

BASIC PORT STATISTICS OF INDIA (1997-98)

PREFACE

"Basic Port Statistics of India" provides comprehensive and detailed statistics on ship/cargo traffic handled at Indian Ports, port facilities, origin/destination of overseas traffic, employment and finances of the various ports, their performance etc. The present publication gives data upto 1997-98, the detailed data is, however, limited to 1996-97. Brief notes on major ports in India and their performances along with supportive graphs have also been included in this publication.

2. The sources of data are the Annual Administration Reports of Major Ports and their MIS returns. The data for the year 1997-98 for major Ports have been compiled mostly from statements furnished by Indian Ports Association. A separate section on information on container handling facilities, reefer container traffic, inland movement of containers, container handling rate and availability and utilisation of container handling equipments are given. Considering the growing importance of the 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. Apart from the commodity-wise cargo traffic handled at minor ports, this section gives data on facilities available, performance indicators, employment, passenger traffic etc.

3. 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 cooperation.

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

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CONTENTS

<u>Table</u>	<u>Page No.</u>
Port Organisation In India	i-vi
Performance Of Ports During 1997-98	vii-viii
Table - I Number of Major and Minor Ports in the Maritime States - 31.3.98	1
Table - II Port Capacities as on 31.3.98	2
Table - III Major Ports - Capacity and Traffic - 1997-98	3 - 4
Table - IV Traffic Handled at Major Ports of Selected Commodities - 1997 - 98	5
Table - V Traffic Handled at Major Ports in India(Overseas & Coastal) - 1997-98	6
Table - VI Cargo Traffic at Minor/Intermediate Ports - 1997-98	7
Table - VII Commodity-Wise Cargo Handled at Minor Ports During 1997-98	8-10
Table - VIII Percentage Share of Indian Flag in the overseas Cargo traffic at Indian Ports	11
Table - IX Selected Port Performance Indicators-Port-wise - 1997-98	12-13
Table - X Major Ports - Average pre-berthing time - 1997-98	14
Table - XI Major Ports - Average Turn round time - 1997-98	15
Table - XII Major Ports - Average Non-working time at berth - 1997-98	16
Table - XIII Major Ports - Out put per ship berth day - 1997-98	17
Table - XIV Major Ports - Average pre-berthing detention	18

SECTION - I (MAJOR/MINOR PORTS)

Table

Page No.

1.1 PORT SECTOR (MAJOR & MINOR) SUMMARY TABLES

1.1.0	Port Sector At A Glance	19-21
1.1.1	Trend of Cargo traffic handled at Indian Ports	22
1.1.2	Cargo handled at Ports - By State	23-27
1.1.3	Cargo unloaded (Overseas & Coastal) at Ports - By State	28-31
1.1.4	Cargo loaded (Overseas & Coastal) at Ports - By State	32-35

SECTION - II (MAJOR PORTS)

2.1 PORT FACILITIES

2.1.1	Topography of Major Ports	36-37
2.1.2	Details of berths at Major Ports	38-44
2.1.3	Storage facilities at Major Ports	45-49
2.1.4	Performance of Cargo handling equipments at Major Ports	50-51

2.2 CARGO TRAFFIC

2.2.1	Growth of Cargo traffic handled at Major Ports (1965-66 to 1996-97)	52
2.2.2	Cargo traffic handled at various Major Ports (1955-56 to 1996-97)	53

2.2.3	Cargo traffic (Commodity-wise) handled at Major Ports (1960 - 61 to 1996-97)	54
2.2.4	Cargo traffic (Commodity-wise) handled at Kandla Port (1960 - 61 to 1996-97)	55
2.2.5	Cargo traffic (Commodity-wise) handled at Mumbai Port (1960 - 61 to 1996-97)	56
2.2.5(a)	Cargo traffic (Commodity-wise) handled at J. L. Nehru Port (1989 -90 to 1996-97)	57
2.2.6	Cargo traffic (Commodity-wise) handled at Mormugao Port (1960 - 61 to 1996-97)	58
2.2.7	Cargo traffic (Commodity-wise) handled at New Mangalore Port (1980 - 81 to 1996-97)	59
2.2.8	Cargo traffic (Commodity-wise) handled at Cochin Port (1960 - 61 to 1996-97)	60
2.2.9	Cargo traffic (Commodity-wise) handled at Tuticorin Port (1980 - 81 to 1996-97)	61
2.2.10	Cargo traffic (Commodity-wise) handled at Chennai Port (1960 - 61 to 1996-97)	62
2.2.11	Cargo traffic (Commodity-wise) handled at Visakhapatnam Port (1960 - 61 to 1996-97)	63
2.2.12	Cargo traffic (Commodity-wise) handled at Paradip Port (1970 - 71 to 1996-97)	64
2.2.13	Cargo traffic (Commodity-wise) handled at Calcutta/Haldia Port (1960 - 61 to 1996-97)	65
2.2.14	Cargo traffic (Overseas/Coastal) at various Major Ports (1980 - 81 to 1996-97)	66-67
2.2.15	Cargo traffic (Unloaded/Loaded) at various Major Ports (1980 - 81 to 1996-97)	68-69
2.2.16	Cargo traffic handled at Major Ports in India (1970 - 71 to 1996-97)	70-75

TablePage No.

