        | 568      |
|              |                                                                                                                         |   |   |   |       | -    | 80   | -        | -      | -      | 20        | -        | 198      |
| TOTAL        |                                                                                                                         |   |   |   |       |      |      |          |        |        |           |          |          |
| 20'          |                                                                                                                         |   |   |   |       | 3843 | 8881 | 28212    | 121312 | 132695 | 140880    | 1449318# | 1699493# |
| 40'          |                                                                                                                         |   |   |   |       | 2351 | 4151 | 12152    | 77488  | 86757  | 85882     | 863845   | 974851   |
|              |                                                                                                                         |   |   |   |       | 746  | 2365 | 8030     | 21912  | 22969  | 27499     | 292719   | 362312   |
| Stuffed      |                                                                                                                         |   |   |   |       | 3287 | 8257 | 26092    | 105185 | 110630 | 117816    | 1167508  | 1346799  |
| 20'          |                                                                                                                         |   |   |   |       | 2219 | 3785 | 11298    | 69489  | 74860  | 74628     | 720186   | 801391   |
| 40'          |                                                                                                                         |   |   |   |       | 534  | 2236 | 7397     | 17848  | 17885  | 21594     | 223661   | 272704   |
|              |                                                                                                                         |   |   |   |       |      |      |          |        |        |           |          | 333912   |
| Empty        |                                                                                                                         |   |   |   |       | 556  | 624  | 2120     | 16127  | 22065  | 23064     | 281775   | 352676   |
| 20'          |                                                                                                                         |   |   |   |       | 132  | 366  | 854      | 7999   | 11897  | 11254     | 143659   | 173460   |
| 40'          |                                                                                                                         |   |   |   |       | 212  | 129  | 633      | 4064   | 5084   | 5905      | 69058    | 89608    |
|              |                                                                                                                         |   |   |   |       |      |      |          |        |        |           |          | 90382    |

\* Includes 35 TEUs of shifting in 1995-96, 18 TEUs of shifting in 1996-97 and 528 TEUs of shifting in 97-98 in Chennai.

Note: Wherever size of the containers is not specified, the no. of containers is given in 20' equivalent units (TEUs). Total of Import, Export, Stuffed and Empty are given in 20' equivalent units (TEUs).

2.5.7 Level of Containerisation in General Cargo  
at various Major Ports 1996-97 and 1997-98

| Ports         |         | Container Cargo<br>(000 tonnes) |        |       | General Cargo (Break Bulk<br>+ Container) (000 tonnes) |        |       | Percentage of Container<br>Cargo to General Cargo |        |       |
|---------------|---------|---------------------------------|--------|-------|--------------------------------------------------------|--------|-------|---------------------------------------------------|--------|-------|
|               |         | Export                          | Import | Total | Export                                                 | Import | Total | Export                                            | Import | Total |
| 1             | 2       | 3                               | 4      | 5     | 6                                                      | 7      | 8     | 9                                                 | 10     | 11    |
| Kandla        | 1996-97 | 758                             | 421    | 1179  | 2357                                                   | 908    | 3265  | 32.2                                              | 46.4   | 36.1  |
|               | 1997-98 | 805                             | 494    | 1299  | 2320                                                   | 1762   | 4082  | 34.7                                              | 28.0   | 31.8  |
| Mumbai        | 1996-97 | 3328                            | 4457   | 7785  | 4544                                                   | 6885   | 11429 | 73.2                                              | 64.7   | 68.1  |
|               | 1997-98 | 2788                            | 3280   | 6068  | 3919                                                   | 6872   | 10791 | 71.1                                              | 47.7   | 56.2  |
| J.L.Nehru     | 1996-97 | 2895                            | 2183   | 5078  | 2895                                                   | 2183   | 5078  | 100.0                                             | 100.0  | 100.0 |
|               | 1997-98 | 3389                            | 2661   | 6050  | 3389                                                   | 2661   | 6050  | 100.0                                             | 100.0  | 100.0 |
| Mormugao      | 1996-97 | 21                              | 13     | 34    | 109                                                    | 15     | 124   | 19.3                                              | 86.7   | 27.4  |
|               | 1997-98 | 18                              | 12     | 30    | 72                                                     | 81     | 153   | 25.0                                              | 14.8   | 19.6  |
| New Mangalore | 1996-97 | -                               | -      | -     | 328                                                    | 246    | 574   | -                                                 | -      | -     |
|               | 1997-98 | -                               | -      | -     | 227                                                    | 432    | 659   | -                                                 | -      | -     |
| Cochin        | 1996-97 | 719                             | 248    | 967   | 743                                                    | 502    | 1245  | 96.8                                              | 49.4   | 77.7  |
|               | 1997-98 | 754                             | 302    | 1056  | 768                                                    | 529    | 1297  | 98.2                                              | 57.1   | 81.4  |
| Tuticorin     | 1996-97 | 630                             | 271    | 901   | 1415                                                   | 562    | 1977  | 44.5                                              | 48.2   | 45.6  |
|               | 1997-98 | 742                             | 374    | 1116  | 1511                                                   | 768    | 2279  | 49.1                                              | 48.7   | 49.0  |
| Chennai       | 1996-97 | 1459                            | 1105   | 2564  | 2177                                                   | 1672   | 3849  | 67.0                                              | 66.1   | 66.6  |
|               | 1997-98 | 1651                            | 1351   | 3002  | 2429                                                   | 1874   | 4303  | 68.0                                              | 72.1   | 69.8  |
| Vishakapatnam | 1996-97 | 111                             | 56     | 167   | 1784                                                   | 240    | 2024  | 6.2                                               | 23.3   | 8.2   |
|               | 1997-98 | 95                              | 51     | 146   | 1918                                                   | 298    | 2216  | 4.9                                               | 17.1   | 6.6   |
| Paradip       | 1996-97 | -                               | -      | -     | 26                                                     | 38     | 64    | -                                                 | -      | -     |
|               | 1997-98 | -                               | -      | -     | -                                                      | -      | -     | -                                                 | -      | -     |
| Calcutta      | 1996-97 | 1072                            | 879    | 1951  | 1744                                                   | 1486   | 3230  | 61.5                                              | 59.2   | 60.4  |
|               | 1997-98 | 1116                            | 1006   | 2122  | 1602                                                   | 2163   | 3765  | 69.7                                              | 46.5   | 56.4  |
| Haldia        | 1996-97 | 99                              | 18     | 117   | 346                                                    | 38     | 384   | 28.6                                              | 47.4   | 30.5  |
|               | 1997-98 | 293                             | 88     | 381   | 607                                                    | 230    | 837   | 48.3                                              | 38.3   | 45.5  |
| TOTAL         | 1996-97 | 11092                           | 9651   | 20743 | 18468                                                  | 14775  | 33243 | 60.1                                              | 65.3   | 62.4  |
|               | 1997-98 | 11651                           | 9619   | 21270 | 18762                                                  | 17670  | 36432 | 62.1                                              | 54.4   | 58.4  |

Note : Container cargo excludes tareweight in respect of Mumbai & Mormugao Ports.  
For tareweight figures see Table 2.5.3.

2.5.8 Commodity-Wise Break-Up Of Containerised Cargo As Well As General Cargo And Level of Containerisation at Major Ports

| Commodities                                          | General Cargo (000T) |                |                  |                    |                  | % Share of com-<br>odities in Total<br>Container<br>Cargo |                  | % Share of com-<br>odities in Total<br>General<br>Cargo |                  | Level of Containerisation<br>% of container<br>Cargo to General Cargo |                |
|------------------------------------------------------|----------------------|----------------|------------------|--------------------|------------------|-----------------------------------------------------------|------------------|---------------------------------------------------------|------------------|-----------------------------------------------------------------------|----------------|
|                                                      | Container<br>Cargo   | Total<br>Cargo | General<br>Cargo | Container<br>Cargo | General<br>Cargo | Container<br>Cargo                                        | General<br>Cargo | Container<br>Cargo                                      | General<br>Cargo | Col.2<br>Col.3                                                        | Col.4<br>Col.5 |
|                                                      | 1                    | 2              | 3                | 4                  | 5                | 6                                                         | 7                | 8                                                       | 9                | 10                                                                    | 11             |
| Exports                                              |                      |                |                  |                    |                  |                                                           |                  |                                                         |                  |                                                                       |                |
| 1. Textiles, Cotton, Yarn etc.                       | 559                  | 692            | 561              | 706                | 6.8              | 8.4                                                       | 3.7              | 4.7                                                     | 99.6             | 89.1                                                                  |                |
| 2. Metal & Metal products                            | 333                  | 376            | 374              | 453                | 4.1              | 4.6                                                       | 2.5              | 3.0                                                     | 89.0             | 83.0                                                                  |                |
| 3. Foodgrains & other Products                       | 369                  | 262            | 1682             | 1400               | 4.5              | 3.2                                                       | 11.1             | 9.3                                                     | 21.9             | 18.7                                                                  |                |
| 4. Tea & Coffee                                      | 390                  | 336            | 409              | 339                | 4.8              | 4.1                                                       | 5.6              | 2.2                                                     | 95.4             | 99.1                                                                  |                |
| 5. Granite & its other Material                      | 274                  | 326            | 841              | 770                | 3.4              | 2.6                                                       | 1.3              | 5.1                                                     | 32.6             | 42.3                                                                  |                |
| 6. Fish and other Marine Products                    | 202                  | 219            | 203              | 219                | 2.5              | 2.6                                                       | 1.3              | 1.5                                                     | 99.5             | 100.0                                                                 |                |
| 7. Fodder                                            | 338                  | 147            | 583              | 659                | 4.1              | 1.8                                                       | 3.9              | 4.4                                                     | 57.9             | 22.3                                                                  |                |
| 8. Fruits & Vegetables                               | 263                  | 218            | 404              | 330                | 3.2              | 2.6                                                       | 2.7              | 2.2                                                     | 65.1             | 66.1                                                                  |                |
| 9. Jute and Jute Products                            | 172                  | 257            | 239              | 302                | 2.1              | 3.1                                                       | 1.6              | 2.0                                                     | 72.0             | 85.1                                                                  |                |
| 10. Spices                                           | 106                  | 136            | 112              | 141                | 1.3              | 1.6                                                       | 0.8              | 0.9                                                     | 94.6             | 96.4                                                                  |                |
| 11. Hosiery, Handkerchief & Millinery                | 87                   | 99             | 88               | 101                | 1.1              | 1.2                                                       | 0.6              | 0.7                                                     | 98.8             | 98.0                                                                  |                |
| 12. Machinery/Instruments<br>and Transport equipment | 187                  | 222            | 202              | 245                | 2.3              | 2.7                                                       | 1.3              | 1.6                                                     | 92.6             | 98.8                                                                  |                |
| 13. Drugs and Medicine                               | 54                   | 78             | 55               | 79                 | 0.7              | 0.9                                                       | 0.4              | 0.5                                                     | 98.2             | 98.7                                                                  |                |
| 14. Cashew Kernels                                   | 84                   | 87             | 84               | 87                 | 1.0              | 1.1                                                       | 0.6              | 0.6                                                     | 100.0            | 100.0                                                                 |                |
| 15. Dyes and Colours                                 | 49                   | 74             | 50               | 75                 | 0.6              | 0.9                                                       | 0.3              | 0.5                                                     | 98.0             | 98.7                                                                  |                |
| 16. Cast Iron Goods                                  | 114                  | 138            | 140              | 138                | 1.4              | 1.7                                                       | 0.9              | 0.9                                                     | 81.4             | 100.0                                                                 |                |
| 17. Oilseeds etc.                                    | 100                  | 80             | 128              | 88                 | 1.2              | 1.0                                                       | 0.8              | 0.6                                                     | 78.1             | 90.9                                                                  |                |
| 18. Chemicals                                        | 340                  | 335            | 348              | 346                | 4.1              | 4.1                                                       | 2.3              | 2.3                                                     | 97.7             | 96.8                                                                  |                |
| 19. Others                                           | 4155                 | 8597           | 8597             | 8596               | 50.8             | 50.5                                                      | 56.9             | 57.0                                                    | 48.3             | 48.4                                                                  |                |
| Total Export*                                        | 8176                 | 9244           | 15100            | 15074              | 100.0            | 100.0                                                     | 100.0            | 100.0                                                   | 54.1             | 54.7                                                                  |                |
| ALL MAJOR PORTS                                      | 11092                | 11651          | 18468            | 18762              |                  |                                                           |                  |                                                         | 60.1             | 62.1                                                                  |                |

\* Total export figure includes data for 8 Major Ports of Mumbai, Chennai, Calcutta, Haldia, Kandla, Cochin, Tuticorin and Visakhapatnam. In JNPT all general Cargo is Containerised and there is no Container Traffic in Paradip and New Mangalore Ports. In case of Mormugao Port Container Traffic is not significant.

2.5.8 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level of Containerisation at Major Ports (Contd.)

| Commodities                                   | General Cargo (000T) |         |                     |         |       | % Share of commodities in Total |       |       |                                       | Level of Containerisation |         |
|-----------------------------------------------|----------------------|---------|---------------------|---------|-------|---------------------------------|-------|-------|---------------------------------------|---------------------------|---------|
|                                               | Container Cargo      |         | Total General Cargo |         | 6     | 7                               | 8     | 9     | % of container Cargo to General Cargo |                           |         |
|                                               | 1996-97              | 1997-98 | 1996-97             | 1997-98 |       |                                 |       |       | Col.2                                 | Col.3                     |         |
|                                               |                      |         |                     |         |       |                                 |       |       |                                       |                           | 1996-97 |
| 2                                             | 3                    | 4       | 5                   | 10      | 11    |                                 |       |       |                                       |                           |         |
| Imports                                       |                      |         |                     |         |       |                                 |       |       |                                       |                           |         |
| 1. Iron & Steel, Metal and Metal Products     | 1165                 | 891     | 2917                | 3313    | 15.6  | 12.8                            | 23.7  | 22.9  | 39.9                                  | 26.9                      |         |
| 2. Chemicals                                  | 746                  | 827     | 824                 | 978     | 10.0  | 11.9                            | 6.7   | 6.7   | 90.5                                  | 84.6                      |         |
| 3. Paper, Newsprints etc.                     | 599                  | 743     | 835                 | 1022    | 8.0   | 10.7                            | 6.8   | 7.1   | 71.7                                  | 72.7                      |         |
| 4. Foodgrains & other Cereals                 | 283                  | 371     | 299                 | 944     | 3.8   | 5.3                             | 2.4   | 6.5   | 94.6                                  | 39.3                      |         |
| 5. Plastic and its products                   | 509                  | 384     | 564                 | 404     | 6.8   | 5.5                             | 4.6   | 2.8   | 90.2                                  | 95.0                      |         |
| 6. Machinery/Instruments and Transport equip. | 307                  | 276     | 480                 | 444     | 4.1   | 4.0                             | 3.9   | 3.1   | 63.9                                  | 62.1                      |         |
| 7. Textiles, Yarn, Cotton etc.                | 162                  | 165     | 164                 | 168     | 2.2   | 2.4                             | 1.3   | 1.2   | 98.8                                  | 98.2                      |         |
| 8. Rubber and its products                    | 115                  | 134     | 118                 | 137     | 1.6   | 1.9                             | 1.0   | 0.9   | 97.5                                  | 97.8                      |         |
| 9. Oilfats                                    | 242                  | 105     | 242                 | 625     | 3.3   | 1.5                             | 2.0   | 4.3   | 100.0                                 | 16.8                      |         |
| 10. Wood                                      | 112                  | 95      | 155                 | 325     | 1.5   | 1.4                             | 1.3   | 2.2   | 72.2                                  | 29.2                      |         |
| 11. Others                                    | 3215                 | 2955    | 5695                | 6136    | 43.1  | 42.6                            | 46.3  | 42.3  | 56.4                                  | 48.2                      |         |
| Total Imports*                                | 7455                 | 6946    | 12293               | 14496   | 100.0 | 100.0                           | 100.0 | 100.0 | 60.6                                  | 47.9                      |         |
| ALL MAJOR PORTS                               | 9651                 | 9619    | 14775               | 17670   |       |                                 |       |       | 65.3                                  | 54.4                      |         |

\* Total Import figure includes data for 8 Major Ports of Mumbai, Chennai, Calcutta, Haldia, Kandla, Cochin, Tuticorin and Visakhapatnam. In JNPT all general Cargo is Containerised and there is no Container Traffic in Paradip and New Mangalore Ports. In case of Mormugao Port Container Traffic is not significant.

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise)

PORT : KANDLA

| Commodities                                         | General Cargo (000T) |                |                    |                |                    | % Share of com-<br>odities in Total |                    |                  |                    |                  | % Share of com-<br>odities in Total |                  |                    |                  |                    | Level of Containerisation<br>% of container<br>Cargo to General Cargo |                |                |
|-----------------------------------------------------|----------------------|----------------|--------------------|----------------|--------------------|-------------------------------------|--------------------|------------------|--------------------|------------------|-------------------------------------|------------------|--------------------|------------------|--------------------|-----------------------------------------------------------------------|----------------|----------------|
|                                                     | Container<br>Cargo   | Total<br>Cargo | Container<br>Cargo | Total<br>Cargo | Container<br>Cargo | General<br>Cargo                    | Container<br>Cargo | General<br>Cargo | Container<br>Cargo | General<br>Cargo | Container<br>Cargo                  | General<br>Cargo | Container<br>Cargo | General<br>Cargo | Container<br>Cargo | Col.2<br>Col.3                                                        | Col.4<br>Col.5 | Col.6<br>Col.7 |
|                                                     | 1996-97              | 1997-98        | 1996-97            | 1997-98        | 1996-97            | 1997-98                             | 1996-97            | 1997-98          | 1996-97            | 1997-98          | 1996-97                             | 1997-98          | 1996-97            | 1997-98          | 1996-97            | 1997-98                                                               | 1996-97        | 1997-98        |
| <b>EXPORT</b>                                       |                      |                |                    |                |                    |                                     |                    |                  |                    |                  |                                     |                  |                    |                  |                    |                                                                       |                |                |
| 1. Textiles, Cotton, Yarn etc.                      | 4                    | 42             | 4                  | 42             | 0.5                | 5.2                                 | 0.2                | 1.8              | 100.0              | 100.0            | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 2. Metal & Metal products                           | 3                    | 34             | 3                  | 34             | 0.4                | 4.2                                 | 0.1                | 1.5              | 100.0              | 100.0            | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 3. Tea & Coffee                                     | -                    | -              | -                  | -              | -                  | -                                   | -                  | -                | -                  | -                | -                                   | -                | -                  | -                | -                  | -                                                                     | -              | -              |
| 4. Foodgrains and other<br>Cereals.                 | 140                  | 123            | 1237               | 1161           | 18.5               | 15.3                                | 52.5               | 50.0             | 11.3               | 10.6             | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 5. Fish, shrimps and other<br>marine products       | 46                   | 44             | 46                 | 44             | 6.1                | 5.5                                 | 2.0                | 1.9              | 100.0              | 100.0            | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 6. Fodder                                           | 4                    | -              | 4                  | -              | 0.5                | -                                   | 0.2                | -                | 100.0              | -                | 100.0                               | -                | 100.0              | -                | 100.0              | -                                                                     | 100.0          | -              |
| 7. Fruits & Vegetables.                             | -                    | -              | -                  | -              | -                  | -                                   | -                  | -                | -                  | -                | -                                   | -                | -                  | -                | -                  | -                                                                     | -              | -              |
| 8. Spices                                           | 3                    | 28             | 3                  | 28             | 0.4                | 3.5                                 | 0.1                | 1.2              | 100.0              | 100.0            | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 9. Hosiery, Handkerchiefs<br>and Millinery.         | 7                    | 18             | 7                  | 18             | 0.9                | 2.2                                 | 0.3                | 0.8              | 100.0              | 100.0            | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 10. Machinery, Instruments<br>Transport equipments. | 19                   | 25             | 20                 | 25             | 2.5                | 3.1                                 | 0.8                | 1.1              | 95.0               | 100.0            | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 11. Drugs and Medicines.                            | -                    | 10             | -                  | 10             | -                  | 1.2                                 | -                  | 0.4              | -                  | -                | 100.0                               | -                | 100.0              | -                | 100.0              | -                                                                     | 100.0          | -              |
| 12. Dyes and Colours.                               | -                    | 21             | -                  | 21             | -                  | 2.6                                 | -                  | 0.9              | -                  | -                | 100.0                               | -                | 100.0              | -                | 100.0              | -                                                                     | 100.0          | -              |
| 13. Oil seeds, fats etc.                            | 40                   | -              | 59                 | -              | 5.3                | -                                   | 2.5                | -                | 67.8               | -                | 100.0                               | -                | 100.0              | -                | 100.0              | -                                                                     | 100.0          | -              |
| 14. Chemicals                                       | 16                   | 6              | 16                 | 6              | 2.1                | 0.8                                 | 0.7                | 0.3              | 100.0              | 100.0            | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| 15. Others                                          | 476                  | 454            | 958                | 931            | 62.8               | 56.4                                | 40.6               | 40.1             | 49.7               | 48.8             | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |
| Total Export                                        | 758                  | 805            | 2357               | 2320           | 100.0              | 100.0                               | 100.0              | 100.0            | 32.2               | 34.7             | 100.0                               | 100.0            | 100.0              | 100.0            | 100.0              | 100.0                                                                 | 100.0          | 100.0          |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : KANDLA

| Commodities                                       | General Cargo (000T) |         |         |                     |         |         |                                                 |         |         |                                               |         | Level of Containerisation |                                       |
|---------------------------------------------------|----------------------|---------|---------|---------------------|---------|---------|-------------------------------------------------|---------|---------|-----------------------------------------------|---------|---------------------------|---------------------------------------|
|                                                   | Container Cargo      |         |         | Total General Cargo |         |         | % Share of commodities in Total Container Cargo |         |         | % Share of commodities in Total General Cargo |         |                           | % of container Cargo to General Cargo |
|                                                   | 1996-97              | 1997-98 | 1998-99 | 1996-97             | 1997-98 | 1998-99 | 1996-97                                         | 1997-98 | 1998-99 | 1996-97                                       | 1997-98 | 1998-99                   |                                       |
| 1                                                 | 2                    | 3       | 4       | 5                   | 6       | 7       | 8                                               | 9       | 10      | 11                                            | 12      | 13                        | 14                                    |
| IMPORT                                            |                      |         |         |                     |         |         |                                                 |         |         |                                               |         |                           |                                       |
| 1. Iron & Steel                                   | 126                  | 49      | 350     | 442                 | 29.9    | 9.9     | 38.5                                            | 25.1    | 36.0    | 11.1                                          | 100.0   | 100.0                     | 11.1                                  |
| 2. Metal & Metal Products.                        | 14                   | 38      | 14      | 38                  | 3.4     | 7.7     | 1.5                                             | 2.2     | 100.0   | 100.0                                         | 100.0   | 100.0                     | 100.0                                 |
| 3. Chemicals                                      | 6                    | -       | 6       | -                   | 1.4     | -       | 0.7                                             | -       | 100.0   | -                                             | -       | -                         | -                                     |
| 4. Paper, Newsprints etc.                         | 1                    | 21      | 1       | 21                  | 0.2     | 4.3     | 0.1                                             | 1.2     | 100.0   | 100.0                                         | 100.0   | 100.0                     | 100.0                                 |
| 5. Plastic & its products                         | 68                   | 58      | 107     | 67                  | 16.2    | 11.8    | 11.8                                            | 3.8     | 63.6    | 86.6                                          | 86.6    | 86.6                      | 86.6                                  |
| 6. Machinery/Instrument and Transport equipments. | 4                    | 47      | 36      | 78                  | 1.0     | 9.5     | 4.0                                             | 4.4     | 11.1    | 60.2                                          | 60.2    | 60.2                      | 60.2                                  |
| 7. Textiles, cotton, yarn etc.                    | 3                    | 13      | 3       | 13                  | 0.7     | 2.6     | 0.3                                             | 0.7     | 100.0   | 100.0                                         | 100.0   | 100.0                     | 100.0                                 |
| 8. Hair and wool                                  | -                    | -       | -       | -                   | -       | -       | -                                               | -       | -       | -                                             | -       | -                         | -                                     |
| 9. Rubber and its products.                       | 1                    | 9       | 1       | 9                   | 0.2     | 1.8     | 0.1                                             | 0.5     | 100.0   | 100.0                                         | 100.0   | 100.0                     | 100.0                                 |
| 10. Oil, fats etc.                                | -                    | 14      | -       | 14                  | -       | 2.8     | -                                               | 0.8     | -       | -                                             | -       | -                         | -                                     |
| 11. Woodpulp.                                     | -                    | 3       | -       | 3                   | -       | 0.6     | -                                               | 0.2     | -       | -                                             | -       | -                         | -                                     |
| 12. Foodgrains & other cereals                    | 1                    | -       | 5       | 1                   | 0.2     | -       | 0.6                                             | 0.1     | 20.0    | -                                             | -       | -                         | -                                     |
| 13. Industrial alcohols & sprits (non-potable)    | -                    | 8       | -       | 8                   | -       | 1.6     | -                                               | 0.4     | -       | -                                             | -       | -                         | -                                     |
| 14. Drugs & Medicine.                             | -                    | 13      | -       | 13                  | -       | 2.6     | -                                               | 0.7     | -       | -                                             | -       | -                         | -                                     |
| 15. Fertilizers                                   | -                    | -       | -       | -                   | -       | -       | -                                               | -       | -       | -                                             | -       | -                         | -                                     |
| 16. Fertilizers Raw Material                      | -                    | -       | -       | -                   | -       | -       | -                                               | -       | -       | -                                             | -       | -                         | -                                     |
| 17. Others                                        | 197                  | 221     | 365     | 1055                | 46.8    | 44.8    | 42.4                                            | 59.9    | 51.2    | 20.9                                          | 20.9    | 20.9                      | 20.9                                  |
| Total Imports                                     | 421                  | 494     | 908     | 1762                | 100.0   | 100.0   | 100.0                                           | 100.0   | 46.4    | 28.0                                          | 28.0    | 28.0                      | 28.0                                  |

PORT : MUMBAI

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

| Commodities                                         | General Cargo (000T) |                |                  |                                                            |                                                          | Level of Containerisation                |         |         |         |         |
|-----------------------------------------------------|----------------------|----------------|------------------|------------------------------------------------------------|----------------------------------------------------------|------------------------------------------|---------|---------|---------|---------|
|                                                     | Container<br>Cargo   | Total<br>Cargo | General<br>Cargo | % Share of comm-<br>odities in Total<br>Container<br>Cargo | % Share of comm-<br>odities in Total<br>General<br>Cargo | % of container<br>Cargo to General Cargo |         |         |         |         |
|                                                     |                      |                |                  |                                                            |                                                          | Col.2                                    | Col.3   | Col.4   | Col.5   |         |
|                                                     | 1996-97              | 1997-98        | 1996-97          | 1997-98                                                    | 1996-97                                                  | 1997-98                                  | 1996-97 | 1997-98 | 1996-97 | 1997-98 |
| 1                                                   | 2                    | 3              | 4                | 5                                                          | 6                                                        | 7                                        | 8       | 9       | 10      | 11      |
| <b>EXPORT</b>                                       |                      |                |                  |                                                            |                                                          |                                          |         |         |         |         |
| 1. Textiles, Cotton, Yarn etc.                      | 174                  | 299            | 176              | 311                                                        | 5.2                                                      | 10.7                                     | 3.9     | 7.9     | 98.9    | 96.1    |
| 2. Metal & Metal products                           | 220                  | 210            | 252              | 275                                                        | 6.6                                                      | 7.5                                      | 5.6     | 7.0     | 87.3    | 76.4    |
| 3. Tea & Coffee                                     | 16                   | 18             | 18               | 18                                                         | 0.5                                                      | 0.7                                      | 0.4     | 0.5     | 88.9    | 100.0   |
| 4. Foodgrains and other<br>Cereals.                 | 229                  | 139            | 445              | 239                                                        | 6.9                                                      | 5.0                                      | 9.8     | 6.1     | 51.5    | 58.2    |
| 5. Fish, shrimps and other<br>marine products       | 9                    | 1              | 9                | 1                                                          | 0.3                                                      | Neg.                                     | 0.2     | Neg.    | 100.0   | 100.0   |
| 6. Rubber                                           | 334                  | 147            | 579              | 659                                                        | 10.0                                                     | 5.3                                      | 12.7    | 16.8    | 57.7    | 22.3    |
| 7. Fruits & Vegetables.                             | 218                  | 183            | 343              | 282                                                        | 6.5                                                      | 6.6                                      | 7.5     | 7.2     | 63.6    | 64.9    |
| 8. Spices                                           | 49                   | 59             | 55               | 64                                                         | 1.5                                                      | 2.1                                      | 1.2     | 1.6     | 89.1    | 92.2    |
| 9. Hosiery, Handkercher<br>and Millinery.           | 80                   | 81             | 81               | 83                                                         | 2.4                                                      | 2.9                                      | 1.8     | 2.1     | 98.8    | 97.6    |
| 10. Machinery, Instruments<br>Transport equipments. | 113                  | 135            | 123              | 151                                                        | 3.4                                                      | 4.8                                      | 2.7     | 3.9     | 91.9    | 89.4    |
| 11. Drugs and Medicines.                            | 54                   | 68             | 55               | 69                                                         | 1.6                                                      | 2.4                                      | 1.2     | 1.8     | 98.2    | 98.5    |
| 12. Dyes and Colours.                               | 49                   | 53             | 50               | 54                                                         | 1.5                                                      | 1.9                                      | 1.1     | 1.4     | 98.0    | 98.1    |
| 13. Oil seeds, fats etc.                            | 2                    | 18             | 2                | 19                                                         | 0.1                                                      | 0.7                                      | 0.1     | 0.5     | 100.0   | 94.7    |
| 14. Chemicals                                       | 204                  | 200            | 206              | 204                                                        | 6.1                                                      | 7.2                                      | 4.5     | 5.2     | 99.0    | 98.0    |
| 15. Others                                          | 1577                 | 1177           | 2150             | 1490                                                       | 47.4                                                     | 42.2                                     | 47.3    | 38.0    | 73.3    | 30.0    |
| Total Export                                        | 3328                 | 2788           | 4844             | 3919                                                       | 100.0                                                    | 100.0                                    | 100.0   | 100.0   | 73.2    | 71.1    |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : MUMBAI

| Commodities                                       | General Cargo (000T) |         |         |                     |         |         |                                                 |         |         |                                               |         | Level of Containerisation |                                       |       |
|---------------------------------------------------|----------------------|---------|---------|---------------------|---------|---------|-------------------------------------------------|---------|---------|-----------------------------------------------|---------|---------------------------|---------------------------------------|-------|
|                                                   | Container Cargo      |         |         | Total General Cargo |         |         | % Share of commodities in Total Container Cargo |         |         | % Share of commodities in Total General Cargo |         |                           | % of container Cargo to General Cargo |       |
|                                                   | 1996-97              | 1997-98 | 1998-99 | 1996-97             | 1997-98 | 1998-99 | 1996-97                                         | 1997-98 | 1998-99 | 1996-97                                       | 1997-98 | 1998-99                   | Col.2                                 | Col.3 |
| 1                                                 | 2                    | 3       | 4       | 5                   | 6       | 7       | 8                                               | 9       | 10      | 11                                            | 12      | 13                        | 14                                    | 15    |
| <b>IMPORT</b>                                     |                      |         |         |                     |         |         |                                                 |         |         |                                               |         |                           |                                       |       |
| 1. Iron & Steel                                   | 486                  | 196     | 1466    | 1766                | 10.9    | 6.0     | 21.3                                            | 25.7    | 33.2    | 11.1                                          |         |                           |                                       |       |
| 2. Metal & Metal Products.                        | 200                  | 178     | 290     | 280                 | 4.5     | 5.4     | 4.2                                             | 4.1     | 68.9    | 63.6                                          |         |                           |                                       |       |
| 3. Chemicals                                      | 405                  | 498     | 555     | 639                 | 10.9    | 15.2    | 8.1                                             | 9.3     | 87.4    | 77.9                                          |         |                           |                                       |       |
| 4. Paper, Newsprints etc.                         | 507                  | 482     | 730     | 729                 | 11.4    | 14.7    | 10.6                                            | 10.6    | 69.4    | 66.1                                          |         |                           |                                       |       |
| 5. Plastic & its products                         | 350                  | 225     | 357     | 235                 | 7.9     | 6.9     | 5.2                                             | 3.4     | 98.0    | 95.7                                          |         |                           |                                       |       |
| 6. Machinery/Instrument and Transport equipments. | 220                  | 139     | 330     | 236                 | 4.9     | 4.2     | 4.8                                             | 3.4     | 66.7    | 58.9                                          |         |                           |                                       |       |
| 7. Textiles, cotton, yarn etc.                    | 126                  | 122     | 127     | 125                 | 2.8     | 3.7     | 1.8                                             | 1.8     | 99.2    | 97.6                                          |         |                           |                                       |       |
| 8. Hair and wool                                  | 1                    | 1       | 1       | 1                   | Neg.    | Neg.    | Neg.                                            | Neg.    | 100.0   | 100.0                                         |         |                           |                                       |       |
| 9. Rubber and its products.                       | 67                   | 73      | 69      | 75                  | 1.5     | 2.2     | 1.0                                             | 1.1     | 97.1    | 97.3                                          |         |                           |                                       |       |
| 10. Oil, fats etc.                                | 242                  | 91      | 242     | 611                 | 5.4     | 2.8     | 3.5                                             | 8.9     | 100.0   | 14.9                                          |         |                           |                                       |       |
| 11. Woodpulp.                                     | 96                   | 65      | 96      | 251                 | 2.2     | 2.0     | 1.4                                             | 3.6     | 100.0   | 25.9                                          |         |                           |                                       |       |
| 12. Foodgrains & other cereals                    | 254                  | 304     | 254     | 876                 | 5.7     | 9.3     | 3.7                                             | 12.8    | 100.0   | 34.7                                          |         |                           |                                       |       |
| 13. Industrial alcohols & spirits(non-potable)    | -                    | -       | -       | -                   | -       | -       | -                                               | -       | -       | -                                             |         |                           |                                       |       |
| 14. Drugs & Medicine.                             | 4                    | 4       | 4       | 4                   | 0.1     | 0.1     | 0.1                                             | 0.1     | 100.0   | 100.0                                         |         |                           |                                       |       |
| 15. Fertilizers                                   | 27                   | 13      | 27      | 88                  | 0.6     | 0.4     | 0.4                                             | 1.3     | 100.0   | 14.8                                          |         |                           |                                       |       |
| 16. Fertilizers Raw Material                      | 272                  | 55      | 272     | 55                  | 6.1     | 3.9     | 3.9                                             | 0.8     | 100.0   | 100.0                                         |         |                           |                                       |       |
| 17. Others                                        | 1120                 | 834     | 2065    | 901                 | 25.1    | 25.4    | 30.0                                            | 13.1    | 54.2    | 92.6                                          |         |                           |                                       |       |
| Total Imports                                     | 4457                 | 3280    | 6885    | 6872                | 100.0   | 100.0   | 100.0                                           | 100.0   | 64.7    | 47.7                                          |         |                           |                                       |       |

2.5.9 Commodity-Wise Break-Up of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : COCHIN

| Commodities | General Cargo (000T) |                     |                 |               | % Share of commodities in Total |               | % Share of commodities in Total |               | Level of Containerisation |        |
|-------------|----------------------|---------------------|-----------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------|--------|
|             | Container Cargo      | Total General Cargo | Container Cargo | General Cargo | Container Cargo                 | General Cargo | Container Cargo                 | General Cargo | Col. 2                    | Col. 3 |
|             | 1996-97              | 1997-98             | 1996-97         | 1997-98       | 1996-97                         | 1997-98       | 1996-97                         | 1997-98       | Col. 4                    | Col. 5 |
| 1           | 2                    | 3                   | 4               | 5             | 6                               | 7             | 8                               | 9             | 10                        | 11     |
| EXPORT      |                      |                     |                 |               |                                 |               |                                 |               |                           |        |

|                                             |     |     |     |     |       |       |       |       |       |       |
|---------------------------------------------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|
| 1. Textiles, Cotton, Yarn etc.              | 26  | 37  | 26  | 37  | 3.6   | 4.9   | 3.5   | 4.8   | 100.0 | 100.0 |
| 2. Tea & Coffee                             | 187 | 200 | 197 | 202 | 26.0  | 26.5  | 26.5  | 26.4  | 94.9  | 98.5  |
| 3. Fish, shrimps and other marine products. | 101 | 92  | 101 | 92  | 14.0  | 12.2  | 13.6  | 12.0  | 100.0 | 100.0 |
| 4. Spices                                   | 54  | 49  | 54  | 49  | 7.5   | 6.5   | 7.3   | 6.4   | 100.0 | 100.0 |
| 5. Cashew kernels                           | 46  | 40  | 46  | 48  | 6.4   | 6.4   | 6.2   | 6.3   | 100.0 | 100.0 |
| 6. Chemicals                                | 20  | 23  | 20  | 23  | 2.8   | 3.1   | 2.7   | 3.0   | 100.0 | 100.0 |
| 7. Gold Products                            | 45  | 47  | 45  | 47  | 6.3   | 6.2   | 6.0   | 6.1   | 100.0 | 100.0 |
| 8. Others                                   | 240 | 258 | 254 | 269 | 33.4  | 34.2  | 34.2  | 35.0  | 94.5  | 95.9  |
| Total Export                                | 719 | 754 | 743 | 768 | 100.0 | 100.0 | 100.0 | 100.0 | 96.8  | 98.2  |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : COCHIN

| Commodities                             | General Cargo (000T) |     |                     |     |                                                 |       |                                               |       |                                       |       | Level of Containerisation |  |  |  |
|-----------------------------------------|----------------------|-----|---------------------|-----|-------------------------------------------------|-------|-----------------------------------------------|-------|---------------------------------------|-------|---------------------------|--|--|--|
|                                         | Container Cargo      |     | Total General Cargo |     | % Share of commodities in Total Container Cargo |       | % Share of commodities in Total General Cargo |       | % of container Cargo to General Cargo |       | Col.2 Col.3               |  |  |  |
|                                         | 1996-97 1997-98      |     | 1996-97 1997-98     |     | 1996-97 1997-98                                 |       | 1996-97 1997-98                               |       | 1996-97 1997-98                       |       | Col.4 Col.5               |  |  |  |
|                                         | 2                    | 3   | 4                   | 5   | 6                                               | 7     | 8                                             | 9     | 10                                    | 11    |                           |  |  |  |
| 1                                       | 2                    | 3   | 4                   | 5   | 6                                               | 7     | 8                                             | 9     | 10                                    | 11    |                           |  |  |  |
| IMPORT                                  |                      |     |                     |     |                                                 |       |                                               |       |                                       |       |                           |  |  |  |
| 1. Iron & Steel Metal & Metal Products. | 31                   | 88  | 59                  | 90  | 12.5                                            | 29.1  | 11.8                                          | 17.0  | 52.5                                  | 97.8  |                           |  |  |  |
| 2. Chemicals.                           | 6                    | 14  | 6                   | 19  | 2.4                                             | 4.6   | 1.2                                           | 3.4   | 100.0                                 | 77.8  |                           |  |  |  |
| 3. Paper, Newsprints etc.               | 3                    | 10  | 14                  | 15  | 1.2                                             | 3.3   | 2.8                                           | 2.8   | 21.4                                  | 66.7  |                           |  |  |  |
| 4. Machinery                            | 3                    | 1   | 3                   | 1   | 1.2                                             | 0.3   | 0.6                                           | 0.2   | 100.0                                 | 100.0 |                           |  |  |  |
| 5. Rubber and its products.             | 9                    | 11  | 9                   | 11  | 3.6                                             | 3.7   | 1.8                                           | 2.1   | 100.0                                 | 100.0 |                           |  |  |  |
| 6. Cashew nuts                          | 11                   | -   | 58                  | 73  | 4.5                                             | -     | 11.6                                          | 13.8  | 18.9                                  | -     |                           |  |  |  |
| 7. Other                                | 185                  | 178 | 353                 | 321 | 14.6                                            | 59.0  | 70.3                                          | 60.7  | 52.4                                  | 55.4  |                           |  |  |  |
| Total Imports                           | 248                  | 302 | 502                 | 529 | 100.0                                           | 100.0 | 100.0                                         | 100.0 | 49.4                                  | 57.1  |                           |  |  |  |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : TUTICORIN

| Commodities                            | General Cargo (000T) |         |                     |         |                                                 |         |                                               |         | Level of Containerisation             |       |       |
|----------------------------------------|----------------------|---------|---------------------|---------|-------------------------------------------------|---------|-----------------------------------------------|---------|---------------------------------------|-------|-------|
|                                        | Container Cargo      |         | Total General Cargo |         | % Share of commodities in total Container Cargo |         | % Share of commodities in total General Cargo |         | % of container Cargo to General Cargo |       |       |
|                                        | 1996-97              | 1997-98 | 1996-97             | 1997-98 | 1996-97                                         | 1997-98 | 1996-97                                       | 1997-98 | Col.2                                 | Col.3 | Col.4 |
|                                        | 1                    | 2       | 3                   | 4       | 5                                               | 6       | 7                                             | 8       | 9                                     | 10    | 11    |
| <b>EXPORT</b>                          |                      |         |                     |         |                                                 |         |                                               |         |                                       |       |       |
| 1. Cotton Yarn, etc.                   | 88                   | -       | 88                  | -       | -                                               | 14.0    | -                                             | 6.2     | -                                     | 100.0 | -     |
| 2. Tea & Coffee                        | 76                   | 11      | 76                  | 11      | -                                               | 12.1    | 1.5                                           | 5.4     | 0.7                                   | 100.0 | 100.0 |
| 3. Frozen Cargo                        | 16                   | 17      | 16                  | 17      | -                                               | 2.5     | 2.3                                           | 1.1     | 1.1                                   | 100.0 | 100.0 |
| 4. Garnet Sand                         | 20                   | 39      | 36                  | 56      | -                                               | 3.2     | 5.3                                           | 2.5     | 3.7                                   | 55.5  | 69.6  |
| 5. Cashew Kernels                      | 38                   | 39      | 38                  | 39      | -                                               | 6.0     | 5.2                                           | 2.7     | 2.6                                   | 100.0 | 100.0 |
| 6. Others.                             | 392                  | 636     | 1161                | 1388    | -                                               | 62.2    | 85.7                                          | 82.1    | 91.9                                  | 33.8  | 45.8  |
| Total Export                           | 630                  | 742     | 1415                | 1511    | -                                               | 100.0   | 100.0                                         | 100.0   | 100.0                                 | 44.5  | 49.1  |
| <b>IMPORT</b>                          |                      |         |                     |         |                                                 |         |                                               |         |                                       |       |       |
| 1. Iron & Steel Metal & Metal Products | -                    | -       | -                   | -       | -                                               | -       | -                                             | -       | -                                     | -     | -     |
| 2. Raw Cashew                          | 51                   | 100     | 138                 | 182     | -                                               | 18.8    | 26.7                                          | 24.6    | 23.7                                  | 36.9  | 54.9  |
| 3. Others                              | 220                  | 274     | 424                 | 586     | -                                               | 81.2    | 73.3                                          | 75.4    | 76.3                                  | 51.9  | 46.8  |
| Total Imports                          | 271                  | 374     | 562                 | 768     | -                                               | 100.0   | 100.0                                         | 100.0   | 100.0                                 | 48.2  | 48.7  |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : CHENNAI

| Commodities                                     | General Cargo (000T) |         |                     |         |         | % Share of commodities in Total |         | % Share of commodities in Total |         | Level of Containerisation |                |
|-------------------------------------------------|----------------------|---------|---------------------|---------|---------|---------------------------------|---------|---------------------------------|---------|---------------------------|----------------|
|                                                 | Container Cargo      |         | Total General Cargo |         | 1997-98 | 1996-97                         | 1997-98 | 1996-97                         | 1997-98 | Col.2<br>Col.3            | Col.4<br>Col.5 |
|                                                 | 1996-97              | 1997-98 | 1996-97             | 1997-98 |         |                                 |         |                                 |         |                           |                |
| 1                                               | 2                    | 3       | 4                   | 5       | 6       | 7                               | 8       | 9                               | 10      | 11                        |                |
| EXPORT                                          |                      |         |                     |         |         |                                 |         |                                 |         |                           |                |
| 1. Textiles, Cotton Yarn etc.                   | 267                  | 314     | 267                 | 316     | 18.3    | 19.0                            | 12.3    | 13.0                            | 100.0   | 99.4                      |                |
| 2. Metal & Metal Products                       | 110                  | 132     | 119                 | 144     | 7.5     | 8.0                             | 5.5     | 5.9                             | 92.4    | 91.7                      |                |
| 3. Tea & Coffee                                 | 8                    | 9       | 8                   | 9       | 0.5     | 0.5                             | 0.4     | 0.4                             | 100.0   | 100.0                     |                |
| 4. Garnite blocks & its other materials         | 274                  | 326     | 841                 | 770     | 18.8    | 19.7                            | 36.6    | 31.7                            | 32.6    | 42.3                      |                |
| 5. Fish, shrimps and other marine products      | 46                   | 46      | 47                  | 46      | 3.2     | 2.8                             | 2.2     | 1.9                             | 87.8    | 100.0                     |                |
| 6. Fruits & Vegetables                          | 45                   | 35      | 61                  | 48      | 3.1     | 2.1                             | 2.8     | 2.0                             | 73.0    | 72.9                      |                |
| 7. Machinery, Instruments & Transport equipment | 55                   | 62      | 59                  | 73      | 3.8     | 3.8                             | 2.7     | 3.0                             | 93.2    | 84.9                      |                |
| 8. Oil seeds, Fats etc.                         | 58                   | 62      | 67                  | 69      | 3.9     | 3.8                             | 3.1     | 2.8                             | 86.8    | 89.8                      |                |
| 9. Chemicals                                    | 100                  | 106     | 106                 | 113     | 6.9     | 6.4                             | 4.8     | 4.7                             | 94.3    | 93.8                      |                |
| 10. Others                                      | 496                  | 559     | 602                 | 841     | 34      | 33.9                            | 27.6    | 34.6                            | 82.4    | 66.5                      |                |
| Total Exports                                   | 1459                 | 1651    | 2177                | 2429    | 100.0   | 100.0                           | 100.0   | 100.0                           | 47.0    | 68.0                      |                |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : CHENNAI

| Commodities                                       | General Cargo (000T) |                     |         |                                 |         |                                 |         |                                       |         |         | Level of Containerisation |  |
|---------------------------------------------------|----------------------|---------------------|---------|---------------------------------|---------|---------------------------------|---------|---------------------------------------|---------|---------|---------------------------|--|
|                                                   | Container Cargo      | Total General Cargo |         | % Share of commodities in Total |         | % Share of commodities in Total |         | % of container Cargo to General Cargo |         |         |                           |  |
|                                                   |                      |                     |         |                                 |         |                                 |         | Col.2                                 | Col.3   | Col.4   | Col.5                     |  |
|                                                   | 1996-97              | 1997-98             | 1996-97 | 1997-98                         | 1996-97 | 1997-98                         | 1996-97 | 1997-98                               | 1996-97 | 1997-98 |                           |  |
| ----- x100 ----- x100 -----                       |                      |                     |         |                                 |         |                                 |         |                                       |         |         |                           |  |
| IMPORT                                            |                      |                     |         |                                 |         |                                 |         |                                       |         |         |                           |  |
| 1. Iron & Steel Metal & Metal Products            | 158                  | 192                 | 471     | 412                             | 14.3    | 14.2                            | 28.2    | 22.0                                  | 33.5    | 46.6    |                           |  |
| 2. Chemicals                                      | 148                  | 186                 | 156     | 192                             | 13.4    | 13.8                            | 9.3     | 10.2                                  | 94.9    | 96.9    |                           |  |
| 3. Paper, Paper products etc.                     | 88                   | 230                 | 90      | 257                             | 8.0     | 17.0                            | 5.4     | 13.7                                  | 97.8    | 89.5    |                           |  |
| 4. Wheat flour, other cereals & products          | 28                   | 67                  | 40      | 67                              | 2.5     | 5.0                             | 2.4     | 3.6                                   | 70.0    | 100.0   |                           |  |
| 5. Plastic & its' products                        | 91                   | 101                 | 100     | 102                             | 8.2     | 7.5                             | 6.0     | 5.4                                   | 91.0    | 99.0    |                           |  |
| 6. Machinery/Instruments and Transport equipments | 80                   | 88                  | 111     | 126                             | 7.2     | 6.5                             | 6.6     | 6.7                                   | 72.1    | 69.8    |                           |  |
| 7. Textiles, Cotton, Hair and Wool etc.           | 33                   | 30                  | 34      | 30                              | 3.0     | 2.2                             | 2.0     | 1.6                                   | 97.1    | 100.0   |                           |  |
| 9. Rubber and its products                        | 38                   | 41                  | 39      | 42                              | 3.4     | 3.0                             | 2.3     | 2.3                                   | 97.4    | 97.6    |                           |  |
| 9. Wood Pulp                                      | 16                   | 27                  | 59      | 71                              | 1.5     | 2.0                             | 3.5     | 3.8                                   | 27.1    | 38.0    |                           |  |
| 10. Drugs & Medicines                             | 11                   | 10                  | 11      | 10                              | 1.0     | 0.6                             | 0.7     | 0.5                                   | 100.0   | 100.0   |                           |  |
| 11. Plantation commodities                        | 10                   | 14                  | 11      | 14                              | 0.9     | 1.0                             | 0.7     | 0.8                                   | 90.9    | 100.0   |                           |  |
| 12. Others                                        | 404                  | 365                 | 550     | 551                             | 36.6    | 27.0                            | 32.9    | 29.4                                  | 73.4    | 66.2    |                           |  |
| Total Imports                                     | 1105                 | 1351                | 1672    | 1874                            | 100.0   | 100.0                           | 100.0   | 100.0                                 | 66.1    | 72.1    |                           |  |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : VISAKHAPATNAM

| Commodities             | General Cargo (000T) |         |                     |         |                                                 |         | % Share of commodities in Total               |         |                                       |       | Level of Containerisation |       |  |
|-------------------------|----------------------|---------|---------------------|---------|-------------------------------------------------|---------|-----------------------------------------------|---------|---------------------------------------|-------|---------------------------|-------|--|
|                         | Container Cargo      |         | Total General Cargo |         | % Share of commodities in Total Container Cargo |         | % Share of commodities in Total General Cargo |         | % of container Cargo to General Cargo |       |                           |       |  |
|                         | 1996-97              | 1997-98 | 1996-97             | 1997-98 | 1996-97                                         | 1997-98 | 1996-97                                       | 1997-98 | Col.2                                 | Col.3 | Col.4                     | Col.5 |  |
|                         | 2                    | 3       | 4                   | 5       | 6                                               | 7       | 8                                             | 9       | 10                                    | 11    |                           |       |  |
| EXPORT                  |                      |         |                     |         |                                                 |         |                                               |         |                                       |       |                           |       |  |
| 1. Shrimps/Reefer Cargo | 30                   | 36      | 30                  | 36      | 27.0                                            | 37.9    | 1.7                                           | 1.9     | 100.0                                 | 100.0 |                           |       |  |
| 2. Alumina Ingots       | 52                   | 29      | 55                  | 36      | 46.9                                            | 30.5    | 3.1                                           | 1.9     | 94.5                                  | 80.6  |                           |       |  |
| 3. Others               | 29                   | 30      | 1699                | 1846    | 26.1                                            | 31.6    | 95.2                                          | 96.2    | 1.7                                   | 1.6   |                           |       |  |
| Total Exports           | 111                  | 95      | 1784                | 1918    | 100.0                                           | 100.0   | 100.0                                         | 100.0   | 6.2                                   | 4.9   |                           |       |  |
| IMPORT                  |                      |         |                     |         |                                                 |         |                                               |         |                                       |       |                           |       |  |
| Total Imports           | 56                   | 51      | 240                 | 298     | 100.0                                           | 100.0   | 100.0                                         | 100.0   | 23.3                                  | 17.1  |                           |       |  |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd..)