2.2.17	Overseas traffic (Principal Commodities) handled at Major Ports (1994 - 95 to 1996-97)	76-87
2.2.18	Coastal traffic (Principal Commodities) handled at Major Ports (1994 - 95 to 1996-97)	88-92
2.2.19	Overseas traffic - Import 1996-97 by Country of Origin (Port-wise-Commodity-wise)	93-100
2.2.20	Overseas traffic - Export 1996-97 by Country of Destination (Port-wise-Commodity-wise)	101-107
2.3	<u>PASSENGER TRAFFIC</u>	
2.3.1	Passenger traffic at Major Ports in India (1965 - 66 to 1996-97)	108-113
2.4	<u>SHIP TRAFFIC AND PORT CAPACITIES</u>	
2.4.1	Number type and size of Ships performed (1989 - 90 to 1996-97)	114-117
2.4.2	Port-wise, Commodity-wise capacity (As on 31.3.96, 31.3.97 and 31.3.98)	118
2.5	<u>CONTAINER TRAFFIC AND HANDLING FACILITIES</u>	
2.5.1	Container handling facilities - Port-wise (1996 - 97)	119
2.5.2	Container traffic handled at Major Ports	120
2.5.3	Container Cargo as well as tareweight of Containers at Major Ports during 1996 - 97	121
2.5.4	Reefer Container traffic	122
2.5.5	Trend of Container traffic handled at Major Ports (Port-wise)	123

TablePage No.

2.5.6	Container traffic handled at Major Ports (Type-wise)	124-131
2.5.7	Level of Containerisation in General Cargo at various Major Ports 1995 - 96 and 1996 - 97	132
2.5.8	Commodity-wise break up of Containerised cargo as well as General Cargo and level of Containerisation at Major Ports (Port-wise)	133-134
2.5.9	Commodity-wise break up of Container Cargo as well as General Cargo and level of Containerisation at Major Ports (Port-wise)	135 -146
2.5.10	Inland Container Movement	147
2.5.11	Inland Container Depot Movement of Containers at Major Ports	148
2.5.12	Container Handling Rate	149
2.5.13	Availability and utilisation of Container handling equipment	150-151
2.5.14	Top 20 Container Ports in the world based on TEU throughput	152
2.5.15	Containers handled by CONCOR	153
2.5.16	Containers handled by CONCOR at Ports	154
2.6	<u>PORT PERFORMANCE INDICATORS</u>	
2.6.1	Selected Port Performance Indicators by type of vessels	155
2.6.2	Selected Port Performance Indicators - By Port	156

TablePage No.

2.6.3	Number of vessels sailed by type & Port	157
2.6.4	Average Pre-berthing Detention by type & Port	158
2.6.4 A	Average Pre-berthing delay-Reason -wise 1996-97	159-162
2.6.5	Average turn round time by type & Port	163
2.6.6	Percentage of Idle time at berth to time at working berth by type and Port	164
2.6.7	Out put per Ship berth-day by type & Port	165
2.6.8	Average berth occupancy at Major Ports	166
2.6.9	Utilisation of Cargo handling equipments	167-171
2.7	<u>EMPLOYMENT</u>	
2.7.1	Employment at Ports - Port-wise as on 31 st December	172
2.7.2	Number of dock workers Registered with DLB's of Major Ports as on 31 st December	173
2.7.3	Number of dock workers listed with Major Ports as on 31 st December	174
2.7.4	Employment at Ports - By Ports and classes as on 31 st December, 1997	175
2.7.5	Employment at DLB's of Major Ports as on 31 st December, 1997	176
2.7.6	Mandays lost per thousand Manday's Employed during 1993 -97	177

Table

Page No.

2.8 **FINANCIAL PERFORMANCE**

2.8.1	Revenue and Expenditure at Major Ports	178-184
2.8.2	Net and Operating Surplus at Major Ports	185-186
2.8.3	Operating ratio at Major Ports	187
2.8.4	Operating Income, Operating Expenditure and Surplus/Deficit per tonne of Cargo handled	188

SECTION - III (MINOR/INTERMEDIATE PORTS)

3.1 **CARGO TRAFFIC**

3.1.0	List of Minor Ports	189-190
3.1.1	Growth of Cargo traffic handled at Minor/Intermediate Ports	191
3.1.2	State-wise Cargo traffic (Overseas/Coastal) at Minor/Intermediate Ports	192-193
3.1.3	State-wise Cargo traffic (Unloaded/Loaded) at Minor/Intermediate Ports	194-195
3.1.4	Cargo traffic handled at Minor/Intermediate Ports (State-wise)	196-202
3.1.5	Transshipment traffic	203
3.1.6	Overseas Cargo traffic handled in Principal Commodities	204-206
3.1.7	Coastal Cargo traffic handled in Principal Commodities	207-209

TablePage No.