PORT : CALCUTTA

| Commodities               | General Cargo (000T) |                     |                                                 |         |                                               | Level of Containerisation             |         |         |       |       |
|---------------------------|----------------------|---------------------|-------------------------------------------------|---------|-----------------------------------------------|---------------------------------------|---------|---------|-------|-------|
|                           | Container Cargo      | Total General Cargo | % Share of commodities in Total Container Cargo |         | % Share of commodities in Total General Cargo | % of container Cargo to General Cargo |         | Col.2   | Col.3 | Col.4 |
|                           |                      |                     |                                                 |         |                                               |                                       |         |         |       |       |
|                           | 1996-97              | 1997-98             | 1996-97                                         | 1997-98 | 1996-97                                       | 1997-98                               | 1996-97 | 1997-98 | Col.4 | Col.5 |
| 1                         | 2                    | 3                   | 4                                               | 5       | 6                                             | 7                                     | 8       | 9       | 10    | 11    |
| <b>EXPORT</b>             |                      |                     |                                                 |         |                                               |                                       |         |         |       |       |
| 1. Tea & Coffee           | 67                   | 57                  | 73                                              | 57      | 6.3                                           | 5.1                                   | 4.2     | 3.6     | 91.8  | 100.0 |
| 2. Jute & Jute Products   | 159                  | 225                 | 226                                             | 270     | 14.8                                          | 20.2                                  | 13.0    | 16.8    | 70.4  | 83.3  |
| 3. Cast Iron goods        | 114                  | 84                  | 140                                             | 84      | 10.6                                          | 7.5                                   | 8.0     | 5.3     | 81.4  | 100.0 |
| 4. Mica                   | 26                   | 31                  | 26                                              | 31      | 2.4                                           | 2.8                                   | 1.5     | 1.9     | 100.0 | 100.0 |
| 5. Iron & Steel Machinery | 212                  | 184                 | 406                                             | 312     | 19.8                                          | 16.5                                  | 23.3    | 19.5    | 52.2  | 59.0  |
| 6. Others                 | 494                  | 535                 | 873                                             | 848     | 46.1                                          | 47.9                                  | 50.0    | 52.9    | 56.6  | 63.1  |
| Total Export              | 1072                 | 1116                | 1744                                            | 1602    | 100.0                                         | 100.0                                 | 100.0   | 100.0   | 61.5  | 69.7  |
| <b>IMPORT</b>             |                      |                     |                                                 |         |                                               |                                       |         |         |       |       |
| 1. Iron & Steel Machinery | 150                  | 150                 | 264                                             | 242     | 17.1                                          | 14.9                                  | 17.8    | 11.2    | 56.8  | 62.0  |
| 2. Chemicals              | 101                  | 129                 | 101                                             | 129     | 11.5                                          | 12.6                                  | 6.8     | 6.0     | 100.0 | 100.0 |
| 3. Others                 | 628                  | 727                 | 1121                                            | 1792    | 71.4                                          | 72.3                                  | 75.4    | 82.8    | 56.0  | 40.6  |
| Total Import              | 879                  | 1006                | 1486                                            | 2163    | 100.0                                         | 100.0                                 | 100.0   | 100.0   | 59.2  | 46.5  |

2.5.9 Commodity-Wise Break-Up Of Container Cargo As Well As General Cargo And  
Level Of Containerisation At Major Ports (Port-Wise) (Contd.)

PORT : HALDIA

| Commodities                           | General Cargo (000T) |         |                     |         |                                                 |         |                                               |         |                                       |         |       | Level of Containerisation |       |  |
|---------------------------------------|----------------------|---------|---------------------|---------|-------------------------------------------------|---------|-----------------------------------------------|---------|---------------------------------------|---------|-------|---------------------------|-------|--|
|                                       | Container Cargo      |         | Total General Cargo |         | % Share of commodities in Total Container Cargo |         | % Share of commodities in Total General Cargo |         | % of container Cargo to General Cargo |         | Col.2 |                           | Col.3 |  |
|                                       | 1996-97              | 1997-98 | 1996-97             | 1997-98 | 1996-97                                         | 1997-98 | 1996-97                                       | 1997-98 | 1996-97                               | 1997-98 | Col.4 | Col.5                     |       |  |
|                                       | 2                    | 3       | 4                   | 5       | 6                                               | 7       | 8                                             | 9       | 10                                    | 11      |       |                           |       |  |
| EXPORT                                |                      |         |                     |         |                                                 |         |                                               |         |                                       |         |       |                           |       |  |
| 1. Tea & Coffee                       | 36                   | 41      | 37                  | 41      | 36.4                                            | 14.0    | 10.7                                          | 6.8     | 97.3                                  | 100.0   |       |                           |       |  |
| 2. Jute & Jute Products               | 13                   | 32      | 13                  | 32      | 13.1                                            | 10.9    | 3.8                                           | 5.3     | 100.0                                 | 100.0   |       |                           |       |  |
| 3. Cast Iron goods                    | -                    | 54      | -                   | 54      | -                                               | 18.4    | -                                             | 8.9     | -                                     | 100.0   |       |                           |       |  |
| 4. Mica                               | -                    | 4       | -                   | 10      | -                                               | 1.4     | -                                             | 1.6     | -                                     | 40.0    |       |                           |       |  |
| 5. Others                             | 50                   | 162     | 296                 | 470     | 50.5                                            | 55.3    | 85.5                                          | 77.4    | 16.9                                  | 34.5    |       |                           |       |  |
| Total Export                          | 99                   | 293     | 346                 | 607     | 100.0                                           | 100.0   | 100.0                                         | 100.0   | 28.6                                  | 48.3    |       |                           |       |  |
| IMPORT                                |                      |         |                     |         |                                                 |         |                                               |         |                                       |         |       |                           |       |  |
| 1. Iron & Steel, Metal & its Products | -                    | -       | 3                   | 43      | -                                               | -       | 7.9                                           | 18.7    | -                                     | -       |       |                           |       |  |
| 2. Chemicals                          | -                    | -       | -                   | -       | -                                               | -       | -                                             | -       | -                                     | -       |       |                           |       |  |
| 3. Machinery                          | -                    | 1       | -                   | 3       | -                                               | 1.1     | -                                             | 1.3     | -                                     | 33.3    |       |                           |       |  |
| 4. Others                             | 18                   | 87      | 35                  | 184     | 100.0                                           | 98.9    | 92.1                                          | 80.0    | 51.4                                  | 47.3    |       |                           |       |  |
| Total Import                          | 18                   | 88      | 38                  | 230     | 100.0                                           | 100.0   | 100.0                                         | 100.0   | 47.4                                  | 38.3    |       |                           |       |  |

# 2.5.10 Inland Container Movement (Major Ports)

| Port          | Year    | Incoming To Port  |                     |                   |                     | Outgoing From Port |                     |                   |                     | Total   |
|---------------|---------|-------------------|---------------------|-------------------|---------------------|--------------------|---------------------|-------------------|---------------------|---------|
|               |         | By Rail<br>: TEUs | By Road<br>: Tonnes | By Rail<br>: TEUs | By Road<br>: Tonnes | By Rail<br>: TEUs  | By Road<br>: Tonnes | By Rail<br>: TEUs | By Road<br>: Tonnes |         |
| Calcutta      | 1996-97 | 195               | 2787                | 45604             | 575258              | 213                | 2086                | 41037             | 382575              | 87049   |
|               | 1997-98 | -                 | -                   | -                 | -                   | -                  | -                   | -                 | -                   | 963506  |
| Haldia        | 1996-97 | 4022              | 55110               | 2593              | 24478               | 1651               | 16146               | 187               | 1281                | 8453    |
|               | 1997-98 | 5928              | 73967               | 12766             | 191761              | 6374               | 63502               | 1968              | 20607               | 27036   |
| Visakhapatnam | 1996-97 | 524               | 4428                | 1259              | 5638                | 380                | 1020                | 933               | 6754                | 3096    |
|               | 1997-98 | 425               | 2969                | 1266              | 8148                | 247                | 767                 | 1073              | 7489                | 3011    |
| Chennai       | 1996-97 | 12747             | 147988              | 116462            | 1310938             | 6449               | 74706               | 120487            | 1030165             | 256145  |
|               | 1997-98 | 15426             | 167293              | 130927            | 1482136             | 9419               | 89524               | 135549            | 1260433             | 291321  |
| Tuticorin     | 1996-97 | -                 | -                   | 9600              | 126202              | -                  | -                   | 26039             | 113279              | 35639   |
|               | 1997-98 | -                 | -                   | 52676             | 741607              | 752                | 1591                | 49036             | 372164              | 102464  |
| Cochin        | 1996-97 | 10654             | 122425              | 46927             | 596309              | 734                | 5373                | 53145             | 243493              | 11460   |
|               | 1997-98 | 12268             | 146777              | 50176             | 607223              | 592                | 7696                | 57594             | 294304              | 120630  |
| Mormugao      | 1996-97 | -                 | -                   | 610               | 3412                | -                  | -                   | 620               | 2218                | 1230    |
|               | 1997-98 | -                 | -                   | 1308              | 6486                | -                  | -                   | 1330              | 6032                | 2638    |
| J.L.Nehru     | 1996-97 | 51798             | 621576              | 166976            | 1997712             | 46496              | 557952              | 121966            | 889272              | 387236  |
|               | 1997-98 | 64863             | 778356              | 234133            | 2809596             | 71812              | 861744              | 117912            | 1088131             | 488720  |
| Mumbai        | 1996-97 | 30605             | 416839              | 2563              | 35926               | 42175              | 556553              | 4452              | 59941               | 79795   |
|               | 1997-98 | 33688             | 499102              | 125354            | 1844768             | 46788              | 624710              | 127899            | 1657315             | 333729  |
| Kandla        | 1996-97 | 3149              | 27616               | 221               | 1840                | 3540               | 9541                | 221               | 2526                | 7131    |
|               | 1997-98 | 1879              | 15171               | 1205              | 6156                | 1445               | 11828               | 1280              | 14013               | 5809    |
| Total         | 1996-97 | 113694            | 1398769             | 392815            | 4677713             | 101638             | 1224177             | 369087            | 2731504             | 977234  |
|               | 1997-98 | 134477            | 1683635             | 609811            | 7697881             | 137429             | 1661362             | 493641            | 4720488             | 1485409 |

Source : Major Ports  
Note : Total Inland Container Movement may not tally with total Container Traffic at port because in some ports stuffing and destuffing is done inside the port area and empty containers are also stacked inside the port premises.

There is no container traffic at Paradip and New Mangalore Ports.  
\* Break up is not available

**2.5.11 Inland Container Depot Movement Of Containers  
At Major Ports**

| (TEUs)        |  |              |           |              |                   |              |           |              |                   |
|---------------|--|--------------|-----------|--------------|-------------------|--------------|-----------|--------------|-------------------|
|               |  | 1996-97      |           | 1997-98      |                   |              |           |              |                   |
| PORT          |  | ICD Movement |           | ICD Movement |                   | ICD Movement |           | ICD Movement |                   |
|               |  | Moved in     | Moved out | Total        | Container Traffic | Moved in     | Moved out | Total        | Container Traffic |
| Calcutta      |  | 91           | 178       | 269          | 132695            | 67           | 87        | 154          | 140880            |
| Haldia        |  | 3954         | 1651      | 5605         | 88810             | 5918         | 6374      | 12292        | 282120            |
| Paradip       |  | -            | -         | -            | -                 | -            | -         | -            | -                 |
| Visakhapatnam |  | 1879         | 1452      | 3331         | 13117             | 1691         | 1350      | 3041         | 12764             |
| Chennai       |  | 12747        | 6449      | 19196        | 2565030           | 17210        | 8153      | 25363        | 2925930           |
| Tuticorin     |  | -            | -         | -            | 88769             | -            | 514       | 514          | 102464            |
| Cochin        |  | 10654        | 547       | 11201        | 1121450           | 12268        | 677       | 12945        | 1216490           |
| New Mangalore |  | -            | -         | -            | -                 | -            | -         | -            | -                 |
| Mormugao      |  | -            | -         | -            | 3383              | 8            | 24        | 32           | 3361              |
| J.L.Nehru     |  | 46496        | 51798     | 98294        | 4231480           | 64863        | 71812     | 136675       | 5041490           |
| Mumbai        |  | 46627        | 33168     | 79795        | 5834150           | 36304        | 52259     | 88563        | 6012890           |
| Kandla        |  | 3149         | 3540      | 6689         | 77437             | 2576         | 2072      | 4648         | 84194             |
| All Ports     |  | 125597       | 98783     | 224380       | 1699493           | 140905       | 143322    | 284227       | 1891555           |

Source : Administrative Report  
@ Includes transshipment.

# 2.5.12 Container Handling Rate

| Port          | Year    | Quay Side Gantry Crane |                              |                         | Rail Mounted Gantry Crane |                              |                         | Output per<br>hookshift<br>Tonnes |
|---------------|---------|------------------------|------------------------------|-------------------------|---------------------------|------------------------------|-------------------------|-----------------------------------|
|               |         | Age of<br>Idle Time    | No of container<br>Worked hr | per actual<br>worked hr | Age of<br>Idle time       | No of container<br>Worked hr | per actual<br>worked hr |                                   |
| Calcutta      | 1996-97 | -                      | -                            | -                       | -                         | -                            | -                       | 561.0                             |
|               | 1997-98 | -                      | -                            | -                       | -                         | -                            | -                       | 634.0                             |
| Haldia        | 1996-97 | -                      | -                            | -                       | ...                       | 4.8                          | ...                     | 38.0 TEU                          |
|               | 1997-98 | -                      | -                            | -                       | ...                       | 4.6                          | ...                     | 37.0 TEU                          |
| Visakhapatnam | 1996-97 | -                      | -                            | -                       | 97.2                      | 0.3                          | 10.8                    | 149.0                             |
|               | 1997-98 | -                      | -                            | -                       | 86.9                      | 0.4                          | 11.6                    | 175.0                             |
| Chennai       | 1996-97 | 35.9                   | 11.4                         | 17.8                    | -                         | -                            | -                       | 862.0                             |
|               | 1997-98 | 47.4                   | 9.1                          | 17.3                    | -                         | -                            | -                       | 880.0                             |
| Cochin        | 1996-97 | 66.8                   | 4.3                          | 13.0                    | -                         | -                            | -                       | ...                               |
|               | 1997-98 | 63.1                   | 5.0                          | 13.5                    | -                         | -                            | -                       | 161.0                             |
| J.L.Nehru     | 1996-97 | 53.4                   | 8.5                          | 18.3                    | 48.2                      | 4.4                          | 9.2                     | -                                 |
|               | 1997-98 | 27.5                   | 12.2                         | 16.2                    | 33.4                      | 5.7                          | 8.5                     | -                                 |
| Mumbai        | 1996-97 | 52.7                   | 5.5                          | 11.5                    | -                         | -                            | -                       | 360.0                             |
|               | 1997-98 | 44.4                   | 7.2                          | 13.0                    | -                         | -                            | -                       | 455.0                             |

Note 1) : Number of Container per worked hour = Total Containers Handled/Total no. of equipment hours worked  
2) No. of container per actual worked hour = Total container Handled/  
Total No. of equipment hours actually worked (Total No. of equipment hrs. worked-idle time)  
3) In case of Haldia & Visakhapatnam handling rate/Hour is given in TEUs.  
4) In case of Paradip and New Mangalore Ports there is no Container traffic.  
In case of Kandla, Mormugao, Tuticorin and Calcutta the port does not own  
Quayside Gantry Crane or Rail Mounted Gantry Crane.

### 2.5.13 Availability And Utilisation Of Container Handling Equipments

| PORT          | Year    | Quay Side Gantry Crane |                     |                                              | R. T. Gantry Crane |                     |                                              | Rail Mounted G. Crane |                     |                                              |
|---------------|---------|------------------------|---------------------|----------------------------------------------|--------------------|---------------------|----------------------------------------------|-----------------------|---------------------|----------------------------------------------|
|               |         | No.                    | % availa-<br>bility | Utilisation of<br>Available Possible<br>Hrs. | No.                | % availa-<br>bility | Utilisation of<br>Available Possible<br>Hrs. | No.                   | % availa-<br>bility | Utilisation of<br>Available Possible<br>Hrs. |
| Calcutta      | 1996-97 | -                      | -                   | -                                            | 3                  | 78.8                | 41.8                                         | 32.9                  | -                   | -                                            |
|               | 1997-98 | -                      | -                   | -                                            | 3                  | 81.2                | 31.7                                         | 25.7                  | -                   | -                                            |
| Haldia        | 1996-97 | -                      | -                   | -                                            | -                  | -                   | -                                            | -                     | 1                   | 83.5                                         |
|               | 1997-98 | -                      | -                   | -                                            | -                  | -                   | -                                            | -                     | 1                   | 88.2                                         |
| Visakhapatnam | 1996-97 | -                      | -                   | -                                            | -                  | -                   | -                                            | -                     | 2                   | 86.9                                         |
|               | 1997-98 | -                      | -                   | -                                            | -                  | -                   | -                                            | -                     | 2                   | 88.4                                         |
| Chennai       | 1996-97 | 4                      | 88.8                | 49.7                                         | 44.1               | 8                   | 84.7                                         | 46.5                  | 39.4                | -                                            |
|               | 1997-98 | 4                      | 89.2                | 55.3                                         | 49.4               | 10                  | 88.5                                         | 45.9                  | 40.6                | -                                            |
| Tuticorin     | 1996-97 | -                      | -                   | -                                            | -                  | -                   | -                                            | -                     | -                   | -                                            |
|               | 1997-98 | -                      | -                   | -                                            | -                  | -                   | -                                            | -                     | -                   | -                                            |
| Cochin        | 1996-97 | 2                      | 91.1                | 33.2                                         | 30.2               | 3                   | 69.2                                         | 33.1                  | 22.9                | -                                            |
|               | 1997-98 | 2                      | 85.0                | 36.9                                         | 31.4               | 3                   | 68.0                                         | 32.4                  | 22.0                | -                                            |
| J.L.Nehru     | 1996-97 | 3+3                    | 52.9                | 64.6                                         | 34.1               | 8+6                 | 71.4                                         | 39.7                  | 28.3                | 1+1                                          |
|               | 1997-98 | 3+3                    | 91.2                | 42.0                                         | 38.4               | 8+6                 | 87.5                                         | 47.9                  | 41.8                | 1+2                                          |
| Mumbai        | 1996-97 | 2                      | 75.5                | 48.3                                         | 36.5               | 3                   | 67.7                                         | 44.4                  | 30.1                | -                                            |
|               | 1997-98 | 2                      | 76.1                | 44.7                                         | 34.0               | 3                   | 80.6                                         | 39.2                  | 31.6                | -                                            |

Note : (1) Possible hours are the maximum hours for which the equipment is available.  
(No. of equipments x no of days x 24)

Available hours excludes hours lost due to maintenance, breakdown and recess etc.  
(2) % Availability = (Total Available Hours/Total Possible Hours) x 100

(3) % Utilisation = No. of Hours equipment utilised/No. of available hours/possible hours.  
(4) + Hired equipments.

## 2.5.13 Availability And Utilisation of Container Handling Equipments (Contd.)

(Percentage)

| PORT          | Year    | No.   | Tractor        |                               | No. | Top Lift Trucks |                               |      |
|---------------|---------|-------|----------------|-------------------------------|-----|-----------------|-------------------------------|------|
|               |         |       | # availability | Utilisation of Available Hrs. |     | # availability  | Utilisation of Available Hrs. |      |
| Calcutta      | 1996-97 | 17    | 42.5           | 41.9                          | 2*  | 55.9            | 38.7                          | 21.6 |
|               | 1997-98 | 17    | 37.9           | 45.5                          | 34* | 41.4            | 46.8                          | 19.3 |
| Haldia        | 1996-97 | 1     | 77.6           | 1.2                           | 7*  | 87.9            | 6.1                           | 5.3  |
|               | 1997-98 | 1     | 36.2           | 5.7                           | 7*  | 79.3            | 13.9                          | 11.1 |
| Visakhapatnam | 1996-97 | 3*    | 76.2           | 1.4                           | 2   | 76.6            | 6.7                           | 5.1  |
|               | 1997-98 | 4*    | 70.2           | 1.9                           | 2   | 84.7            | 8.5                           | 7.2  |
| Chennai       | 1996-97 | 33    | 83.0           | 38.6                          | 90  | 87.3            | 31.0                          | 27.1 |
|               | 1997-98 | 30    | 63.7           | 52.8                          | 90  | 86.3            | 28.8                          | 24.8 |
| Tuticorin     | 1996-97 | -     | -              | -                             | 5   | 95.3            | 24.2                          | 23.0 |
|               | 1997-98 | -     | -              | -                             | 5   | 81.5            | 32.0                          | 26.1 |
| Cochin        | 1996-97 | 19    | 85.7           | 41.5                          | 5   | 67.3            | 39.7                          | 26.7 |
|               | 1997-98 | 19    | 74.9           | 40.0                          | 3   | 70.4            | 34.6                          | 24.4 |
| J.L.Nehru     | 1996-97 | 19+19 | 78.1           | 49.9                          | -   | -               | -                             | -    |
|               | 1997-98 | 19+19 | 75.4           | 59.6                          | -   | -               | -                             | -    |
| Mumbai        | 1996-97 | -     | -              | -                             | 25  | 78.3            | 32.2                          | 25.2 |
|               | 1997-98 | -     | -              | -                             | 45  | 61.1            | 51.7                          | 31.6 |

\* Figures relates to Fork Lift Trucks.

# Includes 3 Nos. Reach stackers

\$ Reach stackers

+ Hired equipments. Information relates to 19 owned by the Port.

Note: There is no Container Traffic at Paradip and New Mangalore.

Mormugao and Kandla do not own any Container handling equipment.

2.5.14 Top 20 Container Ports In The World Based On TEU Throughput

| PORT                  | (In 000 TEUs) |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |         |
|-----------------------|---------------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|---------|
|                       | 1990          |       | 1991 |       | 1992 |        | 1993 |        | 1994 |        | 1995 |        | 1996 |        | 1997 |        | 1998 |         |
|                       | RANK          | TEU   | RANK | TEU   | RANK | TEU    | RANK | TEU    | RANK | TEU    | RANK | TEU    | RANK | TEU    | RANK | TEU    | RANK | TEU     |
| HONG KONG             | 2             | 5101  | 2    | 6162  | 1    | 7972   | 1    | 9204   | 1    | 11050  | 1    | 12529  | 1    | 13280  | 1    | 14567  | 2    | 14650*  |
| SINGAPORE             | 1             | 5224  | 1    | 6354  | 2    | 7560   | 2    | 9046   | 2    | 10400  | 2    | 11830  | 2    | 12950  | 2    | 14135  | 1    | 15100   |
| KAOSHIUNG             | 4             | 3495  | 3    | 3913  | 4    | 3961   | 3    | 4636   | 3    | 4900   | 3    | 5053   | 3    | 5063   | 3    | 5693   | 3    | 6271    |
| ROTTERDAM             | 3             | 3667  | 4    | 3766  | 3    | 4123   | 4    | 4161   | 4    | 4539   | 4    | 4789   | 4    | 5000   | 4    | 5495   | 4    | 6032*   |
| BUSAN                 | 6             | 2348  | 5    | 2694  | 5    | 2751   | 5    | 3071   | 5    | 3825   | 5    | 4503   | 5    | 4684   | 5    | 5234   | 5    | 5752    |
| KOBE                  | 5             | 2596  | 6    | 2635  | 6    | 2608   | 6    | 2696   | 6    | 2787   | 24   | 1345   | 16   | 2057   | 17   | 1940   | 17   | 2087*   |
| HAMBURG               | 8             | 1969  | 7    | 2189  | 8    | 2268   | 7    | 2486   | 7    | 2727   | 6    | 2844   | 7    | 3065   | 7    | 3337   | 7    | 3550    |
| LOS ANGELES           | 7             | 2116  | 8    | 2038  | 7    | 2289   | 8    | 2376   | 9    | 2519   | 9    | 2555   | 8    | 2683   | 9    | 2960   | 8    | 3378    |
| LONG BEACH            | 12            | 1828  | 13   | 1768  | 13   | 1829   | 10   | 2079   | 8    | 2574   | 7    | 2740   | 6    | 3067   | 6    | 3505   | 6    | 4097*   |
| NEW YORK/NEW JERSEY   | 9             | 1672  | 10   | 1865  | 9    | 2104   | 11   | 1973   | 13   | 2034   | 11   | 2219   | 13   | 2215   | 12   | 2457   | 13   | 2450*   |
| YOKOHAMA              | 11            | 1648  | 11   | 1796  | 11   | 1887   | 9    | 2168   | 10   | 2317   | 8    | 2757   | 10   | 2400   | 13   | 2348   | 15   | 2200*   |
| KEELUNG               | 10            | 1828  | 9    | 2005  | 10   | 1941   | 13   | 1856   | 12   | 2047   | 12   | 2165   | 14   | 2109   | 18   | 1981   | -    | -       |
| ANTWERP               | 14            | 1549  | 14   | 1761  | 12   | 1836   | 12   | 1876   | 11   | 2208   | 10   | 2340   | 9    | 2654   | 8    | 2969   | 9    | 3265    |
| SAN JUAN              | 16            | 1381  | 15   | 1584  | 15   | 1577   | 16   | 1555   | 16   | 1598   | 17   | 1600   | 19   | 1641   | 19   | 1781   | 18   | 1992*   |
| DUBAI                 | -             | -     | 18   | 1255  | 17   | 1482   | 14   | 1679   | 14   | 1882   | 13   | 2070   | 12   | 2247   | 10   | 2600   | 11   | 2800    |
| FELIXSTOWE            | 15            | 1436  | 16   | 1434  | 16   | 1543   | 15   | 1639   | 15   | 1747   | 14   | 1924   | 15   | 2065   | 15   | 2251   | 12   | 2500*   |
| TOKYO                 | 13            | 1555  | 12   | 1784  | 14   | 1729   | 17   | 1538   | 17   | 1509   | 15   | 2178   | 11   | 2306   | 14   | 2322   | 13   | 2450*   |
| BREMEN                | 17            | 1198  | 17   | 1277  | 18   | 1315   | 18   | 1355   | 18   | 1502   | 18   | 1532   | -    | -      | 14   | 1703   | -    | -       |
| OAKLAND               | 19            | 1124  | 19   | 1195  | 20   | 1287   | 19   | 1305   | 20   | 1491   | 19   | 1528   | -    | -      | 20   | 1703   | -    | -       |
| HANKOK                | -             | -     | 20   | 1171  | 19   | 1303   | 20   | 1274   | -    | -      | -    | -      | -    | -      | -    | -      | -    | -       |
| SEATTLE               | 18            | 1171  | -    | -     | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | -    | -       |
| MANILA                | 20            | 1039  | -    | -     | -    | -      | -    | -      | 19   | 1501   | 16   | 1691   | 18   | 1913   | 16   | 2121   | -    | -       |
| SHANGHAI              | -             | -     | -    | -     | -    | -      | -    | -      | -    | -      | 20   | 1527   | 17   | 1930   | 11   | 2520   | 10   | 3066    |
| TIANJING PRIOK        | -             | -     | -    | -     | -    | -      | -    | -      | -    | -      | 22   | 1520   | 20   | 1590   | 18   | 1909   | 19   | 1898    |
| GIOIA TAURO           | -             | -     | -    | -     | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | 16   | 2126    |
| ALGECIRAS             | -             | -     | -    | -     | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | 20   | 1626    |
| TOTAL : TOP 20        | -             | 44145 | -    | 48646 | -    | 53365  | -    | 57973  | -    | 65157  | -    | 70179  | -    | 74919  | -    | 83832  | -    | 87490   |
| GLOBAL                | -             | 85579 | -    | 93646 | -    | 102906 | -    | 112439 | -    | 124840 | -    | 134460 | -    | 143530 | -    | 160610 | -    | 167630* |
| PERCENT SHARE: TOP 20 | -             | 51.58 | -    | 51.95 | -    | 51.86  | -    | 51.56  | -    | 52.19  | -    | 52.19  | -    | 52.20  | -    | 52.20  | -    | 52.19   |

\* Estimates

# 2.5.15 Total Containers Handled By CONCOR

(TEUs)

| REGION       | YEAR    | INTERNATIONAL |             |        |        | DOMESTIC   |        |                |             | TOTAL HANDLING |
|--------------|---------|---------------|-------------|--------|--------|------------|--------|----------------|-------------|----------------|
|              |         | IDD           | OUTWARD MTY | TOTAL  | IDD    | INWARD MTY | TOTAL  | TOTAL : INTER. | DSO : TOTAL | IRS : TOTAL    |
| NORTHERN     | 1997-98 | 98570         | 3424        | 101994 | 66909  | 40255      | 107164 | 209158         | 75774       | 177            |
|              | 1998-99 | 112828        | 7736        | 120564 | 87896  | 39765      | 127661 | 248225         | 84644       | 75             |
| WESTERN      | 1997-98 | 38413         | 25288       | 63701  | 25979  | 37257      | 63236  | 126937         | 39883       | 502            |
|              | 1998-99 | 48412         | 50118       | 98530  | 39564  | 49944      | 89508  | 188038         | 47454       | -              |
| SOUTHERN     | 1997-98 | 33878         | 21767       | 55645  | 36096  | 25009      | 61105  | 116750         | 18276       | 83             |
|              | 1998-99 | 31231         | 17315       | 48546  | 31011  | 22684      | 53695  | 102241         | 30237       | 60             |
| SOUTHCENTRAL | 1997-98 | 5658          | 521         | 6179   | 1806   | 3761       | 5567   | 11746          | 10074       | 85             |
|              | 1998-99 | 5092          | 509         | 5601   | 2308   | 3543       | 5851   | 11452          | 6238        | -              |
| EASTERN      | 1997-98 | 4585          | 3358        | 7943   | 695    | 3700       | 4395   | 12338          | 48078       | 2903           |
|              | 1998-99 | 2801          | 2995        | 5796   | 2493   | 3715       | 6208   | 12004          | 35811       | 293            |
| CENTRAL      | 1997-98 | 3952          | 2681        | 6633   | 5698   | 2221       | 7919   | 14552          | 33320       | 1083           |
|              | 1998-99 | 3889          | 3784        | 7673   | 5965   | 1192       | 7157   | 14830          | 19968       | 376            |
| ALL REGION   | 1997-98 | 185056        | 57039       | 242095 | 137183 | 112203     | 249386 | 491481         | 225405      | 4833           |
|              | 1998-99 | 204253        | 82457       | 286710 | 169237 | 120843     | 290080 | 576790         | 224352      | 804            |

LDD : Loaded MTY: Empty  
Source : Container Corporation Of India

# 2.6.1 Selected Major Port Performance Indicators - By Type Of Vessels

| Item/Year                                                           | Category of Vessels |                  |             |            |                   | All Types |
|---------------------------------------------------------------------|---------------------|------------------|-------------|------------|-------------------|-----------|
|                                                                     | Dry-Bulk (Mech.)    | Dry-Bulk (Conv.) | Liquid Bulk | Break-Bulk | Container vessels |           |
| (1)                                                                 | (2)                 | (3)              | (4)         | (5)        | (6)               | (7)       |
| <b>1. No. of vessels sailed</b>                                     |                     |                  |             |            |                   |           |
| 1996-97                                                             | 1104                | 1786             | 5016        | 2514       | 2738              | 13119     |
| 1997-98                                                             | 1197                | 2052             | 5276        | 2602       | 2991              | 14077     |
| <b>2. Av. pre-berthing waiting time(days)</b>                       |                     |                  |             |            |                   |           |
| 1996-97                                                             | 2.0                 | 4.3              | 3.3         | 4.0        | 1.6               | 3.1       |
| 1997-98                                                             | 2.0                 | 3.3              | 2.2         | 3.4        | 1.2               | 2.3       |
| <b>3. Av. turn round time (days)</b>                                |                     |                  |             |            |                   |           |
| 1996-97                                                             | 6.3                 | 11.7             | 5.6         | 11.5       | 4.7               | 7.5       |
| 1997-98                                                             | 6.1                 | 10.5             | 4.1         | 10.5       | 3.9               | 6.3       |
| <b>4. Percentage of idle time at berth to time at working berth</b> |                     |                  |             |            |                   |           |
| 1996-97                                                             | 38                  | 29               | 34          | 43         | 32                | 36        |
| 1997-98                                                             | 31                  | 29               | 34          | 43         | 32                | 35        |
| <b>5. Output per ship berth day (tonnes)</b>                        |                     |                  |             |            |                   |           |
| 1996-97                                                             | 10866               | 3190             | 11222       | 779        | 2719              | 4497      |
| 1997-98                                                             | 12275               | 3245             | 12772       | 919        | 3156              | 4912      |

Source:- Major Ports.

Note :- Item 1 (No. of vessels sailed) pertain to ships which left after cargo operation. Total may not tally with breakups since some vessels are double counted. (See table 2.6.3)

# 2.6.2 Selected Major Port Performance Indicators - By Port

| Item                                                           | Kandla | Mumbai | Morwa-<br>gao | New Man-<br>galore | Cochin | Tutli-<br>cochin | Chennai | Vishakh-<br>patnam | Paradip | Haldia | Cal-<br>cutta | J.L.<br>Nehru | All<br>Ports |
|----------------------------------------------------------------|--------|--------|---------------|--------------------|--------|------------------|---------|--------------------|---------|--------|---------------|---------------|--------------|
| (1)                                                            | (2)    | (3)    | (4)           | (5)                | (6)    | (7)              | (8)     | (9)                | (10)    | (11)   | (12)          | (13)          | (14)         |
| <b>1. No. of vessels sailed</b>                                |        |        |               |                    |        |                  |         |                    |         |        |               |               |              |
| 1996-97                                                        | 1527   | 2616   | 507           | 644                | 784    | 905              | 1681    | 1437               | 557     | 947    | 874           | 640           | 13119        |
| 1997-98                                                        | 1685   | 2385   | 561           | 729                | 872    | 984              | 1771    | 1529               | 643     | 1275   | 1009          | 634           | 14077        |
| <b>2. Av. pre-berthing<br/>waiting time(days)</b>              |        |        |               |                    |        |                  |         |                    |         |        |               |               |              |
| 1996-97                                                        | 6.8    | 4.6    | 2.2           | 1.5                | 1.1    | 1.6              | 4.1     | 1.6                | 1.6     | 2.2    | 1.0           | 2.1           | 3.1          |
| 1997-98                                                        | 5.2    | 3.0    | 1.9           | 1.1                | 1.1    | 1.7              | 2.9     | 2.0                | 1.7     | 2.0    | 1.1           | 1.7           | 2.3          |
| <b>3. Av. turn round<br/>time (days)</b>                       |        |        |               |                    |        |                  |         |                    |         |        |               |               |              |
| 1996-97                                                        | 10.6   | 10.7   | 6.3           | 4.4                | 3.9    | 5.1              | 7.8     | 5.6                | 4.9     | 6.0    | 7.7           | 6.3           | 7.5          |
| 1997-98                                                        | 8.4    | 8.5    | 5.6           | 4.1                | 3.9    | 5.2              | 6.5     | 6.0                | 5.1     | 5.3    | 7.4           | 5.6           | 6.3          |
| <b>4. % of Idle time at berth<br/>to time at working berth</b> |        |        |               |                    |        |                  |         |                    |         |        |               |               |              |
| 1996-97                                                        | 19     | 36     | 29            | 49                 | 37     | 40               | 37      | 22                 | 28      | 50     | 50            | 27            | 36           |
| 1997-98                                                        | 17     | 35     | 24            | 48                 | 42     | 40               | 37      | 24                 | 30      | 46     | 48            | 10            | 35           |
| <b>5. Output per ship<br/>berth day (tonnes)</b>               |        |        |               |                    |        |                  |         |                    |         |        |               |               |              |
| 1996-97                                                        | 7066   | 2605   | 8540          | 7172               | 5438   | 3026             | 5131    | 6696               | 6406    | 5855   | 1188          | 2987          | 4497         |
| 1997-98                                                        | 7346   | 2746   | 10446         | 7248               | 5253   | 2970             | 5694    | 6383               | 6252    | 5590   | 1325          | 3737          | 4912         |

2.6.3 Number of Vessels Sailed by Type and Major Port.

| Port          | Container |       | Break Bulk |       | Dry Bulk |       | (Mech. Operation) |       | (Conv. Operation) |       | Liquid Bulk |        | All Types |       |
|---------------|-----------|-------|------------|-------|----------|-------|-------------------|-------|-------------------|-------|-------------|--------|-----------|-------|
|               | 96-97     | 97-98 | 96-97      | 97-98 | 96-97    | 97-98 | 96-97             | 97-98 | 96-97             | 97-98 | 96-97       | 97-98  | 96-97     | 97-98 |
|               |           |       |            |       |          |       |                   |       |                   |       |             |        |           |       |
| Calcutta      | 288       | 336   | 239        | 268   | -        | -     | 14                | 13    | 336               | 393   | 874<a       | 1009<a |           |       |
| Haldia        | 98        | 234   | 45         | 74    | 205      | 233   | 166               | 166   | 467               | 597   | 947<g       | 1275<d |           |       |
| Paradip       | -         | -     | 11         | 2     | 76       | 97    | 283               | 319   | 187               | 225   | 557         | 643    |           |       |
| Visakhapatnam | 63        | 68    | 242        | 236   | 132      | 149   | 400               | 458   | 600               | 618   | 1437        | 1529   |           |       |
| Chennai       | 397       | 438   | 346**      | 324*  | 44       | 73    | 378               | 469   | 516               | 467   | 1681        | 1771   |           |       |
| Tuticorin     | 182       | 238   | 294        | 287   | 191      | 196   | 101               | 117   | 137               | 146   | 905         | 984    |           |       |
| Cochin        | 279       | 314   | 93         | 120   | 18       | 17    | 25                | 38    | 369               | 383   | 784         | 872    |           |       |
| New Mangalore | -         | -     | 145        | 157   | 163<c    | 145   | -                 | 39    | 336               | 388   | 644         | 729    |           |       |
| Mormugao      | 30        | 29    | 12         | 188   | 178+     | 2428  | 92+               | 888   | 197               | 195   | 507         | 561    |           |       |
| J.L.Nehru     | 408       | 422   | 80<b       | 69<b  | 88<fc    | 33    | -                 | 24<g  | 64                | 86    | 640         | 634    |           |       |
| Mumbai        | 863       | 779   | 702        | 717   | -        | -     | 112               | 112   | 939               | 777   | 2616        | 2385   |           |       |
| Kandla        | 130       | 133   | 305        | 330   | 9        | 12    | 215               | 209   | 868               | 1001  | 1527        | 1685   |           |       |
| All Ports     | 2738      | 2991  | 2514       | 2602  | 1104     | 1197  | 1786              | 2052  | 5016              | 5276  | 13119       | 14077  |           |       |

< a Vessels with dry bulk as import cargo and Break Bulk as export cargo have been counted once  
 <b68 Vehicles Carrier. <c Includes Conventional also.  
 <d 29 Dry bulk vessels worked both in Mechanical and Conventional methods.

<e 31 Dry bulk vessels worked both in Mechanical and Conventional method. Two vessels worked both as Break bulk and Container.  
 One vessel worked both as Dry bulk(conv.) and Break bulk.

<f Includes 39 other vessels <g Includes 4 other vessels  
 \*Includes 16 lash vessels also. + Two vessels are double counted.

\*\* Includes 15 lash vessels also.

@ 11 vessels are double counted i.e. 9 for Dry Bulk Conventional/Mechanical and 2 for Dry Bulk Conventional/Break Bulk.  
 Note: The figures here pertain to only Ships which left after Cargo operations.

# 2.6.4 Average Pre-berthing Detention By Type and Major Port.

| Port          | Container |       | Break Bulk |       | Dry Bulk (Mech.) |       | Dry Bulk (conv.) |       | Liquid Bulk |       | All Types |       |
|---------------|-----------|-------|------------|-------|------------------|-------|------------------|-------|-------------|-------|-----------|-------|
|               | 96-97     | 97-98 | 96-97      | 97-98 | 96-97            | 97-98 | 96-97            | 97-98 | 96-97       | 97-98 | 96-97     | 97-98 |
| Calcutta      | 0.5       | 0.6   | 0.8        | 1.2   | -                | -     | 1.0              | 1.6   | 1.6         | 1.5   | 1.0       | 1.1   |
| Haldia        | 0.2       | 0.1   | 2.0        | 3.1   | 0.8              | 1.1   | 1.9              | 3.1   | 3.3         | 2.4   | 2.2       | 2.0   |
| Paradip       | -         | -     | 1.7        | 0.1   | 1.2              | 1.3   | 0.9              | 1.0   | 2.9         | 2.8   | 1.6       | 1.7   |
| Visakhapatnam | 0.5       | 1.4   | 1.4        | 2.9   | 1.0              | 2.4   | 3.5              | 3.3   | 0.7         | 0.7   | 1.6       | 2.0   |
| Chennai       | 1.7       | 1.4   | 2.8        | 2.0   | 0.9              | 2.6   | 5.8              | 3.7   | 5.8         | 4.2   | 4.1       | 2.9   |
| Tuticorin     | 0.6       | 0.7   | 2.6        | 3.0   | 1.2              | 1.2   | 2.2              | 2.3   | 0.9         | 1.0   | 1.6       | 1.7   |
| Cochin        | 0.6       | 0.5   | 0.5        | 0.4   | 1.1              | 0.7   | 0.3              | 0.6   | 1.7         | 1.8   | 1.1       | 1.1   |
| New Mangalore | -         | -     | 0.3        | 0.6   | 3.4\$            | 1.4   | -                | 1.1   | 1.1         | 1.2   | 1.5       | 1.1   |
| Mormugao      | 0.1       | 0.1   | 3.9        | 1.7   | 3.3              | 3.4   | 1.2              | 0.7   | 1.8         | 0.7   | 2.2       | 1.9   |
| J.L.Nehru     | 1.5       | 1.0   | 1.0\$      | 0.6\$ | 5.1              | 6.3   | ..               | 0.8   | 2.6         | 0.6   | 2.1       | 1.7   |
| Mumbai *      | 2.8       | 1.9   | 6.5        | 3.8   | -                | -     | 8.8              | 8.0   | 4.4         | 2.7   | 4.6       | 3.0   |
| Kandla        | 2.6       | 2.5   | 9.8        | 10.0  | 2.2              | 2.0   | 10.5             | 6.5   | 5.5         | 3.2   | 6.8       | 5.2   |
| All Ports     | 1.6       | 1.2   | 4.0        | 3.4   | 2.0              | 2.0   | 4.3              | 3.3   | 3.3         | 2.2   | 3.1       | 2.3   |

\$ Vehicles Carrier.\* Excludes stream vessels.  
 \$ Includes Conventional also.



2.6.5 - Average Pre-berthing Delay - Reason-Wise - 1997-98 (Major Ports) (Contd.)

| Sl. No. | Category of Ships | No. of Ships | Non-avail. of Berth | Non-avail. of Tug/Craft | Reason-wise average pre-berthing delay (in days) |                  |                   |                         |        |               |   | Total |
|---------|-------------------|--------------|---------------------|-------------------------|--------------------------------------------------|------------------|-------------------|-------------------------|--------|---------------|---|-------|
|         |                   |              |                     |                         | Non-avail. of Pilot                              | Night Navigation | Draft Restriction | Shippers/ Agents option | Others | Lack of Cargo |   |       |
| Paradip |                   |              |                     |                         |                                                  |                  |                   |                         |        |               |   |       |
| 1.      | Container         | -            | -                   | -                       | -                                                | -                | -                 | -                       | -      | -             | - | -     |
| 2.      | Break Bulk        | 2            | -                   | -                       | -                                                | -                | -                 | -                       | -      | -             | - | -     |
| 3.      | Dry Bulk(M)       | 97           | 0.76                | -                       | -                                                | 0.10             | 0.05              | 0.07                    | 0.10   | -             | - | 0.10  |
|         | (C)               | 319          | 0.43                | -                       | -                                                | 0.10             | 0.02              | 0.20                    | 0.22   | -             | - | 1.33  |
| 4.      | Liquid Bulk       | 225          | 0.63                | -                       | -                                                | 0.05             | -                 | 2.07                    | 0.06   | -             | - | 0.97  |
|         |                   |              |                     |                         |                                                  |                  |                   |                         |        |               |   | 2.88  |
| Total   |                   | 643          | 0.55                | -                       | -                                                | 0.08             | 0.02              | 0.83                    | 0.19   | -             | - | 1.67  |
| Mumbai  |                   |              |                     |                         |                                                  |                  |                   |                         |        |               |   |       |
| 1.      | Container         | 779          | 0.78                | -                       | -                                                | -                | -                 | 0.01                    | 1.15   | -             | - | 1.94  |
| 2.      | Break Bulk        | 717          | 1.16                | -                       | -                                                | -                | -                 | 0.05                    | 2.64   | -             | - | 3.85  |
| 3.      | Dry Bulk          | 112          | 2.92                | -                       | -                                                | -                | -                 | -                       | 5.07   | -             | - | 7.99  |
| 4.      | Liquid Bulk       | 777          | 0.87                | -                       | -                                                | -                | -                 | 0.01                    | 1.82   | -             | - | 2.70  |
| Total   |                   | 2385         | 1.02                | -                       | -                                                | -                | -                 | 0.02                    | 1.99   | -             | - | 3.03  |
| Chennai |                   |              |                     |                         |                                                  |                  |                   |                         |        |               |   |       |
| 1.      | Container         | 438          | 0.80                | -                       | Neg.                                             | 0.03             | -                 | 0.51                    | 0.10   | -             | - | 1.44  |
| 2.      | Break Bulk        | 324          | 0.83                | -                       | Neg.                                             | 0.03             | -                 | 0.62                    | 0.56   | -             | - | 2.04  |
| 3.      | Dry Bulk(M)       | 73           | 2.06                | -                       | 0.03                                             | 0.05             | -                 | 0.12                    | 0.31   | -             | - | 2.57  |
|         | (C)               | 469          | 2.06                | -                       | -                                                | 0.06             | -                 | 1.20                    | 0.36   | -             | - | 3.68  |
| 4.      | Liquid Bulk       | 467          | 0.15                | -                       | Neg.                                             | 0.05             | -                 | 3.72                    | 0.32   | -             | - | 4.24  |
| Total   |                   | 1771         | 1.02                | -                       | Neg.                                             | 0.04             | -                 | 1.55                    | 0.32   | -             | - | 2.93  |

2.6.5 - Average Pre-berthing Delay - Reason-Wise - 1997-98 (Major Ports) (Contd.)

| Sl. No.   | Category Of Ships | No. Of Ships | Reason-wise average pre-berthing delay (in days) |                         |                     |                              |                     |                                       |       |      |
|-----------|-------------------|--------------|--------------------------------------------------|-------------------------|---------------------|------------------------------|---------------------|---------------------------------------|-------|------|
|           |                   |              | Non-avail. of Berth                              | Non-avail. Of Tug/Craft | Non-avail. Of Pilot | Night Navigation Restriction | Draft Agents option | Shippers/ Ships/ Others Lack Of Cargo | Total |      |
| Cochin    |                   |              |                                                  |                         |                     |                              |                     |                                       |       |      |
| 1.        | Container         | 314          | 0.18                                             | -                       | -                   | -                            | 0.20                | 0.15                                  | -     | 0.53 |
| 2.        | Break Bulk        | 120          | 0.04                                             | -                       | -                   | -                            | 0.12                | 0.21                                  | -     | 0.37 |
| 3         | Dry Bulk ( M)     | 17           | 0.38                                             | -                       | -                   | -                            | 0.20                | 0.11                                  | -     | 0.69 |
|           | (C)               | 38           | 0.01                                             | -                       | -                   | -                            | 0.02                | 0.61                                  | -     | 0.64 |
| 4         | Liquid Bulk       | 383          | 0.47                                             | -                       | -                   | -                            | 1.15                | 0.17                                  | -     | 1.79 |
|           | Total             | 872          | 0.28                                             | -                       | -                   | -                            | 0.60                | 0.19                                  | -     | 1.07 |
| Tuticorin |                   |              |                                                  |                         |                     |                              |                     |                                       |       |      |
| 1.        | Container         | 238          | 0.59                                             | -                       | -                   | Neg                          | 0.09                | 0.02                                  | -     | 0.70 |
| 2.        | Break Bulk        | 287          | 2.04                                             | -                       | -                   | Neg                          | 0.94                | 0.02                                  | -     | 3.00 |
| 3.        | Dry Bulk (M)      | 196          | 1.11                                             | -                       | -                   | -                            | 0.04                | 0.01                                  | -     | 1.16 |
|           | (C)               | 117          | 2.25                                             | -                       | -                   | Neg                          | 0.08                | 0.01                                  | -     | 2.34 |
| 4.        | Liquid Bulk       | 146          | 0.46                                             | -                       | -                   | 0.06                         | 0.46                | 0.02                                  | -     | 1.00 |
|           | Total             | 984          | 1.30                                             | -                       | -                   | 0.01                         | 0.38                | 0.01                                  | -     | 1.70 |
| Mormugao  |                   |              |                                                  |                         |                     |                              |                     |                                       |       |      |
| 1.        | Container         | 29           | 0.04                                             | -                       | -                   | 0.02                         | 0.01                | Neg-                                  | -     | 0.07 |
| 2.        | Break Bulk        | 188          | 0.52                                             | -                       | -                   | 0.04                         | 1.14                | 0.04                                  | -     | 1.74 |
| 3.        | Dry Bulk (M)      | 2428         | 0.59                                             | -                       | -                   | 0.02                         | 0.30                | -                                     | 2.46  | 3.37 |
|           | (C)               | 888          | 0.38                                             | -                       | -                   | 0.04                         | 0.24                | -                                     | -     | 0.66 |
| 4.        | Liquid Bulk       | 195          | 0.20                                             | -                       | -                   | 0.04                         | 0.37                | 0.12                                  | -     | 0.73 |
|           | Total             | 561          | 0.40                                             | -                       | -                   | 0.03                         | 0.33                | 0.05                                  | 1.06  | 1.87 |

# 11 vessels are double counted i.e. 9 for Dry Bulk Conventional/Dry Bulk Mech. & 2 for Dry Bulk conv. /break bulk.

2.6.5 - Average Pre-berthing Delay - Reason-Wise - 1997-98 (Major Ports) (Contd.)

| Sl. No.       | Category of Ships | No. Of | Reason-wise average pre-berthing delay (in days) |                         |                     |                  |                   |                                   |                      |       |
|---------------|-------------------|--------|--------------------------------------------------|-------------------------|---------------------|------------------|-------------------|-----------------------------------|----------------------|-------|
|               |                   |        | Ships<br>Non-avail. of Berth                     | Non-avail. of Tug/Craft | Non-avail. of Pilot | Night Navigation | Draft Restriction | Shippers/<br>Ships/ Agents option | Others Lack of Cargo | Total |
| Visakhapatnam |                   |        |                                                  |                         |                     |                  |                   |                                   |                      |       |
| 1.            | Container         | 68     | 0.51                                             | -                       | -                   | -                | -                 | 0.04                              | 0.80                 | 1.35  |
| 2.            | Break Bulk        | 236    | 2.10                                             | -                       | -                   | -                | -                 | 0.36                              | 0.44                 | 2.90  |
| 3.            | Dry Bulk(M)       | 149    | 1.46                                             | -                       | -                   | -                | 0.03              | 0.40                              | 0.52                 | 2.41  |
|               | (C)               | 458    | 2.05                                             | -                       | -                   | 0.02             | 0.01              | 0.74                              | 0.48                 | 3.30  |
| 4.            | Liquid Bulk       | 618    | 0.27                                             | -                       | -                   | 0.02             | Neg.              | 0.09                              | 0.28                 | 0.66  |
| Total         |                   | 1529   | 1.18                                             | -                       | -                   | 0.02             | 0.01              | 0.35                              | 0.41                 | 1.97  |
| Kandla        |                   |        |                                                  |                         |                     |                  |                   |                                   |                      |       |
| 1.            | Container         | 133    | 0.80                                             | -                       | 0.01                | 0.53             | 0.48              | 0.36                              | 0.32                 | 2.50  |
| 2.            | Break Bulk        | 330    | 5.16                                             | -                       | 0.01                | 0.96             | 0.12              | 2.55                              | 1.16                 | 9.96  |
| 3.            | Dry Bulk(M)       | 12     | 0.98                                             | -                       | -                   | 0.64             | 0.37              | 0.01                              | -                    | 2.00  |
|               | (C)               | 209    | 2.79                                             | -                       | 0.02                | 0.69             | 1.01              | 1.80                              | 0.23                 | 6.54  |
| 4.            | Liquid Bulk       | 1001   | 0.68                                             | -                       | 0.06                | 0.34             | 0.73              | 1.09                              | 0.25                 | 3.15  |
| Total         |                   | 1685   | 1.83                                             | -                       | 0.04                | 0.52             | 0.63              | 1.87                              | 0.31                 | 5.20  |
| J.L.Nehru     |                   |        |                                                  |                         |                     |                  |                   |                                   |                      |       |
| 1.            | Container         | 422    | 0.85                                             | -                       | -                   | -                | 0.01              | 0.09                              | 0.03                 | 0.98  |
| 2.            | Break Bulk        | 69+    | 0.56                                             | -                       | -                   | -                | Neg.              | 0.02                              | 0.02                 | 0.60  |
| 3.            | Dry Bulk          | 578    | 3.22                                             | -                       | -                   | -                | Neg.              | 0.83                              | 0.15                 | 4.20  |
| 4.            | Liquid Bulk       | 86     | 0.45                                             | -                       | -                   | -                | Neg.              | 0.08                              | 0.02                 | 0.55  |
| Total         |                   | 634    | 1.22                                             | -                       | -                   | -                | 0.01              | 0.30                              | 0.21                 | 1.74  |

\* 68 Vehicle Carrier  
 @ Includes 4 other vessels

2.6.6 Average Turn Round Time - By Type And Major Port.

(In Days)

| Port          | Container |       | Break Bulk |       | Dry Bulk (Mech.) |       | Dry Bulk (conv.) |       | Liquid Bulk |       | All Types |       |
|---------------|-----------|-------|------------|-------|------------------|-------|------------------|-------|-------------|-------|-----------|-------|
|               | 96-97     | 97-98 | 96-97      | 97-98 | 96-97            | 97-98 | 96-97            | 97-98 | 96-97       | 97-98 | 96-97     | 97-98 |
| Calcutta      | 5.7       | 4.5   | 12.6       | 14.4  | -                | -     | 18.8             | 17.2  | 5.4         | 4.7   | 7.7       | 7.4   |
| Haldia        | 1.5       | 1.8   | 11.6       | 13.1  | 4.5              | 4.7   | 10.0             | 11.3  | 5.2         | 4.0   | 6.0       | 5.3   |
| Paradip       | -         | -     | 8.6        | 1.4   | 4.1              | 5.6   | 5.4              | 5.6   | 4.4         | 4.3   | 4.9       | 5.1   |
| Visakhapatnam | 2.4       | 2.3   | 6.2        | 8.3   | 5.4              | 7.6   | 9.9              | 9.8   | 2.8         | 2.3   | 5.6       | 6.0   |
| Chennai       | 4.2       | 3.8   | 8.6        | 6.8   | 3.6              | 5.2   | 12.0             | 9.7   | 7.6         | 5.9   | 7.8       | 6.5   |
| Tuticorin     | 3.1       | 3.1   | 6.8        | 7.2   | 4.0              | 4.2   | 9.0              | 9.2   | 2.6         | 2.6   | 5.1       | 5.2   |
| Cochin        | 2.7       | 2.3   | 5.2        | 4.1   | 11.1             | 13.2  | 15.5             | 14.2  | 3.8         | 3.8   | 3.9       | 3.9   |
| New Mangalore | -         | -     | 5.1        | 5.8   | 7.5\$            | 3.0   | -                | 17.2  | 2.5         | 2.5   | 4.4       | 4.1   |
| Mormugao      | 1.0       | 0.8   | 11.3       | 7.2   | 8.8              | 7.6   | 7.8              | 8.6   | 3.7         | 2.0   | 6.3       | 5.6   |
| J.L.Nehru     | 3.4       | 2.6   | 2.9 0      | 1.10  | 11.4             | 18.5  | ...              | 6.9   | 5.1         | 2.3   | 6.3       | 5.6   |
| Mumbai        | 6.8       | 5.9   | 17.2       | 12.4  | -                | -     | 27.4             | 24.2  | 8.0         | 5.3   | 10.7      | 8.5   |
| Kandla        | 5.5       | 5.3   | 16.7       | 17.5  | 13.4             | 14.9  | 18.4             | 13.2  | 7.3         | 4.5   | 10.6      | 8.4   |
| All Ports     | 4.7       | 3.9   | 11.5       | 10.5  | 6.3              | 6.1   | 11.7             | 10.5  | 5.6         | 4.1   | 7.5       | 6.3   |

\$ Includes - Conventional also.

@ Vehicles Carrier.

2.6.7 Percentage Of Idle Time At Berth To Time At Working Berth - By Type And Major Port.

| Port          | Container<br>96-97 | 97-98 | Break<br>96-97 | Bulk<br>97-98 | Dry Bulk (Mech.)<br>96-97 | 97-98 | Dry Bulk (conv.)<br>96-97 | 97-98 | Liquid<br>96-97 | Bulk<br>97-98 | All<br>96-97 | Types<br>97-98 |
|---------------|--------------------|-------|----------------|---------------|---------------------------|-------|---------------------------|-------|-----------------|---------------|--------------|----------------|
| Calcutta      | 31                 | 29    | 58             | 53            | -                         | -     | 40                        | 40    | 52              | 51            | 50           | 48             |
| Haldia        | 66                 | 48    | 56             | 48            | 60                        | 60    | 45                        | 39    | 46              | 42            | 50           | 46             |
| Paradip       | -                  | -     | 24             | 18            | 26                        | 33    | 29                        | 29    | ...             | ...           | 28           | 30             |
| Visakhapatnam | 18                 | 20    | 18             | 20            | 27                        | 33    | 18                        | 21    | 31              | 29            | 22           | 24             |
| Chennai       | 45                 | 45    | 46             | 48            | 40                        | 36    | 30                        | 31    | 32              | 28            | 37           | 37             |
| Tuticorin     | 41                 | 41    | 49             | 48            | 19                        | 19    | 43                        | 45    | 33              | 32            | 40           | 40             |
| Cochin        | 31                 | 52    | 49             | 55            | 49                        | 51    | 35                        | 32    | 28              | 30            | 37           | 42             |
| New Mangalore | -                  | -     | 58             | 57            | 47\$                      | 36    | -                         | 52    | 32              | 31            | 49           | 48             |
| Mormugao      | 30                 | 26    | 18             | 12            | 31                        | 24    | 26                        | 19    | 30              | 40            | 29           | 24             |
| J.L.Nehru     | 35                 | 9     | 100            | 170           | 40                        | 5     | ...                       | 8     | 10              | ...           | 27           | 10             |
| Mumbai+       | 26                 | 28    | 42             | 39            | -                         | -     | 34                        | 31    | 34              | 35            | 36           | 35             |
| Kandla        | 15                 | 18    | 15             | 16            | 10                        | 10    | 12                        | 11    | 32              | 31            | 19           | 17             |
| All Ports     | 32                 | 32    | 43             | 43            | 38                        | 31    | 29                        | 29    | 34              | 34            | 36           | 35             |

\$ Includes Conventional also.

@ Vehicles Carrier.

+ Excludes stream vessels.

2.6.8 Output Per Ship Berthday - By Type And Major Port.

| Port          | Container |       | Break Bulk |       | Dry Bulk (Mech.) |       | Dry Bulk (conv.) |       | Liquid Bulk |       | All Types |       |
|---------------|-----------|-------|------------|-------|------------------|-------|------------------|-------|-------------|-------|-----------|-------|
|               | 96-97     | 97-98 | 96-97      | 97-98 | 96-97            | 97-98 | 96-97            | 97-98 | 96-97       | 97-98 | 96-97     | 97-98 |
| Calcutta      | 2082      | 2316  | 390        | 385   | -                | -     | 495              | 555   | 2785        | 3992  | 1188      | 1325  |
| Haldia        | 1415      | 1499  | 699        | 659   | 8136             | 8579  | 2534             | 2496  | 15146       | 15451 | 5855      | 5590  |
| Paradip       | -         | -     | 480        | 239   | 13178            | 9578  | 5263             | 5143  | 7944        | 7512  | 6406      | 6252  |
| Visakhapatnam | 1545      | 1464  | 1667       | 1697  | 13445            | 12035 | 4717             | 4741  | 13559       | 13419 | 5696      | 6383  |
| Chennai       | 2591      | 2899  | 773        | 911   | 39314            | 32634 | 4474             | 4541  | 14244       | 15632 | 5131      | 5694  |
| Tuticorin     | 2065      | 2045  | 851        | 897   | 9083             | 8374  | 2122             | 2053  | 4251        | 4732  | 3026      | 2970  |
| Cochin        | 1734      | 2026  | 663        | 564   | 1900             | 1347  | 1149             | 1017  | 13103       | 14831 | 5438      | 5253  |
| New Mangalore | -         | -     | 868        | 816   | 9795\$           | 29400 | -                | 1311  | 12160       | 15432 | 7172      | 7248  |
| Mormugao      | 1313      | 1517  | 1016       | 1292  | 14872            | 18295 | 1925             | 2174  | 5154        | 5806  | 8540      | 10446 |
| J.L.Nehru     | 5874      | 8587  | 14140      | 13840 | 3085             | 3068  | ...              | 5415  | 3513        | 5840  | 2987      | 3737  |
| Mumbai*       | 2303      | 2731  | 662        | 864   | -                | -     | 685              | 759   | 10476       | 10557 | 2605      | 2746  |
| Kandla        | 3427      | 3714  | 1490       | 1616  | 2238             | 3068  | 2319             | 1954  | 18978       | 17642 | 7066      | 7346  |
| All Ports     | 2719      | 3156  | 779        | 919   | 10866            | 12275 | 3190             | 3245  | 11222       | 12772 | 4497      | 4912  |

\$ Includes Conventional also.

@ Vehicles Carrier.

\* Excludes stream vessels.

## 2.6.9 Average Berth Occupancy At Major Ports

| (Percentage)  |         |         |         |         |         |         |         |         |         |  |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Port          | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |
| 1             | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |  |
| KANDLA        | 86.0    | 88.5    | 89.8    | 89.1    | 90.5    | 93.8    | 92.8    | 93.6    | 97.7    |  |
| MUMBAI        | 81.6    | 77.0    | 62.6    | 71.2    | 72.4    | 78.4    | 81.6    | 77.7    | 78.7    |  |
| J.L. NEHRU    | ...     | ...     | ...     | 65.8    | 71.7    | 80.5    | 78.8    | 70.0    | 53.6    |  |
| MORMUGAO      | 69.0    | 66.0    | 67.0    | 83.8    | 80.7    | 70.6    | 55.7    | 59.6    | 74.3    |  |
| NEW MANGALORE | 69.0    | 55.9    | 57.3    | 64.9    | 49.6    | 52.9    | 49.3    | 45.5    | 59.4    |  |
| COCHIN        | 52.3    | 49.7    | 45.3    | 53.2    | 49.7    | 50.8    | 51.7    | 48.0    | 55.5    |  |
| TUTICORIN     | 73.3    | 72.6    | 76.1    | 84.5    | 85.1    | 84.9    | 86.2    | 83.0    | 85.5    |  |
| CHENNAI       | 86.2    | 86.6    | 79.0    | 78.8    | 80.4    | 81.0    | 84.2    | 83.3    | 83.8    |  |
| VISAKHAPATNAM | 63.3    | 77.9    | 81.9    | 91.0    | 87.5    | 92.7    | 81.3    | 77.5    | 85.1    |  |
| PARADIP       | 70.2    | 68.5    | 60.6    | 68.6    | 69.9    | 78.6    | 85.0    | 65.0    | 65.5    |  |
| HALDIA        | 67.4    | 69.1    | 63.2    | 73.5    | 63.7    | 77.1    | 77.0    | 75.8    | 82.6    |  |
| CALCUTTA      | 59.9    | 56.9    | 53.8    | 52.3    | 48.5    | 53.9    | 52.5    | 53.8    | 57.8    |  |

# 2.6.10 Utilisation Of Cargo Handling Equipment

| Port/Year     | :Mechanised     |        | :Utilisation of General Cargo handling |        | : Fork   |     |
|---------------|-----------------|--------|----------------------------------------|--------|----------|-----|
|               | : System        |        | :Equipment (Average no. of hours       |        | : Mobile |     |
|               | :               |        | :worked per month per equipment.)      |        | : Cranes |     |
|               |                 |        |                                        |        |          |     |
|               | Tonnes          | Commo- | Elect. Wharf Cranes                    | Mobile | Fork     |     |
|               | per             | dity   |                                        | Cranes | Lifts    |     |
|               | worked          | :      | : 3-10 :Above 10                       | :      | :        |     |
|               | day             | :      | : Tonnes : Tonnes                      | :      | :        |     |
| (1)           | (2)             | (3)    | (4)                                    | (5)    | (6)      | (7) |
| <b>KANDLA</b> |                 |        |                                        |        |          |     |
| Norms (1983)  | 2300 Fertiliser |        | 300                                    | 300    | 250      | 300 |
| Performance   |                 |        |                                        |        |          |     |
| 1989-90       | 1676            | "      | 240                                    | -      | 20       | 242 |
| 1990-91       | 1538            | "      | 226                                    | -      | 8        | 220 |
| 1991-92       | 1415            | "      | 217                                    | -      | 21       | 196 |
| 1992-93       | 1785            | "      | 159                                    | -      | 5        | 156 |
| 1993-94       | 1937            | "      | 256                                    | -      | 5        | 253 |
| 1994-95       | 2021            | "      | 273                                    | -      | 3        | 176 |
| 1995-96       | 1916            | "      | 294                                    | -      | 4        | 219 |
| 1996-97       | 2408            | "      | 296                                    | -      | 2        | 196 |
| 1997-98       | 2063            | "      | 305                                    | -      | -        | 232 |
| 1998-99       | 3057            | "      | 294                                    | -      | -        | 211 |
| <b>MUMBAI</b> |                 |        |                                        |        |          |     |
| Norms (1983)  | -               | -      | 300                                    | 300    | 250      | 300 |
| Performance   |                 |        |                                        |        |          |     |
| 1989-90       | -               | -      | 182                                    | 102    | 155      | 192 |
| 1990-91       | -               | -      | 164                                    | 68     | 153      | 191 |
| 1991-92       | -               | -      | 126                                    | 79     | 124      | 178 |
| 1992-93       | -               | -      | 156                                    | 110    | 163      | 220 |
| 1993-94       | -               | -      | 177                                    | 124    | 164      | 213 |
| 1994-95       | -               | -      | 194                                    | 114    | 169      | 159 |
| 1995-96       | -               | -      | 221                                    | 117    | 140      | 145 |
| 1996-97       | -               | -      | 205                                    | 124    | 137      | 147 |
| 1997-98       | -               | -      | 211                                    | 118    | 142      | 158 |
| 1998-99       | -               | -      | 249                                    | 131    | 136      | 156 |

## 2.6.10 Utilisation of Cargo Handling Equipment (Contd..)

| Port/Year            | Mechanised System     |            | Utilisation of General Cargo handling Equipment (Average no. of hours worked per month per equipment.) |                                 |            |     |
|----------------------|-----------------------|------------|--------------------------------------------------------------------------------------------------------|---------------------------------|------------|-----|
|                      | Tonnes per worked day | Commo-dity | Elect. Wharf Cranes : 3-10 Tonnes                                                                      | Mobile Cranes : Above 10 Tonnes | Fork Lifts |     |
| (1)                  | (2)                   | (3)        | (4)                                                                                                    | (5)                             | (6)        | (7) |
| <b>MORMUGAO</b>      |                       |            |                                                                                                        |                                 |            |     |
| Norms (1983)         | 32500                 | Iron Ore   | 300                                                                                                    | 300                             | 250        | 300 |
| Performance          |                       |            |                                                                                                        |                                 |            |     |
| 1989-90              | 38964                 | "          | 162                                                                                                    | -                               | 126        | 132 |
| 1990-91              | 43544                 | "          | 93                                                                                                     | -                               | 51         | 50  |
| 1991-92              | 53133                 | "          | 174                                                                                                    | -                               | 69         | 33  |
| 1992-93              | 47647                 | "          | 280                                                                                                    | -                               | 86         | 82  |
| 1993-94              | 47939                 | "          | 246                                                                                                    | -                               | 108        | 114 |
| 1994-95              | 37992                 | "          | 140                                                                                                    | -                               | 128        | 111 |
| 1995-96              | 45759                 | "          | 108                                                                                                    | -                               | 44         | 182 |
| 1996-97              | 39401                 | "          | 64                                                                                                     | -                               | 35         | 202 |
| 1997-98              | 43356                 | "          | 88                                                                                                     | -                               | 32         | 244 |
| 1998-99              | 40525                 | "          | 50                                                                                                     | -                               | 29         | 163 |
| <b>NEW MANGALORE</b> |                       |            |                                                                                                        |                                 |            |     |
| Norms (1983)         | 29700                 | "          | 300                                                                                                    | 300                             | 250        | 300 |
| Performance          |                       |            |                                                                                                        |                                 |            |     |
| 1989-90              | 19476                 | "          | 25                                                                                                     | -                               | 18         | 27  |
| 1990-91              | 24774                 | "          | 18                                                                                                     | -                               | 22         | 28  |
| 1991-92              | 24909                 | "          | 31                                                                                                     | -                               | 20         | 23  |
| 1992-93              | 26035                 | "          | 23                                                                                                     | -                               | 24         | 22  |
| 1993-94              | 27195                 | "          | 19                                                                                                     | -                               | 21         | 30  |
| 1994-95              | 21479                 | "          | 48                                                                                                     | -                               | 14         | 48  |
| 1995-96              | 25371                 | "          | 13                                                                                                     | -                               | 14         | 36  |
| 1996-97              | 26378                 | "          | 7                                                                                                      | -                               | 7          | 32  |
| 1997-98              | 32360                 | "          | 10                                                                                                     | -                               | 9          | 42  |
| 1998-99              | 32875                 | "          | 8                                                                                                      | -                               | 10         | 31  |

# 2.6.10 Utilisation of Cargo Handling Equipment (Contd..)

| Port/Year        | Mechanised System |     | Utilisation of General Cargo handling Equipment (Average no. of hours worked per month per equipment.) |     | Elect. Wharf Cranes |     | Mobile Cranes |     | Fork Lifts |      |
|------------------|-------------------|-----|--------------------------------------------------------------------------------------------------------|-----|---------------------|-----|---------------|-----|------------|------|
|                  | (1)               | (2) | (3)                                                                                                    | (4) | (5)                 | (6) | (7)           | (8) | (9)        | (10) |
| <b>COCHIN</b>    |                   |     |                                                                                                        |     |                     |     |               |     |            |      |
| Norms (1983)     | -                 | -   | -                                                                                                      | 200 | 200                 | 167 | 200           | 167 | 200        | 200  |
| Performance      | -                 | -   | -                                                                                                      | 99  | -                   | 158 | 123           | 158 | 123        | 123  |
| 1989-90          | -                 | -   | -                                                                                                      | 71  | -                   | 159 | 121           | 159 | 121        | 121  |
| 1990-91          | -                 | -   | -                                                                                                      | 50  | -                   | 115 | 134           | 115 | 134        | 134  |
| 1991-92          | -                 | -   | -                                                                                                      | 53  | -                   | 123 | 132           | 123 | 132        | 132  |
| 1992-93          | -                 | -   | -                                                                                                      | 40  | -                   | 135 | 134           | 135 | 134        | 134  |
| 1993-94          | -                 | -   | -                                                                                                      | 59  | -                   | 83  | 127           | 83  | 127        | 127  |
| 1994-95          | -                 | -   | -                                                                                                      | 93  | -                   | 65  | 106           | 65  | 106        | 106  |
| 1995-96          | -                 | -   | -                                                                                                      | 82  | -                   | 63  | 139           | 63  | 139        | 139  |
| 1996-97          | -                 | -   | -                                                                                                      | 75  | -                   | 35  | 124           | 35  | 124        | 124  |
| 1997-98          | -                 | -   | -                                                                                                      | 79  | -                   | 26  | 77            | 26  | 77         | 77   |
| 1998-99          | -                 | -   | -                                                                                                      | -   | -                   | -   | -             | -   | -          | -    |
| <b>TUTICORIN</b> |                   |     |                                                                                                        |     |                     |     |               |     |            |      |
| Norms (1983)     | -                 | -   | -                                                                                                      | 300 | 300                 | 250 | 300           | 250 | 300        | 300  |
| Performance      | -                 | -   | -                                                                                                      | 164 | -                   | 70  | 115           | 70  | 115        | 115  |
| 1989-90          | -                 | -   | -                                                                                                      | 148 | -                   | 113 | 100           | 113 | 100        | 100  |
| 1990-91          | -                 | -   | -                                                                                                      | 159 | -                   | 105 | 79            | 105 | 79         | 79   |
| 1991-92          | -                 | -   | -                                                                                                      | 180 | -                   | 77  | 84            | 77  | 84         | 84   |
| 1992-93          | -                 | -   | -                                                                                                      | 176 | -                   | 86  | 84            | 86  | 84         | 84   |
| 1993-94          | -                 | -   | -                                                                                                      | 156 | -                   | 65  | 81            | 65  | 81         | 81   |
| 1994-95          | -                 | -   | -                                                                                                      | 133 | -                   | 25  | 80            | 25  | 80         | 80   |
| 1995-96          | -                 | -   | -                                                                                                      | 128 | -                   | 24  | 77            | 24  | 77         | 77   |
| 1996-97          | -                 | -   | -                                                                                                      | 114 | -                   | 33  | 57            | 33  | 57         | 57   |
| 1997-98          | -                 | -   | -                                                                                                      | 115 | -                   | 39  | 43            | 39  | 43         | 43   |
| 1998-99          | -                 | -   | -                                                                                                      | -   | -                   | -   | -             | -   | -          | -    |

# 2.6.10 Utilisation of Cargo Handling Equipment (Contd..)

| Port/Year            | Mechanised System     |            | Utilisation of General Cargo handling Equipment (Average no. of hours worked per month per equipment.) |                 |               |     | Fork Lifts |
|----------------------|-----------------------|------------|--------------------------------------------------------------------------------------------------------|-----------------|---------------|-----|------------|
|                      | Tonnes per worked day | Commo-dity | Elect. Wharf Cranes 3-10 Tonnes                                                                        | Above 10 Tonnes | Mobile Cranes |     |            |
| (1)                  | (2)                   | (3)        | (4)                                                                                                    | (5)             | (6)           | (7) |            |
| <b>CHENNAI</b>       |                       |            |                                                                                                        |                 |               |     |            |
| Norms (1983)         | \$ 37000              | Iron Ore   | 300                                                                                                    | 300             | 250           | 300 |            |
| Performance          |                       |            |                                                                                                        |                 |               |     |            |
| 1989-90              | 56572                 | "          | 434                                                                                                    | 400             | 336           | 307 |            |
| 1990-91              | 46299                 | "          | 404                                                                                                    | 358             | 350           | 309 |            |
| 1991-92              | 44115                 | "          | 277                                                                                                    | 269             | 254           | 270 |            |
| 1992-93              | 40942                 | "          | 250                                                                                                    | 243             | 241           | 238 |            |
| 1993-94              | 25530                 | "          | 246                                                                                                    | 214             | 223           | 224 |            |
| 1994-95              | 45605                 | "          | 222                                                                                                    | 231             | 206           | 214 |            |
| 1995-96              | 44511                 | "          | 205                                                                                                    | 191             | 248           | 221 |            |
| 1996-97              | 43212                 | "          | 173                                                                                                    | 133             | 275           | 221 |            |
| 1997-98              | 42183                 | "          | 133                                                                                                    | 202             | 173           | 211 |            |
| 1998-99              | 39368                 | "          | 206                                                                                                    | 195             | 319           | 195 |            |
| <b>VISAKHAPATNAM</b> |                       |            |                                                                                                        |                 |               |     |            |
| Norms (1983)         | 50000                 | Iron Ore   | 300                                                                                                    | 300             | 250           | 300 |            |
| Performance          |                       |            |                                                                                                        |                 |               |     |            |
| 1989-90              | 42393                 | "          | 188                                                                                                    | -               | 174           | 134 |            |
| 1990-91              | 33515                 | "          | 168                                                                                                    | -               | 146           | 130 |            |
| 1991-92              | 28964                 | "          | 187                                                                                                    | -               | 85            | 134 |            |
| 1992-93              | 26790                 | "          | 313                                                                                                    | -               | 107           | 233 |            |
| 1993-94              | 39798                 | "          | 291                                                                                                    | 50              | 101           | 158 |            |
| 1994-95              | 40765                 | "          | 268                                                                                                    | 87              | 141           | 201 |            |
| 1995-96              | 31362                 | "          | 332                                                                                                    | 73              | 156           | 177 |            |
| 1996-97              | 33328                 | "          | 224                                                                                                    | 66              | 142           | 147 |            |
| 1997-98              | 25551                 | "          | 310                                                                                                    | 77              | 123           | 175 |            |
| 1998-99              | 30344                 | "          | 283                                                                                                    | 67              | 98            | 158 |            |

\$ Relates to vessels of capacity more than 35000 DWT.

# 2.6.10 Utilisation of Cargo Handling Equipment (Contd..)

| Port/Year       | :Mechanised             |                                                                     | :Utilisation of General Cargo handling |          | : Fork   |         |
|-----------------|-------------------------|---------------------------------------------------------------------|----------------------------------------|----------|----------|---------|
|                 | : System                | : Equipment (Average no. of hours worked per month per equipment..) | : Elect. Wharf Cranes                  | : Mobile | : Cranes | : Lifts |
|                 | : Tonnes per worked day | : Commo-dity                                                        | : 3-10 : Above 10 : Tonnes : Tonnes    |          |          |         |
| (1)             | (2)                     | (3)                                                                 | (4)                                    | (5)      | (6)      | (7)     |
| <b>PARADIP</b>  |                         |                                                                     |                                        |          |          |         |
| Norms (1983)    | 18700                   | Iron Ore                                                            | 300                                    | 300      | 250      | 300     |
| Performance     |                         |                                                                     |                                        |          |          |         |
| 1989-90         | 14600                   | "                                                                   | +                                      | 193      | 91       | 47      |
| 1990-91         | 20129                   | "                                                                   | +                                      | 221      | 80       | 71      |
| 1992-92         | 16728                   | "                                                                   | +                                      | 276      | 127      | 137     |
| 1992-93         | 21308                   | "                                                                   | +                                      | 152      | 76       | 66      |
| 1993-94         | 21029                   | "                                                                   | +                                      | 154      | 44       | 76      |
| 1994-95         | 23303                   | "                                                                   | +                                      | 162      | 40       | 50      |
| 1995-96         | 20331                   | "                                                                   | +                                      | 165      | 59       | 46      |
| 1996-97         | 20743                   | "                                                                   | +                                      | 145      | 58       | 70      |
| 1997-98         | 17968                   | "                                                                   | +                                      | 170      | 41       | 29      |
| 1998-99         | 20369                   | "                                                                   | +                                      | 93       | 28       | 37      |
| <b>CALCUTTA</b> |                         |                                                                     |                                        |          |          |         |
| Norms (1983)    | 2000                    | Coal                                                                | 300                                    | 300      | 250      | 300     |
| Performance     |                         |                                                                     |                                        |          |          |         |
| 1989-90         | -                       | "                                                                   | 2210                                   | 258      | 207      | 245     |
| 1990-91         | -                       | "                                                                   | 1700                                   | 260      | 234      | 307     |
| 1991-92         | -                       | "                                                                   | 1610                                   | 245      | 219      | 259     |
| 1992-93         | -                       | "                                                                   | 1680                                   | 259      | 194      | 257     |
| 1993-94         | -                       | "                                                                   | 1250                                   | 255      | 174      | 197     |
| 1994-95         | -                       | "                                                                   | 1230                                   | 266      | 167      | 218     |
| 1995-96         | -                       | "                                                                   | 1040                                   | 267      | 132      | 175     |
| 1996-97         | -                       | "                                                                   | 830                                    | 293      | 123      | 158     |
| 1997-98         | -                       | "                                                                   | 800                                    | 195      | 136      | 141     |
| 1998-99         | -                       | "                                                                   | 990                                    | 247      | 153      | 168     |

\* There are no 3-10 tonnes crane @ 2-10 Tonnes  
Source : Major Ports

2.7.1 Employment At Ports - Portwise As On 31st December

| PORT                | (In Numbers) |        |        |       |       |       |       |       |       |       |       |       |  |
|---------------------|--------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                     | 1987         | 1988   | 1989   | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  |  |
| 1                   | 2            | 3      | 4      | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    |  |
| Kandla              | 4503         | 4537   | 4633   | 4603  | 4976  | 4927  | 4677  | 4740  | 4451  | 4107  | 4486  | 3860  |  |
| Mumbai              | 30939        | 30987  | 30319  | 29349 | 28199 | 27327 | 25063 | 34696 | 32893 | 32789 | 32127 | 31416 |  |
| J.L.Nehrū           | -            | -      | -      | 1137  | 1187  | 1386  | 1507  | 1513  | 1549  | 1539  | 1550  | 1540  |  |
| Mormugao            | 3681         | 3683   | 3646   | 3614  | 3582  | 3668  | 3257  | 3612  | 3607  | 3588  | 3535  | 42908 |  |
| New Mangalore       | 1304         | 1314   | 1312   | 1328  | 1330  | 1337  | 2401  | 2311  | 2303  | 2275  | 2258  | 2293  |  |
| Cochin              | 5950         | 5967   | 5868   | 5781  | 5533  | 5546  | 5546  | 5502  | 4872  | 4985  | 5021  | 53328 |  |
| Tuticorin           | 2298         | 2286   | 2284   | 2270  | 2268  | 2250  | 2054  | 1998  | 2152  | 1941  | 1895  | 1875  |  |
| Chennai             | 11492        | 11469  | 11489  | 11346 | 11361 | 10318 | 10271 | 10357 | 10399 | 10314 | 10314 | 10207 |  |
| Visakhapatnam       | 11068        | 11013  | 10986  | 10848 | 11314 | 10227 | 10082 | 9772  | 9626  | 9450  | 9307  | 9198  |  |
| Paradip             | 5390         | 5590   | 5388   | 4841  | 4811  | 4834  | 4996  | 5241  | 4113  | 4229  | 4106  | 3892  |  |
| Calcutta/<br>Haldia | 25619        | 24873  | 24658  | 23643 | 23394 | 21292 | 19808 | 19296 | 18051 | 17357 | 16548 | 16265 |  |
| ALL MAJOR PORTS     | 102244       | 101719 | 100583 | 98760 | 97955 | 93112 | 89662 | 99038 | 94016 | 92574 | 91147 | 90168 |  |

Note : Number of officers in the class I & II Posts have not been included  
 @ Includes DIB employment also.

2.7.2 Number of Dock workers Registered with DLB's of Major Ports As On 31st December

| PORT     | (In Numbers) |       |       |       |       |       |       |       |      |      |      |      |      |  |
|----------|--------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|--|
|          | 1986         | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994 | 1995 | 1996 | 1997 | 1998 |  |
| 1        | 2            | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10   | 11   | 12   | 13   | 14   |  |
| KANDLA   | 833          | 863   | 871   | 869   | 875   | 913   | 897   | 984   | 953  | 960  | 943  | 891  | 932  |  |
| MUMBAI   | 10525        | 10354 | 10121 | 9903  | 7848  | 8137  | 6849  | 7051  | *    | *    | *    | *    | *    |  |
| MORMUGAO | 1109         | 1101  | 968   | 961   | 955   | 935   | 902   | 821   | 807  | 745  | 691  | 598  | 8    |  |
| COCHIN   | 995          | 919   | 823   | 757   | 665   | 581   | 683   | 584   | 548  | 529  | 461  | 424  | 8    |  |
| CHENNAI  | 1689         | 1558  | 1483  | 1394  | 1341  | 1306  | 1108  | 1890  | 1143 | 1092 | 1186 | 976  | 917  |  |
| VIZAG    | 841          | 816   | 685   | 665   | 641   | 611   | 706   | 739   | 732  | 610  | 563  | 717  | 909  |  |
| CALCUTTA | 7229         | 6885  | 6249  | 5941  | 5689  | 5272  | 4169  | 3907  | 3019 | 3304 | 2677 | 2408 | 2197 |  |
| TOTAL    | 23221        | 22496 | 21200 | 20490 | 18014 | 17755 | 15314 | 15976 | 7202 | 7240 | 6521 | 6014 | 4955 |  |

\* Mumbai Dock Labour Board merged with Mumbai Port  
 @ Dock Labour Board merged with Port Trust.

### 2.7.3 Number of Dock Workers Listed with Major Ports As On 31st December

(In Numbers)

| PORT          | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995  | 1996  | 1997  | 1998 |
|---------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|
| 1             | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11    | 12    | 13    | 14   |
| KANDLA        | 54   | -    | -    | -    | -    | -    | -    | -    | -    | -     | -     | -     | -    |
| MUMBAI        | -    | -    | -    | -    | -    | -    | -    | -    | +    | +     | +     | +     | +    |
| CHENNAI       | 479  | 521  | 1497 | 1479 | 1445 | 1376 | 269  | 275  | 260  | 237   | 210   | 182   | 154  |
| VISAKHAPATNAM | 1558 | 1539 | 1538 | 1516 | 1502 | 1487 | 1483 | 1006 | 1319 | 11748 | 15548 | 13128 | 903  |
| TOTAL         | 2091 | 2060 | 3035 | 2995 | 2947 | 2863 | 1772 | 1281 | 1579 | 1411  | 1764  | 1494  | 1057 |

\* Mumbai Dock Labour Board merged with Mumbai Port  
 † Includes Casual Workers.

2.7.4 Employment At Ports - By Port & Classes As On 31st December, 1998

| Port            | Number of Officers   |      | Number of non-cargo handling workers |       | Number of cargo handling workers : other than Shore workers |      | Number of cargo handling workers : shore workers |      | Number of casual workers |       | Total |
|-----------------|----------------------|------|--------------------------------------|-------|-------------------------------------------------------------|------|--------------------------------------------------|------|--------------------------|-------|-------|
|                 | Class : Class I : II |      | Class : Class III : IV               |       | Class : Class III : IV                                      |      | Class : Class III : IV                           |      |                          |       |       |
|                 | (1)                  | (2)  | (3)                                  | (4)   | (5)                                                         | (6)  | (7)                                              | (8)  | (9)                      | (10)  |       |
| Kandla          | 106                  | 63   | 1127                                 | 1202  | 17                                                          | 477  | 229                                              | 577  | 231                      | 4029  |       |
| Mumbai          | 595                  | 13   | 9700                                 | 9505  | -                                                           | 221  | 6145                                             | 5757 | -                        | 32024 |       |
| J.L. Nehru      | 202                  | 47   | 337                                  | 112   | 120                                                         | 971  | -                                                | -    | -                        | 1789  |       |
| Mormugao        | 144                  | 87   | 628                                  | 1620  | 1146                                                        | 432  | 464                                              | -    | -                        | 45210 |       |
| New Mangalore   | 70                   | 113  | 841                                  | 423   | -                                                           | 363  | 666                                              | -    | -                        | 2476  |       |
| Cochin          | 151                  | 122  | 3012                                 | 1354  | -                                                           | 467  | 11                                               | 454  | 34                       | 56050 |       |
| Tuticorin       | 64                   | 124  | 1070                                 | 805   | -                                                           | -    | -                                                | -    | -                        | 2063  |       |
| Chennai         | 334                  | 316  | 2048                                 | 2279  | 3492                                                        | 1192 | 201                                              | 943  | 52                       | 10857 |       |
| Visakhapatnam   | 220                  | 149  | 1633                                 | 2597  | 939                                                         | 2487 | 1047                                             | 80   | 415*                     | 9567  |       |
| Paradip         | 87                   | 218  | 1369                                 | 1096  | -                                                           | 389  | -                                                | 1038 | -                        | 4197  |       |
| Calcutta/Haldia | 839                  | 305  | 5988                                 | 6971  | -                                                           | 1532 | 1147                                             | 441  | 186                      | 17409 |       |
| Total           | 2812                 | 1557 | 27841                                | 27964 | 5714                                                        | 8531 | 9910                                             | 9290 | 918                      | 94537 |       |

\* Includes 403 Pooled category workers.

@ Includes DLB employment also.

2.7.5 Employment At DLB'S OF Major Ports As On 31st December, 1998

(In Numbers)

| Port / DLB    | DLB Employment |          |           |          | Dock Workers       |        |        |         | Grand Total |      |
|---------------|----------------|----------|-----------|----------|--------------------|--------|--------|---------|-------------|------|
|               | Class I        | Class II | Class III | Class IV | Total : Registered | Listed | Others | Total : |             |      |
| (1)           | (2)            | (3)      | (4)       | (5)      | (6)                | (7)    | (8)    | (9)     | (10)        | (11) |
| Kandla        | 2              | 4        | 60        | 11       | 77                 | 932    | -      | -       | 932         | 1009 |
| Chennai       | 30             | 15       | 347       | 103      | 495                | 917    | 154    | 624     | 1695        | 2190 |
| Visakhapatnam | 21             | 8        | 275       | 115      | 419                | 909    | 903    | 20      | 1832        | 2251 |
| Calcutta      | 25             | 18       | 399       | 255      | 697                | 2197   | -      | -       | 2197        | 2894 |
| All DLB's     | 78             | 45       | 1081      | 484      | 1688               | 4955   | 1057   | 644     | 6656        | 8344 |

2.7.6 Mandays Lost Per Thousand Mandays Employed During 1994-98

| PORT            | 1994                                          |                                                                         |                                               | 1995                                                                    |                                               |                                                                         | 1996                                          |                                                                         |                                               | 1997                                                                    |                                               |                                                                         | 1998                                          |                                                                         |                                               |
|-----------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|
|                 | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) | Mandays<br>lost per<br>1000<br>mandays<br>emplo-<br>yed<br>(in<br>'000) | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) | Mandays<br>lost per<br>1000<br>mandays<br>emplo-<br>yed<br>(in<br>'000) | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) | Mandays<br>lost per<br>1000<br>mandays<br>emplo-<br>yed<br>(in<br>'000) | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) | Mandays<br>lost per<br>1000<br>mandays<br>emplo-<br>yed<br>(in<br>'000) | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) | Mandays<br>lost per<br>1000<br>mandays<br>emplo-<br>yed<br>(in<br>'000) | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) | Mandays<br>lost per<br>1000<br>mandays<br>emplo-<br>yed<br>(in<br>'000) | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) | Mandays<br>lost per<br>1000<br>mandays<br>emplo-<br>yed<br>(in<br>'000) | Man-<br>days<br>emplo-<br>yed<br>(in<br>'000) |
| 1               | 2                                             | 3                                                                       | 4                                             | 5                                                                       | 6                                             | 7                                                                       | 8                                             | 9                                                                       | 10                                            | 11                                                                      | 12                                            | 13                                                                      | 14                                            | 15                                                                      | 16                                            |
| Kandla          | 1708                                          | 0.8                                                                     | 1623                                          | 0.2                                                                     | 1515                                          | 0.8                                                                     | 1613                                          | -                                                                       | 1438                                          | 0.9                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Mumbai          | 10409                                         | 0.6                                                                     | 9868                                          | 0.6                                                                     | 9837                                          | 2.9                                                                     | 9638                                          | 0.01                                                                    | 9425                                          | 4.1                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Mormugao        | 1326                                          | -                                                                       | 1306                                          | 0.8                                                                     | 1284                                          | 8.6                                                                     | 1240                                          | -                                                                       | 1287                                          | 2.6                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| N.Mangalore     | 693                                           | -                                                                       | 691                                           | -                                                                       | 683                                           | -                                                                       | 677                                           | 7.3                                                                     | 688                                           | 23.8                                                                    | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Cochin          | 1815                                          | 0.3                                                                     | 1620                                          | 0.1                                                                     | 1620                                          | 0.2                                                                     | 1634                                          | 0.1                                                                     | 1600                                          | 2.4                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Tuticorin       | 599                                           | 11.3                                                                    | 646                                           | 2.4                                                                     | 582                                           | 6.3                                                                     | 569                                           | 12.3                                                                    | 563                                           | 11.4                                                                    | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Chennai         | 3450                                          | 1.4                                                                     | 3731                                          | 0.6                                                                     | 3450                                          | 0.9                                                                     | 3387                                          | 0.3                                                                     | 3337                                          | 4.2                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Visakhapatnam   | 3151                                          | -                                                                       | 3423                                          | 1.6                                                                     | 3004                                          | 0.1                                                                     | 3007                                          | 0.6                                                                     | 3032                                          | 11.1                                                                    | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Paradip         | 1572                                          | -                                                                       | 1234                                          | -                                                                       | 1269                                          | 0.2                                                                     | 1232                                          | -                                                                       | 1168                                          | -                                                                       | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| Calcutta/Haldia | 6695                                          | 0.5                                                                     | 6407                                          | 0.1                                                                     | 6010                                          | 0.6                                                                     | 5768                                          | 0.6                                                                     | 5539                                          | 0.1                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| J.N.P.T.        | 454                                           | -                                                                       | 465                                           | -                                                                       | 462                                           | -                                                                       | 465                                           | 3.3                                                                     | 462                                           | 3.0                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |
| TOTAL           | 31872                                         | 0.7                                                                     | 31014                                         | 0.6                                                                     | 29716                                         | 1.7                                                                     | 29230                                         | 0.7                                                                     | 28539                                         | 4.2                                                                     | -                                             | -                                                                       | -                                             | -                                                                       | -                                             |

Note : Mandays calculation includes Port Workers as well as Dock Workers.