3.1.8	Overseas Cargo traffic at selected Minor/Intermediate Ports during 1995-96 and 1996-97	210-213
3.1.9	Coastal Cargo traffic at selected Minor/Intermediate Ports during 1995-96 and 1996-97	214-216
3.1.10	Cargo traffic handled at selected Minor/Intermediate Ports in 1995-96 and 1996-97	217-219
3.1.11	State-wise Cargo handled at Minor/Intermediate Ports (1995-96 and 1996-97) -By Steamers and Sailing vessels	220-221
3.1.12	Port-wise Cargo traffic handled by Steamers/Sailing vessels - 1996 - 97	222-224
3.2	<u>PASSENGER TRAFFIC</u>	
3.2.1	Passenger traffic handled at Minor/Intermediate Ports	225
3.2.2	State-wise passenger traffic-Overseas and Coastal	226-227
3.3	<u>SHIP TRAFFIC</u>	
3.3.1	Number of Steamers/Sailing vessels entered at Minor/Intermediate Ports in various Maritime States	228
3.4	<u>EMPLOYMENT</u>	
3.4.1	Employment at Minor Ports (1996 - 97)	229

PORT FACILITIES AND PERFORMANCE INDICATORS

3.5			
3.5.1	Physical performance at Minor Ports (1995-96 and 1996-97)		230-232
3.5.2	Equipment available at various Minor Ports		233-242
3.5.3	Draft at Ports as on 31.3.1997		243-255

SECTION - IV**GENERAL TABLES**

4.1			
4.1.1	State-wise navigational aids maintained by department of Lighthouses and Lightships on 31.3.97		256
4.1.2	International Maritime transport monthly average Cargo Loaded and Unloaded in External trade		257-258
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 1997-98		259
4.1.4	Value of India's Foreign trade (1996-97 and 1997-98) Commodity-wise Exports		260-261
4.1.5	Value of India's Foreign trade (1994-95 and 1995-96) Commodity-wise Imports		262
4.1.6	India's overseas trade during 1997-98		263
4.1.7	Outlay and Expenditure Port sector		264
4.1.8	Outlay and Expenditure on Minor Ports		265-266
4.1.9	Transport sector - Outlay and Expenditure under the Plans		267
4.1.10	List of International Ports for total traffic		268
4.1.11	List of International Ports for container traffic		269
	Definition of Terms Used		270-272

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
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 181 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) Berth-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) Stores, (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 capacity 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 1996-97 and 1997-98 are as under:-

(In Million Tonnes)

Port	Port capacity as on	
	31.3.97	31.3.98
1. Calcutta and Haldia	25.57	25.57
2. Paradip	10.90	10.90
3. Visakhapatnam	31.45	31.45
4. Chennai	25.90	25.90
5. Tuticorin	7.60	8.05
6. Cochin	13.46	13.46
7. New Mangalore	16.45	16.45
8. Mormugao	19.18	19.18
9. Mumbai	30.80	30.80
10. Kandla	24.00	26.00
11. J.L.Nehrū	9.90	9.90
Total All Ports	215.21	217.66

(iii)

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

(In Million Tonnes)

<u>Commodity</u>	<u>Capacity as on</u>	<u>31.3.97</u>	<u>31.3.98</u>
1. POL	94.92	96.92	
2. Iron ore	44.50	44.50	
3. Coal	9.00	9.00	
4. Fertilizer & its raw material	5.65	5.65	
5. General Break Bulk Cargo	47.23	47.68	
6. Containers	13.91	13.91	
Total All Ports	215.21	217.66	

11. Private Sector Participation: Recently clear and transparent guidelines for private sector participation in Major Ports have been issued by the Govt. to cover the following areas:

- (1) Leasing out 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) Craneage/Handling Equipment.
 - (e) Setting up of Captive Power Plants.
 - (f) Dry docking and Ship-Repair facilities.

(3) Leasing of equipment for cargo handling and leasing 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 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 jet-ties/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.

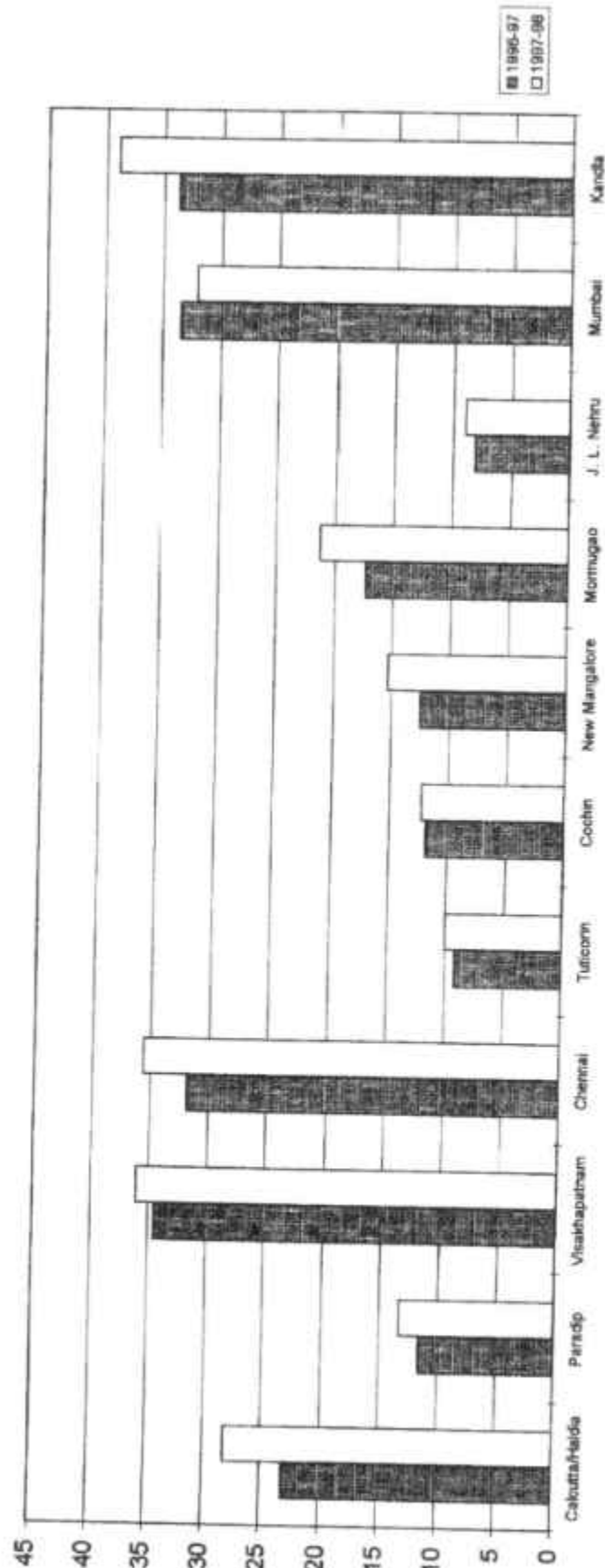
The Central Govt. will also encourage innovative proposals in the port sector put forward by private entrepreneurs and such proposals will be evaluated by a committee set up for the purpose.

Under the port laws (Amendments) 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. 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
1997-98**

Traffic Handled at Major Ports (In Million Tonnes)



Performance of Ports During 1997-98

There are 11 major ports and 181 minor/intermediate ports in the country. The salient features of the performance of the ports for the year 1997-98 are described below:

(a)

TRAFFIC HANDLED

All ports handled 286.3 million tonne during 1997-98 registering a growth 12.2 percent compared to the previous year. While the increase in traffic at the major ports was 10.7 percent, minor ports accounted for a higher traffic growth of 24.4 percent. All major ports except Mumbai showed a surge in traffic handled during 1997-98 compared to the previous year. Almost all commodities like POL, Iron Ore, Fertilizers/FRM and Coal registered increase in traffic in 1997-98 over 1996-97. Both the Container traffic and its share in total traffic increased during this period.

In case of Minor ports, increase was mainly at the ports of Tamil Nadu, Goa, Andhra Pradesh, Gujarat and Maharashtra.

(b)

PERFORMANCE INDICATORS

(1) Average Pre-Berthing Detention

This has declined from 3.1 days during 1996-97 to 2.4 days during 1997-98. It increased at Calcutta, Paradip and Visakhapatnam Ports.

(ii) Average Turn Round Time

This has declined from 7.5 days in 1996-97 to 6.6 days in 1997-98. However, it increased at Paradip, Visakhapatnam and Cochin Ports.

(iii) Output Per ship berth day

The output per ship berthday has increased from 4497 tonnes during 1996-97 to 4634 tonnes during 1997-98. This has increased at all ports except Paradip, Visakhapatnam, Chennai, Tuticorin, Cochin, Mumbai and Kandla Ports.