Source : Ports Wing, MOST

# 2.8.1 Revenue And Expenditure At Major Ports

(Rs. in Lakhs)

| Port /<br>Year | Total :<br>Revenue | Total :<br>Expendi-<br>ture | Port & Dock<br>charges including :<br>Pilotsage | Cargo handling<br>and ware-<br>housing | On account of :<br>Railways | Land and<br>Building | Finance<br>and<br>Miso. | Manage-<br>ment &<br>General | Admn. |      |       |       |      |
|----------------|--------------------|-----------------------------|-------------------------------------------------|----------------------------------------|-----------------------------|----------------------|-------------------------|------------------------------|-------|------|-------|-------|------|
| (1)            | (2)                | (3)                         | (4)                                             | (5)                                    | (6)                         | (7)                  | (8)                     | (9)                          | (10)  | (11) | (12)  | (13)  | (14) |
| KANDLA         |                    |                             |                                                 |                                        |                             |                      |                         |                              |       |      |       |       |      |
| 1986-87        | 4480               | 2361                        | 1345                                            | 926                                    | 2113                        | 571                  | -                       | 6                            | 160   | 149  | 862   | 276   | 433  |
| 1987-88        | 5072               | 2879                        | 1458                                            | 1143                                   | 2377                        | 556                  | -                       | 8                            | 155   | 204  | 1082  | 475   | 493  |
| 1988-89        | 6298               | 3252                        | 1631                                            | 1542                                   | 3093                        | 585                  | -                       | 9                            | 208   | 210  | 1366  | 339   | 567  |
| 1989-90        | 7431               | 3924                        | 1922                                            | 1861                                   | 3683                        | 729                  | -                       | 8                            | 241   | 242  | 1585  | 457   | 627  |
| 1990-91        | 8248               | 3931                        | 2342                                            | 1817                                   | 3851                        | 779                  | -                       | 4                            | 246   | 268  | 1809  | 332   | 731  |
| 1991-92        | 9553               | 4490                        | 2535                                            | 2126                                   | 4411                        | 835                  | -                       | 4                            | 259   | 293  | 2348  | 452   | 780  |
| 1992-93        | 11948              | 4812                        | 3091                                            | 2244                                   | 5329                        | 911                  | -                       | 4                            | 271   | 322  | 3257  | 460   | 871  |
| 1993-94        | 13996              | 6041                        | 4071                                            | 2746                                   | 5365                        | 1075                 | -                       | 7                            | 739   | 402  | 3821  | 873   | 938  |
| 1994-95        | 15797              | 6219                        | 4820                                            | 2683                                   | 6352                        | 1191                 | -                       | 68                           | 575   | 418  | 4050  | 778   | 1081 |
| 1995-96        | 20099              | 7491                        | 5424                                            | 3428                                   | 7548                        | 1443                 | -                       | 18                           | 856   | 508  | 6271  | 846   | 1248 |
| 1996-97        | 25496              | 9217                        | 6126                                            | 4253                                   | 8646                        | 1606                 | -                       | 132                          | 1244  | 611  | 9480  | 1278  | 1337 |
| 1997-98        | 28813              | 9793                        | 7497                                            | 4858                                   | 10178                       | 1788                 | -                       | 31                           | 1389  | 653  | 9749  | 824   | 1639 |
| MADRAS         |                    |                             |                                                 |                                        |                             |                      |                         |                              |       |      |       |       |      |
| 1986-87        | 21955              | 14118                       | 2713                                            | 2593                                   | 10893                       | 5728                 | -                       | 763                          | 2624  | 688  | 5725  | 2438  | 1908 |
| 1987-88        | 23723              | 16761                       | 3103                                            | 3251                                   | 12046                       | 6421                 | 189                     | 844                          | 2680  | 803  | 5705  | 3187  | 2255 |
| 1988-89        | 29228              | 18909                       | 3720                                            | 3603                                   | 15047                       | 6991                 | 192                     | 891                          | 3322  | 951  | 6947  | 3991  | 2482 |
| 1989-90        | 28580              | 21150                       | 3721                                            | 3323                                   | 17444                       | 7600                 | 226                     | 1027                         | 948   | 1298 | 6241  | 5018  | 2884 |
| 1990-91        | 26623              | 20490                       | 3554                                            | 3736                                   | 18608                       | 7739                 | 230                     | 1111                         | 1087  | 1318 | 3144  | 3399  | 3187 |
| 1991-92        | 31718              | 26394                       | 4280                                            | 4214                                   | 19349                       | 8596                 | 255                     | 1184                         | 1680  | 1705 | 6154  | 7010  | 3685 |
| 1992-93        | 43723              | 30526                       | 8394                                            | 5497                                   | 26124                       | 9216                 | 327                     | 1219                         | 1607  | 1935 | 7271  | 8610  | 4049 |
| 1993-94        | 48482              | 30657                       | 10115                                           | 5469                                   | 29610                       | 10425                | 339                     | 1361                         | 1604  | 2067 | 6814  | 6663  | 4672 |
| 1994-95        | 55851              | 41513                       | 10574                                           | 7434                                   | 34968                       | 12723                | 448                     | 1652                         | 1524  | 2565 | 8337  | 11452 | 5687 |
| 1995-96        | 68243              | 42809                       | 13620                                           | 5954                                   | 42318                       | 14427                | 610                     | 1669                         | 1640  | 2766 | 10055 | 11450 | 6543 |
| 1996-97        | 68652              | 49660                       | 13362                                           | 9973                                   | 43570                       | 15598                | 491                     | 1826                         | 1835  | 3229 | 9594  | 12217 | 6817 |
| 1997-98        | 68520              | 51160                       | 16311                                           | 9898                                   | 40237                       | 16553                | 496                     | 1801                         | 3594  | 3608 | 7882  | 11637 | 7663 |



# 2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in lakhs)

| Port /<br>Year | Total :<br>Revenue | Total :<br>Expenditure | Port & Dock<br>charges including<br>Pilotage | Cargo handling<br>and ware-<br>housing | On account of<br>Railways | Land and<br>Building | Finance<br>and<br>Misc. | Manage-<br>ment &<br>General |
|----------------|--------------------|------------------------|----------------------------------------------|----------------------------------------|---------------------------|----------------------|-------------------------|------------------------------|
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
| :              | :                  | :                      | :                                            | :                                      | :                         | :                    | :                       | :                            |
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2.8.1 Revenue And Expenditure At Major Ports (Contd.)  
(Rs. in Lakhs)

| Port /<br>Year | : Total : Revenue : Expenditure : |       | : Port & Dock : charges including : Pilotage : |      | : Cargo handling : and warehousing : |      | : On account of : Railways : |      | : Land and : Building : |      | : Finance : and : Misc. : |      | : Manage- : ment & : General : Adm. : |      |
|----------------|-----------------------------------|-------|------------------------------------------------|------|--------------------------------------|------|------------------------------|------|-------------------------|------|---------------------------|------|---------------------------------------|------|
|                | (1)                               | (2)   | (3)                                            | (4)  | (5)                                  | (6)  | (7)                          | (8)  | (9)                     | (10) | (11)                      | (12) | (13)                                  | (14) |
| TUTICORIN      |                                   |       |                                                |      |                                      |      |                              |      |                         |      |                           |      |                                       |      |
| 1986-87        | 1440                              | 1284  | 220                                            | 261  | 999                                  | 229  | 41                           | 33   | 38                      | 70   | 142                       | 390  | 301                                   |      |
| 1987-88        | 1435                              | 1444  | 227                                            | 306  | 960                                  | 252  | 38                           | 37   | 45                      | 79   | 165                       | 427  | 343                                   |      |
| 1988-89        | 1941                              | 1511  | 337                                            | 326  | 1326                                 | 280  | 44                           | 53   | 53                      | 88   | 181                       | 411  | 353                                   |      |
| 1989-90        | 2274                              | 2073  | 438                                            | 390  | 1507                                 | 335  | 65                           | 49   | 80                      | 96   | 184                       | 799  | 404                                   |      |
| 1990-91        | 2908                              | 1880  | 468                                            | 439  | 1561                                 | 368  | 73                           | 51   | 145                     | 106  | 661                       | 442  | 474                                   |      |
| 1991-92        | 3046                              | 2086  | 550                                            | 506  | 1936                                 | 447  | 72                           | 68   | 147                     | 123  | 341                       | 407  | 535                                   |      |
| 1992-93        | 3989                              | 2250  | 861                                            | 545  | 2287                                 | 500  | 74                           | 65   | 222                     | 134  | 545                       | 415  | 591                                   |      |
| 1993-94        | 3908                              | 2899  | 924                                            | 635  | 2201                                 | 609  | -                            | 51   | 231                     | 135  | 552                       | 689  | 700                                   |      |
| 1994-95        | 4502                              | 3726  | 1088                                           | 661  | 2721                                 | 1147 | 23                           | 68   | 210                     | 195  | 460                       | 813  | 842                                   |      |
| 1995-96        | 5979                              | 3634  | 1613                                           | 875  | 3542                                 | 737  | 9                            | 50   | 241                     | 231  | 574                       | 816  | 925                                   |      |
| 1996-97        | 6709                              | 4063  | 1885                                           | 931  | 3710                                 | 790  | 57                           | 58   | 232                     | 247  | 825                       | 939  | 1098                                  |      |
| 1997-98        | 8649                              | 5025  | 2271                                           | 1193 | 4676                                 | 915  | 93                           | 129  | 479                     | 259  | 1130                      | 1314 | 1215                                  |      |
| CHENNAI        |                                   |       |                                                |      |                                      |      |                              |      |                         |      |                           |      |                                       |      |
| 1986-87        | 10433                             | 6896  | 1589                                           | 1043 | 7380                                 | 2425 | 704                          | 453  | 32                      | 66   | 728                       | 1362 | 1547                                  |      |
| 1987-88        | 11256                             | 7622  | 1863                                           | 1016 | 7358                                 | 2749 | 896                          | 458  | 45                      | 60   | 1094                      | 1621 | 1718                                  |      |
| 1988-89        | 13525                             | 8269  | 2072                                           | 1424 | 8935                                 | 2704 | 1108                         | 478  | 54                      | 76   | 1356                      | 1648 | 1939                                  |      |
| 1989-90        | 14832                             | 8882  | 1977                                           | 1337 | 9794                                 | 3065 | 1184                         | 527  | 146                     | 92   | 1731                      | 1561 | 2300                                  |      |
| 1990-91        | 16964                             | 9713  | 2184                                           | 1426 | 10714                                | 3194 | 1295                         | 614  | 166                     | 93   | 2605                      | 1778 | 2608                                  |      |
| 1991-92        | 19947                             | 11218 | 3055                                           | 1594 | 11172                                | 3722 | 1630                         | 719  | 208                     | 98   | 3882                      | 2157 | 2928                                  |      |
| 1992-93        | 25664                             | 13700 | 4003                                           | 1536 | 13135                                | 4062 | 1576                         | 924  | 201                     | 121  | 6749                      | 3694 | 3363                                  |      |
| 1993-94        | 30029                             | 15548 | 5087                                           | 1650 | 14721                                | 4588 | 1601                         | 815  | 219                     | 143  | 8401                      | 4860 | 3492                                  |      |
| 1994-95        | 31007                             | 16773 | 5429                                           | 2723 | 15416                                | 5230 | 1741                         | 849  | 276                     | 169  | 8145                      | 3671 | 4131                                  |      |
| 1995-96        | 33879                             | 20365 | 6826                                           | 2850 | 16313                                | 6173 | 1987                         | 1138 | 387                     | 170  | 8366                      | 5175 | 4859                                  |      |
| 1996-97        | 38378                             | 20933 | 7194                                           | 3113 | 17582                                | 6816 | 2292                         | 1081 | 328                     | 187  | 10982                     | 4452 | 5284                                  |      |
| 1997-98        | 41676                             | 24860 | 7913                                           | 3994 | 18954                                | 7723 | 2887                         | 1526 | 381                     | 232  | 11541                     | 4912 | 6473                                  |      |

2.8.1 Revenue And Expenditure At Major Ports (Contd.)  
(Rs. in Lakhs)

| Port /<br>Year | Total :<br>Revenue | Total :<br>Expenditure | Port & Dock<br>charges including<br>Pilotage | Cargo handling<br>and ware-<br>housing | On account of<br>Railways | Land and<br>Building | Finance<br>and<br>Miso. | Manage-<br>ment &<br>General | Admin. |      |      |      |      |
|----------------|--------------------|------------------------|----------------------------------------------|----------------------------------------|---------------------------|----------------------|-------------------------|------------------------------|--------|------|------|------|------|
| (1)            | (2)                | (3)                    | (4)                                          | (5)                                    | (6)                       | (7)                  | (8)                     | (9)                          | (10)   | (11) | (12) | (13) | (14) |
| VISAKHAPATNAM  |                    |                        |                                              |                                        |                           |                      |                         |                              |        |      |      |      |      |
| 1986-87        | 8272               | 7449                   | 1469                                         | 1286                                   | 5308                      | 2231                 | 711                     | 714                          | 316    | 220  | 468  | 2011 | 987  |
| 1987-88        | 9280               | 8494                   | 1514                                         | 1634                                   | 5277                      | 2398                 | 848                     | 750                          | 457    | 268  | 1184 | 2271 | 1173 |
| 1988-89        | 13546              | 9757                   | 2169                                         | 1528                                   | 6974                      | 2702                 | 1234                    | 955                          | 352    | 269  | 2817 | 2475 | 1828 |
| 1989-90        | 13021              | 9054                   | 2556                                         | 1809                                   | 8036                      | 2280                 | 1303                    | 1139                         | 350    | 333  | 776  | 2074 | 1419 |
| 1990-91        | 13955              | 10547                  | 2531                                         | 1990                                   | 7300                      | 2843                 | 1427                    | 1193                         | 569    | 420  | 2128 | 2487 | 1614 |
| 1991-92        | 15713              | 11861                  | 2682                                         | 2487                                   | 8442                      | 3230                 | 2025                    | 1754                         | 344    | 515  | 2220 | 2061 | 1814 |
| 1992-93        | 18956              | 13951                  | 4030                                         | 2739                                   | 9621                      | 3343                 | 2387                    | 1893                         | 348    | 507  | 2570 | 3339 | 2130 |
| 1993-94        | 20226              | 14424                  | 4676                                         | 2678                                   | 10434                     | 3906                 | 2451                    | 1678                         | 535    | 577  | 2130 | 3378 | 2207 |
| 1994-95        | 21940              | 17719                  | 5870                                         | 3458                                   | 11548                     | 4523                 | 2806                    | 1803                         | 683    | 681  | 1033 | 4684 | 2570 |
| 1995-96        | 25802              | 19947                  | 7000                                         | 4022                                   | 13241                     | 4075                 | 3473                    | 2711                         | 682    | 810  | 1406 | 5269 | 3060 |
| 1996-97        | 28349              | 20951                  | 8063                                         | 4246                                   | 14413                     | 4998                 | 3756                    | 3050                         | 894    | 817  | 1223 | 4280 | 3560 |
| 1997-98        | 29441              | 21936                  | 7773                                         | 3962                                   | 13776                     | 5233                 | 4749                    | 3380                         | 956    | 1021 | 2187 | 4263 | 4077 |
| PARADIP        |                    |                        |                                              |                                        |                           |                      |                         |                              |        |      |      |      |      |
| 1986-87        | 4309               | 4568                   | 793                                          | 782                                    | 2696                      | 1088                 | 324                     | 240                          | 95     | 233  | 401  | 1633 | 592  |
| 1987-88        | 4847               | 5015                   | 842                                          | 927                                    | 2785                      | 1061                 | 397                     | 258                          | 124    | 228  | 699  | 1862 | 679  |
| 1988-89        | 5522               | 4992                   | 905                                          | 666                                    | 3343                      | 1312                 | 420                     | 312                          | 160    | 301  | 694  | 1626 | 775  |
| 1989-90        | 6709               | 5906                   | 1143                                         | 719                                    | 4068                      | 1313                 | 514                     | 433                          | 313    | 363  | 671  | 2224 | 854  |
| 1990-91        | 8782               | 7109                   | 1632                                         | 852                                    | 5098                      | 1446                 | 732                     | 386                          | 163    | 420  | 1157 | 3003 | 1002 |
| 1991-92        | 9893               | 8347                   | 1595                                         | 1084                                   | 5072                      | 1823                 | 764                     | 486                          | 526    | 504  | 1936 | 3346 | 1104 |
| 1992-93        | 10303              | 8910                   | 1857                                         | 1412                                   | 5632                      | 2075                 | 994                     | 832                          | 355    | 770  | 1465 | 2460 | 1361 |
| 1993-94        | 13273              | 11804                  | 2317                                         | 1240                                   | 6724                      | 2273                 | 1250                    | 685                          | 939    | 512  | 2043 | 5400 | 1694 |
| 1994-95        | 13837              | 10258                  | 2752                                         | 1745                                   | 8039                      | 2445                 | 1538                    | 437                          | 362    | 792  | 1146 | 3126 | 1713 |
| 1995-96        | 16093              | 12139                  | 3202                                         | 2221                                   | 9324                      | 2901                 | 1674                    | 473                          | 949    | 1031 | 944  | 3522 | 1991 |
| 1996-97        | 17972              | 13292                  | 3488                                         | 2658                                   | 9347                      | 3043                 | 1780                    | 557                          | 1656   | 1116 | 1701 | 3381 | 2537 |
| 1997-98        | 18903              | 13832                  | 4159                                         | 1936                                   | 10397                     | 3320                 | 2268                    | 830                          | 849    | 1555 | 1230 | 3500 | 2691 |

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

| Port /<br>Year  | (Rs. in Lakhs) |             |             |             |                |             |               |             |          |             |         |             |                      |             |
|-----------------|----------------|-------------|-------------|-------------|----------------|-------------|---------------|-------------|----------|-------------|---------|-------------|----------------------|-------------|
|                 | Total : Total  |             | Port & Dock |             | Cargo handling |             | On account of |             | Land and |             | Finance |             | Management & General |             |
|                 | Revenue        | Expenditure | Revenue     | Expenditure | Revenue        | Expenditure | Revenue       | Expenditure | Revenue  | Expenditure | Revenue | Expenditure | Revenue              | Expenditure |
| (1)             | (2)            | (3)         | (4)         | (5)         | (6)            | (7)         | (8)           | (9)         | (10)     | (11)        | (12)    | (13)        | (14)                 | (15)        |
| <b>HALDIA</b>   |                |             |             |             |                |             |               |             |          |             |         |             |                      |             |
| 1986-87         | 6518           | 5034        | 2541        | 2159        | 2725           | 661         | 376           | 281         | 156      | 275         | 720     | 913         | 745                  |             |
| 1987-88         | 6934           | 5988        | 2821        | 2627        | 2824           | 705         | 510           | 731         | 159      | 283         | 620     | 849         | 793                  |             |
| 1988-89         | 9993           | 6151        | 3157        | 2302        | 5101           | 980         | 594           | 665         | 232      | 292         | 909     | 1023        | 889                  |             |
| 1989-90         | 11064          | 6474        | 3541        | 2694        | 5334           | 1163        | 669           | 685         | 262      | 357         | 1258    | 618         | 957                  |             |
| 1990-91         | 12370          | 7638        | 4237        | 2957        | 5735           | 1399        | 790           | 626         | 347      | 398         | 1261    | 1081        | 1177                 |             |
| 1991-92         | 14842          | 10549       | 5543        | 4869        | 6122           | 1423        | 972           | 620         | 440      | 518         | 1765    | 1762        | 1357                 |             |
| 1992-93         | 17731          | 13807       | 7139        | 6577        | 6968           | 1755        | 1214          | 789         | 989      | 598         | 1421    | 2449        | 1639                 |             |
| 1993-94         | 22744          | 16792       | 9798        | 7423        | 8976           | 1806        | 1229          | 812         | 940      | 715         | 1801    | 4232        | 1804                 |             |
| 1994-95         | 26821          | 20647       | 11671       | 8367        | 10537          | 1977        | 1404          | 784         | 1042     | 680         | 2167    | 6811        | 2028                 |             |
| 1995-96         | 27174          | 18934       | 9975        | 5932        | 12039          | 2019        | 1656          | 875         | 1442     | 891         | 2062    | 6889        | 2328                 |             |
| 1996-97         | 35325          | 22418       | 14649       | 9513        | 13428          | 2371        | 2109          | 965         | 1735     | 1009        | 3404    | 5807        | 2753                 |             |
| 1997-98         | 47977          | 30927       | 22965       | 15728       | 17041          | 2749        | 2489          | 1127        | 1680     | 1064        | 3802    | 7163        | 3096                 |             |
| <b>CALCUTTA</b> |                |             |             |             |                |             |               |             |          |             |         |             |                      |             |
| 1986-87         | 10281          | 10624       | 2652        | 3011        | 5508           | 2246        | 358           | 881         | 712      | 153         | 1051    | 1731        | 2602                 |             |
| 1987-88         | 9824           | 12076       | 3331        | 2953        | 4548           | 2445        | 485           | 690         | 742      | 161         | 718     | 2925        | 2902                 |             |
| 1988-89         | 12806          | 12678       | 3021        | 3439        | 7323           | 2552        | 359           | 716         | 861      | 165         | 1242    | 2564        | 3242                 |             |
| 1989-90         | 13671          | 13416       | 2826        | 3691        | 8266           | 2530        | 371           | 807         | 1088     | 183         | 1120    | 2741        | 3464                 |             |
| 1990-91         | 14722          | 14503       | 2770        | 3647        | 8891           | 2831        | 417           | 819         | 1246     | 224         | 1398    | 3115        | 3867                 |             |
| 1991-92         | 15372          | 15187       | 2426        | 3484        | 8176           | 2832        | 476           | 850         | 1507     | 261         | 2787    | 3773        | 3987                 |             |
| 1992-93         | 15815          | 15271       | 3451        | 4016        | 8808           | 2969        | 585           | 914         | 1567     | 247         | 1404    | 2912        | 4213                 |             |
| 1993-94         | 18575          | 16839       | 3928        | 3767        | 11088          | 2889        | 638           | 760         | 1609     | 257         | 1312    | 4169        | 4997                 |             |
| 1994-95         | 20040          | 20448       | 4546        | 5415        | 11527          | 2779        | 1064          | 874         | 1719     | 267         | 1184    | 6309        | 4804                 |             |
| 1995-96         | 21680          | 21455       | 4886        | 5554        | 13180          | 2915        | 934           | 745         | 1894     | 246         | 786     | 6485        | 5510                 |             |
| 1996-97         | 23990          | 22571       | 4869        | 5871        | 14218          | 3067        | 891           | 837         | 2329     | 355         | 1683    | 6354        | 6087                 |             |
| 1997-98         | 26104          | 25807       | 5638        | 6403        | 15514          | 2933        | 861           | 1173        | 2559     | 424         | 1532    | 8380        | 6494                 |             |

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in Lakhs)

| Port /<br>Year | Total :<br>Revenue | Total :<br>Expenditure | Port & Dock<br>charges including<br>Pilotsage | Cargo handling<br>and ware-<br>housing | On account of<br>Railways | Land and<br>Building | Finance<br>and<br>Misc. | Manage-<br>ment &<br>General<br>Admn. |       |       |       |       |       |
|----------------|--------------------|------------------------|-----------------------------------------------|----------------------------------------|---------------------------|----------------------|-------------------------|---------------------------------------|-------|-------|-------|-------|-------|
| (1)            | (2)                | (3)                    | (4)                                           | (5)                                    | (6)                       | (7)                  | (8)                     | (9)                                   | (10)  | (11)  | (12)  | (13)  | (14)  |
| ALL PORTS      |                    |                        |                                               |                                        |                           |                      |                         |                                       |       |       |       |       |       |
| 1986-87        | 77771              | 61665                  | 15579                                         | 14978                                  | 43983                     | 17334                | 2740                    | 3468                                  | 4657  | 2043  | 10812 | 12970 | 10872 |
| 1987-88        | 82138              | 69403                  | 17307                                         | 16344                                  | 44486                     | 18595                | 3405                    | 3885                                  | 4952  | 2295  | 11988 | 16030 | 12254 |
| 1988-89        | 105277             | 75729                  | 19666                                         | 17442                                  | 59093                     | 20352                | 3998                    | 4198                                  | 5895  | 2589  | 16625 | 16809 | 14339 |
| 1989-90        | 114163             | 85197                  | 21145                                         | 19517                                  | 69260                     | 22078                | 4372                    | 4820                                  | 4314  | 3302  | 15072 | 18401 | 17079 |
| 1990-91        | 125818             | 93042                  | 23208                                         | 20881                                  | 75828                     | 26120                | 5010                    | 4934                                  | 5112  | 3729  | 16660 | 19159 | 18219 |
| 1991-92        | 144736             | 110022                 | 26541                                         | 25103                                  | 80662                     | 29040                | 6236                    | 5831                                  | 6397  | 4630  | 24900 | 25097 | 20321 |
| 1992-93        | 178646             | 127618                 | 38205                                         | 30153                                  | 96135                     | 32290                | 7230                    | 6890                                  | 6970  | 5365  | 30106 | 30223 | 22697 |
| 1993-94        | 206457             | 144453                 | 48260                                         | 32769                                  | 109563                    | 36476                | 7588                    | 6423                                  | 8456  | 5689  | 32590 | 37466 | 25630 |
| 1994-95        | 231725             | 167700                 | 55529                                         | 38225                                  | 125757                    | 42030                | 9091                    | 6811                                  | 8545  | 6960  | 32803 | 44791 | 28883 |
| 1995-96        | 275864             | 187719                 | 62655                                         | 40187                                  | 151772                    | 47203                | 10356                   | 7939                                  | 11249 | 7894  | 39832 | 51272 | 33224 |
| 1996-97        | 317163             | 212390                 | 71962                                         | 51318                                  | 168007                    | 53641                | 11388                   | 8801                                  | 14087 | 9074  | 51719 | 51894 | 37662 |
| 1997-98        | 360731             | 239072                 | 89786                                         | 61484                                  | 184181                    | 59942                | 13872                   | 10318                                 | 17294 | 10663 | 55598 | 54092 | 42573 |

**2.8.2 Operating Income, Operating Expenditure, Net & Operating Surplus At Major Ports**  
(Rs. In Lakhs)

| Item/Year             | Kandla | Mumbai | J.L.<br>Nehru | Mormu<br>: gao | N.Manga-<br>: lore | Cochin | Tuti-<br>: corin | Chennai<br>: patnam | Visakha-<br>: patnam | Paradip | Haldia | Calcutta | All<br>: Ports |
|-----------------------|--------|--------|---------------|----------------|--------------------|--------|------------------|---------------------|----------------------|---------|--------|----------|----------------|
| 1                     | 2      | 3      | 4             | 5              | 6                  | 7      | 8                | 9                   | 10                   | 11      | 12     | 13       | 14             |
| Operating Income      |        |        |               |                |                    |        |                  |                     |                      |         |        |          |                |
| 1987-88               | 3990   | 18018  | -             | 3605           | 1964               | 3477   | 1270             | 10162               | 8096                 | 4148    | 6314   | 9106     | 70150          |
| 1988-89               | 4932   | 22281  | -             | 4527           | 2255               | 4523   | 1760             | 12169               | 10729                | 4828    | 9084   | 11564    | 88652          |
| 1989-90               | 5846   | 22339  | 2551          | 4659           | 2360               | 5505   | 2090             | 13101               | 12245                | 6038    | 9806   | 12551    | 99091          |
| 1990-91               | 6439   | 23479  | 5310          | 4866           | 3036               | 5538   | 2247             | 14359               | 11826                | 7626    | 11109  | 13324    | 109159         |
| 1991-92               | 7205   | 25564  | 7311          | 4837           | 3209               | 5828   | 2706             | 16065               | 13493                | 7957    | 13077  | 12585    | 119837         |
| 1992-93               | 8691   | 36452  | 8567          | 6403           | 3488               | 6635   | 3444             | 18915               | 16386                | 8838    | 16310  | 14411    | 148540         |
| 1993-94               | 10175  | 41668  | 10269         | 8216           | 4060               | 6963   | 3356             | 21629               | 18096                | 11230   | 20943  | 17263    | 173868         |
| 1994-95               | 11747  | 47514  | 15326         | 7983           | 4135               | 8205   | 4042             | 22862               | 20907                | 12691   | 24654  | 18856    | 198922         |
| 1995-96               | 13828  | 58188  | 23367         | 8010           | 5461               | 10709  | 5405             | 25513               | 24396                | 15149   | 25112  | 20894    | 236032         |
| 1996-97               | 16016  | 59258  | 24607         | 9035           | 11847              | 13776  | 5884             | 27396               | 27126                | 16271   | 31921  | 22307    | 265444         |
| 1997-98               | 19064  | 60638  | 32003         | 11059          | 15496              | 15545  | 7519             | 30135               | 27254                | 17673   | 44175  | 24572    | 305133         |
| Operating Expenditure |        |        |               |                |                    |        |                  |                     |                      |         |        |          |                |
| 1987-88               | 2404   | 13574  | -             | 2580           | 1319               | 2812   | 1017             | 6001                | 6223                 | 3153    | 5139   | 9151     | 53373          |
| 1988-89               | 2913   | 14918  | -             | 2918           | 1142               | 3418   | 1100             | 6621                | 7282                 | 3366    | 5128   | 10114    | 58920          |
| 1989-90               | 3467   | 16132  | 2896          | 3040           | 1711               | 3762   | 1274             | 7321                | 6980                 | 3682    | 5856   | 10675    | 66796          |
| 1990-91               | 3599   | 17091  | 4601          | 3429           | 1611               | 4068   | 1438             | 7935                | 8059                 | 4106    | 6557   | 11388    | 73882          |
| 1991-92               | 4038   | 19384  | 5448          | 3841           | 2264               | 4213   | 1680             | 9061                | 9800                 | 5001    | 8787   | 11414    | 84931          |
| 1992-93               | 4352   | 21916  | 6229          | 4639           | 2438               | 5201   | 1835             | 10006               | 10612                | 6450    | 11358  | 12359    | 97395          |
| 1993-94               | 5168   | 23994  | 7809          | 5425           | 3029               | 5984   | 2210             | 10687               | 11046                | 6404    | 12560  | 12670    | 106986         |
| 1994-95               | 5441   | 30061  | 8718          | 5695           | 2612               | 6225   | 2913             | 13102               | 13035                | 7132    | 13836  | 14139    | 122909         |
| 1995-96               | 6645   | 31359  | 11564         | 6374           | 4023               | 8164   | 2818             | 15190               | 14678                | 8617    | 12045  | 14970    | 136447         |
| 1996-97               | 7939   | 37443  | 13983         | 6852           | 5806               | 9458   | 3124             | 16481               | 16671                | 9911    | 16611  | 16217    | 160496         |
| 1997-98               | 8969   | 39523  | 16970         | 8343           | 7194               | 11126  | 3711             | 19948               | 17673                | 10332   | 23764  | 17427    | 184980         |

2.8.2 Operating Income, Operating Expenditure, Net & Operating Surplus At Major Ports(Contd.)  
(Rs. In lakhs)

| Item/Year                | Kandla | Mumbai | J.L.   | Mormu- | N.H.Manga- | Cochin | Tuticorin | Chennai | Vizakha- | Paradip | Haldia | Calcutta | All    |
|--------------------------|--------|--------|--------|--------|------------|--------|-----------|---------|----------|---------|--------|----------|--------|
| :                        | :      | :      | Nehru  | gao    | lore       | :      | :         | :       | patnam   | :       | :      | :        | ports  |
| 1                        | 2      | 3      | 4      | 5      | 6          | 7      | 8         | 9       | 10       | 11      | 12     | 13       | 14     |
| <b>Operating Surplus</b> |        |        |        |        |            |        |           |         |          |         |        |          |        |
| 1987-88                  | 1586   | 4444   | -      | 1025   | 645        | 665    | 253       | 4161    | 1873     | 995     | 1175   | (-)45    | 16777  |
| 1988-89                  | 2019   | 7363   | -      | 1609   | 1113       | 1105   | 660       | 5548    | 3447     | 1462    | 3956   | 1450     | 29732  |
| 1989-90                  | 2379   | 6207   | (-)345 | 1619   | 649        | 1743   | 816       | 5780    | 5265     | 2356    | 3950   | 1876     | 32295  |
| 1990-91                  | 2840   | 6388   | 709    | 1437   | 1425       | 1470   | 809       | 6424    | 3767     | 3520    | 4552   | 1936     | 35277  |
| 1991-92                  | 3167   | 6180   | 1863   | 996    | 945        | 1615   | 1026      | 7004    | 3693     | 2956    | 4290   | 1171     | 34906  |
| 1992-93                  | 4339   | 14536  | 2338   | 1764   | 1050       | 1434   | 1609      | 8909    | 5774     | 2388    | 4952   | 2052     | 51145  |
| 1993-94                  | 5007   | 17674  | 2460   | 2791   | 1031       | 979    | 1146      | 10942   | 7050     | 4826    | 8383   | 4593     | 66882  |
| 1994-95                  | 6306   | 17453  | 6608   | 2288   | 1523       | 1980   | 1129      | 9760    | 7872     | 5559    | 10818  | 4717     | 76013  |
| 1995-96                  | 7183   | 26829  | 11803  | 1636   | 1438       | 2545   | 2587      | 10323   | 9718     | 6532    | 13067  | 5924     | 99585  |
| 1996-97                  | 8077   | 21815  | 10624  | 2183   | 6041       | 4318   | 2760      | 10915   | 10455    | 6360    | 15310  | 6090     | 104948 |
| 1997-98                  | 10095  | 21115  | 15033  | 2716   | 8302       | 4419   | 3808      | 10187   | 9581     | 7341    | 20411  | 7145     | 120153 |
| <b>Net Surplus</b>       |        |        |        |        |            |        |           |         |          |         |        |          |        |
| 1985-86                  | 2277   | 7259   | -      | 886    | 95         | (-)665 | 322       | 3674    | 864      | (-)412  | 1095   | (-)1286  | 14109  |
| 1988-89                  | 3046   | 10319  | -      | 1324   | 951        | (-)67  | 430       | 5256    | 3789     | 530     | 3842   | 128      | 29548  |
| 1989-90                  | 3507   | 7430   | (-)70  | 1450   | 386        | 497    | 201       | 5950    | 3967     | 803     | 4590   | 255      | 28966  |
| 1990-91                  | 4317   | 6133   | 556    | 1313   | 1106       | 1040   | 1028      | 7251    | 3408     | 1673    | 4732   | 219      | 32776  |
| 1991-92                  | 5063   | 5324   | 1952   | 1027   | 952        | 831    | 960       | 8729    | 3852     | 1546    | 4293   | 185      | 34714  |
| 1992-93                  | 7136   | 13197  | 1607   | 2140   | 1345       | 1034   | 1739      | 11964   | 5005     | 1393    | 3924   | 544      | 51028  |
| 1993-94                  | 7955   | 17825  | 1130   | 3020   | 1355       | 270    | 1009      | 14481   | 5802     | 1469    | 5952   | 1736     | 62004  |
| 1994-95                  | 9578   | 14338  | 6219   | 2851   | 1626       | 837    | 776       | 14234   | 4221     | 3579    | 6174   | (-)408   | 64025  |
| 1995-96                  | 12608  | 25434  | 12542  | 1936   | 2057       | (-)565 | 2345      | 13514   | 5855     | 3954    | 8240   | 225      | 88145  |
| 1996-97                  | 16279  | 19192  | 14252  | 2143   | 4147       | 2265   | 2646      | 17445   | 7398     | 4680    | 12907  | 1419     | 104773 |
| 1997-98                  | 19020  | 17360  | 20475  | 3020   | 6914       | 4507   | 3624      | 16816   | 7505     | 5071    | 17050  | 297      | 121659 |

# 2.8.3 Operating Ratio At Major Ports

| Item/Year | (In Percentage) |        |               |              |                  |        |                |         |                    |         |        |          |              |  |
|-----------|-----------------|--------|---------------|--------------|------------------|--------|----------------|---------|--------------------|---------|--------|----------|--------------|--|
|           | Kandla          | Mumbai | J.L.<br>Nehru | Mormu<br>gao | N.Manga-<br>lore | Cochin | Tuti-<br>corin | Chennai | Visakha-<br>patnam | Paradip | Haldia | Calcutta | All<br>Ports |  |
| 1         | 2               | 3      | 4             | 5            | 6                | 7      | 8              | 9       | 10                 | 11      | 12     | 13       | 14           |  |
| 1986-87   | 57.63           | 71.12  | -             | 76.64        | 62.57            | 86.08  | 68.88          | 57.02   | 69.68              | 75.10   | 71.08  | 96.35    | 72.72        |  |
| 1987-88   | 60.25           | 75.34  | -             | 71.57        | 67.16            | 80.87  | 80.08          | 59.05   | 76.87              | 76.01   | 81.39  | 100.49   | 76.08        |  |
| 1988-89   | 59.06           | 66.95  | -             | 64.46        | 50.64            | 75.57  | 62.50          | 54.41   | 67.87              | 69.72   | 56.45  | 87.46    | 56.46        |  |
| 1989-90   | 59.31           | 72.21  | 113.52        | 65.25        | 72.50            | 68.34  | 60.96          | 55.88   | 57.00              | 60.98   | 59.72  | 85.05    | 67.41        |  |
| 1990-91   | 55.89           | 72.79  | 86.65         | 70.47        | 53.06            | 73.46  | 64.00          | 55.26   | 68.15              | 53.84   | 59.02  | 85.47    | 67.68        |  |
| 1991-92   | 56.04           | 75.83  | 74.52         | 79.41        | 70.55            | 72.29  | 62.08          | 56.40   | 72.63              | 62.85   | 67.19  | 90.70    | 70.87        |  |
| 1992-93   | 50.07           | 60.12  | 72.71         | 72.45        | 69.90            | 78.39  | 53.28          | 52.90   | 64.76              | 72.98   | 69.64  | 85.76    | 65.57        |  |
| 1993-94   | 50.79           | 57.58  | 76.04         | 66.03        | 74.61            | 85.94  | 65.85          | 49.41   | 61.04              | 57.03   | 59.97  | 73.39    | 61.53        |  |
| 1994-95   | 46.32           | 63.27  | 56.88         | 71.34        | 63.17            | 75.87  | 72.07          | 57.31   | 62.35              | 56.20   | 56.12  | 74.98    | 61.79        |  |
| 1995-96   | 48.05           | 53.89  | 49.49         | 79.58        | 73.67            | 76.23  | 52.14          | 59.54   | 60.16              | 56.88   | 47.96  | 71.65    | 57.81        |  |
| 1996-97   | 49.57           | 63.19  | 56.82         | 75.84        | 49.00            | 68.65  | 53.09          | 60.16   | 61.46              | 60.91   | 52.04  | 72.70    | 60.46        |  |
| 1997-98   | 47.05           | 65.18  | 53.03         | 75.44        | 46.42            | 71.57  | 49.35          | 66.20   | 64.84              | 58.46   | 53.80  | 70.92    | 60.62        |  |

**2.8.4 Operating Income, Operating Expenditure And Surplus/Deficit  
Per Tonne Of Cargo Handled**

(In Rs.)

| Port          | Operating Income |         |         | Operating Expenditure |         |         | Surplus/Deficit |         |         |
|---------------|------------------|---------|---------|-----------------------|---------|---------|-----------------|---------|---------|
|               | 1995-96          | 1996-97 | 1997-98 | 1995-96               | 1996-97 | 1997-98 | 1995-96         | 1996-97 | 1997-98 |
| 1             | 2                | 3       | 4       | 5                     | 6       | 7       | 8               | 9       | 10      |
| Kandla        | 45.58            | 47.48   | 49.01   | 21.90                 | 23.54   | 23.06   | 23.68           | 23.95   | 25.95   |
| Mumbai        | 171.56           | 177.21  | 188.92  | 92.46                 | 111.97  | 123.14  | 79.10           | 65.24   | 65.78   |
| J.L. Nehru    | 339.98           | 304.96  | 359.79  | 168.25                | 173.29  | 190.78  | 171.73          | 131.66  | 169.01  |
| Mormugao      | 44.27            | 52.19   | 52.21   | 35.23                 | 39.58   | 39.39   | 9.04            | 12.61   | 12.82   |
| New Mangalore | 61.47            | 95.13   | 101.40  | 45.28                 | 46.62   | 47.07   | 16.19           | 48.51   | 54.32   |
| Cochin        | 93.10            | 117.32  | 126.15  | 70.97                 | 80.55   | 90.29   | 22.13           | 36.77   | 35.86   |
| Tuticorin     | 58.21            | 64.14   | 75.39   | 30.35                 | 34.05   | 37.21   | 27.86           | 30.08   | 38.18   |
| Chennai       | 83.05            | 86.02   | 84.81   | 49.44                 | 51.75   | 56.14   | 33.61           | 34.27   | 28.67   |
| Visakhapatnam | 74.34            | 78.63   | 75.68   | 44.73                 | 48.32   | 49.07   | 29.61           | 30.31   | 26.61   |
| Paradip       | 134.55           | 140.51  | 132.86  | 76.53                 | 85.59   | 77.67   | 58.02           | 54.92   | 55.19   |
| Calcutta*     | 213.83           | 234.51  | 244.16  | 125.56                | 141.96  | 146.29  | 88.27           | 92.54   | 97.87   |

\* Includes Haldia.  
Source : Major Ports

# **SECTION - III**

## **MINOR/INTERMEDIATE PORTS**

- 3.1 CARGO TRAFFIC**
- 3.2 PASSENGER TRAFFIC**
- 3.3 SHIP TRAFFIC**
- 3.4 EMPLOYMENT**
- 3.5 PORT FACILITIES AND  
PERFORMANCE INDICATORS**

### 3.1.0 List of Minor/Intermediate Ports

#### GUJARAT

|    |              |    |                   |
|----|--------------|----|-------------------|
| 1  | Mandvi(I)    | 21 | Kotda             |
| 2  | Navlakhi     | 22 | Madhwad           |
| 3  | Bedi(I)      | 23 | Navabandar        |
| 4  | Sikka(I)     | 24 | Rajpara           |
| 5  | Jafarabad    | 25 | Pipavav/Victor(I) |
| 6  | Okha(I)      | 26 | Mahuva            |
| 7  | Porbandar(I) | 27 | Talaja            |
| 8  | Veraval(I)   | 28 | Ghogha            |
| 9  | Bhavnagar(I) | 29 | Khambhat          |
| 10 | Bharuch      | 30 | Dahej             |
| 11 | Magdalla(I)  | 31 | Bhagwa            |
| 12 | Koteswar     | 32 | Onjal             |
| 13 | Mundra       | 33 | Vansi-Borsi       |
| 14 | Jakhau       | 34 | Billimora         |
| 15 | Jodia        | 35 | Valsad            |
| 16 | Salaya       | 36 | Umarsadi          |
| 17 | Pindhara     | 37 | Kolak             |
| 18 | Beyt         | 38 | Maroli            |
| 19 | Rupen        | 39 | Umergaon          |
| 20 | Mangrol      | 40 | Mul-Dwarka        |

#### ORISSA

|   |                               |
|---|-------------------------------|
| 1 | Gopalpur                      |
| 2 | Behrabalpur (N)<br>(Balasore) |

#### KARNATAKA

|   |              |
|---|--------------|
| 1 | Mangalore(I) |
| 2 | Malpe        |
| 3 | Hangarkatta  |
| 4 | Kundapur(I)  |
| 5 | Bhatkal      |
| 6 | Honavar      |
| 7 | Tadri        |
| 8 | Belekeri     |
| 9 | Karwar(I)    |

|    |           |
|----|-----------|
| 1  | Agatti    |
| 2  | Amini     |
| 3  | Androt    |
| 4  | Bitra     |
| 5  | Chetlat   |
| 6  | Kavaratti |
| 7  | Kadmat    |
| 8  | Kiltan    |
| 9  | Kalpeni   |
| 10 | Minicoy   |

#### GOA

|   |         |
|---|---------|
| 1 | Panaji  |
| 2 | Chapora |
| 3 | Betul   |
| 4 | Talpona |
| 5 | Tiracol |

#### Andhra Pradesh

|    |                    |
|----|--------------------|
| 1  | Bhavanapadu (N)    |
| 2  | Calingapatnam (N)  |
| 3  | Bheemunipatnam (N) |
| 4  | Kakinada(I)        |
| 5  | Narsapur (N)       |
| 6  | Machilipatnam (N)  |
| 7  | Vadarevu (N)       |
| 8  | Nizampatnam (N)    |
| 9  | Krishnapatnam (N)  |
| 10 | Gangavaram (N)     |
| 11 | Mutyalampalem (N)  |
| 12 | Rawa               |

|    |                    |
|----|--------------------|
| 1  | Cuddalore(I)       |
| 2  | Nagapattinam (I)   |
| 3  | Rameswaram         |
| 4  | Pamban             |
| 5  | Colachel           |
| 6  | Valinokkam         |
| 7  | Kanyakumari        |
| 8  | Ennore(C)          |
| 9  | Punnakkayal(C)     |
| 10 | Thirukkadaiyur(C)  |
| 11 | PY-3(Oil field)(C) |
| 12 | Kattupalli(C)      |
| 13 | Thiruchopuram(C)   |
| 14 | Manappad(C)        |

#### Tamil Nadu

### 3.1.0 List of Minor/Intermediate Ports (Contd..)

#### MAHARASHTRA

|    |              |    |                |
|----|--------------|----|----------------|
| 1  | Dahanu       | 28 | Nandgaon       |
| 2  | Tarapur      | 29 | Murud-Junjira  |
| 3  | Nawapur      | 30 | Rajpuri        |
| 4  | Satpati      | 31 | Mandad         |
| 5  | Kelwa-Mahim  | 32 | Kumbharu       |
| 6  | Arnala       | 33 | Shriwardhan    |
| 7  | Datiware     | 34 | Bankot         |
| 8  | Utthan       | 35 | Kelshi         |
| 9  | Bassein      | 36 | Harnai         |
| 10 | Bhiwandi     | 37 | Dabhol         |
| 11 | Manori       | 38 | Palshet        |
| 12 | Kalyan       | 39 | Borya          |
| 13 | Thane        | 40 | Jaigad         |
| 14 | Versova      | 41 | Tiwri - Waroda |
| 15 | Bandra       | 42 | Purnagad       |
| 16 | Trombay      | 43 | Jaitpur        |
| 17 | Ulwa-Belapur | 44 | Vijaydurg      |
| 18 | Panvel       | 45 | Deogad         |
| 19 | Mora         | 46 | Acharya        |
| 20 | Mandwa       | 47 | Malvan         |
| 21 | Karanja      | 48 | Niwti          |
| 22 | Thal         | 49 | Vengurla       |
| 23 | Rewas        | 50 | Redi           |
| 24 | Alibag       | 51 | Kiranpani      |
| 25 | Dharamtar    | 52 | Ratnagiri      |
| 26 | Revanda      | 53 | Dighi          |
| 27 | Borli/Mandla |    |                |

#### ANDAMAN & NICOBAR

#### DAMAN & DIU

|    |                   |    |                        |
|----|-------------------|----|------------------------|
| 1  | Port Blair        | 1  | Daman (N)              |
| 2  | Mus               | 2  | Diu (N)                |
| 3  | Car Nicobar       |    |                        |
| 4  | Havelock          |    |                        |
| 5  | Mayabunder        |    |                        |
| 6  | Diglipur          | 1  | Alpuzha (N)            |
| 7  | Rangat            | 2  | Vadakara (N)           |
| 8  | Hut Bay           | 3  | Kannur (N)             |
| 9  | Katchal           | 4  | Kasargode (N)          |
| 10 | Campbell Bay      | 5  | Kodungalore (N)        |
| 11 | Neil Haveloc      | 6  | Ponnani (N)            |
| 12 | Dugong Creek      | 7  | Thalassery (N)         |
| 13 | Nancowry          | 8  | Thiruvananthapuram (N) |
| 14 | Chowra            | 9  | Qutlon (N)             |
| 15 | Teresa            | 10 | Kozhikode/Bey pore (I) |
| 16 | Kondul            | 11 | Neendakara (I)         |
| 17 | Pillow Millow     | 12 | Azhikkal               |
| 18 | East Island       | 13 | Koavalam/Vizhinjam     |
| 19 | Cinque Island     |    |                        |
| 20 | Jolly Buoy Island |    |                        |
| 21 | Tillangchong      |    |                        |
| 22 | Castla Bay        | 1  | Pondicherry            |
| 23 | South Bay         |    |                        |