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

The idle time to the time at working berth has declined from 36 percent during 1996-97 to 30 percent during 1997-98. The performance in respect to this indicator shows improvement at all ports.

(c) 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 Calcutta and Paradip. 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 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 and Haldia. The norm of utilisation of Fork Lift Truck is over 35 percent; none of the ports except Mormugao could reach this norm.

(d) FINANCIAL PERFORMANCE

The operating surplus at major ports during 1996-97 was Rs. 1049 Crore compared to Rs. 996 Crore during 1995-96, an increase of 5 percent. The operating surplus has increased in all ports except Mumbai, J.L. Nehru and Paradip. The operating ratio at major ports exhibits increase during this period in all ports except the ports of Mormugao, Mangalore and Cochin. In case of Kandla, Tuticorin, Chennai, Visakhapatnam, Haldia and Calcutta both operating surplus and operating ratio increased since its income and expenditure increased during 1996-97

(viii)

TABLE - I

Number of Major and Minor Ports
in the Maritime States -31 3 98

State / U.T.	Number of Major Ports	Number of Minor Ports@	Total Number of Ports
West Coast			
Gujarat	1	40	41
Madhyapradesh	2	53	55
Goa	1	5	6
Daman & Diu	-	2	2
Karnataka	1	9	10
Kerala	1	13	14
East Coast			
Tamil Nadu	2	11	13
Pondicherry	-	1	1
Andhra Pradesh	1	12	13
Orissa	1	2	3
West Bengal	1	-	1
Lakshadweep Islands	-	10	10
Andaman & Nicobar Islands	-	23	23
TOTAL	11	181	192

Note : @ This includes non working Ports also.
For details see section 3.

TABLE - II
Port capacities as on 31.3.98

(In Million Tonnes)

Commodity	Calcutta	Raidia	Paradip	Vizag	Chennai	Tuticortin	Cochin	Mangalore	New	Mormu- gao	Mumbai	Kandla	Jl	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(14)
P.O.L.	3.12 (7)	8.50 (2)	0.70 (1)	11.50 (1)	8.50 (2)	1.10 (1)	10.50 (2)	7.50 (2)	1.50 (1)	21.00 (15)	23.00 (13+SRM+VJ+J)	36.92 (30+SRM+VJ+J)	44.50 (5+SRM+VJ+J)	96.92
Iron Ore	-	-	4.00 (1)	8.00 (1)	8.00 (1)	-	-	7.50 (1)	17.00 (14+SRM+VJ+J)	-	-	-	-	44.50
Coal(Thermal)	-	5.00 (12)	-	-	-	4.00 (2)	-	-	-	-	-	-	-	9.00 (4)
Fertilizers	-	-	1.10 (1)	0.55 (1)	-	-	0.60 (1)	-	-	-	0.50 (1)	2.90 (2)	5.65 (5)	5.65
Gen. Break	2.60 (20)	3.90 (5)	5.10 (5)	11.40 (13)	6.90 (15)	2.95 (7)	1.40 (9)	1.45 (6)	0.60 (2)	5.30 (13)	2.80 (7)	3.50 (1)	47.68 (129)	47.68
Bulk Cargo	2.15 (6)	0.30 (1)	-	-	2.50 (12)	-	0.96 (12)	-	-	4.50 (8)	-	-	3.50 (3)	12.91 (22)
Containers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	7.87 (32)	17.70 (10)	10.90 (8)	31.45 (18)	25.90 (20)	8.05 (10+SRM+VJ+J)	13.46 (15)	16.45 (9)	19.10 (14+SRM+VJ+J)	30.80 (52)	26.00 (11+SRM+VJ+J)	9.90 (5)	217.66 (196+SRM+VJ+J)	217.66

* Paradip : A capacity of 4.2 Million Tonnes has been assumed for the three 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 1.5 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 9.0 million tonnes and included under general cargo. If coal gets shifted to dedicated coal handling facilities in future, the capacity will get reduced to 2.1 million tonnes.

9 Chennai : Thermal coal is presently handled at JD(Best) 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 Ennore, the capacity of these berths will get reduced to 1.5 million tonnes.

\$ Kandla : VJs indicate the Virtual berths put up by oil industries.

Note : Figure in bracket gives total number of berths.

Source : Development Wing (MOST)

TABLE - III

Major Ports-Capacity and Traffic-1997-98

(In Million Tonnes)									
Port	Capacity/ Traffic	POL (Crude & Product)	Iron & Ore	Coal	Ferti- liser & FRM	Other Cargo	Contai- ner	Total	
1.	2.	3.	4.	5.	6.	7.	8.	9.	
Calcutta	Capacity Traffic	3.12 3.76	- -	- -	- 0.11	2.60 1.96	2.15 2.12	7.87 7.95	
Haldia	Capacity Traffic	8.50 10.57	- -	5.00 7.11	- 0.30	3.90 1.85	0.30 0.38	17.70 20.21	
Paradip	Capacity Traffic	0.70 1.74	4.00 1.44	- 7.59	1.10 1.25	5.10 1.28	- -	10.90 13.30	
Visakhapatnam	Capacity Traffic	11.50 12.12	8.00 5.67	- 9.41	0.55 1.93	11.40 6.74	- 0.15	31.45 36.02	
Chennai	Capacity Traffic	8.50 11.59	8.00 6.23	- 8.98	- 1.37	6.90 4.36	2.50 3.00	25.90 35.53	
Tuticorin	Capacity Traffic	1.10 0.42	- -	4.00 5.58	- 0.73	2.95 2.13	- 1.11	8.05 9.97	
Cochin	Capacity Traffic	10.50 9.77	- -	- 0.14	0.60 0.46	1.40 0.92	0.96 0.88	13.46 12.17	

TABLE - III (Contd..)

Major Ports-Capacity and Traffic - 1997-98

Port	Capacity/ Traffic	POL (Crude & Product)	Iron Ore	Coal	Fertl- liser & FRM	Other Cargo	Contal- ner	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.
New Mangalore	Capacity Traffic	7.50 6.51	7.50 6.53	- 0.10	- 0.28	1.45 1.86	- -	16.45 15.28
Mormugao	Capacity Traffic	1.50 1.13	17.00 10.70	- 0.14	- 0.27	0.68 0.91	- 0.03	19.18 21.18
J.L. Nehru	Capacity Traffic	- 0.68	- 0.66	- -	2.90 0.88	3.50 0.63	3.50 6.05	9.90 8.90
Mumbai	Capacity Traffic	21.00 16.73	- -	- -	- 0.88	5.30 6.39	4.50 8.10	30.80 32.10
Kandla	Capacity Traffic	23.00 29.02	- -	- 0.34	0.50 1.39	2.50 6.85	- 1.30	26.00 38.90
All Ports	Capacity Traffic	96.92 104.04	44.50 39.23	9.00 39.39	5.65 9.85	47.68 35.88	13.91 23.12	217.66 251.51

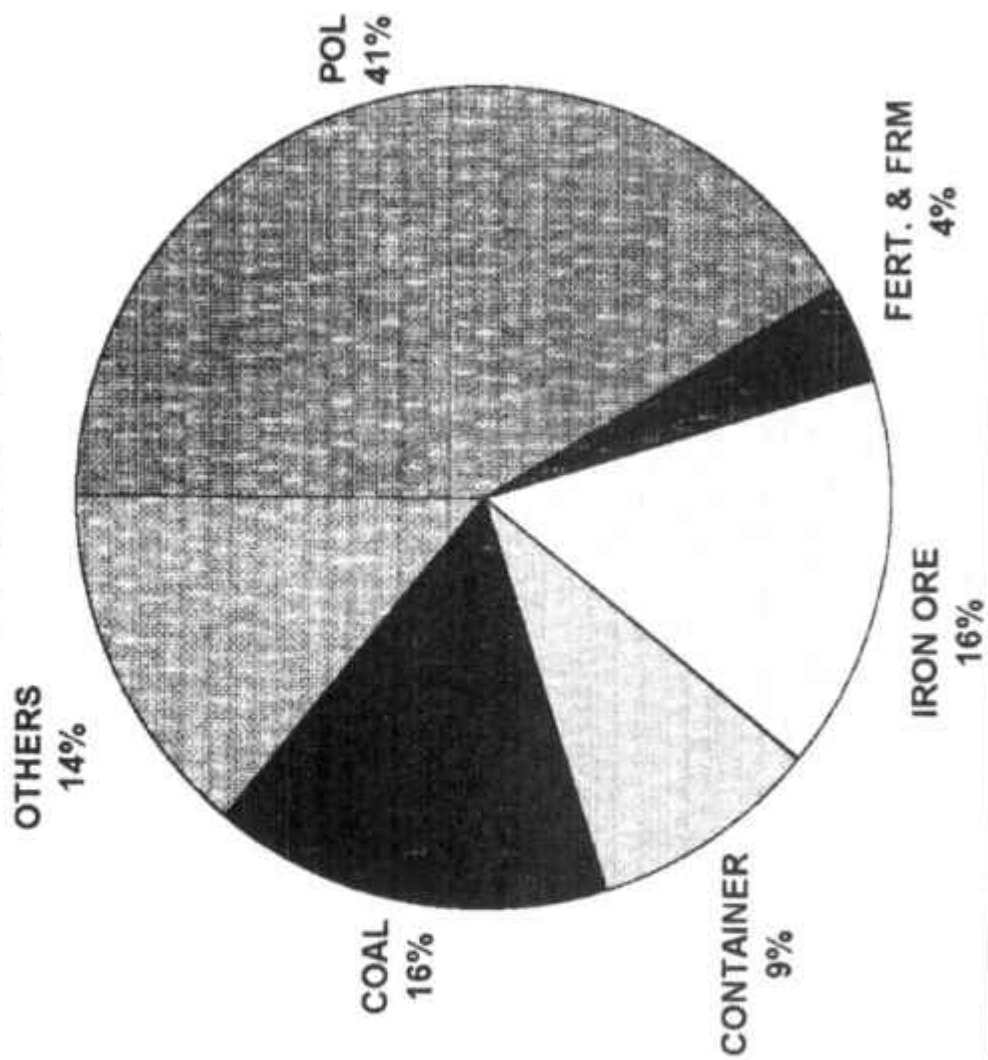
Note:- Other Cargo includes Food Grains also.