#### KERALA

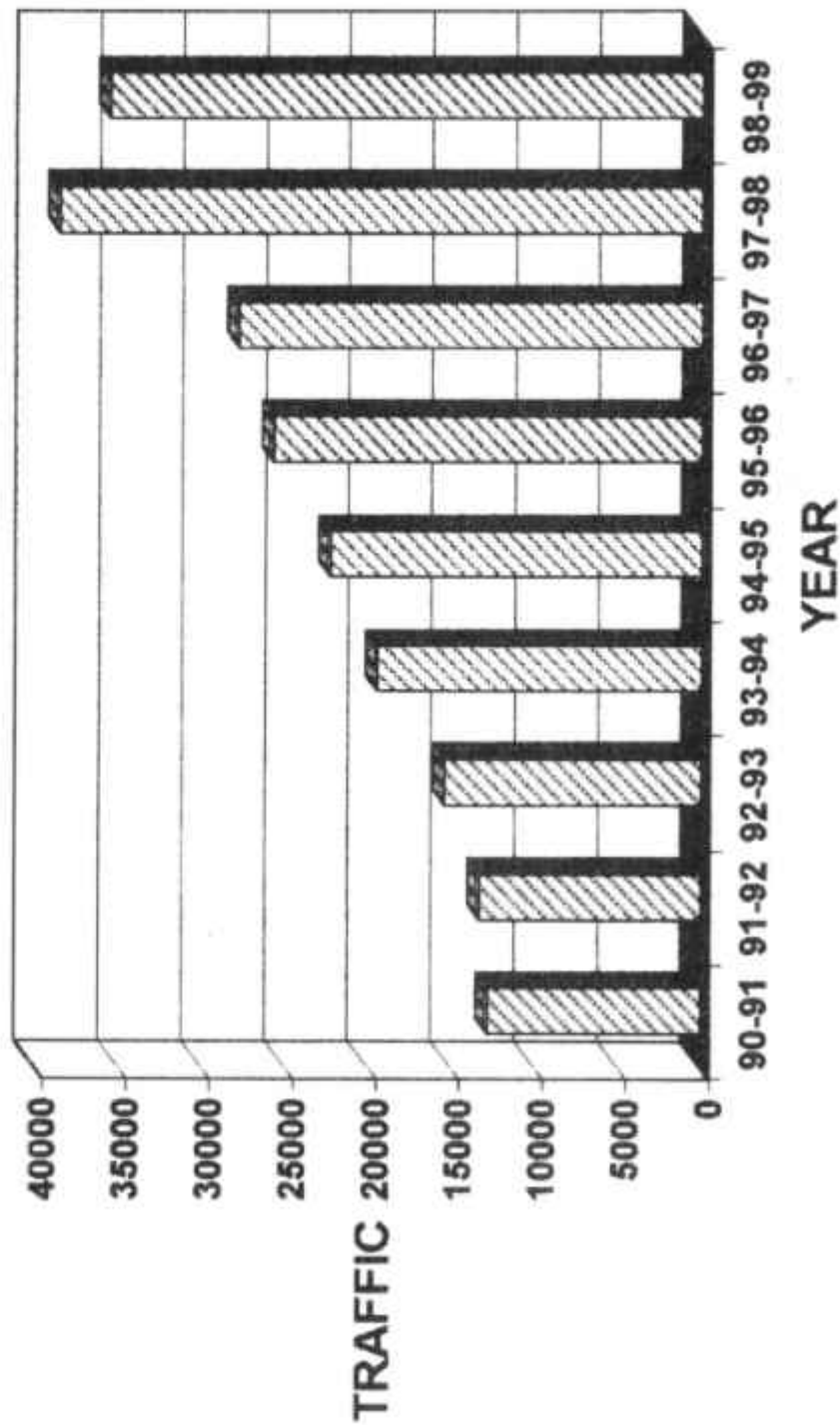
#### PONDICHERY

(N) Non - Working  
(I) Intermediate  
(C) Captive Ports

### 3.1.1 Growth Of Cargo Traffic Handled At Minor/Intermediate Ports

| Year       | ('000 Tonnes) |        |                    |       |          |        |       |          |                    |       |               |       |
|------------|---------------|--------|--------------------|-------|----------|--------|-------|----------|--------------------|-------|---------------|-------|
|            | Overseas      |        |                    |       | Coastal  |        |       |          | Overseas & Coastal |       |               |       |
|            | Unloaded      | Loaded | Transhi-<br>: ment | Total | Unloaded | Loaded | Total | Unloaded | Loaded             | Total | Transshipment | Total |
| 1          | 2             | 3      | 4                  | 5     | 6        | 7      | 8     | 9        | 10                 | 11    | 12            |       |
| 1987-88    | 1951          | 1941   | --                 | 3892  | 956      | 1070   | 2026  | 2907     | 3011               | --    | 5918          |       |
| 1988-89    | 4263          | 2890   | --                 | 7153  | 967      | 955    | 1922  | 5230     | 3845               | --    | 9075          |       |
| 1989-90    | 4244          | 4513   | --                 | 8757  | 1144     | 955    | 2099  | 5388     | 5468               | --    | 10856         |       |
| 1990-91    | 5713          | 3854   | --                 | 9567  | 1964     | 1251   | 3215  | 7677     | 5105               | --    | 12782         |       |
| 1991-92    | 4765          | 4104   | --                 | 8869  | 3016     | 1373   | 4389  | 7781     | 5477               | --    | 13258         |       |
| 1992-93    | 3908          | 4737   | 2325               | 10970 | 3094     | 1339   | 4433  | 7002     | 6076               | 2325  | 15403         |       |
| 1993-94    | 3637          | 6625   | 3948               | 14210 | 3839     | 1421   | 5260  | 7476     | 8046               | 3948  | 19470         |       |
| 1994-95    | 5397          | 6424   | 3209               | 15030 | 5367     | 1885   | 7252  | 10764    | 8309               | 3209  | 22282         |       |
| 1995-96    | 7064          | 8172   | 2887               | 18123 | 5116     | 2471   | 7587  | 12180    | 10643              | 2887  | 25710         |       |
| 1996-97    | 7376          | 7671   | 3393               | 18440 | 6115     | 3277   | 9392  | 13491    | 10948              | 3393  | 27832         |       |
| 1997-98    | 14246         | 10419  | 4498               | 29163 | 5221     | 4223   | 9444  | 19467    | 14642              | 4498  | 38607         |       |
| 1998-99(p) | 14882         | 8332   | 907                | 24121 | 6214     | 5273   | 11487 | 21096    | 13605              | 907   | 35608         |       |

# TRAFFIC HANDLED AT MINOR PORTS (IN THOUSAND TONNES)



3.1.2 State wise Cargo Traffic (Overseas/Coastal) Handled At Minor/Intermediate ports

(In '000 Tonnes)

| Year            | Gujarat | Mahara-<br>shtra | Goa  | Daman<br>& Diu | Karna-<br>taka | Kerala | Tamil-<br>Nadu | Pondi-<br>cherry | Andhra-<br>Pradesh | Orissa | Sea-<br>Islands | Total |
|-----------------|---------|------------------|------|----------------|----------------|--------|----------------|------------------|--------------------|--------|-----------------|-------|
| (1)             | (2)     | (3)              | (4)  | (5)            | (6)            | (7)    | (8)            | (9)              | (10)               | (11)   | (12)            | (13)  |
| <b>OVERSEAS</b> |         |                  |      |                |                |        |                |                  |                    |        |                 |       |
| 1987-88         | 2427    | 361              | Neg. | -              | 250            | 41     | 84             | 0                | 699                | 30     | ...             | 3892  |
| 1988-89         | 3878    | 620              | -    | -              | 504            | 272    | 306            | 413              | 1138               | 22     | ...             | 7153  |
| 1989-90         | 5031    | 1071             | -    | -              | 489            | 120    | 375            | 229              | 1374               | 68     | ...             | 8757  |
| 1990-91         | 6981    | 599              | 1    | -              | 418            | 86     | 227            | 70               | 1124               | 61     | -               | 9567  |
| 1991-92         | 6797    | 213              | -    | -              | 205            | 86     | 185            | 53               | 1180               | 150    | -               | 8869  |
| 1992-93         | 8488    | -                | -    | -              | 320            | 90     | 260            | 47               | 1560               | 205    | -               | 10970 |
| 1993-94         | 11901   | -                | -    | -              | 163            | 60     | 80             | 22               | 1772               | 212    | -               | 14210 |
| 1994-95         | 12828   | 27               | -    | -              | 281            | 162    | 124            | 26               | 1382               | 200    | -               | 15030 |
| 1995-96         | 14671   | 359              | -    | -              | 342            | 136    | 116            | 56               | 2269               | 174    | -               | 18123 |
| 1996-97         | 15103   | 1036             | 252  | -              | 284            | 52     | 34             | 45               | 1495               | 139    | -               | 18440 |
| 1997-98         | 22253   | 3710             | 858  | -              | 303            | 82     | 62             | Neg              | 1677               | 201    | 17              | 29163 |
| 1998-99(P)      | 16496   | 3285             | 1767 | -              | 162            | 82     | 79             | 23               | 2085               | 120    | 22              | 24121 |
| <b>COASTAL</b>  |         |                  |      |                |                |        |                |                  |                    |        |                 |       |
| 1987-88         | 1467    | 320              | Neg. | 3              | 167            | 41     | -              | -                | -                  | -      | 28 @            | 2026  |
| 1988-89         | 1469    | 242              | -    | 1              | 151            | 32     | -              | -                | -                  | -      | 27 @            | 1922  |
| 1989-90         | 1596    | 268              | -    | 1              | 164            | 37     | 1              | -                | -                  | -      | 32 @            | 2099  |
| 1990-91         | 2332    | 329              | -    | Neg.           | 193            | 44     | Neg.           | -                | -                  | -      | 317             | 3215  |
| 1991-92         | 3499    | 319              | 12   | Neg.           | 178            | 44     | -              | -                | -                  | -      | 337             | 4389  |
| 1992-93         | 3396    | 303              | 212  | Neg.           | 150            | 35     | -              | -                | -                  | -      | 337             | 4433  |
| 1993-94         | 3844    | 646              | 212  | -              | 147            | 39     | -              | -                | 35                 | -      | 337             | 5260  |
| 1994-95         | 4115    | 2419             | 212  | -              | 174            | 35     | -              | -                | 5                  | -      | 292             | 7252  |
| 1995-96         | 3810    | 3112             | 107  | -              | 181            | 48     | -              | -                | 34                 | -      | 295             | 7587  |
| 1996-97         | 4755    | 3208             | 143  | -              | 240            | 19     | -              | -                | 732                | -      | 295             | 9392  |
| 1997-98         | 5462    | 975              | 127  | -              | 201            | 34     | 206            | -                | 1861               | -      | 578             | 9444  |
| 1998-99(P)      | 6313    | 1865             | 386  | -              | 72             | 34     | 393            | -                | 1729               | -      | 695             | 11487 |

### 3.1.2 - State-Wise Cargo Traffic (Overseas/Coastal) Handled At Minor/Intermediate Ports (Contd.)

(In '000 Tonnes)

| Year         | Gujarat | Mahara-<br>shtra | Goa  | Daman<br>& Diu | Karna-<br>taka | Kerala | Tamil-<br>Nadu | Pondl-<br>cherry | Andhra-<br>Pradesh | Orissa | Sea-<br>Islands | Total |
|--------------|---------|------------------|------|----------------|----------------|--------|----------------|------------------|--------------------|--------|-----------------|-------|
| (1)          | (2)     | (3)              | (4)  | (5)            | (6)            | (7)    | (8)            | (9)              | (10)               | (11)   | (12)            | (13)  |
| <b>TOTAL</b> |         |                  |      |                |                |        |                |                  |                    |        |                 |       |
| 1987-88      | 3894    | 681              | -    | 3              | 417            | 82     | 84             | 0                | 699                | 30     | 28              | 5918  |
| 1988-89      | 5347    | 862              | -    | 1              | 655            | 304    | 306            | 413              | 1138               | 22     | 27              | 9075  |
| 1989-90      | 6627    | 1339             | -    | 1              | 653            | 157    | 376            | 229              | 1374               | 68     | 32              | 10856 |
| 1990-91      | 9313    | 928              | 1    | -              | 611            | 130    | 227            | 70               | 1124               | 61     | 317             | 12782 |
| 1991-92      | 10296   | 532              | 12   | -              | 383            | 130    | 185            | 53               | 1180               | 150    | 337             | 13258 |
| 1992-93      | 11884   | 303              | 212  | -              | 470            | 125    | 260            | 47               | 1560               | 205    | 337             | 15403 |
| 1993-94      | 15745   | 646              | 212  | -              | 310            | 99     | 80             | 22               | 1807               | 212    | 337             | 19470 |
| 1994-95      | 16943   | 2446             | 212  | -              | 455            | 197    | 124            | 26               | 1387               | 200    | 292             | 22282 |
| 1995-96      | 18481   | 3471             | 107  | -              | 523            | 184    | 116            | 56               | 2303               | 174    | 295             | 25710 |
| 1996-97      | 19858   | 4244             | 395  | -              | 524            | 71     | 34             | 45               | 2227               | 139    | 295             | 27832 |
| 1997-98      | 27715   | 4685             | 985  | -              | 504            | 116    | 268            | Neg              | 3538               | 201    | 595             | 38607 |
| 1998-99(P)   | 22809   | 5150             | 2153 | -              | 234            | 116    | 472            | 23               | 3814               | 120    | 717             | 35608 |

g Figures pertain to only Lakshadweep.

### 3.1.1.3 - State-Wise Cargo Traffic (Unloaded & Loaded) Handled At Minor/Intermediate Ports

(in '000 Tonnes)

| Year            | Gujarat | Mahara-<br>shtra | Goa  | Daman<br>& Diu | Karna-<br>taka | Kerala | Tamil-<br>Nadu | Pondi-<br>cherry | Andhra-<br>Pradesh | Orissa | Sea-<br>Islands | Total |
|-----------------|---------|------------------|------|----------------|----------------|--------|----------------|------------------|--------------------|--------|-----------------|-------|
| (1)             | (2)     | (3)              | (4)  | (5)            | (6)            | (7)    | (8)            | (9)              | (10)               | (11)   | (12)            | (13)  |
| <b>UNLOADED</b> |         |                  |      |                |                |        |                |                  |                    |        |                 |       |
| 1987-88         | 2159    | 339              | -    | 3              | 72             | 9      | 36             | -                | 262                | -      | 27              | 2907  |
| 1988-89         | 3102    | 239              | ...  | 1              | 356            | 175    | 258            | 413              | 659                | -      | 27              | 5230  |
| 1989-90         | 3495    | 254              | ...  | 1              | 344            | 40     | 326            | 229              | 642                | 26     | 31              | 5388  |
| 1990-91         | 5993    | 328              | ...  | Neg.           | 271            | 9      | 217            | 70               | 504                | 50     | 235             | 7677  |
| 1991-92         | 6245    | 305              | 6    | Neg.           | 223            | 9      | 182            | 53               | 402                | 118    | 238             | 7781  |
| 1992-93         | 7334    | 298              | 88   | Neg.           | 284            | 6      | 248            | 47               | 632                | 152    | 238             | 9327  |
| 1993-94         | 9532    | 622              | 88   | Neg.           | 164            | 1      | 62             | 22               | 545                | 150    | 238             | 11424 |
| 1994-95         | 10319   | 2301             | 88   | -              | 287            | 5      | 93             | 26               | 461                | 161    | 232             | 13973 |
| 1995-96         | 10152   | 3376             | 7    | -              | 333            | 15     | 114            | 56               | 671                | 104    | 239             | 15067 |
| 1996-97         | 11517   | 3979             | 219  | -              | 214            | 5      | 31             | 45               | 589                | 51     | 234             | 16884 |
| 1997-98         | 17410   | 4314             | 289  | -              | 220            | 14     | 62             | N                | 1192               | 56     | 408             | 23965 |
| 1998-99 (P)     | 14770   | 4904             | 206  | -              | 147            | 14     | 79             | 23               | 1393               | -      | 467             | 22003 |
| <b>LOADED</b>   |         |                  |      |                |                |        |                |                  |                    |        |                 |       |
| 1987-88         | 1735    | 342              | -    | -              | 345            | 73     | 48             | -                | 437                | 30     | 1               | 3011  |
| 1988-89         | 2245    | 623              | ...  | -              | 299            | 129    | 48             | -                | 479                | 22     | Neg.            | 3845  |
| 1989-90         | 3132    | 1085             | ...  | -              | 309            | 117    | 50             | -                | 732                | 42     | 1               | 5468  |
| 1990-91         | 3320    | 600              | 1    | -              | 340            | 121    | 10             | -                | 620                | 11     | 82              | 5105  |
| 1991-92         | 4051    | 227              | 6    | -              | 160            | 121    | 3              | -                | 778                | 32     | 99              | 5477  |
| 1992-93         | 4550    | 5                | 124  | -              | 186            | 119    | 12             | -                | 928                | 53     | 99              | 6076  |
| 1993-94         | 6213    | 24               | 124  | -              | 146            | 98     | 18             | -                | 1262               | 62     | 99              | 8046  |
| 1994-95         | 6624    | 145              | 124  | -              | 168            | 192    | 31             | -                | 926                | 39     | 60              | 8309  |
| 1995-96         | 8329    | 95               | 100  | -              | 190            | 169    | 2              | -                | 1632               | 70     | 56              | 10643 |
| 1996-97         | 8341    | 265              | 176  | -              | 310            | 66     | 3              | -                | 1638               | 88     | 61              | 10948 |
| 1997-98         | 10305   | 371              | 696  | -              | 284            | 102    | 206            | -                | 2346               | 145    | 187             | 14642 |
| 1998-99 (P)     | 8039    | 246              | 1947 | -              | 87             | 102    | 393            | -                | 2421               | 120    | 250             | 13605 |

3.1.3 - State-Wise Cargo Traffic (Unloaded & Loaded) Handled At Minor/Intermediate Ports (Contd.)

(in '000 Tonnes)

| Year         | Gujarat | Mahara-<br>ashtra | Goa  | Daman<br>& Diu | Karna-<br>taka | Kerala | Tamil-<br>Nadu | Pondl-<br>cherry | Andhra-<br>Pradesh | Orissa | Sea-<br>Islands | Total |
|--------------|---------|-------------------|------|----------------|----------------|--------|----------------|------------------|--------------------|--------|-----------------|-------|
| (1)          | (2)     | (3)               | (4)  | (5)            | (6)            | (7)    | (8)            | (9)              | (10)               | (11)   | (12)            | (13)  |
| <b>TOTAL</b> |         |                   |      |                |                |        |                |                  |                    |        |                 |       |
| 1987-88      | 3894    | 681               | -    | 3              | 417            | 82     | 84             | -                | 699                | 30     | 28              | 5918  |
| 1988-89      | 5347    | 862               | -    | 1              | 655            | 304    | 306            | 413              | 1138               | 22     | 27              | 9075  |
| 1989-90      | 6627    | 1339              | -    | 1              | 653            | 157    | 376            | 229              | 1374               | 68     | 32              | 10856 |
| 1990-91      | 9313    | 928               | 1    | -              | 611            | 130    | 227            | 70               | 1124               | 61     | 317             | 12782 |
| 1991-92      | 10296   | 532               | 12   | -              | 383            | 130    | 185            | 53               | 1180               | 150    | 337             | 13258 |
| 1992-93      | 11884   | 303               | 212  | -              | 470            | 125    | 260            | 47               | 1560               | 205    | 337             | 15403 |
| 1993-94      | 15745   | 646               | 212  | -              | 310            | 99     | 80             | 22               | 1807               | 212    | 337             | 19470 |
| 1994-95      | 16943   | 2446              | 212  | -              | 455            | 197    | 124            | 26               | 1387               | 200    | 292             | 22282 |
| 1995-96      | 18481   | 3471              | 107  | -              | 523            | 184    | 116            | 56               | 2303               | 174    | 295             | 25710 |
| 1996-97      | 19858   | 4244              | 395  | -              | 524            | 71     | 34             | 45               | 2227               | 139    | 295             | 27832 |
| 1997-98      | 27715   | 4685              | 985  | -              | 504            | 116    | 268            | -                | 3538               | 201    | 595             | 38607 |
| 1998-99 (P)  | 22809   | 5150              | 2153 | -              | 234            | 116    | 472            | 23               | 3814               | 120    | 717             | 35608 |

### 3.1.4 Cargo Traffic Handled At Minor/Intermediate Ports (State-Wise)

| (In '000 Tonnes)   |          |          |         |          |          |         |                    |          |         |
|--------------------|----------|----------|---------|----------|----------|---------|--------------------|----------|---------|
| States<br>U.T.     | Overseas |          |         | Coastal  |          |         | Overseas & Coastal |          |         |
|                    | Unloaded | : Loaded | : Total | Unloaded | : Loaded | : Total | Unloaded           | : Loaded | : Total |
| (1)                | (2)      | (3)      | (4)     | (5)      | (6)      | (7)     | (8)                | (9)      | (10)    |
| <b>Gujarat</b>     |          |          |         |          |          |         |                    |          |         |
| 1987-88            | 1605     | 822      | 2427    | 554      | 913      | 1467    | 2159               | 1735     | 3894    |
| 1988-89            | 2477     | 1401     | 3878    | 625      | 844      | 1469    | 3102               | 2245     | 5347    |
| 1989-90            | 2735     | 2296     | 5031    | 760      | 836      | 1596    | 3495               | 3132     | 6627    |
| 1990-91            | 4713     | 2268     | 6981    | 1280     | 1052     | 2332    | 5993               | 3320     | 9313    |
| 1991-92            | 3894     | 2903     | 6797    | 2351     | 1148     | 3499    | 6245               | 4051     | 10296   |
| 1992-93            | 4962     | 3526     | 8488    | 2372     | 1024     | 3396    | 7334               | 4550     | 11884   |
| 1993-94            | 6759     | 5142     | 11901   | 2773     | 1071     | 3844    | 9532               | 6213     | 15745   |
| 1994-95            | 7679     | 5149     | 12828   | 2640     | 1475     | 4115    | 10319              | 6624     | 16943   |
| 1995-96            | 8466     | 6205     | 14671   | 1686     | 2124     | 3810    | 10152              | 8329     | 18481   |
| 1996-97            | 8912     | 6191     | 15103   | 2605     | 2150     | 4755    | 11517              | 8341     | 19858   |
| 1997-98            | 13587    | 8666     | 22253   | 3823     | 1639     | 5462    | 17410              | 10305    | 27715   |
| 1998-99 (P)        | 11301    | 5195     | 16496   | 3469     | 2844     | 6313    | 14770              | 8039     | 22809   |
| <b>MAHARASHTRA</b> |          |          |         |          |          |         |                    |          |         |
| 1987-88            | 30       | 331      | 361     | 309      | 11       | 320     | 339                | 342      | 681     |
| 1988-89            | -        | 620      | 620     | 239      | 3        | 242     | 239                | 623      | 862     |
| 1989-90            | -        | 1071     | 1071    | 254      | 14       | 268     | 254                | 1085     | 1339    |
| 1990-91            | -        | 599      | 599     | 328      | 1        | 329     | 328                | 600      | 928     |
| 1991-92            | -        | 213      | 213     | 305      | 14       | 319     | 305                | 227      | 532     |
| 1992-93            | -        | -        | -       | 298      | 5        | 303     | 298                | 5        | 303     |
| 1993-94            | -        | -        | -       | 622      | 24       | 646     | 622                | 24       | 646     |
| 1994-95            | -        | 27       | 27      | 2301     | 118      | 2419    | 2301               | 145      | 2446    |
| 1995-96            | 332      | 27       | 359     | 3044     | 68       | 3112    | 3376               | 95       | 3471    |
| 1996-97            | 899      | 137      | 1036    | 3080     | 128      | 3208    | 3979               | 265      | 4244    |
| 1997-98            | 3519     | 191      | 3710    | 795      | 180      | 975     | 4314               | 371      | 4685    |
| 1998-99 (P)        | 3156     | 129      | 3285    | 1748     | 117      | 1865    | 4904               | 246      | 5150    |

# 3.1.4 Cargo Traffic Handled At Minor/Intermediate Ports (State-Wise) (Contd..)

(In '000 Tonnes)

| States<br>U.T.                                                                         | Overseas | Coastal | Overseas & Coastal |      |     |      |      |      |      |      |
|----------------------------------------------------------------------------------------|----------|---------|--------------------|------|-----|------|------|------|------|------|
| :<br>Unloaded : Loaded : Total : Unloaded : Loaded : Total : Unloaded : Loaded : Total | (1)      | (2)     | (3)                | (4)  | (5) | (6)  | (7)  | (8)  | (9)  | (10) |
| GOA                                                                                    |          |         |                    |      |     |      |      |      |      |      |
| 1987-88                                                                                | Neg      | -       | -                  | Neg. | -   | -    | -    | -    | -    | -    |
| 1988-89                                                                                | ...      | ...     | ...                | ...  | ... | ...  | ...  | ...  | ...  | ...  |
| 1989-90                                                                                | ...      | ...     | ...                | ...  | ... | ...  | ...  | ...  | ...  | ...  |
| 1990-91                                                                                | -        | 1       | 1                  | -    | 6   | 6    | 12   | 6    | 1    | 1    |
| 1991-92                                                                                | -        | -       | -                  | 6    | 124 | 124  | 212  | 88   | 6    | 12   |
| 1992-93                                                                                | -        | -       | -                  | 88   | 124 | 212  | 212  | 88   | 124  | 212  |
| 1993-94                                                                                | -        | -       | -                  | 88   | 124 | 212  | 212  | 88   | 124  | 212  |
| 1994-95                                                                                | -        | -       | -                  | 88   | 124 | 212  | 212  | 88   | 124  | 212  |
| 1995-96                                                                                | -        | -       | -                  | 7    | 100 | 107  | 107  | 7    | 100  | 107  |
| 1996-97                                                                                | 167      | 85      | 252                | 52   | 91  | 143  | 143  | 219  | 176  | 395  |
| 1997-98                                                                                | 236      | 622     | 858                | 53   | 74  | 127  | 127  | 289  | 696  | 985  |
| 1998-99 (P)                                                                            | 104      | 1663    | 1767               | 102  | 284 | 386  | 386  | 206  | 1947 | 2153 |
| Daman & Diu                                                                            |          |         |                    |      |     |      |      |      |      |      |
| 1987-88                                                                                | -        | -       | -                  | 3    | -   | 3    | 3    | 3    | -    | 3    |
| 1988-89                                                                                | -        | -       | -                  | 1    | -   | 1    | 1    | 1    | -    | 1    |
| 1989-90                                                                                | -        | -       | -                  | 1    | -   | 1    | 1    | 1    | -    | 1    |
| 1990-91                                                                                | -        | -       | -                  | Neg. | -   | Neg. | Neg. | Neg. | -    | Neg. |
| 1991-92                                                                                | -        | -       | -                  | Neg. | -   | Neg. | Neg. | Neg. | -    | Neg. |
| 1992-93                                                                                | -        | -       | -                  | Neg. | -   | Neg. | Neg. | Neg. | -    | Neg. |
| 1993-94                                                                                | -        | -       | -                  | Neg. | -   | Neg. | Neg. | Neg. | -    | Neg. |
| 1994-95                                                                                | -        | -       | -                  | -    | -   | -    | -    | -    | -    | -    |
| 1995-96                                                                                | -        | -       | -                  | -    | -   | -    | -    | -    | -    | -    |
| 1996-97                                                                                | -        | -       | -                  | -    | -   | -    | -    | -    | -    | -    |
| 1997-98                                                                                | -        | -       | -                  | -    | -   | -    | -    | -    | -    | -    |
| 1998-99 (P)                                                                            | -        | -       | -                  | -    | -   | -    | -    | -    | -    | -    |

3.1.4 Cargo Traffic Handled At Minor/Intermediate Ports (State-Wise) (Contd..)

|                  |      | (In '000 Tonnes) |          |         |            |                    |            |          |         |
|------------------|------|------------------|----------|---------|------------|--------------------|------------|----------|---------|
| States<br>U.P.   |      | Overseas         |          | Coastal |            | Overseas & Coastal |            |          |         |
|                  |      | : Unloaded       | : Loaded | : Total | : Unloaded | : Total            | : Unloaded | : Loaded | : Total |
| (1)              | (2)  | (3)              | (4)      | (5)     | (6)        | (7)                | (8)        | (9)      | (10)    |
| <b>KARNATAKA</b> |      |                  |          |         |            |                    |            |          |         |
| 1987-88          | 18   | 232              | 250      | 54      | 113        | 167                | 72         | 345      | 417     |
| 1988-89          | 285  | 219              | 504      | 71      | 80         | 151                | 356        | 299      | 655     |
| 1989-90          | 250  | 239              | 489      | 94      | 70         | 164                | 344        | 309      | 653     |
| 1990-91          | 159  | 259              | 418      | 112     | 81         | 193                | 271        | 340      | 611     |
| 1991-92          | 116  | 89               | 205      | 107     | 71         | 178                | 223        | 160      | 383     |
| 1992-93          | 192  | 128              | 320      | 92      | 58         | 150                | 284        | 186      | 470     |
| 1993-94          | 81   | 82               | 163      | 83      | 64         | 147                | 164        | 146      | 310     |
| 1994-95          | 186  | 95               | 281      | 101     | 73         | 174                | 287        | 168      | 455     |
| 1995-96          | 242  | 100              | 342      | 91      | 90         | 181                | 333        | 190      | 523     |
| 1996-97          | 85   | 199              | 284      | 129     | 111        | 240                | 214        | 310      | 524     |
| 1997-98          | 134  | 169              | 303      | 86      | 115        | 201                | 220        | 284      | 504     |
| 1998-99 (P)      | 75   | 87               | 162      | 72      | -          | 72                 | 147        | 87       | 234     |
| <b>KERALA</b>    |      |                  |          |         |            |                    |            |          |         |
| 1987-88          | -    | 41               | 41       | 9       | 32         | 41                 | 9          | 73       | 82      |
| 1988-89          | 171  | 101              | 272      | 4       | 28         | 32                 | 175        | 129      | 304     |
| 1989-90          | 36   | 84               | 120      | 4       | 33         | 37                 | 40         | 117      | 157     |
| 1990-91          | Neg. | 86               | 86       | 9       | 35         | 44                 | 9          | 121      | 130     |
| 1991-92          | Neg. | 86               | 86       | 9       | 35         | 44                 | 9          | 121      | 130     |
| 1992-93          | -    | 90               | 90       | 6       | 29         | 35                 | 6          | 119      | 125     |
| 1993-94          | 1    | 59               | 60       | -       | 39         | 39                 | 1          | 98       | 99      |
| 1994-95          | 5    | 157              | 162      | -       | 35         | 35                 | 5          | 192      | 197     |
| 1995-96          | -    | 136              | 136      | 15      | 33         | 48                 | 15         | 169      | 184     |
| 1996-97          | -    | 52               | 52       | 5       | 14         | 19                 | 5          | 66       | 71      |
| 1997-98          | -    | 82               | 82       | 14      | 20         | 34                 | 14         | 102      | 116     |
| 1998-99 (P)      | -    | 82               | 82       | 14      | 20         | 34                 | 14         | 102      | 116     |

# 3.1.4 Cargo Traffic Handled At Minor/Intermediate Ports (State-Wise) (Contd..)

(In '000 Tonnes)

| States<br>U.T. | Overseas | Coastal | Overseas & Coastal |        |       |      |     |      |     |
|----------------|----------|---------|--------------------|--------|-------|------|-----|------|-----|
| Unloaded       | Loaded   | Total   | Unloaded           | Loaded | Total |      |     |      |     |
| (2)            | (3)      | (4)     | (5)                | (6)    | (7)   | (8)  | (9) | (10) |     |
| TAMILNADU      |          |         |                    |        |       |      |     |      |     |
| 1987-88        | 36       | 48      | 84                 | -      | -     | -    | 36  | 48   | 84  |
| 1988-89        | 258      | 48      | 306                | -      | Neg.  | -    | 258 | 48   | 306 |
| 1989-90        | 326      | 49      | 375                | -      | 1     | 1    | 326 | 50   | 376 |
| 1990-91        | 217      | 10      | 227                | Neg.   | -     | -    | 217 | 10   | 227 |
| 1991-92        | 182      | 3       | 185                | -      | -     | -    | 182 | 3    | 185 |
| 1992-93        | 248      | 12      | 260                | -      | -     | -    | 248 | 12   | 260 |
| 1993-94        | 62       | 18      | 80                 | -      | -     | -    | 62  | 18   | 80  |
| 1994-95        | 93       | 31      | 124                | -      | -     | -    | 93  | 31   | 124 |
| 1995-96        | 114      | 2       | 116                | -      | -     | -    | 114 | 2    | 116 |
| 1996-97        | 31       | 3       | 34                 | -      | -     | -    | 31  | 3    | 34  |
| 1997-98        | 62       | -       | 62                 | -      | Neg.  | Neg. | 62  | 206  | 268 |
| 1998-99 (P)    | 79       | -       | 79                 | -      | 393   | 393  | 79  | 393  | 472 |
| PONDICHERY     |          |         |                    |        |       |      |     |      |     |
| 1987-88        | -        | -       | -                  | -      | -     | -    | -   | -    | -   |
| 1988-89        | 413      | -       | 413                | -      | -     | -    | 413 | -    | 413 |
| 1989-90        | 229      | -       | 229                | -      | -     | -    | 229 | -    | 229 |
| 1990-91        | 70       | -       | 70                 | -      | -     | -    | 70  | -    | 70  |
| 1991-92        | 53       | -       | 53                 | -      | -     | -    | 53  | -    | 53  |
| 1992-93        | 47       | -       | 47                 | -      | -     | -    | 47  | -    | 47  |
| 1993-94        | 22       | -       | 22                 | -      | -     | -    | 22  | -    | 22  |
| 1994-95        | 26       | -       | 26                 | -      | -     | -    | 26  | -    | 26  |
| 1995-96        | 56       | -       | 56                 | -      | -     | -    | 56  | -    | 56  |
| 1996-97        | 45       | -       | 45                 | -      | -     | -    | 45  | -    | 45  |
| 1997-98        | N        | -       | N                  | -      | -     | -    | N   | -    | N   |
| 1998-99 (P)    | 23       | -       | 23                 | -      | -     | -    | 23  | -    | 23  |

3.1.4 Cargo Traffic Handled At Minor/Intermediate Ports (State-wise) (Contd.)

| States<br>U.T.        | (In '000 Tonnes) |          |         |            |          |         |            |          |         |  |
|-----------------------|------------------|----------|---------|------------|----------|---------|------------|----------|---------|--|
|                       | Overseas         |          |         |            |          | Coastal |            |          |         |  |
|                       | Unloaded         | : Loaded | : Total | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded | : Total |  |
| (1)                   | (2)              | (3)      | (4)     | (5)        | (6)      | (7)     | (8)        | (9)      | (10)    |  |
| <b>ANDHRA PRADESH</b> |                  |          |         |            |          |         |            |          |         |  |
| 1987-88               | 262              | 437      | 699     | -          | -        | -       | 262        | 437      | 699     |  |
| 1988-89               | 659              | 479      | 1138    | -          | -        | -       | 659        | 479      | 1138    |  |
| 1989-90               | 642              | 732      | 1374    | -          | -        | -       | 642        | 732      | 1374    |  |
| 1990-91               | 504              | 620      | 1124    | -          | -        | -       | 504        | 620      | 1124    |  |
| 1991-92               | 402              | 778      | 1180    | -          | -        | -       | 402        | 778      | 1180    |  |
| 1992-93               | 632              | 928      | 1560    | -          | -        | -       | 632        | 928      | 1560    |  |
| 1993-94               | 510              | 1262     | 1772    | 35         | -        | 35      | 545        | 1262     | 1807    |  |
| 1994-95               | 456              | 926      | 1382    | 5          | -        | 5       | 461        | 926      | 1387    |  |
| 1995-96               | 637              | 1632     | 2269    | 34         | -        | 34      | 671        | 1632     | 2303    |  |
| 1996-97               | 579              | 916      | 1495    | 10         | 722      | 732     | 589        | 1638     | 2227    |  |
| 1997-98               | 1133             | 544      | 1677    | 59         | 1802     | 1861    | 1192       | 2346     | 3538    |  |
| 1998-99 (P)           | 1029             | 1056     | 2085    | 364        | 1365     | 1729    | 1393       | 2421     | 3814    |  |
| <b>ORISSA</b>         |                  |          |         |            |          |         |            |          |         |  |
| 1987-88               | -                | 30       | 30      | -          | -        | -       | -          | 30       | 30      |  |
| 1988-89               | -                | 22       | 22      | -          | -        | -       | -          | 22       | 22      |  |
| 1989-90               | 26               | 42       | 68      | -          | -        | -       | 26         | 42       | 68      |  |
| 1990-91               | 50               | 11       | 61      | -          | -        | -       | 50         | 11       | 61      |  |
| 1991-92               | 118              | 32       | 150     | -          | -        | -       | 118        | 32       | 150     |  |
| 1992-93               | 152              | 53       | 205     | -          | -        | -       | 152        | 53       | 205     |  |
| 1993-94               | 150              | 62       | 212     | -          | -        | -       | 150        | 62       | 212     |  |
| 1994-95               | 161              | 39       | 200     | -          | -        | -       | 161        | 39       | 200     |  |
| 1995-96               | 104              | 70       | 174     | -          | -        | -       | 104        | 70       | 174     |  |
| 1996-97               | 51               | 88       | 139     | -          | -        | -       | 51         | 88       | 139     |  |
| 1997-98               | 56               | 145      | 201     | -          | -        | -       | 56         | 145      | 201     |  |
| 1998-99 (P)           | -                | 120      | 120     | -          | -        | -       | -          | 120      | 120     |  |

# 3.1.4 Cargo Traffic Handled At Minor/Intermediate Ports (State-Wise) (Contd.)

(In '000 Tonnes)

| States<br>U.T.       | Overseas          | Coastal                   | Overseas & Coastal        | Total |
|----------------------|-------------------|---------------------------|---------------------------|-------|
|                      | Unloaded : Loaded | Total : Unloaded : Loaded | Total : Unloaded : Loaded | Total |
| (1)                  | (2)               | (3)                       | (4)                       | (5)   |
| (1)                  | (2)               | (3)                       | (4)                       | (5)   |
| (6)                  | (7)               | (8)                       | (9)                       | (10)  |
| <b>SEA ISLANDS</b>   |                   |                           |                           |       |
| <b>ANDAMAN GROUP</b> |                   |                           |                           |       |
| 1987-88              | ...               | ...                       | ...                       | ...   |
| 1988-89              | ...               | ...                       | ...                       | ...   |
| 1989-90              | ...               | ...                       | ...                       | ...   |
| 1990-91              | ...               | ...                       | ...                       | ...   |
| 1991-92              | ...               | ...                       | ...                       | ...   |
| 1992-93              | ...               | ...                       | ...                       | ...   |
| 1993-94              | ...               | ...                       | ...                       | ...   |
| 1994-95              | ...               | ...                       | ...                       | ...   |
| 1995-96              | ...               | ...                       | ...                       | ...   |
| 1996-97              | ...               | ...                       | ...                       | ...   |
| 1997-98              | ...               | ...                       | ...                       | ...   |
| 1998-99 (P)          | ...               | ...                       | ...                       | ...   |
| <b>Lakshadweep</b>   |                   |                           |                           |       |
| 1987-88              | ...               | ...                       | ...                       | ...   |
| 1988-89              | ...               | ...                       | ...                       | ...   |
| 1989-90              | ...               | ...                       | ...                       | ...   |
| 1990-91              | ...               | ...                       | ...                       | ...   |
| 1991-92              | ...               | ...                       | ...                       | ...   |
| 1992-93              | ...               | ...                       | ...                       | ...   |
| 1993-94              | ...               | ...                       | ...                       | ...   |
| 1994-95              | ...               | ...                       | ...                       | ...   |
| 1995-96              | ...               | ...                       | ...                       | ...   |
| 1996-97              | ...               | ...                       | ...                       | ...   |
| 1997-98              | ...               | ...                       | ...                       | ...   |
| 1998-99 (P)          | ...               | ...                       | ...                       | ...   |

3.1.4 Cargo Traffic Handled At Minor/Intermediate Ports (State-Wise) (Contd..)

(In '000 Tonnes)

| States<br>U.T. | Overseas   |          | Coastal |            | Overseas & Coastal |         |       |       |       |
|----------------|------------|----------|---------|------------|--------------------|---------|-------|-------|-------|
|                | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded           | : Total |       |       |       |
| (1)            | (2)        | (3)      | (4)     | (5)        | (6)                | (7)     | (8)   | (9)   | (10)  |
| TOTAL          |            |          |         |            |                    |         |       |       |       |
| 1987-88        | 1951       | 1941     | 3892    | 956        | 1070               | 2026    | 2907  | 3011  | 5918  |
| 1988-89        | 4263       | 2890     | 7153    | 967        | 955                | 1922    | 5230  | 3845  | 9075  |
| 1989-90        | 4244       | 4513     | 8757    | 1144       | 955                | 2099    | 5388  | 5468  | 10856 |
| 1990-91        | 5713       | 3854     | 9567    | 1964       | 1251               | 3215    | 7677  | 5105  | 12782 |
| 1991-92        | 4765       | 4104     | 8869    | 3016       | 1373               | 4389    | 7781  | 5477  | 13258 |
| 1992-93        | 6233       | 4737     | 10970   | 3094       | 1339               | 4433    | 9327  | 6076  | 15403 |
| 1993-94        | 7585       | 6625     | 14210   | 3839       | 1421               | 5260    | 11424 | 8046  | 19470 |
| 1994-95        | 8606       | 6424     | 15030   | 5367       | 1885               | 7252    | 13973 | 8309  | 22282 |
| 1995-96        | 9951       | 8172     | 18123   | 5116       | 2471               | 7587    | 15067 | 10643 | 25710 |
| 1996-97        | 10769      | 7671     | 18440   | 6115       | 3277               | 9392    | 16884 | 10948 | 27832 |
| 1997-98        | 18744      | 10419    | 29163   | 5221       | 4223               | 9444    | 23965 | 14642 | 38607 |
| 1998-99        | 15789      | 8332     | 24121   | 6214       | 5273               | 11487   | 22003 | 13605 | 35608 |

### 3.1.5 Transshipment Traffic

(In '000 Tonnes)

| State/Port            | Commodity           | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 |
|-----------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Gujarat</b>        |                     |         |         |         |         |         |         |         |
| Sikka                 | Crude Oil           | 1909    | 3603    | 2522    | 2663    | 3348    | 3668    | 370     |
| Bedi                  | Iron Ore            | -       | -       | 60      | -       | -       | -       | -       |
|                       | Coal Cargo          | 24      | -       | -       | -       | -       | -       | -       |
| Bhavnagar             | Iron Ore            | 269     | 276     | 284     | 46      | -       | -       | -       |
|                       | Celibrated Iron Ore | -       | 58      | 192     | 32      | -       | -       | -       |
|                       | Clinker             | -       | -       | 57      | 57      | -       | 609*    | 427*    |
|                       | HBI                 | -       | 8       | 56      | 88      | -       | -       | -       |
|                       | Steel Scrap         | -       | -       | 38      | -       | -       | -       | -       |
| Magdalla              |                     | -       | -       | -       | -       | -       | 2 21*   | 110*    |
| <b>Andhra Pradesh</b> |                     |         |         |         |         |         |         |         |
| Kaklnada              | Wheat               | 123     | -       | -       | -       | -       | -       | -       |
| Maharashtra           | General cargo       | -       | 3       | -       | -       | -       | -       | -       |
| <b>Tamilnadu</b>      |                     |         |         |         |         |         |         |         |
| Cuddalore             |                     | -       | -       | -       | 1       | -       | -       | -       |
| Pondicherry           | Black Feed Oil      | -       | -       | -       | -       | 45      | -       | -       |
| Total Transshipment   |                     | 2325    | 3948    | 3209    | 2687    | 3393    | 4498    | 907     |

\* Commoditywise details are not available.

### 3.1.6 Overseas Cargo Traffic Handled in Principal Commodities

| (In '000 Tonnes)   |          |        |       |          |        |       |          |        |       |  |
|--------------------|----------|--------|-------|----------|--------|-------|----------|--------|-------|--|
| Commodity          | 1995-96  |        |       | 1996-97  |        |       | 1997-98  |        |       |  |
|                    | Unloaded | Loaded | Total | Unloaded | Loaded | Total | Unloaded | Loaded | Total |  |
| 1                  | 2        | 3      | 4     | 5        | 6      | 7     | 8        | 9      | 10    |  |
| <b>GUJARAT</b>     | 8466     | 6205   | 14671 | 8912     | 6191   | 15103 | 13587    | 8666   | 22253 |  |
| Fertilizer         |          |        |       |          |        |       |          |        |       |  |
| & Raw Material     | 1460     | -      | 1460  | 1393     | -      | 1393  | 3182     | -      | 3182  |  |
| Iron Ore           | 915      | 79     | 994   | 500      | -      | 500   | 201      | -      | 201   |  |
| Building Material  | 2        | 1112   | 1114  | 1        | 1460   | 1461  | -        | 3353   | 3353  |  |
| Oil Cakes          | -        | 2042   | 2042  | -        | 2149   | 2149  | -        | 2138   | 2138  |  |
| Coke               | 1679     | -      | 1679  | 1912     | -      | 1912  | 3415     | -      | 3415  |  |
| Oil Cargo          | 2673     | -      | 2673  | 3348     | -      | 3348  | 3667     | -      | 3667  |  |
| Others             | 1737     | 2972   | 4709  | 1758     | 2582   | 4340  | 3122     | 3175   | 6297  |  |
| <b>MAHARASHTRA</b> | 332      | 27     | 359   | 899      | 137    | 1036  | 3519     | 191    | 3710  |  |
| Ethylene           | 154      | -      | 154   | 88       | -      | 88    | 31       | -      | 31    |  |
| Iron Ore *         | 178      | 27     | 205   | 792      | 137    | 929   | 2468     | 167    | 2635  |  |
| Thermal Coal       | -        | -      | -     | -        | -      | -     | 851      | -      | 851   |  |
| Others             | -        | -      | -     | 19       | -      | 19    | 169      | 24     | 193   |  |
| <b>GOA</b>         | -        | -      | -     | 167      | 85     | 252   | 236      | 622    | 858   |  |
| Coal               | -        | -      | -     | 122      | 63     | 185   | 236      | -      | 236   |  |
| Iron ore           | -        | -      | -     | 45       | -      | 45    | -        | 622    | 622   |  |
| Others             | -        | -      | -     | -        | 22     | 22    | -        | -      | -     |  |
| <b>KARNATAKA</b>   | 242      | 100    | 342   | 85       | 199    | 284   | 134      | 169    | 303   |  |
| Fertilizer         |          |        |       |          |        |       |          |        |       |  |
| & Raw Material     | 242      | -      | 242   | 38       | -      | 38    | 92       | -      | 92    |  |
| Chemicals          | -        | 12     | 12    | -        | 2      | 2     | -        | 5      | 5     |  |
| Foodgrains         | -        | -      | -     | 47       | -      | 47    | 22       | 2      | 24    |  |
| Granite            | -        | 88     | 88    | -        | 94     | 94    | -        | 159    | 159   |  |
| Others             | -        | -      | -     | -        | 103    | 103   | 20       | 3      | 23    |  |

\*Includes Iron ore, Pallets & Hot briquetted iron.

### 3.1.6 Overseas Cargo Traffic Handled in Principal Commodities (Contd.)

| Commodity                 | (In '000 Tonnes) |          |         |            |          |         |            |          |         |  |  |
|---------------------------|------------------|----------|---------|------------|----------|---------|------------|----------|---------|--|--|
|                           | 1995-96          |          |         | 1996-97    |          |         | 1997-98    |          |         |  |  |
|                           | : Unloaded       | : Loaded | : Total | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded | : Total |  |  |
| 1                         | 2                | 3        | 5       | 6          | 7        | 8       | 9          | 10       | 11      |  |  |
| <b>KERALA</b>             |                  |          |         |            |          |         |            |          |         |  |  |
| Ilmenite                  | -                | 136      | 136     | -          | 52       | 52      | -          | 82       | 82      |  |  |
| Others                    | -                | 136      | 136     | -          | 51       | 51      | -          | 81       | 81      |  |  |
| <b>TAMILNADU</b>          | 114              | 2        | 116     | 31         | 3        | 34      | 62         | -        | 62      |  |  |
| Other Ores                | 26               | -        | 26      | -          | -        | -       | -          | -        | -       |  |  |
| Fertilizer                | 73               | -        | 73      | 8          | -        | 8       | 15         | -        | 15      |  |  |
| Liquid Ammonia            | -                | -        | -       | -          | -        | -       | 41         | -        | 41      |  |  |
| Others                    | 15               | 2        | 17      | 23         | 3        | 26      | 6          | -        | 6       |  |  |
| <b>ANDHRA PRADESH</b>     | 637              | 1632     | 2269    | 579        | 916      | 1495    | 1133       | 544      | 1677    |  |  |
| Fertilizer & Raw Material | 608              | -        | 608     | 360        | -        | 360     | 584        | -        | 584     |  |  |
| Foodgrain                 | -                | 855      | 855     | 86         | 139      | 225     | 118        | 257      | 375     |  |  |
| Others                    | 29               | 777      | 806     | 133        | 777      | 910     | 431        | 287      | 718     |  |  |
| <b>PONDICHERY</b>         | 56               | -        | 56      | 45         | -        | 45      | N          | -        | N       |  |  |
| Fertiliser                | 56               | -        | 56      | -          | -        | -       | N          | -        | N       |  |  |
| Black Feed oil            | -                | -        | -       | 45         | -        | 45      | N          | -        | N       |  |  |

3.1.6 Overseas Cargo Traffic Handled in Principal Commodities (Contd..)

|                                      |      | (In '000 Tonnes)         |       |                          |      |                          |       |       |       |  |  |
|--------------------------------------|------|--------------------------|-------|--------------------------|------|--------------------------|-------|-------|-------|--|--|
|                                      |      | 1995-96                  |       | 1996-97                  |      | 1997-98                  |       |       |       |  |  |
| Commodity                            |      | :                        |       | :                        |      | :                        |       |       |       |  |  |
|                                      |      | :Unloaded :Loaded :Total |       | :Unloaded :Loaded :Total |      | :Unloaded :Loaded :Total |       |       |       |  |  |
| 1                                    | 2    | 3                        | 5     | 6                        | 7    | 8                        | 9     | 10    | 11    |  |  |
| <b>Orissa</b>                        | 104  | 70                       | 174   | 51                       | 88   | 139                      | 56    | 145   | 201   |  |  |
| Fertiliser                           | 104  | 70                       | 174   | 51                       | 88   | 139                      | 56    | -     | 56    |  |  |
| Illmenite                            | -    | -                        | -     | -                        | -    | -                        | -     | 145   | 145   |  |  |
| <b>Andaman &amp; Nicobar Islands</b> | -    | -                        | -     | -                        | -    | -                        | 17    | -     | 17    |  |  |
| <b>TOTAL</b>                         | 9951 | 8172                     | 18123 | 10769                    | 7671 | 18440                    | 18744 | 10419 | 29163 |  |  |
| Fertilizer                           | 2543 | 70                       | 2613  | 1850                     | 88   | 1938                     | 3929  | -     | 3929  |  |  |
| Raw Material                         | 1119 | 106                      | 1225  | 1337                     | 137  | 1474                     | 2669  | 789   | 3458  |  |  |
| Iron & Other                         | -    | 855                      | 855   | 133                      | 139  | 272                      | 140   | 259   | 399   |  |  |
| Foodgrains                           | -    | 2042                     | 2042  | -                        | 2149 | 2149                     | -     | 2138  | 2138  |  |  |
| Oil Cakes                            | 2    | 1112                     | 1114  | 1                        | 1460 | 1461                     | -     | 3353  | 3353  |  |  |
| Building Material                    | -    | 88                       | 88    | -                        | 94   | 94                       | -     | 159   | 159   |  |  |
| Granite                              | 1679 | -                        | 1679  | 2034                     | 63   | 2097                     | 4502  | -     | 4502  |  |  |
| Coke                                 | 154  | -                        | 154   | 88                       | -    | 88                       | 31    | -     | 31    |  |  |
| Ethylene                             | 2673 | -                        | 2673  | 3348                     | -    | 3348                     | 3667  | -     | 3667  |  |  |
| Oil Cargo (POL)                      | -    | 12                       | 12    | -                        | 2    | 2                        | 41    | 5     | 46    |  |  |
| Chemicals                            | -    | 136                      | 136   | -                        | 51   | 51                       | -     | 226   | 226   |  |  |
| Illmenite                            | 1781 | 3751                     | 5532  | 1978                     | 3488 | 5466                     | 3765  | 3490  | 7255  |  |  |
| Others                               | -    | -                        | -     | -                        | -    | -                        | -     | -     | -     |  |  |

### 3.1.7 Coastal Cargo Traffic Handled in Principal Commodities

(In '000 Tonnes)

| Commodity             | 1995-96  |        |       |       | 1996-97  |        |       |       | 1997-98  |        |       |       |
|-----------------------|----------|--------|-------|-------|----------|--------|-------|-------|----------|--------|-------|-------|
|                       | Unloaded | Loaded | Total | Total | Unloaded | Loaded | Total | Total | Unloaded | Loaded | Total | Total |
| (1)                   | 2        | 3      | 4     | 5     | 6        | 7      | 8     | 9     | 10       |        |       |       |
| <b>GUJARAT</b>        |          |        |       |       |          |        |       |       |          |        |       |       |
| 1. Building Material  | 1686     | 2124   | 3810  | 2605  | 2150     | 4755   | 3823  | 1639  | 5462     |        |       |       |
| 2. Iron Ore           | 571      | 1586   | 2157  | 500   | 1275     | 1775   | 692   | 870   | 1562     |        |       |       |
| 3. Salt               | 802      | 64     | 866   | 1747  | 272      | 2019   | 2616  | 391   | 3007     |        |       |       |
| 4. Coal               | -        | 70     | 70    | -     | 150      | 150    | -     | 56    | 56       |        |       |       |
| 5. Others             | 216      | -      | 216   | 150   | -        | 150    | 239   | -     | 239      |        |       |       |
|                       | 97       | 404    | 501   | 208   | 453      | 661    | 276   | 322   | 598      |        |       |       |
| <b>MAHARASHTRA</b>    |          |        |       |       |          |        |       |       |          |        |       |       |
| 1. Building Material* | 3044     | 68     | 3112  | 3080  | 128      | 3208   | 795   | 180   | 975      |        |       |       |
| 2. Iron ore&Palet     | 701      | -      | 701   | 717   | 6        | 723    | 795   | 1     | 796      |        |       |       |
| 3 Thermal coal        | 2343     | 68     | 2411  | 1984  | 121      | 2105   | -     | 179   | 179      |        |       |       |
| 4. Others             | -        | -      | -     | 379   | -        | 379    | -     | -     | -        |        |       |       |
| <b>GOA</b>            |          |        |       |       |          |        |       |       |          |        |       |       |
| 1. Iron ore           | 7        | 100    | 107   | 52    | 91       | 143    | 53    | 74    | 127      |        |       |       |
| 2. Coal               | ...      | ...    | ...   | 52    | 88       | 140    | 48    | 61    | 109      |        |       |       |
| 3. Others             | ...      | ...    | ...   | -     | 3        | 3      | -     | 1     | 1        |        |       |       |
|                       | ...      | ...    | ...   | -     | -        | -      | 5     | 12    | 17       |        |       |       |

\* Include Clinkers

3.1.7 Coastal Cargo Traffic Handled in Principal Commodities (Contd...)

| Commodity             | (In '000 Tonnes)            |     |     |     |     |                             |    |      |      |  |
|-----------------------|-----------------------------|-----|-----|-----|-----|-----------------------------|----|------|------|--|
|                       | 1995-96                     |     |     |     |     | 1996-97                     |    |      |      |  |
|                       | : Unloaded : Loaded : Total |     |     |     |     | : Unloaded : Loaded : Total |    |      |      |  |
| (1)                   | 2                           | 3   | 4   | 5   | 6   | 7                           | 8  | 9    | 10   |  |
| <b>KARNATAKA</b>      | 91                          | 90  | 181 | 129 | 111 | 240                         | 86 | 115  | 201  |  |
| 1. Building Material  | -                           | 40  | 40  | 10  | 64  | 74                          | 5  | 83   | 88   |  |
| 2. Salt               | 68                          | -   | 68  | 107 | -   | 107                         | 59 | -    | 59   |  |
| 3. Others             | 23                          | 50  | 73  | 12  | 47  | 59                          | 22 | 32   | 54   |  |
| <b>ANDHRA PRADESH</b> | 34                          | -   | 34  | 10  | 722 | 732                         | 59 | 1802 | 1861 |  |
| 1. Salt               | 34                          | -   | 34  | -   | -   | -                           | 29 | -    | 29   |  |
| 2. Crude oil          | -                           | -   | -   | -   | 722 | 722                         | -  | 1769 | 1769 |  |
| 3. Building Material  | -                           | -   | -   | -   | -   | -                           | -  | 33   | 33   |  |
| 4. Others             | -                           | -   | -   | 10  | -   | 10                          | 30 | -    | 30   |  |
| <b>KERALA</b>         | 15                          | 33  | 48  | 5   | 14  | 19                          | 14 | 20   | 34   |  |
| 1. Building Material  | 2                           | 18  | 20  | 5   | 5   | 10                          | 1  | 14   | 15   |  |
| 2. Others             | 13                          | 15  | 28  | -   | 9   | 9                           | 13 | 6    | 19   |  |
| <b>Tamil Nadu</b>     | -                           | -   | -   | -   | -   | -                           | -  | 206  | 206  |  |
| Crude oil             | -                           | -   | -   | -   | -   | -                           | -  | 206  | 206  |  |
| <b>LAKSHADWEEP</b>    | ...                         | ... | ... | ... | ... | ...                         | 23 | -    | 23   |  |
| 1. Building Material  | ...                         | ... | ... | ... | ... | ...                         | -  | -    | -    |  |
| 2. Others             | ...                         | ... | ... | ... | ... | ...                         | 23 | -    | 23   |  |

### 3.1.7 Coastal Cargo Traffic Handled in Principal Commodities (Contd...)

| Commodity                            | (In '000 Tonnes) |          |         |            |          |         |            |          |         |  |
|--------------------------------------|------------------|----------|---------|------------|----------|---------|------------|----------|---------|--|
|                                      | 1995-96          |          | 1996-97 |            | 1997-98  |         |            |          |         |  |
|                                      | : Unloaded       | : Loaded | : Total | : Unloaded | : Loaded | : Total | : Unloaded | : Loaded | : Total |  |
| (1)                                  | 2                | 3        | 4       | 5          | 6        | 7       | 8          | 9        | 10      |  |
| <b>ANDAMAN &amp; NICOBAR ISLANDS</b> |                  |          |         |            |          |         |            |          |         |  |
| 1. Building Material                 | 239              | 56       | 295     | 234        | 61       | 295     | 368        | 187      | 555     |  |
| 2. Food Grain                        | 37               | 56       | 93      | 45         | 45       | 90      | 55         | 32       | 87      |  |
| 3. Mineral Fuel                      | 50               | -        | 50      | 46         | -        | 46      | 51         | -        | 51      |  |
| 4. Others                            | 72               | -        | 72      | 74         | -        | 74      | 76         | -        | 76      |  |
|                                      | 80               | -        | 80      | 69         | 16       | 85      | 186        | 155      | 341     |  |
| <b>TOTAL</b>                         | 5116             | 2471     | 7587    | 6115       | 3277     | 9392    | 5221       | 4223     | 9444    |  |
| <b>1. Building Material</b>          |                  |          |         |            |          |         |            |          |         |  |
| 2. Salt                              | 1309             | 1682     | 2991    | 1272       | 1390     | 2662    | 1547       | 1019     | 2566    |  |
| 3. Iron ore & Pallet                 | 102              | 70       | 172     | 107        | 150      | 257     | 88         | 56       | 144     |  |
| 4. Food Grains                       | 3145             | 132      | 3277    | 3783       | 481      | 4264    | 2664       | 631      | 3295    |  |
| 5. Mineral Fuel                      | 50               | -        | 50      | 46         | -        | 46      | 51         | -        | 51      |  |
| 6. Thermal coal                      | 72               | -        | 72      | 74         | 722      | 796     | 76         | 1975     | 2051    |  |
| 7. Others                            | 216              | -        | 216     | 529        | 3        | 532     | 239        | 1        | 240     |  |
|                                      | 222              | 587      | 809     | 304        | 531      | 835     | 556        | 541      | 1097    |  |

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports  
During 1996-97 and 1997-98**

| Port/Commodity              | (In '000 Tonnes) |         |         |         |         |         |         |
|-----------------------------|------------------|---------|---------|---------|---------|---------|---------|
|                             | Unloaded         |         |         | Loaded  |         |         | Total   |
|                             | 1996-97          | 1997-98 | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 |
| 1                           | 2                | 3       | 4       | 5       | 6       | 7       |         |
| <b>GUJARAT</b>              |                  |         |         |         |         |         |         |
| <b>1. Bedi</b>              | 303              | 582     | 2268    | 2039    | 2571    | 2621    |         |
| a) Foodgrains               | 43               | 93      | 262     | 9       | 305     | 102     |         |
| b) Other Fertilizers        | 246              | 461     | -       | -       | 246     | 461     |         |
| c) Oil Cakes                | -                | -       | 1965    | 2023    | 1965    | 2023    |         |
| d) Others                   | 14               | 28      | 41      | 7       | 55      | 35      |         |
| <b>2. Okha</b>              | 786              | 878     | 380     | 548     | 1166    | 1426    |         |
| a) Foodgrains               | -                | -       | 103     | 12      | 103     | 12      |         |
| b) Building Material        | -                | -       | 96      | 195     | 96      | 195     |         |
| c) Chemicals                | -                | -       | 32      | 31      | 32      | 31      |         |
| d) Coke & Coal              | 782              | 876     | -       | -       | 782     | 876     |         |
| e) Ore                      | -                | -       | 138     | 310     | 138     | 310     |         |
| f) Others                   | 4                | 2       | 11      | -       | 15      | 2       |         |
| <b>3. Bhavnagar</b>         | 468              | 1181    | 316     | 281     | 784     | 1462    |         |
| a) Fertilizer & R. Material | 268              | 262     | -       | -       | 268     | 262     |         |
| b) Other fertilizer         | 162              | 250     | -       | -       | 162     | 250     |         |
| c) food grains              | 25               | 59      | 57      | -       | 82      | 59      |         |
| d) others                   | 13               | 1       | 259     | 281     | 272     | 282     |         |
| e) Transhipment             | -                | 609     | -       | -       | -       | 609     |         |

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports  
During 1996-97 and 1997-98 (Contd.)**

(In '000 Tonnes)

| Port/Commodity         | Unloaded |         |         | Loaded  |         |         | Total   |  |
|------------------------|----------|---------|---------|---------|---------|---------|---------|--|
|                        | 1996-97  | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 | 1997-98 |  |
|                        | 1        | 2       | 3       | 4       | 5       | 6       |         |  |
| <b>4. Navalakhi</b>    |          |         |         |         |         |         |         |  |
| a) Foodgrains          | 58       | 611     | 345     | 141     | 403     | 752     |         |  |
| b) Fertilizer finished | -        | -       | 88      | 12      | 88      | 12      |         |  |
| c) Salt                | 14       | 122     | -       | -       | 14      | 122     |         |  |
| d) Coal                | -        | -       | 216     | 129     | 216     | 129     |         |  |
| e) Others              | 44       | 457     | -       | -       | -       | 457     |         |  |
|                        |          | 32      | 41      | -       | 85      | 32      |         |  |
| <b>5. Sitka</b>        |          |         |         |         |         |         |         |  |
| a) Phos. Acid          | 4028     | 4462    | 277     | 210     | 4305    | 4672    |         |  |
| b) Building Material   | 505      | 495     | -       | -       | 505     | 495     |         |  |
| c) Liquid Ammonia      | -        | -       | 277     | 210     | 277     | 210     |         |  |
| d) Coal                | 135      | 132     | -       | -       | 135     | 132     |         |  |
| e) Others              | 40       | 120     | -       | -       | 40      | 120     |         |  |
| f) Transhipment        | -        | 47      | -       | -       | -       | 47      |         |  |
|                        | 3348     | 3668    | -       | -       | 3348    | 3668    |         |  |
| <b>6. Magdalla</b>     |          |         |         |         |         |         |         |  |
| a) Rock Phosphate      | 2403     | 4099    | 855     | 1008    | 3258    | 5107    |         |  |
| b) Other fertilizer    | 246      | 165     | -       | -       | 246     | 165     |         |  |
| c) Iron Ore            | 433      | 1907    | -       | -       | 433     | 1907    |         |  |
| d) Iron & Steel        | 500      | 198     | -       | -       | 500     | 198     |         |  |
| e) Coal                | 352      | 335     | 199     | 273     | 551     | 608     |         |  |
| f) Others              | 294      | 622     | -       | -       | 294     | 622     |         |  |
| g) Transhipment        | 578      | 651     | 656     | 735     | 1234    | 1386    |         |  |
|                        | -        | 221     | -       | -       | -       | 221     |         |  |
| <b>MAHARASHTRA</b>     |          |         |         |         |         |         |         |  |
| <b>1. Revdanda</b>     |          |         |         |         |         |         |         |  |
| a) Iron Ore            | 792      | 781     | 137     | 167     | 929     | 948     |         |  |
|                        | 792      | 781     | 137     | 167     | 929     | 948     |         |  |
| <b>2. Ratnagiri</b>    |          |         |         |         |         |         |         |  |
| a) Ethylene            | 97       | 183     | -       | -       | 97      | 183     |         |  |
| b) Cement Clinker      | 97       | 31      | -       | -       | 97      | 31      |         |  |
| c) Others              | -        | 16      | -       | -       | -       | 16      |         |  |
|                        | -        | 136     | -       | -       | -       | 136     |         |  |

3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports  
During 1996-97 and 1997-98 (Contd..)

| Port/Commodity         | (In '000 Tonnes) |         |         |         |         |         |
|------------------------|------------------|---------|---------|---------|---------|---------|
|                        | Unloaded         |         |         | Loaded  |         |         |
|                        | 1996-97          | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 |
| 1                      | 2                | 3       | 4       | 5       | 6       | 7       |
| <b>KARNATAKA</b>       |                  |         |         |         |         |         |
| 1. Karwar              | 79               | 118     | 197     | 168     | 276     | 286     |
| a) Foodgrains          | 48               | 22      | -       | -       | 48      | 22      |
| b) Rock Phosphate      | 7                | 70      | -       | -       | 7       | 70      |
| c) Fertilizer finished | 24               | 22      | -       | -       | 24      | 22      |
| d) Granite             | -                | -       | 94      | 158     | 94      | 158     |
| e) P. Acid             | -                | -       | 2       | 5       | 2       | 5       |
| f) Molasses            | -                | -       | 101     | 3       | 101     | 3       |
| g) Others              | -                | 4       | -       | 2       | -       | 6       |
| 2. Mangalore           | 7                | 16      | 2       | 1       | 9       | 17      |
| a) Fertilizer finished | 7                | 16      | -       | -       | 7       | 16      |
| b) Others              | -                | -       | 2       | 1       | 2       | 1       |
| <b>KERALA</b>          |                  |         |         |         |         |         |
| Neendakara             | -                | -       | 51      | 81      | 51      | 81      |
| a) Illmenite           | -                | -       | 51      | 81      | 51      | 81      |
| <b>TAMILNADU</b>       |                  |         |         |         |         |         |
| 1. Cuddalore           | 14               | 26      | 3       | -       | 17      | 26      |
| a) Fertilizer finished | 8                | 15      | -       | -       | 8       | 15      |
| b) Foodgrains          | -                | -       | 3       | -       | 3       | -       |
| c) Others              | 6                | 11      | -       | -       | 6       | 11      |

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports  
During 1996-97 and 1997-98 (Contd..)**

| Port/Commodity                            | (In '000 Tonnes) |         |         |         |         |         |  |
|-------------------------------------------|------------------|---------|---------|---------|---------|---------|--|
|                                           | Unloaded         |         |         | Loaded  |         | Total   |  |
|                                           | 1996-97          | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 |  |
| 1                                         | 2                | 3       | 4       | 5       | 6       | 7       |  |
| <b>ANDHRA PRADESH</b>                     |                  |         |         |         |         |         |  |
| <b>1. Kakinada *</b>                      |                  |         |         |         |         |         |  |
| a) Foodgrain                              | 579              | 1133    | 916     | 544     | 1495    | 1677    |  |
| b) Fertiliser finished                    | 86               | 118     | 139     | 257     | 225     | 375     |  |
| c) Phosphoric Acid                        | 322              | 512     | -       | -       | 322     | 512     |  |
| d) Other Ores                             | 38               | 34      | -       | -       | 38      | 34      |  |
| e) Others                                 | 77               | 330     | -       | -       | 77      | 330     |  |
|                                           | 56               | 139     | 777     | 287     | 833     | 426     |  |
| <b>ORISSA</b>                             |                  |         |         |         |         |         |  |
| <b>1. Gopalpur</b>                        |                  |         |         |         |         |         |  |
| a) Ilmenite                               | 51               | 56      | 88      | 145     | 139     | 201     |  |
| b) Fertiliser                             | -                | -       | -       | 145     | -       | 145     |  |
|                                           | 51               | 56      | 88      | -       | 139     | 56      |  |
| Total (above Ports)                       | 9665             | 14126   | 5835    | 5333    | 15500   | 19459   |  |
| Total for all Minor/<br>Intermediate Port | 10769            | 18744   | 7671    | 10419   | 18440   | 29163   |  |

\* Include Anchorage Port, Deep water Port.

**3.1.9 Coastal Cargo Traffic Handled At Selected Minor/Intermediate Ports  
During 1996-97 And 1997-98**

| Port/Commodity       | (In '000 Tonnes) |         |         |         |         |         |         |
|----------------------|------------------|---------|---------|---------|---------|---------|---------|
|                      | Unloaded         |         |         | Loaded  |         | Total   |         |
|                      | 1996-97          | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 | 1997-98 |
| (1)                  | 2                | 3       | 4       | 5       | 6       | 7       |         |
| <b>GUJARAT</b>       |                  |         |         |         |         |         |         |
| <b>1. Okha</b>       |                  |         |         |         |         |         |         |
| a) Fuel Oil          | 170              | 308     | 111     | 65      | 281     | 373     |         |
| b) Bauxite           | 170              | 150     | -       | -       | 170     | 150     |         |
| c) Coal              | -                | -       | 104     | 11      | 104     | 11      |         |
| d) Building Material | -                | 154     | -       | -       | -       | 154     |         |
| d) Others            | -                | 2       | -       | 40      | -       | 42      |         |
|                      | -                | 2       | 7       | 14      | 7       | 16      |         |
| <b>2. Magdalla</b>   |                  |         |         |         |         |         |         |
| a) Cement Clinkers   | 2284             | 3374    | 586     | 600     | 2870    | 3974    |         |
| b) Iron Ore          | 385              | 691     | -       | -       | 385     | 691     |         |
| c) Iron & Steel      | 1747             | 2616    | 272     | 391     | 2019    | 3007    |         |
| d) Others            | 16               | 37      | -       | 86      | 16      | 123     |         |
|                      | 136              | 30      | 314     | 123     | 450     | 153     |         |
| <b>3. Jafarabad</b>  |                  |         |         |         |         |         |         |
| a) Cement Clinkers   | -                | -       | 720     | -       | 720     | -       |         |
| b) Others            | -                | -       | 720     | -       | 720     | -       |         |
|                      | -                | -       | -       | -       | -       | -       |         |
| <b>4. Sikka</b>      |                  |         |         |         |         |         |         |
| a) Salt              | 145              | 11      | 107     | 54      | 252     | 65      |         |
| b) Coal              | -                | -       | 107     | 54      | 107     | 54      |         |
|                      | 145              | 11      | -       | -       | 145     | 11      |         |
| <b>MAHARASHTRA</b>   |                  |         |         |         |         |         |         |
| <b>1. Ratnagiri</b>  |                  |         |         |         |         |         |         |
| a) Cement Clinkers   | 337              | 269     | 6       | 1       | 343     | 270     |         |
|                      | 337              | 269     | 6       | 1       | 343     | 270     |         |

**3.1.9 Coastal Cargo Traffic Handled At Selected Minor/Intermediate Ports  
During 1996-97 And 1997-98 (Contd.)**

| Port/Commodity               | (In '000 Tonnes) |         |         |         |         |         |  |
|------------------------------|------------------|---------|---------|---------|---------|---------|--|
|                              | Unloaded         |         |         | Loaded  |         | Total   |  |
|                              | 1996-97          | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 |  |
| (1)                          | 2                | 3       | 4       | 5       | 6       | 7       |  |
| <b>2. Revdanda</b>           | 298              | -       | 52      | 178     | 350     | 178     |  |
| a) Iron Ore Pellet           | 298              | -       | 52      | 178     | 350     | 178     |  |
| b) Coking Coal               | -                | -       | -       | -       | -       | -       |  |
| <b>4. Dahannu</b>            | 379              | -       | -       | -       | 379     | -       |  |
| a) Thermal coal              | 379              | -       | -       | -       | 379     | -       |  |
| <b>5. Ulwa-Belapur</b>       | 378              | 524     | -       | -       | 378     | 524     |  |
| a) Cement                    | 378              | 524     | -       | -       | 378     | 524     |  |
| <b>KARNATAKA</b>             |                  |         |         |         |         |         |  |
| <b>1. Karwar</b>             | 116              | 58      | 1       | -       | 117     | 58      |  |
| a) Salt                      | 107              | 54      | -       | -       | 107     | 54      |  |
| b) Iron Ore                  | -                | -       | -       | -       | -       | -       |  |
| c) Cement                    | 8                | 4       | -       | -       | 8       | 4       |  |
| d) Others                    | 1                | -       | 1       | -       | 2       | -       |  |
| <b>KERALA</b>                |                  |         |         |         |         |         |  |
| <b>1. Kozhikode/Bey pore</b> | 5                | 13      | 12      | 19      | 17      | 32      |  |
| a) Building material         | 5                | -       | 5       | 15      | 10      | 15      |  |
| b) Rice/Wheat                | -                | 8       | 1       | -       | 1       | 8       |  |
| c) POL Products              | -                | -       | 6       | 1       | 6       | 1       |  |
| d) Others                    | -                | 5       | -       | 3       | -       | 8       |  |
| <b>ANDHRA PRADESH</b>        |                  |         |         |         |         |         |  |
| <b>1. Rawa Port</b>          | -                | -       | -       | 1769    | -       | 1769    |  |
| a) Crude Oil                 | -                | -       | -       | 1769    | -       | 1769    |  |

**3.1.1.9 Coastal Cargo Traffic Handled At Selected Minor/Intermediate Ports  
During 1996-97 And 1997-98 (Contd..)**

| Port/Commodity                            | (In '000 Tonnes) |         |         |         |         |         |         |
|-------------------------------------------|------------------|---------|---------|---------|---------|---------|---------|
|                                           | Unloaded         |         |         | Loaded  |         |         | Total   |
|                                           | 1996-97          | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 | 1997-98 |
| 1                                         | 2                | 3       | 4       | 5       | 6       | 7       |         |
| <b>Tamil Nadu</b>                         |                  |         |         |         |         |         |         |
| PY-03                                     | -                | -       | -       | -       | -       | -       | 206     |
| Crude Oil                                 | -                | -       | -       | -       | -       | -       | 206     |
| <b>ANDAMAN &amp; NICOBAR</b>              |                  |         |         |         |         |         |         |
| Port Blair                                | 234              | 368     | 61      | 187     | 295     |         | 555     |
| a) Building Material                      | 45               | 55      | 45      | 32      | 90      |         | 87      |
| b) Mineral fuel                           | 74               | 76      | -       | -       | 74      |         | 76      |
| c) Foodgrains                             | 46               | 51      | -       | -       | 46      |         | 51      |
| c) Others                                 | 69               | 186     | 16      | 155     | 85      |         | 341     |
| <b>Total for above Ports</b>              |                  |         |         |         |         |         |         |
| a) Fuel Oil                               | 4346             | 4925    | 1656    | 3079    | 6002    |         | 8004    |
| b) Bauxite                                | 244              | 226     | 6       | 1976    | 250     |         | 2202    |
| c) Cement Clinkers                        | -                | -       | 104     | -       | 104     |         | -       |
| d) Salt                                   | 1108             | 1488    | 726     | 1       | 1834    |         | 1489    |
| e) Iron Ore & Pellets                     | 107              | 54      | 107     | 54      | 214     |         | 108     |
| f) Building material                      | 2045             | 2616    | 324     | 569     | 2369    |         | 3185    |
| g) Foodgrains                             | 50               | 57      | 50      | 87      | 100     |         | 144     |
| h) Coal                                   | 46               | 59      | 1       | -       | 47      |         | 59      |
| i) Iron & steel                           | 524              | 165     | -       | -       | 524     |         | 165     |
| j) Others                                 | 16               | 37      | -       | 86      | 16      |         | 123     |
|                                           | 206              | 223     | 338     | 306     | 544     |         | 529     |
| <b>Total All Minor/Intermediate Ports</b> |                  |         |         |         |         |         |         |
|                                           | 6115             | 5221    | 3277    | 4223    | 9392    |         | 9444    |

### 3.1.10 Cargo Traffic Handled At Selected Minor /Intermediate Ports(Portwise) In 1996-97&1997-98

(In '000 Tonnes)

| State/Port    | Overseas  |         |           |         | Coastal   |         |           |         | Total     |         |           |         |
|---------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
|               | Unloaded  |         | Loaded    |         | Unloaded  |         | Loaded    |         | Unloaded  |         | Loaded    |         |
|               | : 1996-97 | 1997-98 | : 1996-97 | 1997-98 | : 1996-97 | 1997-98 | : 1996-97 | 1997-98 | : 1996-97 | 1997-98 | : 1996-97 | 1997-98 |
| 1             | 2         | 3       | 4         | 5       | 6         | 7       | 8         | 9       | 10        | 11      | 12        | 13      |
| GUJARAT       | 8912      | 13587   | 6191      | 8666    | 2605      | 3823    | 2150      | 1639    | 11517     | 17410   | 8341      | 10305   |
| Mandvi        | -         | -       | 102       | 164     | -         | -       | 16        | 24      | -         | -       | 118       | 188     |
| Navlakhi      | 58        | 611     | 345       | 141     | -         | -       | -         | -       | 58        | 611     | 345       | 141     |
| Bedi          | 303       | 582     | 2268      | 2038    | -         | 50      | -         | -       | 303       | 632     | 2268      | 2038    |
| Sikka         | 680       | 795     | 277       | 210     | 145       | 11      | 107       | 54      | 825       | 806     | 384       | 264     |
| Okha          | 786       | 878     | 380       | 548     | 170       | 308     | 111       | 65      | 956       | 1186    | 491       | 613     |
| Porbandar     | 260       | 392     | 526       | 686     | 6         | 78      | 36        | 10      | 266       | 470     | 562       | 696     |
| Veraval       | 307       | 494     | 635       | 822     | -         | 2       | 548       | 836     | 307       | 496     | 1183      | 1658    |
| Bhavnagar     | 468       | 572     | 316       | 281     | -         | -       | -         | -       | 468       | 572     | 316       | 281     |
| Magdalla      | 2403      | 3878    | 855       | 1008    | 2284      | -       | 586       | 600     | 4687      | 7252    | 1441      | 1608    |
| Mundra        | -         | 1       | 180       | 106     | -         | -       | -         | -       | -         | 1       | 180       | 106     |
| Jafarabad     | 273       | 495     | 307       | 1766    | -         | -       | 720       | -       | 273       | 495     | 1027      | 1766    |
| Pipavav       | -         | -       | -         | -       | -         | -       | 25        | 23      | -         | -       | 25        | 23      |
| Dahej         | 26        | 202     | -         | -       | -         | -       | -         | -       | 26        | 202     | -         | -       |
| Jakhau        | -         | -       | -         | -       | -         | -       | -         | 23      | -         | -       | -         | 23      |
| Mahuva        | -         | -       | -         | -       | -         | -       | -         | 1       | -         | -       | -         | 1       |
| G.P.P.L       | -         | 189     | -         | 895     | -         | -       | -         | -       | -         | 189     | -         | 895     |
| Transshipment | 3348      | 4498    | -         | -       | -         | -       | -         | -       | 3348      | 4498    | -         | -       |
| Others        | -         | -       | -         | 1       | -         | -       | 1         | 3       | -         | -       | 1         | 4       |

3.1.10 Cargo Traffic Handled At Selected Minor /Intermediate Ports (Portwise) in 1996-97 & 1997-98 (Contd.)

|                        |     | (In '000 Tonnes) |         |         |         |     |          |         |         |         |       |
|------------------------|-----|------------------|---------|---------|---------|-----|----------|---------|---------|---------|-------|
|                        |     | Overseas         |         |         |         |     | Coastal  |         |         |         |       |
| State/Port             |     | Unloaded         |         | Loaded  |         |     | Unloaded |         | Loaded  |         | Total |
|                        |     | 1996-97          | 1997-98 | 1996-97 | 1997-98 |     | 1996-97  | 1997-98 | 1996-97 | 1997-98 |       |
| 1                      | 2   | 3                | 4       | 5       | 6       | 7   | 8        | 9       | 10      | 11      | 12    |
| <b>MAHARASHTRA</b>     |     |                  |         |         |         |     |          |         |         |         |       |
| Ratnagiri              | 97  | 183              | -       | -       | 337     | 269 | 6        | 1       | 434     | 452     | 6     |
| Redi                   | -   | -                | -       | -       | -       | -   | 66       | -       | -       | -       | 66    |
| Revadanda              | 792 | 781              | 137     | 167     | 298     | -   | 52       | 178     | 1090    | 781     | 189   |
| Ulwa-Belapur           | -   | -                | -       | -       | 378     | 524 | -        | -       | 378     | 524     | -     |
| Dharamtar              | -   | 1687             | -       | 10      | 1686    | 1   | 2        | -       | 1686    | 1688    | 2     |
| Dehanu                 | -   | 712              | -       | 13      | 379     | -   | -        | -       | 379     | 712     | -     |
| Mandwa                 | -   | 139              | -       | -       | -       | -   | -        | -       | -       | 139     | -     |
| Others                 | 10  | 17               | -       | 1       | 2       | 1   | 2        | 1       | 12      | 18      | 2     |
| <b>GOA</b>             |     |                  |         |         |         |     |          |         |         |         |       |
| Panaaji                | 167 | 236              | 85      | 622     | 52      | 53  | 91       | 74      | 219     | 289     | 176   |
|                        | 167 | 236              | 85      | 622     | 52      | 53  | 91       | 74      | 219     | 289     | 176   |
| <b>Daman &amp; Diu</b> |     |                  |         |         |         |     |          |         |         |         |       |
| Daman                  | -   | -                | -       | -       | -       | -   | -        | -       | -       | -       | -     |
| <b>KARNATAKA</b>       |     |                  |         |         |         |     |          |         |         |         |       |
| Karwar                 | 85  | 134              | 199     | 169     | 129     | 86  | 111      | 115     | 214     | 220     | 310   |
| Managalore             | 78  | 118              | 197     | 168     | 116     | 58  | 1        | -       | 194     | 176     | 198   |
| Tadri                  | 7   | 16               | 2       | 1       | 8       | 26  | 81       | 82      | 15      | 42      | 83    |
| Honavar                | -   | -                | -       | -       | -       | -   | 4        | 6       | -       | -       | 4     |
| Kundapura              | -   | -                | -       | -       | -       | -   | -        | -       | -       | -       | -     |
| Malpe                  | -   | -                | -       | -       | 5       | 2   | 24       | 27      | 5       | 2       | 24    |
|                        | -   | -                | -       | -       | -       | -   | -        | -       | -       | -       | 27    |

3.1.10 Cargo Traffic Handled At Selected Minor / Intermediate Ports (Portwise) in 1996-97 & 1997-98 (Contd.)

(In '000 Tonnes)

| State/Port                                                                                | Overseas |        |      | Coastal  |        |      | Total    |        |       |       |       |       |
|-------------------------------------------------------------------------------------------|----------|--------|------|----------|--------|------|----------|--------|-------|-------|-------|-------|
|                                                                                           | Unloaded | Loaded |      | Unloaded | Loaded |      | Unloaded | Loaded |       |       |       |       |
| : 1996-97 1997-98 : 1996-97 1997-98 : 1996-97 1997-98 : 1996-97 1997-98 : 1996-97 1997-98 |          |        |      |          |        |      |          |        |       |       |       |       |
| 1                                                                                         | 2        | 3      | 4    | 5        | 6      | 7    | 8        | 9      | 10    | 11    | 12    | 13    |
| <b>KERALA</b>                                                                             | -        | -      | -    | 52       | 82     | 5    | 14       | 14     | 20    | 5     | 14    | 66    |
| Calicut (Kozhikode)                                                                       | -        | -      | -    | -        | -      | 5    | 13       | 12     | 19    | 5     | 13    | 102   |
| Beyrour                                                                                   | -        | -      | -    | -        | -      | -    | -        | -      | -     | -     | -     | 19    |
| Neendakara                                                                                | -        | -      | -    | 51       | 81     | -    | -        | -      | -     | -     | -     | 51    |
| Others                                                                                    | -        | -      | -    | 1        | 1      | -    | 1        | 2      | 1     | -     | 1     | 81    |
| <b>TAMIL NADU</b>                                                                         | -        | -      | -    | 3        | -      | -    | -        | Neg    | 206   | 31    | 62    | 206   |
| Cuddalore                                                                                 | 31       | 62     | 3    | 3        | -      | -    | -        | Neg    | -     | 14    | 26    | -     |
| Ennore                                                                                    | 14       | 26     | 3    | -        | -      | -    | -        | -      | -     | 15    | 36    | -     |
| Vallinokkam                                                                               | 15       | 36     | -    | -        | -      | -    | -        | -      | -     | 2     | -     | -     |
| Py-3                                                                                      | 2        | -      | -    | -        | -      | -    | -        | -      | 206   | -     | -     | 206   |
| <b>PONDICHERY</b>                                                                         | -        | -      | -    | -        | -      | -    | -        | -      | -     | -     | -     | -     |
| <b>ANDHRA PRADESH</b>                                                                     | 45       | N      | -    | -        | -      | -    | -        | -      | 45    | N     | -     | -     |
| Kakinada                                                                                  | 579      | 1133   | 916  | 544      | 10     | 59   | 722      | 1602   | 589   | 1192  | 1638  | 2346  |
| Rawa                                                                                      | 579      | 1133   | 916  | 544      | 10     | 59   | -        | 33     | 589   | 1192  | 916   | 577   |
| <b>ORISSA</b>                                                                             | -        | -      | -    | -        | -      | -    | 722      | 1769   | -     | -     | 722   | 1769  |
| Gopalpur                                                                                  | 51       | 56     | 88   | 145      | -      | -    | -        | -      | 51    | 56    | 88    | 145   |
| <b>SEA ISLANDS</b>                                                                        | 51       | 56     | 88   | 145      | -      | -    | -        | -      | 51    | 56    | 88    | 145   |
| A & N Islands                                                                             | -        | 17     | -    | -        | 234    | 391  | 61       | 187    | 234   | 408   | 61    | 187   |
| Lakshadweep                                                                               | -        | 17     | -    | -        | 234    | 368  | 61       | 187    | 234   | 385   | 61    | 187   |
|                                                                                           | ...      | -      | ...  | -        | ...    | 23   | ...      | -      | ...   | 23    | ...   | -     |
| Total all Minor / Intermediate Ports                                                      | 10769    | 18744  | 7671 | 10419    | 6115   | 5221 | 3277     | 4223   | 16884 | 23965 | 10948 | 14642 |

3.1.11 State-Wise Cargo Handled At Minor /Intermediate Ports (1996-97 & 1997-98)  
By Steamers And Sailing Vessels

| (In '000 Tonnes)                                                                          |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
|-------------------------------------------------------------------------------------------|----------|-------|--------|------|----------|---------|--------|------|----------|-------|-------|--------|---|----------|---|--------|---|----------|---|--------|---|
| State / Port                                                                              | Overseas |       |        |      |          | Coastal |        |      |          |       | Total |        |   |          |   |        |   |          |   |        |   |
|                                                                                           | Unloaded | :     | Loaded | :    | Unloaded | :       | Loaded | :    | Unloaded | :     |       | Loaded | : | Unloaded | : | Loaded | : | Unloaded | : | Loaded | : |
|                                                                                           |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
|                                                                                           |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| : 1996-97 1997-98 : 1996-97 1997-98 : 1996-97 1997-98 : 1996-97 1997-98 : 1996-97 1997-98 |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| 1                                                                                         | 2        | 3     | 4      | 5    | 6        | 7       | 8      | 9    | 10       | 11    |       |        |   |          |   |        |   |          |   |        |   |
| <b>GUJARAT</b>                                                                            |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| Steamers                                                                                  | 8912     | 13587 | 6191   | 8666 | 2605     | 3823    | 2150   | 1639 | 19858    | 27715 |       |        |   |          |   |        |   |          |   |        |   |
| Sailing Vessels                                                                           | 5549     | 9075  | 6129   | 8618 | 2605     | 3823    | 2107   | 1576 | 16390    | 23092 |       |        |   |          |   |        |   |          |   |        |   |
| Transshipment                                                                             | 15       | 14    | 62     | 48   | -        | -       | 43     | 63   | 120      | 125   |       |        |   |          |   |        |   |          |   |        |   |
|                                                                                           | 3348     | 4498  | -      | -    | -        | -       | -      | -    | 3348     | 4498  |       |        |   |          |   |        |   |          |   |        |   |
| <b>MAHARASHTRA</b>                                                                        |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| Steamers                                                                                  | 899      | 3519  | 137    | 191  | 3080     | 795     | 128    | 180  | 4244     | 4685  |       |        |   |          |   |        |   |          |   |        |   |
| Sailing Vessels                                                                           | 899      | 3519  | 137    | 191  | 3080     | 795     | 122    | 180  | 4238     | 4685  |       |        |   |          |   |        |   |          |   |        |   |
|                                                                                           | -        | -     | -      | -    | -        | -       | 6      | -    | 6        | -     |       |        |   |          |   |        |   |          |   |        |   |
| <b>GOA</b>                                                                                |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| Steamers                                                                                  | 167      | 236   | 85     | 622  | 52       | 53      | 91     | 74   | 395      | 985   |       |        |   |          |   |        |   |          |   |        |   |
| Sailing Vessels                                                                           | 167      | 236   | 85     | 622  | 52       | 53      | 91     | 74   | 395      | 985   |       |        |   |          |   |        |   |          |   |        |   |
|                                                                                           | -        | -     | -      | -    | -        | -       | -      | -    | -        | -     |       |        |   |          |   |        |   |          |   |        |   |
| <b>DAMAN &amp; DIU</b>                                                                    |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| Steamers                                                                                  | -        | -     | -      | -    | -        | -       | -      | -    | -        | -     |       |        |   |          |   |        |   |          |   |        |   |
| Sailing Vessels                                                                           | -        | -     | -      | -    | -        | -       | -      | -    | -        | -     |       |        |   |          |   |        |   |          |   |        |   |
|                                                                                           | -        | -     | -      | -    | -        | -       | -      | -    | -        | -     |       |        |   |          |   |        |   |          |   |        |   |
| <b>KARNATAKA</b>                                                                          |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| Steamers                                                                                  | 85       | 134   | 199    | 169  | 129      | 86      | 111    | 115  | 524      | 504   |       |        |   |          |   |        |   |          |   |        |   |
| Sailing Vessels                                                                           | 78       | 134   | 197    | 168  | 116      | 76      | -      | 2    | 391      | 380   |       |        |   |          |   |        |   |          |   |        |   |
|                                                                                           | 7        | -     | 2      | 1    | 13       | 10      | 111    | 113  | 133      | 124   |       |        |   |          |   |        |   |          |   |        |   |
| <b>KERALA</b>                                                                             |          |       |        |      |          |         |        |      |          |       |       |        |   |          |   |        |   |          |   |        |   |
| Steamers                                                                                  | -        | -     | 52     | 82   | 5        | 14      | 14     | 20   | 71       | 116   |       |        |   |          |   |        |   |          |   |        |   |
| Sailing Vessels                                                                           | -        | -     | 51     | 81   | 5        | 13      | 13     | 19   | 69       | 113   |       |        |   |          |   |        |   |          |   |        |   |
|                                                                                           | -        | -     | 1      | 1    | -        | 1       | 1      | 1    | 2        | 3     |       |        |   |          |   |        |   |          |   |        |   |

3.1.11 State-Wise Cargo Handled At Minor /Intermediate Ports (1996-97&1997-98)  
By Steamers And Sailing Vessels (Contd.)

(In '000 Tonnes)

| State / Port          | Overseas |         |         |         | Coastal  |         |         |         | Total              |         |
|-----------------------|----------|---------|---------|---------|----------|---------|---------|---------|--------------------|---------|
|                       | Unloaded | :       | Loaded  | :       | Unloaded | :       | Loaded  | :       | Overseas & Coastal |         |
|                       | 1996-97  | 1997-98 | 1996-97 | 1997-98 | 1996-97  | 1997-98 | 1996-97 | 1997-98 | 1996-97            | 1997-98 |
| 1                     | 2        | 3       | 4       | 5       | 6        | 7       | 8       | 9       | 10                 | 11      |
| <b>TAMILNADU</b>      |          |         |         |         |          |         |         |         |                    |         |
| Steamers              | 31       | 62      | 3       | -       | -        | -       | Neg     | 206     | 34                 | 268     |
| Sailing Vessels       | 31       | 62      | -       | -       | -        | -       | -       | 206     | 34                 | 268     |
| <b>PONDICHERY</b>     |          |         |         |         |          |         |         |         |                    |         |
| Steamers              | 45       | N       | -       | -       | -        | -       | -       | -       | 45                 | N       |
| Sailing Vessels       | -        | N       | -       | -       | -        | -       | -       | -       | -                  | N       |
| Transshipment         | 45       | -       | -       | -       | -        | -       | -       | -       | 45                 | -       |
| <b>ANDHRA PRADESH</b> |          |         |         |         |          |         |         |         |                    |         |
| Steamers              | 579      | 1133    | 916     | 544     | 10       | 59      | 722     | 1802    | 2227               | 3538    |
| Sailing Vessels       | 579      | 1133    | 916     | 544     | 10       | 59      | 722     | 1802    | 2227               | 3538    |
| <b>ORISSA</b>         |          |         |         |         |          |         |         |         |                    |         |
| Steamers              | 51       | 56      | 88      | 145     | -        | -       | -       | -       | 139                | 201     |
| Sailing Vessels       | 51       | 56      | 88      | 145     | -        | -       | -       | -       | 139                | 201     |
| <b>SEA ISLANDS</b>    |          |         |         |         |          |         |         |         |                    |         |
| Steamers              | -        | 17      | -       | -       | 234      | 391     | 61      | 187     | 295                | 595     |
| Sailing Vessels       | -        | 17      | -       | -       | 234      | 391     | 61      | 187     | 295                | 595     |
| <b>Total</b>          | 10769    | 18744   | 7671    | 10419   | 6115     | 5221    | 3277    | 4223    | 27832              | 38607   |
| Steamers              | 7354     | 14232   | 7606    | 10369   | 6102     | 5210    | 3116    | 4046    | 24178              | 33857   |
| Sailing Vessels       | 22       | 14      | 65      | 50      | 13       | 11      | 161     | 177     | 261                | 252     |
| Transshipment         | 3393     | 4498    | -       | -       | -        | -       | -       | -       | 3393               | 4498    |

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers/Sailing Vessels-1997-98.

(In '000 Tonnes)

| State /<br>Selected<br>Ports | Steamers |      |         | Sailing Vessels |    |         |          |    |                    | Total | Sailing<br>Vessels |
|------------------------------|----------|------|---------|-----------------|----|---------|----------|----|--------------------|-------|--------------------|
|                              | Overseas |      | Coastal | Overseas        |    | Coastal | Steamers |    | Sailing<br>Vessels |       |                    |
|                              | UL       | L    | UL      | L               | UL | L       | UL       | L  |                    |       |                    |
| 1                            | 2        | 3    | 4       | 5               | 6  | 7       | 8        | 9  | 10                 | 11    |                    |
| <b>GUJARAT</b>               |          |      |         |                 |    |         |          |    |                    |       |                    |
| Magdalla                     | 13573    | 8618 | 3823    | 1576            | 14 | 48      | -        | 63 | 27590              | 125   |                    |
| Bedi                         | 3878     | 1008 | 3374    | 600             | -  | -       | -        | -  | 8860               | -     |                    |
| Jafarabad                    | 568      | 2038 | 50      | -               | 14 | 1       | -        | -  | 2656               | 15    |                    |
| Veraval                      | 495      | 1766 | -       | -               | -  | -       | -        | -  | 2261               | -     |                    |
| Okha                         | 494      | 822  | 2       | 821             | -  | -       | -        | 16 | 2139               | 16    |                    |
| Porbandar                    | 878      | 538  | 308     | 65              | -  | 10      | -        | -  | 1789               | 10    |                    |
| Sikka                        | 392      | 684  | 78      | 10              | -  | 2       | -        | 1  | 1164               | 3     |                    |
| Navlakhi                     | 795      | 210  | 11      | 54              | -  | -       | -        | -  | 1070               | -     |                    |
| Bhavnagar                    | 611      | 141  | -       | -               | -  | -       | -        | -  | 752                | -     |                    |
| Mundra                       | 572      | 281  | -       | -               | -  | -       | -        | -  | 853                | -     |                    |
| Mandvi                       | 1        | 70   | -       | -               | -  | 35      | -        | -  | 71                 | 35    |                    |
| Dahej                        | -        | 164  | -       | 24              | -  | -       | -        | -  | 188                | -     |                    |
| Pipavav                      | 202      | -    | -       | -               | -  | -       | -        | -  | 202                | -     |                    |
| Jakhau                       | -        | -    | -       | -               | -  | -       | -        | 23 | -                  | 23    |                    |
| Transshipment                | 4498     | -    | -       | -               | -  | -       | -        | -  | 4498               | -     |                    |
| G.P.P.L                      | 189      | 895  | -       | -               | -  | -       | -        | -  | 1084               | -     |                    |
| Others                       | -        | 1    | -       | 2               | -  | -       | -        | -  | 3                  | -     |                    |
| <b>MAHARASHTRA</b>           |          |      |         |                 |    |         |          |    |                    |       |                    |
| Ratnagiri                    | 3519     | 191  | 795     | 180             | -  | -       | -        | -  | 4685               | -     |                    |
| Ulwa Belapur                 | 183      | -    | 269     | 1               | -  | -       | -        | -  | 453                | -     |                    |
| Revdaanda                    | -        | -    | 524     | -               | -  | -       | -        | -  | 524                | -     |                    |
| Dharmtar                     | 781      | 167  | -       | 178             | -  | -       | -        | -  | 1126               | -     |                    |
| Dahanu                       | 1687     | 10   | 1       | -               | -  | -       | -        | -  | 1698               | -     |                    |
| Mandwa                       | 712      | 13   | -       | -               | -  | -       | -        | -  | 725                | -     |                    |
| Dabhol                       | 139      | -    | -       | -               | -  | -       | -        | -  | 139                | -     |                    |
| Trombay                      | 17       | 1    | 1       | 1               | -  | -       | -        | -  | 19                 | -     |                    |
|                              | -        | -    | -       | -               | -  | -       | -        | -  | 1                  | -     |                    |

Note : UL - Unloaded; L - Loaded.