Source :

1. Traffic - IPA

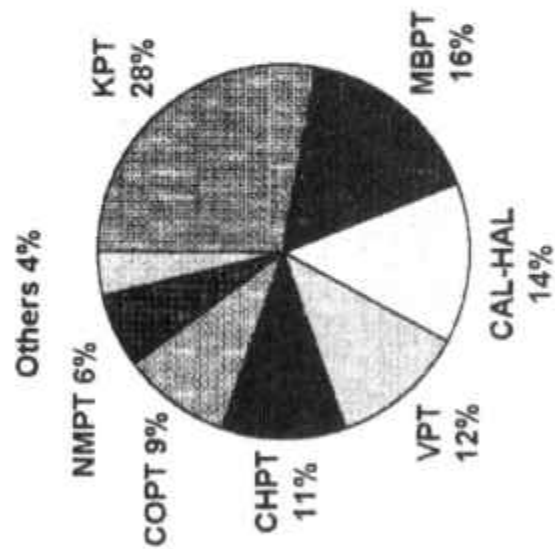
2. Capacity - Development Wing, MOST

TRAFFIC HANDLED AT MAJOR PORTS IN 1997-98

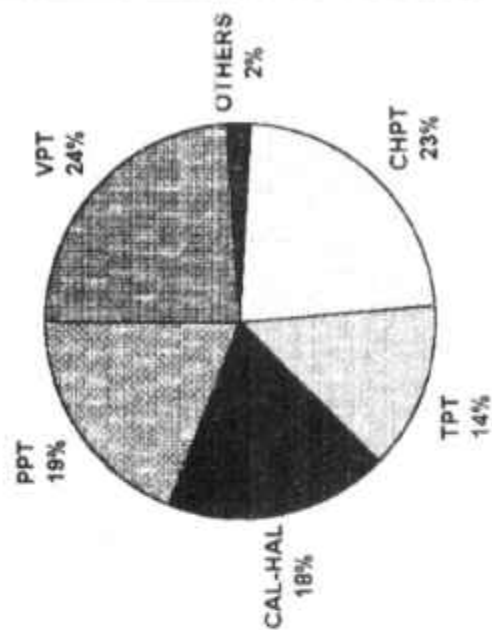


TRAFFIC HANDLED AT MAJOR PORTS IN 1997-98

POL TRAFFIC

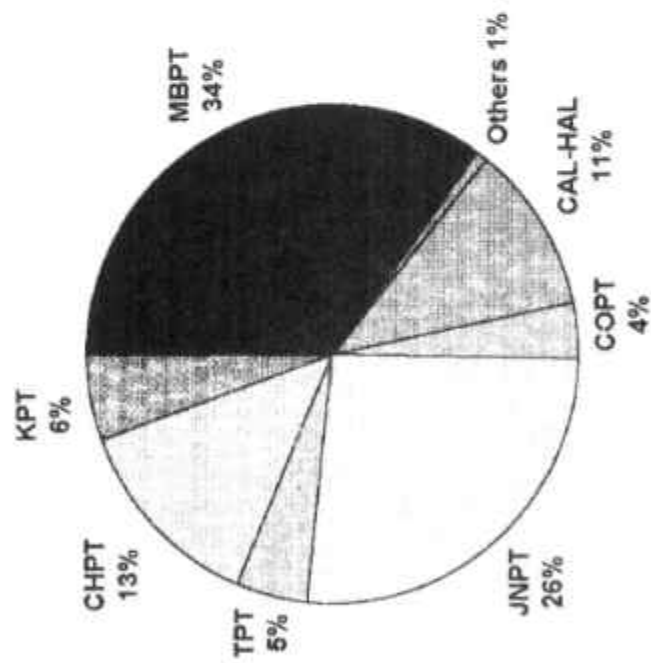


COAL TRAFFIC



TRAFFIC HANDLED AT MAJOR PORTS IN 1997-98

CONTAINER TRAFFIC



IRON ORE TRAFFIC

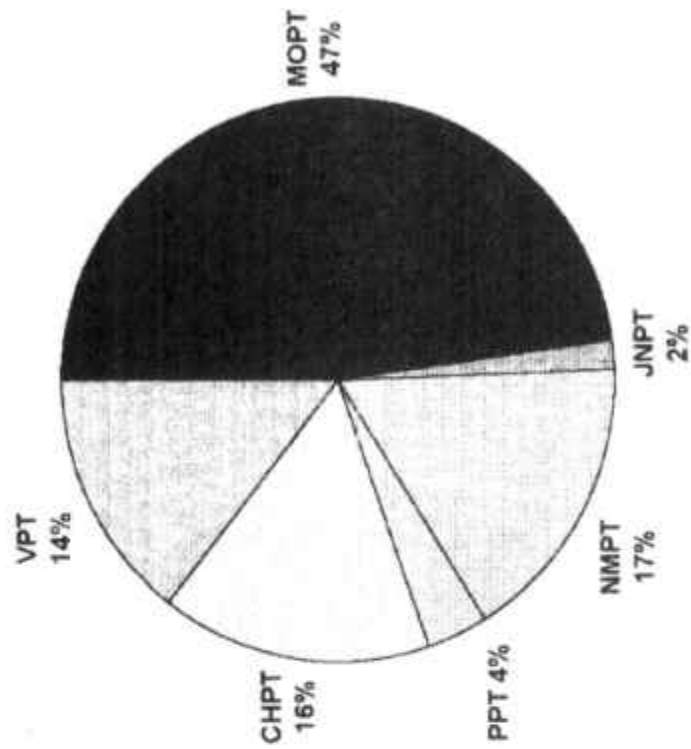


TABLE - IV

Traffic Handled At Major Ports of Selected Commodities - 1997-98

Port	POL	Iron Ore	Ferti-liser	FRM	Food-grains	Coal	Container Cargo				Total
									Others		
							('000 Tonnes)				
							'000 Tonnes	'000 TEs			
Kandla	29017	-	732	660	1386	343	1299	84	5464	38901	
Mumbai	16732	-	60	818	24	-	8097	601	6366	32097	
JL Nehru	681	657	881	-	355	-	6050	504	271	8895	
Mormugao	1134	18700	43	225	-	139	30	3	911	21182	
New Mangalore	6514	6535	242	37	325	99	-	-	1530	15282	
Cochin	9767	-	160	301	158	137	876	122	773	12172	
Tuticorin	416	-	512	221	160	5578	1115	102	1972	9974	
Chennai	11586	6232	946	429	234	8985	3002	293	4117	35531	
Visakhapatnam	12116	5668	1038	889	342	9407	146	13	6408	36014	
Paradip	1738	1435	116	1132	-	7589	-	-	1292	13302	