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers/Sailing Vessels-1997-98 (Contd..)

| State /<br>Selected<br>Ports | Steamers |     |         |     | Sailing Vessels |   |         |     | Total    |                    |
|------------------------------|----------|-----|---------|-----|-----------------|---|---------|-----|----------|--------------------|
|                              | Overseas |     | Coastal |     | Overseas        |   | Coastal |     | Steamers | Sailing<br>Vessels |
|                              | UL       | L   | UL      | L   | UL              | L | UL      | L   |          |                    |
| 1                            | 2        | 3   | 4       | 5   | 6               | 7 | 8       | 9   | 10       | 11                 |
| <b>KERALA</b>                |          |     |         |     |                 |   |         |     |          |                    |
| Neendakara                   | -        | 81  | 13      | 19  | -               | 1 | 1       | 1   | 113      | 3                  |
| Kozhikode/Bey pore           | -        | 81  | -       | -   | -               | - | -       | -   | 81       | -                  |
| Azhikkal                     | -        | -   | 13      | 19  | -               | - | -       | -   | 32       | -                  |
| Kovalam                      | -        | -   | -       | -   | -               | 1 | 1       | 1   | -        | 1                  |
| Goa (Panaji)                 | 236      | 622 | 53      | 74  | -               | - | -       | -   | 985      | -                  |
| <b>DAMAN &amp; DIU</b>       |          |     |         |     |                 |   |         |     |          |                    |
| Daman                        | -        | -   | -       | -   | -               | - | -       | -   | -        | -                  |
| <b>KARNATAKA</b>             |          |     |         |     |                 |   |         |     |          |                    |
| Malpe                        | 134      | 168 | 76      | 2   | -               | 1 | 10      | 113 | 380      | 124                |
| Karwar                       | -        | -   | -       | -   | -               | - | 2       | 27  | -        | 29                 |
| Mangalore                    | 118      | 168 | 58      | -   | -               | - | -       | -   | 344      | -                  |
| Others                       | 16       | -   | 18      | 2   | -               | 1 | 8       | 80  | 36       | 89                 |
| <b>TAMILNADU</b>             |          |     |         |     |                 |   |         |     |          |                    |
| Cuddalore                    | 62       | -   | -       | 206 | -               | - | -       | -   | 268      | -                  |
| Ennore                       | 26       | -   | -       | -   | -               | - | -       | -   | 26       | -                  |
| PY-03                        | 36       | -   | -       | -   | -               | - | -       | -   | 36       | -                  |
|                              | -        | -   | -       | 206 | -               | - | -       | -   | 206      | -                  |

Note : UL - Unloaded; L - Loaded.

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers/Sailing Vessels-1997-98 (Contd.)

| (In '000 Tonnes)             |          |       |      |                 |    |    |         |     |       |     |          |                 |                 |
|------------------------------|----------|-------|------|-----------------|----|----|---------|-----|-------|-----|----------|-----------------|-----------------|
| State /<br>Selected<br>Ports | Steamers |       |      | Sailing Vessels |    |    |         |     | Total |     |          |                 |                 |
|                              |          |       |      | Overseas        |    |    | Coastal |     |       |     |          |                 |                 |
|                              |          |       |      |                 |    |    |         |     |       |     |          |                 |                 |
|                              | UL       | L     | UL   | L               | UL | L  | UL      | L   | UL    | L   | Steamers | Sailing Vessels | Sailing Vessels |
| 1                            | 2        | 3     | 4    | 5               | 6  | 7  | 8       | 9   | 10    | 11  |          |                 |                 |
| PONDICHERRY                  | N        | -     | -    | -               | -  | -  | -       | -   | N     | -   |          |                 |                 |
| ANDHRA PRADESH               | 1133     | 544   | 59   | 1802            | -  | -  | -       | -   | 3538  | -   |          |                 |                 |
| Kakinada                     | 1133     | 544   | 59   | 33              | -  | -  | -       | -   | 1769  | -   |          |                 |                 |
| Rawa                         | -        | -     | -    | 1769            | -  | -  | -       | -   | 1769  | -   |          |                 |                 |
| ORISSA                       | 56       | 145   | -    | -               | -  | -  | -       | -   | 201   | -   |          |                 |                 |
| Gopalpur                     | 56       | 145   | -    | -               | -  | -  | -       | -   | 201   | -   |          |                 |                 |
| LAKSHADWEEP                  | -        | -     | 23   | -               | -  | -  | -       | -   | 23    | -   |          |                 |                 |
| ANDAMAN & NICOBAR            | 17       | -     | 368  | 187             | -  | -  | -       | -   | 572   | -   |          |                 |                 |
| TOTAL                        | 18730    | 10369 | 5210 | 4046            | 14 | 50 | 11      | 177 | 38355 | 252 |          |                 |                 |

Note : UL - Unloaded; L - Loaded.

### 3.2.1 Passenger Traffic Handled At Minor/Intermediate Ports

(In '00 Numbers)

| Year    | Overseas |             | Coastal  |             | Total    |             |
|---------|----------|-------------|----------|-------------|----------|-------------|
|         | Embarked | Disembarked | Embarked | Disembarked | Embarked | Disembarked |
| 1       | 2        | 3           | 4        | 5           | 6        | 7           |
| 1987-88 | 91       | -           | 78161    | 78059       | 78252    | 78059       |
| 1988-89 | -        | -           | 86371    | 86427       | 86371    | 86427       |
| 1989-90 | -        | -           | 84842    | 84421       | 84842    | 84421       |
| 1990-91 | -        | -           | 72050    | 69561       | 72050    | 69561       |
| 1991-92 | -        | -           | 78033    | 77826       | 78033    | 77826       |
| 1992-93 | 41       | -           | 75958    | 73473       | 75999    | 73473       |
| 1993-94 | -        | -           | 77489    | 76639       | 77489    | 76639       |
| 1994-95 | -        | -           | 79752    | 76590       | 79752    | 76590       |
| 1995-96 | -        | -           | 91487    | 86343       | 91487    | 86343       |
| 1996-97 | 15       | 1           | 77568    | 73937       | 77583    | 73938       |
| 1997-98 | 24       | 25          | 86098    | 84280       | 86122    | 84305       |

### 3.2.2-State wise Passenger Traffic(Overseas And Coastal)

|                    |         | (In '00 Numbers) |         |         |         |         |         |         |         |         |         |  |  |
|--------------------|---------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| State/UT/Port      | 1987-88 | 1988-89          | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |  |  |
| 1                  | 3       | 4                | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      |  |  |
| <b>GUJARAT</b>     | 283     | 596              | 10697   | 1056    | 1056    | 1602    | 1037    | 325     | 309     | 486     | 376     |  |  |
| Embarked           | 168     | 311              | 5329    | 531     | 531     | 827     | 551     | 163     | 158     | 243     | 188     |  |  |
| Disembarked        | 115     | 285              | 5368    | 525     | 525     | 775     | 486     | 162     | 151     | 243     | 188     |  |  |
| <b>MAHARASHTRA</b> | 140304  | 155919           | 139701  | 121817  | 135137  | 128146  | 132928  | 139669  | 160532  | 134077  | 154348  |  |  |
| Embarked           | 70238   | 77968            | 70199   | 62236   | 67790   | 65396   | 66964   | 71437   | 82900   | 68871   | 78119   |  |  |
| Disembarked        | 70066   | 77951            | 69502   | 59581   | 67347   | 62750   | 65964   | 68232   | 77632   | 65206   | 76229   |  |  |
| <b>GOA</b>         | -       | -                | -       | -       | -       | -       | -       | -       | -       | -       | 437     |  |  |
| Embarked           | -       | -                | -       | -       | -       | -       | -       | -       | -       | -       | 239     |  |  |
| Disembarked        | -       | -                | -       | -       | -       | -       | -       | -       | -       | -       | 198     |  |  |
| <b>KERALA</b>      | 20      | 20               | 36      | 33      | 33      | 39      | 50      | 87      | 46      | 46      | 86      |  |  |
| Embarked           | 10      | 10               | 11      | 4       | 4       | 21      | 26      | 43      | 14      | 14      | 51      |  |  |
| Disembarked        | 10      | 10               | 25      | 29      | 29      | 18      | 24      | 44      | 32      | 32      | 35      |  |  |

3.2.2-State wise Passenger Traffic (Overseas And Coastal) (Contd.)

(In '00 Numbers)

| State/UT/Port                       | 1987-88 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1                                   | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      |
| <b>TAMILNADU</b>                    | 14021   | 14380   | 14494   | 14020   | 14800   | 14852   | 15280   | 15172   | 15690   | 15543   | 13772   |
| Embarked                            | 7051    | 7190    | 7247    | 7010    | 7400    | 7447    | 7640    | 7586    | 7845    | 7772    | 6886    |
| Disembarked                         | 6970    | 7190    | 7247    | 7010    | 7400    | 7405    | 7640    | 7586    | 7845    | 7771    | 6886    |
| <b>ANDAMAN GROUP</b>                | 854     | 854     | 3288    | 4685    | 4833    | 4833    | 4833    | 1089    | 1253    | 1369    | 1408    |
| Embarked                            | 375     | 375     | 1547    | 2269    | 2308    | 2308    | 2308    | 523     | 570     | 683     | 639     |
| Disembarked                         | 479     | 479     | 1741    | 2416    | 2525    | 2525    | 2525    | 566     | 683     | 686     | 769     |
| <b>LAKSHADWEEP GROUP</b>            | 829     | 1029    | 1047    | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| Embarked                            | 410     | 517     | 509     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| Disembarked                         | 419     | 512     | 538     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| <b>ALL MINOR/INTERMEDIATE PORTS</b> | 156311  | 172798  | 169263  | 141611  | 155859  | 149472  | 154128  | 156342  | 177830  | 151521  | 170427  |
| Embarked                            | 78252   | 86371   | 84842   | 72050   | 78033   | 75999   | 77489   | 79752   | 91487   | 77583   | 86122   |
| Disembarked                         | 78059   | 86427   | 84421   | 69561   | 77826   | 73473   | 76639   | 76590   | 86343   | 73938   | 84305   |

3.3.1 Number Of Steamers/Sailing Vessels Entered At Minor/  
Intermediate Ports In Various Maritime States

| (In Number)             |         |                  |     |                |                |        |               |                  |                   |                        |
|-------------------------|---------|------------------|-----|----------------|----------------|--------|---------------|------------------|-------------------|------------------------|
| Type of Vessel/<br>Year | Gujarat | Mahara-<br>shtra | Goa | Daman<br>& Diu | Karna-<br>taka | Kerala | Tamil<br>Nadu | Pondi-<br>cherry | Andhra<br>Pradesh | Orissa : Sea<br>Island |
| 1                       | 2       | 3                | 4   | 5              | 6              | 7      | 8             | 9                | 10                | 11 12                  |
| <b>STEAMERS</b>         |         |                  |     |                |                |        |               |                  |                   |                        |
| 1991-92                 | 1199    | 132              | 176 | -              | 62             | 41     | 19            | 2                | 143               | 7                      |
| 1992-93                 | 2030    | 117              | 104 | -              | 83             | 45     | 31            | 2                | 153               | 10                     |
| 1993-94                 | 2109    | 132              | 104 | -              | 65             | 55     | 20            | 2                | 184               | 11                     |
| 1994-95                 | 2313    | 433              | 104 | -              | 73             | 65     | 27            | 2                | 126               | 9                      |
| 1995-96                 | 2559    | 500              | 104 | -              | 63             | 71     | 19            | 4                | 216               | 9                      |
| 1996-97                 | 2494    | 418              | 104 | -              | 74             | 54     | 16            | -                | 180               | 9                      |
| 1997-98                 | 3401    | 540              | 74  | -              | 74             | 78     | 23            | -                | 236               | 9                      |
| <b>SAILING VESSELS</b>  |         |                  |     |                |                |        |               |                  |                   |                        |
| 1991-92                 | 5179    | 19800            | 17  | 427            | 932            | 418    | 57            | 21               | -                 | -                      |
| 1992-93                 | 2186    | 18390            | 11  | 255            | 1162           | 402    | 33            | 21               | -                 | -                      |
| 1993-94                 | 6716    | 20053            | 11  | 255            | 813            | 389    | 68            | -                | 184               | -                      |
| 1994-95                 | 5613    | 18990            | 11  | 212            | 847            | 410    | 22            | -                | -                 | -                      |
| 1995-96                 | 4829    | 14484            | 11  | 120            | 993            | 378    | 28            | -                | -                 | -                      |
| 1996-97                 | 7518    | 14077            | 11  | 120            | 1057           | 321    | 14            | 3                | -                 | -                      |
| 1997-98                 | 7608    | 16282            | -   | 120            | 1069           | 283    | 31            | 3                | -                 | -                      |
| <b>TOTAL</b>            |         |                  |     |                |                |        |               |                  |                   |                        |
| 1991-92                 | 6378    | 19932            | 193 | 427            | 994            | 459    | 76            | 23               | 143               | 7                      |
| 1992-93                 | 4216    | 18507            | 115 | 255            | 1245           | 447    | 64            | 23               | 153               | 10                     |
| 1993-94                 | 8825    | 20185            | 115 | 255            | 878            | 444    | 88            | 2                | 184               | 11                     |
| 1994-95                 | 7926    | 19423            | 115 | 212            | 920            | 475    | 49            | 2                | 126               | 9                      |
| 1995-96                 | 7388    | 14984            | 115 | 120            | 1056           | 448    | 47            | 4                | 216               | 9                      |
| 1996-97                 | 10012   | 14495            | 115 | 120            | 1131           | 375    | 30            | 3                | 180               | 9                      |
| 1997-98                 | 11009   | 16822            | 74  | 120            | 1143           | 361    | 54            | 3                | 236               | 9                      |

\* Data relates to Andaman & Nicobar Island only  
From 1992-93 to 1994-95 data is for Port Blair.  
From 1995-96, Onwards in addition to Port Blair, steamers entered at  
Rangat, Diglipur, Mayabunder, Hut Bay, Car Nicobar, Nancowry, Katchal and  
Campbell is also included.

### 3.4.1 Employment At Minor Ports ( 1997-98)

| States/UTs                | Sanctioned | Officers |            | Regular Workers |            | Casual Workers |
|---------------------------|------------|----------|------------|-----------------|------------|----------------|
|                           |            | Actual   | Sanctioned | Actual          | Sanctioned |                |
| Gujarat                   | 101        | 57       | 2231       | 1857            |            | 308            |
| Maharashtra               | 67         | 54       | 175        | 153             |            | -              |
| Goa                       | 10         | 8        | 168        | 154             |            | -              |
| Daman & Diu               | 2          | 2        | 21         | 18              |            | 7              |
| Karnataka                 | 89         | 70       | 39         | 19              |            | 2#             |
| Kerala                    | 157        | 97       | 321        | 268             |            | 1219           |
| Tamil Nadu                | 243        | 204      | *          | *               |            | -              |
| Pondicherry               | 8          | 5        | 113        | 99              |            | -              |
| Andhra Pradesh            | 5          | 3        | 74         | 60              |            | -              |
| Orissa @                  | 237        | 144      | 50         | 50              |            | -              |
| Andaman & Nicobar Islands | 16         | 13       | 813        | 768             |            | 50             |
| Lakshadweep               | 256        | 217      | -          | -               |            | 4              |
| Total                     | 1191       | 874      | 4005       | 3446            |            | 1590           |

@ Data relates to 1994-95.

# In Karwar Cargo handling operation is done by stevedors and by Private operators.

\* Regular/Casual workers/Labourers are not employed in the above ports for doing works.  
The labourers are being engaged by the stevedors according to the number of ships.

### 3.5.1 Physical Performance At Minor Ports (1996-97 and 1997-98)

| Maritime State/UT |                        |                                   |                                      |         |         |
|-------------------|------------------------|-----------------------------------|--------------------------------------|---------|---------|
| Port              | No. of Vessels<br>Left | Average Waiting<br>Time (in Days) | Average Turn Round<br>Time (in Days) | 1996-97 | 1997-98 |
| <b>Gujarat</b>    |                        |                                   |                                      |         |         |
| Porbandar         | 110                    | 123                               | 5.0                                  | 4.6     | 5.0     |
| Okha              | 91                     | 105                               | 1.0                                  | 1.0     | 1.0     |
| Veraval           | 12                     | 14                                | 1.8                                  | 0.9     | 16.3    |
| Bedi              | 236                    | 232                               | -                                    | -       | -       |
| Sikka             | 101                    | 120                               | 1.0                                  | 1.0     | -       |
| Mahuva            | 8                      | 14                                | -                                    | -       | -       |
| Navalakhli        | -                      | 35                                | -                                    | -       | -       |
| Jafarabad*        | 485                    | 526                               | -                                    | -       | -       |
| Bhavnagar @       | 59                     | 59                                | -                                    | -       | -       |
| Pipavav           | 260                    | 241                               | -                                    | -       | -       |
| Mul-Dwarka        | -                      | 65                                | 0.1                                  | -       | 2.1     |

\* Jafarabad is a direct berthing port and handling only clicker traffic by smaller coastal vessel. Since loading is done mechanically the waiting period therefore either due to port account or other account is nil.

@ At this port six vessels at a time are allowed to work. Other vessels have to wait for her turn for working if they do not wish to work with private barges.

### 3.5.1 Physical Performance At Minor Ports (1996-97 and 1997-98) (Contd..)

| Maritime State/UT |                        |         |                                   |         |                                      |         |
|-------------------|------------------------|---------|-----------------------------------|---------|--------------------------------------|---------|
| Port              | No. of Vessels<br>Left |         | Average Waiting<br>Time (In Days) |         | Average Turn Round<br>Time (In Days) |         |
|                   | 1996-97                | 1997-98 | 1996-97                           | 1997-98 | 1996-97                              | 1997-98 |
| Karnataka         |                        |         |                                   |         |                                      |         |
| Kawar             | 72                     | 59      | -                                 | -       | -                                    | -       |
| Tadri             | 28                     | 37      | -                                 | -       | -                                    | -       |
| Kundapura         | 24                     | 20      | 5.0                               | -       | 5.0                                  | -       |
| Hangarkatta       | -                      | -       | -                                 | -       | -                                    | -       |
| Malpe             | 125                    | -       | -                                 | -       | -                                    | -       |
| Old Mangalore     | 837                    | 859     | -                                 | -       | -                                    | -       |
| Honavar           | 2                      | -       | -                                 | -       | -                                    | -       |
| Tamil Nadu        |                        |         |                                   |         |                                      |         |
| Cuddalore         | 13                     | 24      | -                                 | 1.6     | 14.0                                 | ...     |
| Rameshwaram       | 1                      | -       | -                                 | -       | -                                    | -       |
| Colachel          | 3                      | -       | -                                 | -       | -                                    | -       |
| PY-3              | -                      | 24      | -                                 | 0.8     | -                                    | 2.0     |
| Daman             |                        |         |                                   |         |                                      |         |
|                   | -                      | -       | -                                 | -       | -                                    | -       |
| Orissa            |                        |         |                                   |         |                                      |         |
| Gopalpur          | 12                     | 12      | 0.8                               | 0.8     | ...                                  | ...     |
| Maharashtra       |                        |         |                                   |         |                                      |         |
| Ratnagiri         | 153                    | 120     | 0.6                               | 0.4     | 1.8                                  | 1.4     |
| Ranpar (Sub-port) | 18                     | 31      | 0.6                               | 0.6     | 1.4                                  | 1.8     |
| Dabhol            | 6                      | 23      | 0.2                               | 0.2     | 3.3                                  | 17.4    |

1::

### 3.5.1 Physical Performance At Minor Ports (1996-97 and 1997-98) (Contd..)

| Maritime State/UT        |  | No. of Vessels Left |         | Average Waiting Time (in Days) |         | Average Turn Round Time (in Days) |         |
|--------------------------|--|---------------------|---------|--------------------------------|---------|-----------------------------------|---------|
| Port                     |  | 1996-97             | 1997-98 | 1996-97                        | 1997-98 | 1996-97                           | 1997-98 |
| <b>Andhra Pradesh</b>    |  |                     |         |                                |         |                                   |         |
| Rawa port                |  | -                   | 29      | -                              | -       | -                                 | -       |
| <b>Goa</b>               |  |                     |         |                                |         |                                   |         |
| Panaji                   |  | "                   | 74      | "                              | 5.1     | "                                 | -       |
| <b>Kerala</b>            |  |                     |         |                                |         |                                   |         |
| Kozhikode                |  | 370                 | 319     | 1.9                            | 2.5     | 2.7                               | "       |
| Nendakara                |  | 2                   | 5       | 1.0                            | 1.0     | 10.0                              | 4.0     |
| Azhikkal                 |  | 33                  | 23      | "                              | -       | 0.1                               | 0.3     |
| Koavalam/Vizhinjam       |  | 10                  | 38      | 4.2                            | 3.3     | "                                 | "       |
| <b>A &amp; N Islands</b> |  |                     |         |                                |         |                                   |         |

Berthing space is provided immediately .  
Turn round time for each vessel called at the port ranges from 3 to 5 days.

### 3.5.2 Equipments Available At Various Minor Ports.

Maritime state/UT : Gujarat

| Equipment/Port     | Magdalla |         | Porbander |         | Okha    |         | Bedi    |         |
|--------------------|----------|---------|-----------|---------|---------|---------|---------|---------|
|                    | 1996-97  | 1997-98 | 1996-97   | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 |
| 1. Dredgers        | -        | -       | 1         | 1       | 1       | 1       | 1       | -       |
| 2. Cranes          |          |         |           |         |         |         |         |         |
| (a) upto 5 tons    | -        | -       | 1         | 1       | 1       | 1       | -       | 1       |
| (b) 6-10 tons      | -        | -       | -         | -       | -       | -       | -       | -       |
| (c) above 10 tons  | 2        | 2       | 2         | 2       | 3       | 3       | 9       | 9       |
| 3. Barges          |          |         |           |         |         |         |         |         |
| (a) Dumb           | 3        | 1       | 2         | 2       | 4       | -       | 12      | 4       |
| (b) Self-propelled | -        | 2       | -         | -       | 3       | 3       | 2       | 2       |
| 4. Launches        | 2        | 1       | 1         | 1       | 2       | 2       | 3       | 3       |
| 5. Tugs            | 1        | 1       | 4         | 5       | 5       | 4       | 6       | 6       |

### 3.5.2 Equipments Available At Various Minor Ports (Contd.)

Maritime state/UT : Gujarat

| Equipment/Port     | Veraval |         |         | Navalakh |         |         | Bhavnager |         |         | Mandvi  |         |         | Jafarabad |         |         |
|--------------------|---------|---------|---------|----------|---------|---------|-----------|---------|---------|---------|---------|---------|-----------|---------|---------|
|                    | 1996-97 | 1997-98 | 1998-99 | 1996-97  | 1997-98 | 1998-99 | 1996-97   | 1997-98 | 1998-99 | 1996-97 | 1997-98 | 1998-99 | 1996-97   | 1997-98 | 1998-99 |
| 1. Dredgers        | 1       | -       | -       | -        | -       | -       | 2         | 3       | 3       | 2       | 1       | 1       | 1         | 1       | 1       |
| 2. Cranes          |         |         |         |          |         |         |           |         |         |         |         |         |           |         |         |
| (a) upto 5 tons    | 3       | 2       | -       | -        | -       | -       | -         | -       | -       | -       | -       | -       | -         | -       | -       |
| (b) 6-10 tons      | -       | -       | -       | -        | 9       | -       | -         | -       | -       | -       | -       | -       | -         | -       | -       |
| (c) above 10 tons  | 5       | 5       | -       | 7        | 1       | -       | -         | -       | -       | -       | -       | -       | -         | -       | -       |
| 3. Barges          |         |         |         |          |         |         |           |         |         |         |         |         |           |         |         |
| (a) Dumb           | 18      | 16      | -       | 4        | 13      | -       | 5         | 5       | 5       | 10      | 6       | -       | -         | 1       | -       |
| (b) Self Propelled | -       | -       | -       | -        | -       | -       | 2         | 2       | 2       | -       | -       | -       | 1         | -       | -       |
| 4. Launches        | -       | -       | -       | -        | -       | -       | 1         | 1       | 1       | 1       | 1       | 1       | 1         | -       | -       |
| 5. Tugs            | 5       | 5       | -       | 4        | -       | -       | 5         | 3       | 3       | 3       | 3       | 3       | 1         | 1       | 1       |

### 3.5.2 Equipments Available At Various Minor Ports (Contd..)

Maritime State/UT : Karnataka

| Equipment/Port     | Karnataka |         | Old Mangalore |         |
|--------------------|-----------|---------|---------------|---------|
|                    | 1996-97   | 1997-98 | 1996-97       | 1997-98 |
| 1. Dredgers        | 1         | 1       | -             | -       |
| 2. Cranes          |           |         |               |         |
| (a) upto 5 tons    | -         | -       | -             | -       |
| (b) 6-10 tons      | -         | -       | -             | -       |
| (c) above 10 tons  | 3         | 3       | -             | -       |
| 3. Barges          |           |         |               |         |
| (a) Dumb           | -         | -       | -             | -       |
| (b) Self-propelled | -         | -       | -             | -       |
| (c) Water barges   | -         | -       | -             | -       |
| 4. Launches        | -         | -       | -             | -       |
| 5. Tugs            | 1         | 1       | 2             | 2       |

### 3.5.2 Equipments Available At Various Minor Ports (Contd..)

| Maritime State/UT : Tamilnadu |           |         |             |         |              |         |
|-------------------------------|-----------|---------|-------------|---------|--------------|---------|
| Equipment/Port                | Cuddalore |         | Rameshwaram |         | Kanya Kumari |         |
|                               | 1996-97   | 1997-98 | 1996-97     | 1997-98 | 1996-97      | 1997-98 |
| 1. Dredgers                   | 2         | 2       | 1           | -       | 1            | -       |
| 2. Cranes                     |           |         |             |         |              |         |
| (a) upto 5 tons               | -         | -       | -           | -       | -            | -       |
| (b) 6-10 tons                 | 1         | 1       | -           | -       | -            | -       |
| (c) above 10 tons             | -         | -       | -           | -       | -            | -       |
| 3. Barges                     |           |         |             |         |              |         |
| (a) Dumb                      | -         | -       | -           | -       | -            | -       |
| (b) Self-propelled            | 1         | 1       | 1           | 1       | -            | -       |
| 4. Launches                   | 2         | 2       | 1           | 1       | -            | -       |
| 5. Tugs                       | -         | -       | -           | -       | -            | -       |

### 3.5.2 Equipments Available At Various Minor Ports (Contd..)

Maritime State/UT : Andhra Pradesh

| Equipment/Port          | Kakinada<br>1996-97 | Anchorage Port<br>1997-98 | Kakinada Deep Water Port<br>1996-97 | 1997-98 |
|-------------------------|---------------------|---------------------------|-------------------------------------|---------|
| 1. Dredgers             | 5                   | 5                         | -                                   | -       |
| 2. Cranes               |                     |                           |                                     |         |
| (a) upto 5 tons         | 1                   | 1                         | -                                   | -       |
| (b) 6-10 tons           | 1                   | 1                         | -                                   | -       |
| (c) above 10 tons       | 1                   | 1                         | 2                                   | 2       |
| 3. Barges               |                     |                           |                                     |         |
| (a) Dumb (Hopper barge) | 7                   | 7                         | -                                   | -       |
| (b) Self-propelled      | 2                   | 2                         | -                                   | -       |
| (c) Water barges        | -                   | -                         | -                                   | -       |
| 4. Launches             | 8                   | 8                         | -                                   | -       |
| 5. Tugs                 | 8                   | 8                         | -                                   | -       |
| 6. Pablos               | -                   | -                         | 3                                   | 3       |
| 7. Fork lifts           | -                   | -                         | 12                                  | 12      |

### 3.5.2 Equipments Available At Various Minor Ports (Contd..)

Maritime State/UT :

| Equipment/Port     | Gopalpur (Orissa) | Maharashtra * | Lakshadweep *   |
|--------------------|-------------------|---------------|-----------------|
|                    | 1996-97           | 1997-98       | 1996-97 1997-98 |
| 1. Dredgers        | 2                 | 2             | 3               |
| 2. Cranes          |                   |               |                 |
| (a) upto 5 tons    | 4                 | 4             | -               |
| (b) 6-10 tons      | 2                 | 2             | -               |
| (c) above 10 tons  | -                 | -             | -               |
| 3. Barges          |                   |               |                 |
| (a) Dumb           | 6                 | 6             | 1               |
| (b) Self-propelled | 4                 | 4             | 4               |
| 4. Launches        | 3                 | 3             | 2               |
| 5. Tugs            | 1                 | 1             | 2               |
|                    |                   |               | 8               |
|                    |                   |               | 9               |

Note : \* Portwise breakup is not available.

### 3.5.2 Equipments Available At Various Minor Ports (Contd..)

Maritime State/UT :

| Equipment/Port     | Daman   |         | Pondicherry |         |
|--------------------|---------|---------|-------------|---------|
|                    | 1996-97 | 1997-98 | 1996-97     | 1997-98 |
| 1. Dredgers        | -       | -       | 2           | 2       |
| 2. Cranes          |         |         |             |         |
| (a) upto 5 tons    | -       | -       | -           | -       |
| (b) 6-10 tons      | -       | -       | 1           | 1       |
| (c) above 10 tons  | -       | -       | 2           | 2       |
| 3. Barges          |         |         |             |         |
| (a) Dumb           | -       | -       | -           | -       |
| (b) Self-propelled | -       | -       | -           | -       |
| 4. Launches        | 2       | 2       | 3           | 3       |
| 5. Tugs            | -       | -       | -           | -       |

### 3.5.2 Equipments Available At Various Minor Ports (Contd...)

| Maritime State/UT : A & N Islands |            |         |            |         |          |         |
|-----------------------------------|------------|---------|------------|---------|----------|---------|
| Equipment/Port                    | Port Blair |         | Mayabunder |         | Diglipur |         |
|                                   | 1996-97    | 1997-98 | 1996-97    | 1997-98 | 1996-97  | 1997-98 |
| <b>1. Dredgers</b>                | -          | -       | -          | -       | -        | -       |
| <b>2. Cranes</b>                  |            |         |            |         |          |         |
| (a) upto 5 tons                   | 18         | 18      | 1          | 1       | -        | 1       |
| (b) 6-10 tons                     | 7          | 8       | 3          | 2       | 1        | -       |
| (c) above 10 tons                 | 4          | 5       | -          | -       | -        | -       |
| <b>3. Barges</b>                  |            |         |            |         |          |         |
| (a) Dumb                          | -          | -       | -          | -       | -        | -       |
| (b) Self-propelled                | -          | -       | -          | -       | -        | -       |
| <b>4. Launches</b>                | 6          | 5       | -          | -       | -        | -       |
| <b>5. Tugs</b>                    | 2          | 2       | -          | -       | -        | -       |

### 3.5.2 Equipment Available At Various Minor Ports (Contd.)

| Maritime state/UT : A & N Islands |         |         |          |         |          |         |
|-----------------------------------|---------|---------|----------|---------|----------|---------|
| Equipment/Port                    | Rut Bay |         | Nancowry |         | Campbell |         |
|                                   | 1996-97 | 1997-98 | 1996-97  | 1997-98 | 1996-97  | 1997-98 |
| 1. Dredgers                       | -       | -       | -        | -       | -        | -       |
| 2. Cranes                         |         |         |          |         |          |         |
| (a) upto 5 tons                   | 3       | 3       | -        | 1       | 1        | 1       |
| (b) 6-10 tons                     | 2       | 1       | 1        | 1       | 1        | 1       |
| (c) above 10 tons                 | -       | 1       | -        | -       | 1        | 1       |
| 3. Barges                         |         |         |          |         |          |         |
| (a) Dumb                          | -       | -       | -        | -       | -        | -       |
| (b) Self-propelled                | -       | -       | -        | -       | -        | -       |
| 4. Launches                       | -       | -       | -        | -       | -        | -       |
| 5. Tugs                           | -       | -       | -        | -       | -        | -       |

### 3.5.2 Equipment Available At Various Minor Ports (Contd..)

| Maritime state/UT : Kerala |  |         |         |            |         |           |         |          |         |
|----------------------------|--|---------|---------|------------|---------|-----------|---------|----------|---------|
| Equipment/Port             |  | Calicut |         | Neendakara |         | Kozhikode |         | Azhikkal |         |
|                            |  | 1996-97 | 1997-98 | 1996-97    | 1997-98 | 1996-97   | 1997-98 | 1996-97  | 1997-98 |
| 1. Dredgers                |  | 1       | 1       | 2          | 1       | 1         | -       | -        | -       |
| 2. Cranes                  |  |         |         |            |         |           |         |          |         |
| (a) upto 5 tons            |  | 5       | 5       | -          | -       | -         | 5       | 1        | 1       |
| (b) 6-10 tons              |  | -       | -       | -          | -       | 1         | -       | -        | -       |
| (c) above 10 tons          |  | 1       | 1       | -          | -       | -         | -       | -        | -       |
| 3. Barges                  |  |         |         |            |         |           |         |          |         |
| (a) Dumb                   |  | -       | -       | -          | -       | -         | -       | -        | -       |
| (b) Self propelled         |  | -       | -       | -          | -       | -         | -       | -        | -       |
| 4. Launches                |  | -       | -       | -          | -       | -         | -       | -        | -       |
| 5. Tugs                    |  | 2       | 2       | 2          | 2       | 1         | 2       | -        | -       |

### 3.5.3 Draft At Ports as On 31st March, 1998

#### Maritime State UT:Gujarat

| Name of the Port | Intermediate Minor | Max.Depth available at anchorage | Berth Type                                        | No. of Berth by existing Draft |            |            |                |       |
|------------------|--------------------|----------------------------------|---------------------------------------------------|--------------------------------|------------|------------|----------------|-------|
|                  |                    |                                  |                                                   | Below 2 meters                 | 2-4 meters | 4-6 meters | 6 meters above | Total |
| 1                | 2                  | 3                                | 4                                                 | 5                              | 6          | 7          | 8              | 9     |
| Dahej            | Minor              | 20 mtrs.                         | Wharf                                             | -                              | -          | 1          | -              | 1     |
| Porbandar        | Minor              | 7.0 mtrs                         | Deep water Berth                                  | -                              | -          | 1          | -              | 1     |
| Bedl             | Intermediate       | 2 mtrs.                          | -                                                 | -                              | -          | -          | 4              | 4     |
| Rozl (sub-Port)  | Intermediate       | 14 mtrs.                         | -                                                 | -                              | 1          | -          | 1              | 2     |
| Sikka            | Intermediate       | 8 mtrs.                          | RCC                                               | -                              | -          | -          | 1              | 1     |
| Mandvi           | Intermediate       | 10 mtrs                          | Wharf                                             | -                              | 2          | -          | -              | 2     |
| Jakhau           | Minor              | 9.3 mtrs                         | Jetty Wharf                                       | -                              | -          | -          | -              | -     |
| Mundra           | Minor              | 10 mtrs.                         | RCC Jetty                                         | -                              | 1          | -          | -              | 1     |
| Veraval          | Intermediate       | 13-14 mtrs.                      | Direct berth for small coaster with 3 Mtrs.draft. | -                              | 1          | -          | -              | 1     |

3.5.3 Draft At Ports as On 31st March, 1998 (Contd..)

Maritime State/UT :Gujarat

| Name of the Port | Intermediate<br>Minor | Max.Depth<br>available at<br>anchorage | Berth<br>Type                                                                              | No. of Berths by existing Draft |               |               |                   |       |
|------------------|-----------------------|----------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------|---------------|---------------|-------------------|-------|
|                  |                       |                                        |                                                                                            | Below<br>2 meters               | 2-4<br>meters | 4-6<br>meters | 6 meters<br>above | Total |
| 1                | 2                     | 3                                      | 4                                                                                          | 5                               | 6             | 7             | 8                 | 9     |
| Mul-Dwarka       | Intermediate          | 13-14 Mtrs.                            | Direct berth for<br>small coaster                                                          | -                               | 2             | -             | -                 | 2     |
|                  | Fair Weather Port     |                                        |                                                                                            |                                 |               |               |                   |       |
| Talaja           | Minor                 | -                                      | 1 Jetty RCC<br>Piled with RCC<br>slabs decking                                             | 1                               | -             | -             | -                 | 1     |
| Okha             | Intermediate          | 42 feet                                | Sayaajipier<br>Dry Bulk (East)<br>Sheet piled<br>Wharf<br>Lighter Cargo<br>Passenger Jetty | -                               | -             | -             | -                 | -     |
|                  |                       |                                        |                                                                                            | -                               | 1             | -             | -                 | 1     |
|                  |                       |                                        |                                                                                            | -                               | 1             | -             | -                 | 1     |
| Valsad           | Minor                 | No anchorage<br>fixed                  | RCC jetty                                                                                  | 1                               | -             | -             | -                 | 1     |

3.5.3 Draft At Ports as On 31st March, 1998 (Contd.)

Maritime State UT:Gujarat

| Name of the Port | Intermediate/ Minor | Max. Depth available at anchorage | Berth Type        | No. of Berths by existing Draft |            |            |                |   | Total |
|------------------|---------------------|-----------------------------------|-------------------|---------------------------------|------------|------------|----------------|---|-------|
|                  |                     |                                   |                   | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters above |   |       |
| 1                | 2                   | 3                                 | 4                 | 5                               | 6          | 7          | 8              | 9 |       |
| Magdalla         | Intermediate        | 11 mtr.                           | RCC Jetty         | -                               | 4          | -          | -              | - | 4     |
| Kolak            | Minor               | No Anchorage fixed                | Fishing Jetty     | 1                               | -          | -          | -              | - | 1     |
| Vansl Borsl      | Minor               | 11 mtr.                           | RCC Fishing Jetty | 1                               | -          | -          | -              | - | 1     |
| Onjal            | Minor               | 11 mtr.                           | RCC Fishing Jetty | 1                               | -          | -          | -              | - | 1     |
| Umergaon         | Minor               | No Anchorage fixed                | RCC Fishing Jetty | 2                               | -          | -          | -              | - | 2     |
| Umersadi         | Minor               | No Anchorage fixed                | Fishing Jetty     | 1                               | -          | -          | -              | - | 1     |
| Billimora        | Minor               | No Anchorage fixed                | Wooden jetty      | 3                               | -          | -          | -              | - | 3     |

3.5.3 Draft At Ports as On 31st March, 1998 (Contd.)

Maritime State/UT:Gujarat

| Name of the Port | Intermediate Minor | Max.Depth available at anchorage | Berth Type                                                                                                               | No. of Berths by existing Draft |            |            |                |        |
|------------------|--------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|------------|----------------|--------|
|                  |                    |                                  |                                                                                                                          | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters above | Total  |
| 1                | 2                  | 3                                | 4                                                                                                                        | 5                               | 6          | 7          | 8              | 9      |
| Bhavnagar        | Intermediate       | At D.W.A. 10 Metres              | 1) Concrete Jetty RCC piles with slab with decking<br>2) Akwade Wharf RCC wall<br>3) North Quay RCC with Well foundation | -                               | -          | 1          | -              | 1      |
| Gogha            | Minor              | -                                | 1 Jetty RCC                                                                                                              | 1                               | -          | -          | -              | 1      |
| Jafarabad        | Intermediate/Minor | 14. mtrs.                        | Clinkers jetty<br>T Shape jetty                                                                                          | 1                               | -          | -          | -              | 1      |
| Pipavav          | Minor              | 3mtrs                            | Along side wharf(east)<br>Along side wharf (west)                                                                        | 1<br>1                          | -          | -          | -              | 1<br>1 |
| Nav-lakhi        | Intermediate       | -                                | Stead pile wharf                                                                                                         | 1                               | -          | -          | -              | 1      |

### 3.5.3 Draft At Ports as On 31st March, 1998 (Contd.)

| Maritime State/UT: Maharashtra |                     |                                  |                     |                                 |            |            |                |       |
|--------------------------------|---------------------|----------------------------------|---------------------|---------------------------------|------------|------------|----------------|-------|
| Name of the Port               | Intermediate/ Minor | Max Depth available at anchorage | Berth Type          | No. of Berths by existing Draft |            |            |                |       |
|                                |                     |                                  |                     | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters above | Total |
| 1                              | 2                   | 3                                | 4                   | 5                               | 6          | 7          | 8              | 9     |
| Dahanu                         | Minor               | 18 mtrs                          | Passenger jetty     | 1                               | -          | 1          | -              | 2     |
| Satpati                        | Minor               | 4mtrs                            | Passenger jetty     | -                               | -          | 5          | -              | 5     |
| Kelwa Mahim                    | Minor               | 5mts                             | Passenger jetty     | 1                               | -          | -          | -              | 1     |
| Arnala                         | Minor               | 10mts                            | Passenger jetty     | 1                               | -          | -          | -              | 1     |
| Dattware                       | Minor               | 10mts                            | Stopping jetty      | 1                               | -          | -          | -              | 1     |
| Manori                         | Minor               | 5mts                             | Stopping jetty      | 4                               | -          | -          | -              | 4     |
| Versova                        | Minor               | 5mts                             | Passenger jetty     | -                               | 2          | -          | -              | 2     |
| Bandra                         | Minor               | 2mts                             | Fishing wharf jetty | 1                               | -          | -          | -              | 1     |
| Bassein                        | Minor               | 5mts                             | Jetty               | -                               | -          | -          | -              | -     |
| Bhiwandi                       | Minor               | 6mts                             | Passenger jetty     | 1                               | -          | -          | -              | 1     |
| Kalyan                         | Minor               | 6mts                             | Jetty               | 3                               | -          | -          | -              | 3     |
| Thane                          | Minor               | 6mts                             | Passenger jetty     | -                               | -          | -          | -              | -     |
|                                |                     |                                  | Stopping jetty      | -                               | -          | -          | -              | -     |

3.5.3 Draft At Ports As On 31st March, 1998 (Contd...)

| Matitime State/UT: Maharashtra (Contd...) |                     |                                  | No. of Berths by existing Draft |                |            |            |                |       |
|-------------------------------------------|---------------------|----------------------------------|---------------------------------|----------------|------------|------------|----------------|-------|
| Name of the Port                          | Intermediate/ Minor | Max Depth available at anchorage | Berth Type                      | Below 2 meters | 2-4 meters | 4-6 meters | 6 meters above | Total |
| 1                                         | 2                   | 3                                | 4                               | 5              | 6          | 7          | 8              | 9     |
| Ulwa Belapur                              | Minor               | 4mts                             | Cargo jetty                     | -              | -          | -          | -              | 1     |
| Mora                                      | Minor               | 6mts                             | Passenger Jetty                 | 2              | 2          | -          | -              | 1     |
| Karanja                                   | Minor               | 10mts                            | Passenger Jetty                 | 1              | 1          | -          | -              | 1     |
| Rewas                                     | Minor               | 5mts                             | Passenger Jetty                 | 1              | 1          | -          | -              | 1     |
| Mandwa                                    | Minor               | 5mts                             | Passenger Jetty                 | -              | -          | -          | -              | 1     |
| Dherambar                                 | Minor               | 3mts                             | Passenger Jetty                 | -              | -          | -          | -              | 1     |
| Murud                                     | Minor               | 3mts                             | Cargo jetty                     | -              | -          | -          | -              | 1     |
| Rajpuri                                   | Minor               | 2mts                             | Cargo jetty                     | 1              | 1          | -          | -              | 1     |
| Dighi                                     | Minor               | 2mts                             | Cargo jetty                     | 1              | 1          | -          | -              | 1     |
| Shriwardhan                               | Minor               | 3mts                             | Passenger Jetty                 | -              | -          | -          | -              | 1     |
| Revdanda                                  | Minor               | 14mts                            | Sloping cargo jetty             | 1              | -          | -          | -              | 1     |

3.5.3 Draft At Ports As On 31st March, 1998 (Contd.)

| Maritime State/UT: Maharashtra (Contd.) |       |                                  |              |   | No. of Berths by existing Draft |            |            |                |       |
|-----------------------------------------|-------|----------------------------------|--------------|---|---------------------------------|------------|------------|----------------|-------|
| Name of the Intermediate/Port           | Minor | Max.Depth available at anchorage | Berth Type   |   | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters above | Total |
| 1                                       | 2     | 3                                | 4            | 5 | 6                               | 7          | 8          | 9              |       |
| Bankot                                  | Minor | 6mts                             | L Type jetty | - | -                               | 1          | -          | -              | 1     |
| Harnal                                  | Minor | 4.5mts                           | jetty        | 1 | -                               | -          | -          | -              | 1     |
| Dabhol                                  | Minor | 7mts                             | jetty        | 1 | -                               | -          | -          | -              | 1     |
| Palsbet                                 | Minor | 6mts                             | jetty        | 1 | -                               | -          | -          | -              | 1     |
| Borya                                   | Minor | 6mts                             | jetty        | 1 | -                               | -          | -          | -              | 1     |
| Jalgad                                  | Minor | 7mts                             | T Type Jetty | - | -                               | -          | -          | 1              | 1     |
| Ratnagiri                               | Minor | 5mts                             | I Type jetty | - | -                               | 1          | -          | -              | 1     |
| Jaitapur                                | Minor | 2mts                             | I Type jetty | - | -                               | 1          | -          | -              | 1     |
|                                         |       | 4mts                             | I Type jetty | - | -                               | 1          | -          | -              | 1     |
|                                         |       | 3mts                             | T Type Jetty | - | -                               | 1          | -          | -              | 1     |
| Vijaydurg                               | Minor |                                  |              |   |                                 |            |            |                |       |

3.5.3 Draft At Ports As On 31st March, 1998 (Contd..)

| Maritime State/UT: Maharashtra (Contd.) |       |                    |                                  |                |                                 |            |            |                |       |  |
|-----------------------------------------|-------|--------------------|----------------------------------|----------------|---------------------------------|------------|------------|----------------|-------|--|
| Name of the Port                        |       | Intermediate/Minor | Max.Depth available at anchorage | Berth Type     | No. of Berths by existing Draft |            |            |                |       |  |
|                                         |       |                    |                                  |                | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters above | Total |  |
| 1                                       | 2     | 3                  | 4                                | 5              | 6                               | 7          | 8          | 9              |       |  |
| Deogad                                  | Minor | 4mts               | Passenger Jetty                  | -              | 1                               | -          | -          | -              | 1     |  |
| Malvan                                  | Minor | 4mts               | L Type Jetty                     | 1              | -                               | -          | -          | -              | 1     |  |
| Vengurla                                | Minor | 6mts               | Jetty                            | 1              | -                               | -          | -          | -              | 1     |  |
| Tarapur                                 | Minor | 16-20mts           | Passenger Jetty                  | -              | -                               | -          | -          | -              | -     |  |
| Redi                                    | Minor | 6mts               | Jetty                            | -              | 2                               | -          | -          | -              | 2     |  |
| KironDani                               | Minor | 2mts               | Jetty                            | -              | 1                               | -          | -          | -              | 1     |  |
| Nawapur                                 | Minor | 40mts              | Passenger Jetty                  | 2              | -                               | -          | -          | -              | 2     |  |
| Mandad                                  | Minor | 3mts               | Cargo Jetty                      | 1              | 1                               | -          | -          | -              | 2     |  |
| Nandgaon                                | Minor | 2mts               | L Type Jetty                     | -              | -                               | -          | -          | -              | -     |  |
| Orissa                                  |       |                    |                                  |                |                                 |            |            |                |       |  |
| Gopalpur                                | Minor | 18 mtr.            | Open Road Stead Port             | -              | -                               | -          | -          | 1              | 1     |  |
|                                         |       |                    |                                  | (above 9 mtr.) |                                 |            |            |                |       |  |

3.5.3 Draft At Ports as On 31st March, 1998 (Contd.)

Maritime State/UT: Tamilnadu

| Name of the Port | Intermediate/Minor | Max. Depth available at anchorage                                         | Berth Type | No. of Berths by existing Draft                              |   |   |   |   |
|------------------|--------------------|---------------------------------------------------------------------------|------------|--------------------------------------------------------------|---|---|---|---|
| 1                | 2                  | 3                                                                         | 4          | 5                                                            | 6 | 7 | 8 | 9 |
|                  |                    |                                                                           |            | Below 2-4 4-6 6 meters Total<br>2 meters meters meters above |   |   |   |   |
| 1. Cuddalore     | Intermediate       | Open roadstead Port                                                       |            | Any size of vessel can be anchored in the mid stream.        |   |   |   |   |
| 2. Nagapattinam  | Intermediate       | Open roadstead Port.<br>Depth available according to draft of the vessel. |            | -                                                            | - | - | - | - |
| 3. Rameshwaram   | Minor              | 5 mtrs Open Roadstead                                                     |            | -                                                            | - | - | - | - |
| 4. Pamban        | Minor              | 3.4 mtrs.                                                                 |            | -                                                            | - | - | - | - |
| 5. Colachel      | Minor              | 13 Mtrs. Open Roadstead                                                   |            | -                                                            | - | - | - | - |
| 6. Valinokkam    | Minor              | About 12 mtrs. Open Roadstead                                             |            | -                                                            | - | - | - | - |
| 7. Kanyakumari   | Minor              | (Not a steamer calling Port)                                              |            | -                                                            | - | - | - | - |
| 8. Ennore        | Minor              | 15 mtrs. Open Roadstead                                                   |            | -                                                            | - | - | - | - |

3.5.3 Draft At Ports as On 31st March, 1998 (Contd..)

| Maritime State/UT : Andhra Pradesh |                     |                                   |                                                          | No. of Berths by existing Draft |            |            |                      |
|------------------------------------|---------------------|-----------------------------------|----------------------------------------------------------|---------------------------------|------------|------------|----------------------|
| Name of the Port                   | Intermediate/ Minor | Max. Depth available at anchorage | Berth Type                                               | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters Total above |
| 1                                  | 2                   | 3                                 | 4                                                        | 5                               | 6          | 7          | 8 9                  |
| 1. Kakinada                        | Intermediate        | 12. mtrs working depth available  | Open roadstead port                                      | -                               | -          | -          | -                    |
| 2. Kakinada Deep water             | Intermediate        | 8.5 Mts                           | Three Shore connected berth of 620 mtrs length           | -                               | -          | -          | 3 3                  |
| <b>Diu</b>                         |                     |                                   |                                                          |                                 |            |            |                      |
| Diu                                | Minor               | 10 Fathom                         | RCC Jetty                                                | -                               | 1          | -          | -                    |
| Vanakbara (sub Port)               | Minor               | 10 Fathom                         | RCC Jetty                                                | 1                               | -          | -          | 1                    |
| Malala (sub port)                  | Minor               | 10 Fathom                         | Natural Rock                                             | -                               | 1          | -          | 1                    |
| Daman                              | Minor               | 5 Fathom                          | 1. RCC jetty at Nani Daman<br>2. RCC jetty at Moti Daman | -                               | -          | 1          | 1                    |
|                                    |                     |                                   |                                                          | -                               | 1          | -          | - 1                  |

3.5.3 Draft At Ports As On 31st March, 1998 (Contd.)

Maritime State/UT : Karnataka

| Name of the Port | Intermediate/Minor | Max.Depth available at anchorage | Berth Type                      | No. of Berths by existing Draft |            |            |                |       |
|------------------|--------------------|----------------------------------|---------------------------------|---------------------------------|------------|------------|----------------|-------|
|                  |                    |                                  |                                 | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters above | Total |
| 1                | 2                  | 3                                | 4                               | 5                               | 6          | 7          | 8              | 9     |
| Karwar           | Intermediate       | 8 Mtrs & above                   | RCC (Built-up wharf)            | -                               | -          | -          | 2              | 2     |
| Honavar          | Minor              | 6 Mtrs                           | Mooring berth jetty             | -                               | -          | -          | -              | -     |
| Bhatkal          | Minor              | -                                | sailing vessel & fishing vessel | 1                               | -          | -          | -              | 1     |
| Tadri            | Minor              | 7 Mtrs                           | RCC                             | 1                               | -          | -          | -              | 1     |
| Kundapur         | Intermediate       | Anchorage Over 9 meters          | 3 Jetty 2 wharf                 | -                               | -          | 3          | -              | 3     |

### 3.5.3 Draft At Ports As On 31st March, 1998 (Contd..)

Maritime State/UT : Karnataka (Contd..)

| Name of the Port | Intermediate/Minor | Max.Depth available at anchorage | Berth Type                                                             | No. of Berths by existing Draft |            |            |                      |
|------------------|--------------------|----------------------------------|------------------------------------------------------------------------|---------------------------------|------------|------------|----------------------|
|                  |                    |                                  |                                                                        | Below 2 meters                  | 2-4 meters | 4-6 meters | 6 meters above Total |
| 1                | 2                  | 3                                | 4                                                                      | 5                               | 6          | 7          | 8                    |
| Malpe            | Minor              | 6 mtrs                           | Along side wharf near wooden jetty                                     | -                               | -          | 1          | -                    |
| Hangarkatta      | Minor              | 6.mtrs.                          | 3 jetty<br>2 wharf                                                     | -                               | -          | 3          | -                    |
| Mangalore        | Intermediate       | 3-5 mtrs.                        | Open Road Stead Back water for sailing vessel of 3 Mtrs. Draft & below | -                               | 5          | -          | -                    |
|                  |                    |                                  |                                                                        | -                               | 5          | -          | -                    |
|                  |                    |                                  |                                                                        | -                               | 4          | -          | -                    |
|                  |                    |                                  |                                                                        | -                               | 6          | -          | -                    |
| Pondicherry      | Minor              | 13-14 mtrs                       | RCC Pipes pier                                                         | -                               | -          | -          | 1                    |

2 mtrs. depth available at Ariankuppam Port Project river channel for cargo import through wooden barges from ship to shore which will be maintained throughout the year except monsoon season

3.5.3 Draft At Ports As On 31st March, 1997 (Contd.)

Maritime State/UT : Kerala

| Name of the Port                   | Intermediate/Minor | Max. Depth available at anchorage | Berth Type                                    | No. of Berth by existing Draft |            |            |                |       |
|------------------------------------|--------------------|-----------------------------------|-----------------------------------------------|--------------------------------|------------|------------|----------------|-------|
|                                    |                    |                                   |                                               | Below 2 meters                 | 2-4 meters | 4-6 meters | 6 meters above | Total |
| 1                                  | 2                  | 3                                 | 4                                             | 5                              | 6          | 7          | 8              | 9     |
| 1. Kovalam/<br>Vizhinjam           | Minor              | 8 mtrs.                           | Wharf                                         | -                              | -          | 1          | -              | 1     |
| 2. Neendakara                      | Intermediate       | 3 mtrs.                           | One concrete wharf<br>& Two temporary jetties | -                              | 1          | -          | -              | 1     |
| 3. Azhikkal                        | Minor              | 5 mtrs.                           | Wharf                                         | -                              | -          | 1          | -              | 1     |
| 4. Calicut (Kozhikode)<br>Bey pore | Intermediate       | 8 mtrs.                           | R.C. Wharf                                    | -                              | -          | 1          | -              | 1     |

## **SECTION - IV**

# **GENERAL TABLES**

4.1.1.1 State-Wise Navigational Aids Maintained By Department of  
Light-Houses and Light-Ships On 31.3.98

| Maritime State/<br>U.T.      | General<br>Light<br>house | Light<br>buoy | VHF/HF<br>RT set. | Decca<br>Navigator<br>Chain | Radio<br>Beacon | Racon | Light<br>Vessel | Launches | Light<br>House | Tender |
|------------------------------|---------------------------|---------------|-------------------|-----------------------------|-----------------|-------|-----------------|----------|----------------|--------|
| (1)                          | (2)                       | (3)           | (4)               | (5)                         | (6)             | (7)   | (8)             | (9)      | (10)           | (11)   |
| Gujarat                      | 55                        | 12            | 26                | 4                           | 2               | 6     | 1               | 4        | -              | -      |
| Maharashtra                  | 16                        | -             | 4                 | -                           | 1               | 1     | -               | -        | 1              | -      |
| Goa, Daman & Diu             | 2                         | -             | -                 | -                           | -               | 1     | -               | -        | -              | -      |
| Karnataka                    | 5                         | -             | 2                 | -                           | -               | -     | -               | -        | -              | -      |
| Kerala                       | 17                        | -             | -                 | -                           | 1               | 1     | -               | -        | -              | -      |
| Tamilnadu                    | 11                        | -             | -                 | -                           | 1               | 3     | -               | -        | -              | -      |
| Pondicherry                  | 1                         | -             | -                 | -                           | -               | 1     | -               | -        | -              | -      |
| Andhra Pradesh               | 12                        | -             | -                 | -                           | 2               | -     | -               | -        | -              | -      |
| Orissa                       | 5                         | -             | 5                 | -                           | 2               | 1     | -               | -        | -              | -      |
| West Bengal                  | 1                         | -             | 3                 | -                           | -               | 1     | -               | -        | -              | -      |
| Andaman & Nicobar<br>Islands | 28                        | -             | -                 | -                           | 1               | 4     | -               | -        | 1              | -      |
| Lakshadweep                  | 14                        | -             | -                 | -                           | -               | 4     | -               | -        | -              | -      |
| Total                        | 167                       | 12            | 40                | 4                           | 10              | 23    | 1               | 4        | 2              | 2      |

Source : Department of Lighthouses & Lightships

4.1.2 International Maritime Transport - Monthly Average Cargo Loaded And  
Unloaded In External Trade

(In Million Tonnes)

| Country         | Unloaded |       |       |       |       |       |        | Loaded |       |       |       |       |       |
|-----------------|----------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
|                 | : 1993   | 1994  | 1995  | 1996  | 1997  | 1998  | : 1993 | 1994   | 1995  | 1996  | 1997  | 1998  |       |
|                 | 1        | 2     | 3     | 4     | 5     | 6     | 7      | 8      | 9     | 10    | 11    | 12    | 13    |
| Argentina       |          | 0.90  | 1.18  | 1.26  | 7.22  | 7.66  | 7.51   | 3.17   | 3.34  | 4.04  | 3.26  | 3.45  | 3.12  |
| Australia       |          | 1.62  | 1.55  | 1.76  | 1.99  | 35.92 | ...    | 0.96   | 1.01  | 1.06  | 1.13  | 4.31  | ...   |
| Belgium         |          | 22.06 | 23.41 | 24.37 | 24.80 | 27.81 | ...    | 22.26  | 23.53 | 24.30 | 24.81 | 28.16 | ...   |
| Bangladesh      |          | 0.62  | 0.75  | 0.94  | 0.88  | 0.92  | ...    | 0.16   | 0.15  | 0.16  | 0.15  | 0.13  | ...   |
| China           |          | 11.56 | 12.16 | @     | @     | ...   | ...    | 8.68   | 10.39 | 70.96 | 75.69 | ...   | ...   |
| Colombia        |          | 1.86  | 1.94  | 2.19  | 3.17  | 3.96  | ...    | 0.94   | 1.13  | 1.15  | 1.11  | 2.26  | ...   |
| Egypt           |          | 1.80  | 1.97  | 2.30  | 3.13  | 3.06  | 2.60   | 1.03   | 1.34  | 1.20  | 1.05  | 0.89  | 0.73  |
| Finland         |          | 2.71  | 3.22  | 3.09  | 3.08  | 3.25  | 3.23   | 2.66   | 2.97  | 2.84  | 2.78  | 3.01  | 3.13  |
| France          |          | 14.70 | 14.80 | 14.80 | 14.81 | 15.40 | 16.48  | 5.40   | 4.80  | 4.60  | 4.61  | 4.90  | 5.19  |
| Germany (FR)    |          | 9.95  | 10.40 | 10.59 | 10.79 | 11.35 | 11.74  | 4.80   | 5.42  | 5.59  | 5.76  | 5.76  | 5.76  |
| Greece          |          | 2.70  | 2.75  | 3.21  | 3.21  | 3.75  | ...    | 1.54   | 1.76  | 1.83  | 1.82  | 1.37  | ...   |
| Hongkong        |          | 5.69  | 6.39  | 7.25  | 7.23  | 7.66  | 7.51   | 2.32   | 2.86  | 3.34  | 3.26  | 3.45  | 3.12  |
| India           |          | 6.97  | 7.68  | 8.73  | 9.44  | 11.34 | 11.38  | 5.01   | 4.88  | 5.45  | 5.42  | 6.01  | 5.21  |
| Indonesia       |          | 3.02  | 3.90  | 4.69  | 5.39  | ...   | ...    | 15.35  | 18.92 | 20.66 | 18.03 | ...   | ...   |
| Italy           |          | 18.51 | 18.85 | 19.51 | ...   | ...   | ...    | 4.28   | 4.21  | 4.02  | ...   | ...   | ...   |
| Japan           |          | 60.14 | 62.62 | 62.79 | 65.24 | 66.18 | 63.60  | 8.78   | 9.27  | 9.57  | 9.56  | 9.94  | 9.85  |
| Korea (Rep. Of) |          | 20.52 | 22.81 | ...   | ...   | 30.82 | ...    | 6.10   | 6.23  | ...   | ...   | 9.57  | ...   |
| Malaysia        |          | 3.07  | 3.51  | 3.84  | 4.50  | 5.20  | 4.03   | 1.75   | 1.98  | 2.10  | 2.34  | 2.81  | 2.93  |
| Mexico          |          | 4.38  | 4.39  | 4.44  | 5.16  | 5.17  | 5.63   | 10.52  | 10.81 | 10.82 | 11.65 | 11.29 | 10.20 |
| Netherlands     |          | 23.08 | 23.92 | 24.66 | 24.44 | 26.07 | 26.64  | 7.37   | 7.34  | 7.01  | 7.07  | 7.39  | 7.10  |
| Norway          |          | 1.66  | 1.84  | 1.98  | 1.90  | 2.12  | 2.27   | 9.12   | 10.43 | 11.29 | 12.72 | 13.17 | 12.84 |

@ Included in Loaded.

4.1.2 International Maritime Transport - Monthly Average Cargo Loaded And  
Unloaded In External Trade (Contd..)

| (In Million Tonnes) |          |       |       |       |       |      |       |        |       |       |       |       |      |  |
|---------------------|----------|-------|-------|-------|-------|------|-------|--------|-------|-------|-------|-------|------|--|
| Country             | Unloaded |       |       |       |       |      |       | Loaded |       |       |       |       |      |  |
|                     | : 1993   | 1994  | 1995  | 1996  | 1997  | 1998 | :     | 1993   | 1994  | 1995  | 1996  | 1997  | 1998 |  |
| 1                   | 2        | 3     | 4     | 5     | 6     | 7    | 8     | 9      | 10    | 11    | 12    | 13    |      |  |
| Panama              | 5.18     | 5.88  | 5.89  | 7.03  | 6.40  | 6.70 | 8.42  | 8.81   | 10.55 | 9.74  | 9.92  | 9.35  |      |  |
| Portugal            | 2.59     | 2.84  | 3.11  | 2.78  | ...   | ...  | 0.70  | 0.85   | 0.81  | 0.69  | ...   | ...   |      |  |
| Poland              | 1.28     | 1.13  | 1.24  | 1.30  | 1.30  | 1.52 | 2.65  | 2.83   | 2.39  | 2.36  | 2.31  | 2.69  |      |  |
| Singapore           | 13.25    | 13.71 | 14.58 | 14.96 | 15.69 | ...  | 9.56  | 10.47  | 10.83 | 11.22 | 11.61 | ...   |      |  |
| Spain               | 10.80    | 11.19 | 12.73 | 12.32 | ...   | ...  | 3.62  | 4.02   | 3.94  | 4.16  | ...   | 26.03 |      |  |
| Sweden              | 4.82     | 5.21  | 5.33  | 5.39  | 5.70  | 6.29 | 4.02  | 4.26   | 4.40  | 4.87  | 5.09  | ...   |      |  |
| Russian Federation  | 0.40     | 0.16  | 0.14  | 0.12  | ...   | ...  | 2.30  | 2.12   | 1.87  | 1.18  | ...   | 5.11  |      |  |
| United Kingdom      | 14.59    | 15.03 | 14.88 | ...   | ...   | ...  | 12.60 | 14.53  | 14.77 | ...   | ...   | ...   |      |  |
| United States       | 44.89    | 49.84 | 48.50 | 50.20 | 59.49 | ...  | 30.01 | 28.36  | 33.85 | 32.39 | 32.67 | ...   |      |  |
| Ukraine             | 0.42     | 0.28  | 0.36  | 0.27  | 0.48  | ...  | 2.43  | 2.10   | 1.83  | 1.80  | 4.60  | ...   |      |  |

\* Included in loaded.

Source (Except India) : Monthly Bulletin Of Statistics (U.N.) - September, 1999

**4.1.3 Estimated Share Of Foreign Trade By Sea In Total Foreign  
Trade Of India By All Modes Of Transport During  
1981-82 To 1998-99**

| (Value In Rs. Crores) |                                             |                                             |                  |                                             |                                                                             |
|-----------------------|---------------------------------------------|---------------------------------------------|------------------|---------------------------------------------|-----------------------------------------------------------------------------|
| Year                  | Total<br>Exports<br>Including<br>Re-exports | Share In<br>Exports<br>(In Per-<br>centage) | Total<br>Imports | Share In<br>Imports<br>(In Per-<br>centage) | Share Of Sea<br>borne Trade<br>To Total<br>Foreign Trade<br>(In Percentage) |
| (1)                   | (2)                                         | (3)                                         | (4)              | (5)                                         | (6)                                                                         |
| 1981-82               | 7806                                        | 79.2                                        | 13606            | 91.9                                        | 87.2                                                                        |
| 1982-83               | 8803                                        | 79.0                                        | 14293            | 86.5                                        | 83.7                                                                        |
| 1983-84               | 9771                                        | 74.4                                        | 15831            | 85.4                                        | 81.2                                                                        |
| 1984-85               | 11744                                       | 77.3                                        | 17134            | 87.7                                        | 83.6                                                                        |
| 1985-86               | 10895                                       | 71.7                                        | 19658            | 87.9                                        | 82.2                                                                        |
| 1986-87               | 12569                                       | 65.8                                        | 20201            | 82.7                                        | 76.1                                                                        |
| 1987-88               | 15674                                       | 62.1                                        | 22244            | 77.2                                        | 71.0                                                                        |
| 1988-89               | 20232                                       | 59.7                                        | 28235            | 72.9                                        | 67.4                                                                        |
| 1989-90               | 27681                                       | 59.5                                        | 35416            | 69.6                                        | 65.2                                                                        |
| 1990-91               | 32553                                       | 67.3                                        | 43193            | 81.1                                        | 75.1                                                                        |
| 1991-92               | 44042                                       | 66.6                                        | 47851            | 80.8                                        | 74.0                                                                        |
| 1992-93               | 53688                                       | 64.9                                        | 63375            | 78.0                                        | 72.0                                                                        |
| 1993-94               | 69751                                       | 66.1                                        | 73101            | 96.0                                        | 81.4                                                                        |
| 1994-95               | 82673                                       | 64.3                                        | 89971            | 79.8                                        | 72.4                                                                        |
| 1995-96               | 106353                                      | 63.7                                        | 122678           | 80.7                                        | 72.8                                                                        |
| 1996-97               | 118817                                      | 67.4                                        | 138920           | 82.4                                        | 75.5                                                                        |
| 1997-98 (P)           | 130101                                      | 64.4                                        | 154176           | 74.7                                        | 70.0                                                                        |
| 1998-99 (P)           | 141604                                      | 62.8                                        | 176099           | 67.6                                        | 65.4                                                                        |

Source : 1) Ministry Of Commerce (DGCI&S)

1i) RBI Publication, Report on currency and Finance

P) : Provisional

4.1.4 Value Of India's Foreign Trade 1997-98 & 1998-99  
Commodity wise Exports

| Commodities                             | (Rs. in Crore) |         |
|-----------------------------------------|----------------|---------|
|                                         | 1997-98        | 1998-99 |
| Tea                                     | 1876.3         | 2302.0  |
| Coffee                                  | 1696.1         | 1703.2  |
| Pulses                                  | 360.9          | 218.7   |
| Basmati Rice                            | 1685.6         | 1866.2  |
| Tobacco Mnfg & Unmnfg                   | 1070.2         | 779.1   |
| Spices                                  | 1409.7         | 1616.8  |
| Cashew                                  | 1399.9         | 1609.9  |
| Seasme & Niger Seeds                    | 302.6          | 324.6   |
| Spirit & Beverages                      | 73.6           | 71.1    |
| Guargum meal                            | 544.9          | 721.7   |
| Oil meals                               | 3435.2         | 1912.4  |
| Castor oil                              | 576.1          | 668.8   |
| Processed Vegetables                    | 116.5          | 163.6   |
| Sugar & Molasses                        | 254.9          | 22.9    |
| Fruits & fresh vegetables               | 589.8          | 529.4   |
| Processed fruits & juices               | 272.9          | 295.9   |
| Non-Basmati Rice                        | 1685.4         | 4334.5  |
| Meat & Preparation                      | 808.4          | 760.5   |
| Marine Products                         | 4486.8         | 4368.0  |
| Cotton raw incl. waste                  | 821.9          | 224.0   |
| Wheat                                   | 0.4            | 2.7     |
| Iron Ore                                | 1769.7         | 1599.5  |
| Coal                                    | 88.4           | 133.7   |
| Processed minerals                      | 1251.0         | 989.4   |
| Mica                                    | 40.0           | 43.5    |
| Other ores & minerals                   | 793.5          | 982.1   |
| Leather & Manufactures                  | 1099.4         | 1131.6  |
| Footwear of leather                     | 1047.7         | 1238.4  |
| Leather                                 | 1439.5         | 1830.5  |
| Gems & jewellery                        | 19866.5        | 24838.7 |
| Drugs, Pharmaceuticals & fine chemicals | 5419.3         | 6152.2  |
| Dyes intmotes & coaltar chemicals       | 2231.5         | 1994.7  |
|                                         |                | -10.6   |

4.1.4 Value of India's Foreign Trade 1997-98 & 1998-99  
Commodity wise Exports (Contd.)

| Commodities                                  | (Rs. In Crore) |          |          |
|----------------------------------------------|----------------|----------|----------|
|                                              | 1997-98        | 1998-99  | % Change |
| Inorganic/organic chemicals                  | 2194.4         | 2290.8   | 4.4      |
| Cosmetic/toiletries                          | 641.9          | 690.7    | 7.6      |
| Rubber manufactured products                 | 1262.2         | 1241.5   | -1.6     |
| Glass/glassware/ceramic/refractories/cement  | 727.2          | 699.5    | -3.8     |
| Paper/wood products                          | 575.3          | 655.3    | 13.9     |
| Plastic & Linoleum products                  | 1911.5         | 2020.6   | 5.7      |
| Ferro alloys                                 | 428.2          | 346.4    | -19.1    |
| Manufacture of metals                        | 3802.6         | 4549.3   | 19.6     |
| Machinery & Instruments                      | 4443.7         | 4812.0   | 8.3      |
| Transport equipment                          | 3453.0         | 3055.0   | -11.5    |
| Groundnuts                                   | 566.3          | 122.5    | -78.4    |
| Iron & Steel bar/rods                        | 433.4          | 359.4    | -17.1    |
| Primary & semifinished iron & steel          | 2812.2         | 2093.3   | -25.6    |
| Electronic goods                             | 2822.9         | 2100.4   | -25.6    |
| Cotton yarn fabrics madeups etc.             | 12131.6        | 11669.4  | -3.8     |
| Silk yarn fabrics madeups                    | 655.7          | 763.8    | 16.5     |
| Manmade yarn fabrics madeups                 | 2991.3         | 2929.7   | -2.1     |
| Woolen yarn, fabrics, madeups etc.           | 407.9          | 314.2    | -23.0    |
| Readymade garments cotton Incl. accessories  | 10683.2        | 13766.1  | 28.9     |
| Readymade garments silk                      | 350.7          | 312.2    | -11.0    |
| Readymade garments manmade fibres            | 2568.2         | 3345.9   | 30.3     |
| Readymade garments wool                      | 333.4          | 489.6    | 46.9     |
| Readymade garments of other textile material | 470.1          | 754.0    | 60.4     |
| Coir & coir manufactures                     | 254.9          | 313.1    | 22.8     |
| Jute mfg excl. floor carvings                | 142.1          | 157.4    | 10.8     |
| Carpets (Excl. Silk Manmade)                 | 1526.0         | 1739.1   | 14.0     |
| Floor covering of jute                       | 34.6           | 47.6     | 37.6     |
| Others                                       | 12961.5        | 14534.1  | 12.1     |
| Grand Total                                  | 130100.6       | 141603.5 | 8.8      |

Source: DGCI&S, Calcutta (Ministry Of Commerce)

4.1.1.5 Value of India's Foreign trade 1997-98 and 1998-99  
Commodity-wise Imports

| Commodities                                      | (Rs. in Crore) |          |          |
|--------------------------------------------------|----------------|----------|----------|
|                                                  | 1997-98        | 1998-99  | % Change |
| Petroleum and Products                           | 30341.2        | 27064.4  | -10.8    |
| Non-electrical machinery                         | 13460.8        | 13073.3  | -2.9     |
| Project goods                                    | 6464.5         | 8609.3   | 33.2     |
| Pearls and Precious Stones                       | 12420.7        | 15626.9  | 27.4     |
| Electronic goods                                 | 7759.3         | 9147.2   | 17.9     |
| Organic chemicals                                | 6540.7         | 6219.3   | -4.9     |
| Fertiliser manufactured                          | 3136.9         | 3310.9   | 5.5      |
| Iron and Steel                                   | 4991.5         | 4775.7   | -4.3     |
| Transport Equipment                              | 3907.1         | 2570.7   | -34.2    |
| Non-ferrous metals                               | 3420.2         | 2823.4   | -17.4    |
| Edible Oil                                       | 2764.7         | 7131.4   | 157.9    |
| Metal ferrous ores and metal scrap               | 2744.2         | 2550.0   | -7.1     |
| Coal, coke and briquettes                        | 4431.9         | 3953.9   | -10.8    |
| Inorganic chemicals                              | 4445.8         | 5215.5   | 17.3     |
| Artificial resins, plastic materials             | 2574.1         | 2781.3   | 8.0      |
| Gold & Silver                                    | 11778.6        | 20514.4  | 74.2     |
| Professionals Instrument, etc. Except Electronic | 2771.4         | 3417.9   | 23.3     |
| Cashewnut                                        | 767.2          | 693.2    | -9.6     |
| Pulp and waste paper                             | 1055.3         | 973.0    | -7.8     |
| Wood & wood products                             | 1541.9         | 1514.1   | -1.8     |
| Textile yarn fabrics, madeups                    | 1518.7         | 1836.0   | 20.9     |
| Medicinal & pharma products                      | 1447.1         | 1446.8   | -        |
| News Print                                       | 1047.0         | 1003.6   | -4.1     |
| Manufactures of metals                           | 1208.9         | 1704.5   | 41.0     |
| Machine tools                                    | 1568.9         | 1383.4   | -11.8    |
| Electrical machinery                             | 1405.6         | 1875.6   | 33.4     |
| Others                                           | 18662.1        | 24682.9  | 32.3     |
| Total                                            | 154176.3       | 176098.6 | 14.2     |

Source: DGCI&S, Calcutta (Ministry Of Commerce)

# 4.1.6 India's Overseas Trade During 1998-99

(In Million Tonnes)

| Type of Cargo                         | Indian Lines     | Foreign Lines     | Total              |
|---------------------------------------|------------------|-------------------|--------------------|
| <b>General Cargo</b>                  |                  |                   |                    |
| Loaded                                | 3.31<br>(13.5%)  | 21.23<br>(86.5%)  | 24.54<br>(100.0%)  |
| Unloaded                              | 1.90<br>(9.0%)   | 19.18<br>(91.0%)  | 21.08<br>(100.0%)  |
| Total                                 | 5.21<br>(11.4%)  | 40.41<br>(88.6%)  | 45.62<br>(100.0%)  |
| <b>Dry Bulk</b>                       |                  |                   |                    |
| Loaded                                | 1.29<br>(3.6%)   | 34.94<br>(96.4%)  | 36.23<br>(100.0%)  |
| Unloaded                              | 10.03<br>(26.3%) | 28.09<br>(73.7%)  | 38.12<br>(100.0%)  |
| Total                                 | 11.32<br>(15.2%) | 63.03<br>(84.8%)  | 74.35<br>(100.0%)  |
| <b>POL/Product &amp; other Liquid</b> |                  |                   |                    |
| Loaded                                | 1.32<br>(56.7%)  | 1.01<br>(43.3%)   | 2.33<br>(100.0%)   |
| Unloaded                              | 43.12<br>(55.5%) | 34.59<br>(44.5%)  | 77.71<br>(100.0%)  |
| Total                                 | 44.44<br>(55.5%) | 35.60<br>(44.5%)  | 80.04<br>(100.0%)  |
| <b>Grand Total</b>                    |                  |                   |                    |
| Loaded                                | 5.92<br>(9.4%)   | 57.18<br>(90.6%)  | 63.10<br>(100.0%)  |
| Unloaded                              | 55.05<br>(40.2%) | 81.86<br>(59.8%)  | 136.91<br>(100.0%) |
| Total                                 | 60.97<br>(30.5%) | 139.04<br>(69.5%) | 200.01<br>(100.0%) |

Source : Major Ports and Minor Ports

4.1.7 - Outlay And Expenditure - Port Sector(Central)

(Rs. In Crore)

| Port           | VIII Plan (1992-1997) |             | 9th Plan (1997-2002) |                      | Annual Plan (1997-98) |                    | Annual Plan (1998-99) |                    | Annual Plan (1999-2000) |                    |
|----------------|-----------------------|-------------|----------------------|----------------------|-----------------------|--------------------|-----------------------|--------------------|-------------------------|--------------------|
|                | Outlay                | Expenditure | Approved Outlay      | Approved Expenditure | Approved Outlay       | Actual Expenditure | Approved Outlay       | Actual Expenditure | Approved Outlay         | Actual Expenditure |
| Calcutta *     | 421.00                | 175.71\$    | 545.00               | 45.22                | 28.11                 | 30.10              | 61.36                 | 30.00              | 223.10                  | 52.46              |
| Mumbai         | 413.00                | 252.69      | 1208.00              | 156.24               | 75.61                 | 110.90             | 52.46                 | 50.00              | 379.00                  | 21.16              |
| J.L. Nehru     | 215.00                | 158.13      | 700.00               | 94.86                | 106.75                | 70.50              | 225.88                | 20.00              | 19.93                   | 51.30              |
| Chennai        | 570.00                | 222.88      | 1500.00              | 228.38               | 10.04                 | 10.00              | 50.00                 | 31.05              | 199.73                  | 14.81              |
| Cochin         | 117.00                | 89.59       | 380.00               | 16.21                | 55.29                 | 65.50              | 50.19                 | 71.80              | 90.00                   | 344.00             |
| Visakhapatnam  | 250.00                | 197.41      | 900.00               | 70.50                | 50.90                 | 15.00              | 120.00                | 44.00              | 170.00                  | 126.87             |
| Kandla         | 228.00                | 99.95       | 580.00               | 85.08                | 7.78                  | 30.00              | 84.77                 | 20.00              | 30.00                   | 1623.70            |
| Mormugao       | 123.00                | 84.86       | 360.00               | 15.42                | 117.62                | 20.58              | 14.81                 | 48.36              | 190.00                  | 84.77              |
| Paradip        | 486.00                | 233.95      | 1200.00              | 224.84               | 20.58                 | 55.00              | 126.87                | 84.77              | 1623.70                 | 84.77              |
| New Mangalore  | 98.00                 | 218.90      | 640.00               | 31.44                | 16.07                 | 227.00             | 30.00                 | 987.85             | 987.85                  | 987.85             |
| Tuticorin      | 65.00                 | 76.54       | 550.00               | 34.18                | 95.35                 | 30.00              | 30.00                 | 30.00              | 30.00                   | 30.00              |
| Others @       | 232.00                | 169.83      | 885.00               | 30.00                | 30.00                 | 30.00              | 30.00                 | 30.00              | 30.00                   | 30.00              |
| Survey Vessels |                       |             |                      |                      |                       |                    |                       |                    |                         |                    |
| Total          | 3216.00               | 1980.44     | 9428.00**            | 1372.22              | 737.20                | 984.00             | 987.85                | 987.85             | 987.85                  | 987.85             |

\* Includes Haldia and RR Schemes.

@ Includes DCI, ALHW, R&D Studies, MPSC, Training, Development of Minor Ports, Tariff Authority, Privatisation, Monitoring/Planning.

\*\* Excluding provision for survey vessels (Rs. 660.38 crores)

\$ Included Rs. 3.21 crores expenditure incurred in respect of SBR Sectors.

Source: IPA (Annual Plan)

#### 4.1.8 Outlay And Expenditure On Minor Ports

(Rs. In Crores)

|                           |                       | Central<br>Scheme | State/Union<br>Territories | Total           |
|---------------------------|-----------------------|-------------------|----------------------------|-----------------|
|                           | 1                     | 2                 | 3                          | 4               |
| I Plan<br>(1951-56)       | Actual                | -                 | 1.62                       | 1.62            |
| II Plan<br>(1956-61)      | Actual                | -                 | 4.78                       | 4.78            |
| III Plan<br>(1961-66)     | Actual                | -                 | 8.66                       | 8.66            |
| Annual Plans<br>(1966-69) | Actual                | -                 | 6.92                       | 6.92            |
| IV Plan<br>(1969-74)      | Outlay<br>Expenditure | 20.00<br>5.01     | 15.00<br>12.26             | 35.00<br>17.27  |
| V Plan<br>(1974-79)       | Outlay<br>Expenditure | 22.38<br>8.15     | 23.77<br>17.56             | 46.15<br>25.71  |
| 1978-79                   | Expenditure           | 2.04              | 8.16                       | 10.20           |
| 1979-80                   | Outlay<br>Expenditure | 2.30<br>20.00     | 6.21<br>72.18              | 8.51<br>92.18   |
| VI Plan<br>1980-85        | Outlay<br>Expenditure | -<br>1.00         | 10.92<br>125.63            | 10.92<br>126.63 |
| VII Plan<br>1985-90       | Outlay<br>Expenditure | 20.00<br>-        | 162.50<br>48.18            | 182.50<br>48.18 |

# 4.1.1.8 Outlay And Expenditure On Minor Ports (Contd...)

(Rs. In Crores)

|                                         | 1                          | 2                 | 3                          | 4                |
|-----------------------------------------|----------------------------|-------------------|----------------------------|------------------|
|                                         |                            | Central<br>Scheme | State/Union<br>Territories | Total            |
| 1990-91                                 | Outlay<br>Expenditure      | -                 | 40.73<br>50.26             | 40.73<br>50.26   |
| 1991-92                                 | Outlay<br>Expenditure      | -                 | 40.57<br>38.42             | 40.57<br>38.42   |
| VIII Plan Outlay<br>1992-97 Expenditure |                            | -                 | 340.58<br>394.63           | 340.58<br>394.63 |
| 1992-93                                 | Outlay<br>Expenditure      | -                 | 59.79<br>42.82             | 59.79<br>42.82   |
| 1993-94                                 | Outlay<br>Expenditure      | -                 | 54.94<br>99.18             | 54.94<br>99.18   |
| 1994-95                                 | Outlay<br>Expenditure      | -                 | 78.58<br>66.89             | 78.58<br>66.89   |
| 1995-96                                 | Outlay<br>Expenditure      | -                 | 67.27<br>126.24            | 67.27<br>126.24  |
| 1996-97                                 | Outlay<br>Expenditure      | -                 | 67.58<br>59.50             | 67.58<br>59.50   |
| 1997-98                                 | Outlay<br>Anticipated Exp. | -                 | 49.64<br>46.31             | 49.64<br>46.31   |
| 1998-99                                 | Outlay<br>Anticipated Exp. | -                 | 40.07<br>41.83             | 40.07<br>41.83   |

# 4.1.9 Transport Sector - Outlay And Expenditure Under The Plans

(Rs. In Crores)

| Sector                                                            | Fifth Plan<br>(1974-79) |                  | Sixth Plan<br>(1980-85) |                  | Seventh Plan<br>(1985-90) |                  | Eighth Plan<br>(1992-97) |                  | Annual Plan<br>(1997-98) |                  | Annual Plan<br>(1998-99) |                  | Anticipated<br>Expenditure |
|-------------------------------------------------------------------|-------------------------|------------------|-------------------------|------------------|---------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|----------------------------|
|                                                                   | Out-<br>lay             | Expen-<br>diture | Out-<br>lay             | Expen-<br>diture | Out-<br>lay               | Expen-<br>diture | Out-<br>lay              | Expen-<br>diture | Out-<br>lay              | Expen-<br>diture | Out-<br>lay              | Expen-<br>diture |                            |
| 1. Railway                                                        | 2202                    | 2063             | 5100                    | 6585             | 12334                     | 16549            | 27202                    | 32302            | 8300                     | 8239             | 9500                     | 8857             |                            |
| 2. Roads                                                          | 1353                    | 1701             | 3439                    | 3887             | 5200                      | 6335             | 12833                    | 16140            | 6028                     | 5686             | 9786                     | 7925             |                            |
| 3. Road Transport                                                 | 461                     | 503              | 1196                    | 1276             | 1990                      | 2151             | 4119                     | 3538             | 1243                     | 1155             | 1246                     | 931              |                            |
| 4. Ports (including<br>minor ports)                               | 571                     | 488              | 647                     | 725              | 1230                      | 1513             | 3557                     | 2302             | 1404                     | 756              | 1000                     | 1044             |                            |
| 5. Shipping                                                       | 450                     | 469              | 755                     | 468              | 827                       | 720              | 3669                     | 3033             | 978                      | 371              | 1295                     | 1203             |                            |
| 6. I.W.T.                                                         | 32                      | 16               | 72                      | 63               | 226                       | 188              | 331                      | 152              | 74                       | 48               | 86                       | 61               |                            |
| 7. Light Houses<br>& Light ships                                  | 14                      | 9                | 12                      | +                | 30                        | +                | 57                       | 25               | +                        | +                | +                        | +                |                            |
| 8. Civil Air<br>Transport                                         | 337                     | 294              | 859                     | 957              | 758                       | 1948             | 4083                     | 7249             | 2568                     | 1459             | 2265                     | 1831             |                            |
| 9. Other Transport                                                | -                       | -                | -                       | -                | 49                        | 72               | 239                      | 244              | 50                       | 163              | 225                      | 230              |                            |
| 10. Total Transport<br>Sector                                     | 5420                    | 5543             | 12080                   | 13961            | 22644                     | 29476            | 56090                    | 64985            | 20645                    | 17877            | 25403                    | 22082            |                            |
| 11. Share of Ports<br>& LH & LS in<br>the transport<br>sector (%) | 10.8                    | 9.0              | 5.5                     | 5.2              | 5.6                       | 5.1              | 6.4                      | 3.6              | 6.8                      | 4.2              | 3.9                      | 4.7              |                            |

\* : Included in Ports

† : Farakka Barrage & Hooghly River Training Projects

Sources : 1. Compendium of Transport Statistics, June 1994, Planning Commission  
2. Planning commission.

# 4.1.10 Countrywise Important International Ports Handling All Types of Traffic

| COUNTRY        | PORT                | COUNTRY              | PORT               | COUNTRY         | PORT               |
|----------------|---------------------|----------------------|--------------------|-----------------|--------------------|
| SOUTH AFRICA   | RICHARDS BAY        | JAPAN                | CHIBA              | AUSTRALIA       | GLADSTONE          |
|                | DURBAN              |                      | KOBE               |                 | NEW CASTLE         |
|                | SALDHANA BAY        |                      | NAGOYA             |                 | HEDLAND PORT       |
| BRAZIL         | TUBARAO             | U.A.E.               | SHIMIZU            |                 | FREMANTLE          |
|                | SANTOS              |                      | YOKOHAMA           |                 | PORT KEMBLA        |
|                | SAO SEBASTIO        |                      | OSAKA              |                 |                    |
| CANADA         | FRASER              | REPUBLIC OF KOREA    | KITAKYUSHU         | MALAYSIA        | PORT KELANG        |
|                | MONTREAL            |                      | TOKYO              |                 |                    |
|                | SAINT JOHN N.B.     |                      | INCHON             |                 | PHILIPPINES MANILA |
| UNITED STATES  | VANCOUVER           | SAUDI ARABIA         | KWANGYANG          | SINGAPORE       |                    |
|                | HELIFEX             |                      | POHANG             |                 |                    |
|                |                     |                      | PUSAN              |                 |                    |
|                | CORPUS CHRISTI      | TAIWAN               | JEDDAH             | F.R. OF GERMANY | HAMBURG            |
|                | HAMPTON ROAS        |                      | KAHSIUNG           |                 | BREMEN PORTS       |
|                | HOUSTON             |                      | KEELUNG            |                 | WILHELMSHAVEN      |
|                | LONG BEACH          | CHINA                | SHANGHAI           | BELGIUM         | ANTWERP            |
|                | LOS ANGELES         |                      |                    |                 | ZEEBRUGGE          |
|                | NEW ORLEANS         |                      | DUBAI PORTS        |                 |                    |
| ITALY          | NEW YORK/NEW JERSEY | FRANCE               |                    | NETHERLANDS     | AMSTERDAM          |
|                | OAKLAND             |                      | LE HAVRE           |                 | ROTTERDAM          |
|                | PHIPLADELPHIA       |                      | MARSEILLES         |                 |                    |
| UNITED KINGDOM | GENOA               | SPAIN                | DUNKIRK            | SWEDEN          | GOTHENBURG         |
|                | TRIESTE             |                      | ALGECIRAS-LA LINEA |                 |                    |
|                | VENICE              |                      | BARCELONA          |                 |                    |
|                | FORTH PORTS         | LIVERPOOL/MERSEYSIDE | BILBAO             |                 |                    |
|                | LONDON              |                      | TARRAGONA          |                 |                    |
|                | FELIXSTOWE          |                      |                    |                 |                    |
|                | MILFORD HEAVEN      | TEESAND HARTLEPOOL   |                    |                 |                    |
|                |                     |                      |                    |                 |                    |
|                |                     |                      |                    |                 |                    |

4.1.11. Countrywise important International Ports Handling Container Traffic

| COUNTRY        | PORT                                                                                                                                  | COUNTRY            | PORT                                                                       | COUNTRY     | PORT                                        |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------|-------------|---------------------------------------------|
| SOUTH AFRICA   | DURBAN                                                                                                                                | SAUDIA ARABIA      | JEDDAH                                                                     | BRAZIL      | SANTOS                                      |
| SINGAPORE      | SINGAPORE                                                                                                                             | CANADA             | MONTREAL<br>VANCOUVER                                                      | TAIWAN      | KAOSHIUNG<br>KEELUNG                        |
| PURETO RICO    | SAN JUAN                                                                                                                              | THAILAND           | BANGKOK                                                                    | U.A.E.      | DUBAI PORTS                                 |
| UNITED STATES  | LONG BEACH<br>NEW YORK/NEW JERSEY<br>OAKLAND<br>HAMPTON ROADS<br>HONOLULU<br>MIAMI<br>HOUSTON<br>LOS ANGELES<br>BALTIMORE<br>SAVANNAH | BELGIUM            | ANTWERP<br>ZEEBRUGGE<br>LE HAVRE<br>MARSEILLES<br>HAMBURG<br>BREITEN PORTS | CHINA       | SHANGHAI                                    |
|                |                                                                                                                                       | FRANCE             |                                                                            | HONGKONG    | HONGKONG                                    |
|                |                                                                                                                                       | F.R. OF<br>GERMANY |                                                                            | PHILIPPINES | MANILA                                      |
|                |                                                                                                                                       |                    |                                                                            | JAPAN       | KOBE<br>YOKOHAMA<br>TOKYO<br>NAOYA<br>OSAKA |
| UNITED KINGDOM | FELIXSTOWE<br>LONDON                                                                                                                  | ITALY              | LA SPEZIA                                                                  |             |                                             |
| AUSTRALIA      | MELBOURNE<br>BRISBANE                                                                                                                 | SPAIN              | ALGECIRAS-<br>BARCELONA<br>VALENCIA                                        | MALAYSIA    | PORT KELANG                                 |
| NETHERLANDS    | ROTTERDAM                                                                                                                             | SWEDEN             | GOTHENBURG                                                                 | PAKISTAN    | KARACHI                                     |
| GREECE         | PIRAEUS                                                                                                                               | REP. OF KOREA      | PUSAN                                                                      | PHILIPPINES | MANILA                                      |
|                |                                                                                                                                       |                    |                                                                            | INDONESIA   | TANJONG PRIOK                               |

# DEFINITIONS OF TERMS USED

1. Load Line  
: The outer line on the body of a ship upto which she submerges in water with safety. It varies according to the seasons and waters in which she plies.
2. Draft  
: The depth necessary to submerge a ship to their load line.
3. Dead Weight Tonnage (DWT)  
: It is the number of tons of (2240 pounds) stores, fuel and cargo that a ship can transport. This presents the actual carrying capacity of a ship.
4. Gross Registered Tonnage (GRT)  
: It applies to the vessels and not to cargo. It is the weight of the volume occupied by the closed-in-spaces 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.
5. 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.
6. Ore/Oil and Bulk Carrier  
: A bulk cargo ship designed to carry ore and oil enabling thereby to be loaded in both directions.
7. Tankers  
: Cargo ships constructed or adopted for the carriage in bulk of liquid cargoes of an inflammable nature.
8. Sailing Vessel  
: Any description of vessel provided with sufficient sail area for navigation under sails along whether or not fitted with mechanical means of propulsion and includes a rowing boat or crane but does not include a pleasure craft.

9. Roll-on/Roll-off-  
vessel  
: It is frequently called a vehicle ferry. It is designed for the conveyance of road vehicles and private cars. At each terminal port, a tramp of link span is provided enabling the vehicles to drive on or off the vessels, thereby eliminating cranes and cargo handling (and also pilferage) and permitting a quick turn round of the ships.
10. Berth-Day  
: A day of occupation of a berth (quay or mooring) by a ship.
11. Ship-Day  
: A day spent in harbour by a ship.
12. Turn-Round Time  
: Total time spent by a ship since its entry till its departure.
13. Port Dues  
: A levy of port authority on a ship.
14. Pilotage  
: A port charge for guiding a ship in or out of a harbour through channels, passages or other waters by an authorised pilot.
15. Output per Berth  
day  
: Total tonnage handled distributed over the total number of berth days.
16. Idle Time  
: Non-working time of a ship (without loading or unloading of cargo) at berth.
17. Pre-berthing  
detention  
: The time which a ship waits before getting entry into a berth.
18. Berth Occupancy  
: The time which a berth is occupied (by ships).
19. Export  
: Loaded overseas traffic.
20. Import  
: Unloaded overseas traffic.
21. Traffic  
: A scalar with only magnitude but no direction such as the total of exports and imports or loaded and unloaded cargo.
22. Traffic flows  
: A vector with magnitude and direction such as passengers embarked/dismarked or cargo exports/imports.

23.

Gang

: Gang is a group of workers formed as one unit for the purpose of handling cargo in the act of discharging from or loading on to the ship inside the ship inside the hatch-hold of the vessel or in the deck as per necessity.

24.

Gang shift

: Refers to a gang (irrespective of number of persons in the gang) working in one shift.

25.

Gang hours

: Number of hours per shift multiplied by number of gang shifts.

26.

Cranage

: The hire charges for providing a port crane for cargo handling.

27.

Wharfage

: A port charge on the ships for all cargo conveyed on over or through a wharf/berth.

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