Calcutta	3765	-	45	65	33	-	2122	141	1922	7952	
Haldia	10572	-	21	281	5	7116	383	29	1827	20205	
All Ports	104038	39227	4796	5058	3022	39393	23120	1892	32853	251507	

TABLE - V
Traffic Handled At Major Ports in India -1997-98
(Overseas and Coastal)

Port	Overseas				Coastal				(In Million Tonnes)			
	Loaded	Unloaded	Tranship- ment	Total	Loaded	Unloaded	Tranship- ment	Total	Loaded	Unloaded	Tranship- ment	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
Kandla	3.70	26.27	3.47	33.44	0.18	5.28	-	5.46	3.88	31.55	3.47	38.90
Mumbai	5.82	17.69	-	23.51	6.97	1.62	-	8.59	12.79	19.31	-	32.10
J.L. Nehru	3.42	4.95	0.10	8.47	0.01	0.32	0.10	0.43	3.43	5.27	0.20	8.90
Mormugao	19.11	1.12	0.01	20.24	0.09	0.84	0.01	0.94	19.20	1.96	0.02	21.18
New Mangalore	6.44	5.82	-	12.26	2.74	0.28	-	3.02	9.18	6.10	-	15.28
Cochin	0.74	5.26	-	6.00	1.66	4.51	-	6.17	2.40	9.77	-	12.17
Tuticorin	1.54	2.79	-	4.33	0.02	5.62	-	5.64	1.56	8.41	-	9.97
Chennai	9.78	12.05	0.68	22.51	1.05	11.30	0.67	13.02	10.83	23.35	1.35	35.53
Visakhapatnam	6.80	12.17	3.72	22.69	7.39	2.67	3.27	13.33	14.19	14.84	6.99	36.02
Paradip	1.67	4.38	-	6.05	7.14	0.11	-	7.25	8.81	4.49	-	13.30
Haldia	0.77	12.62	0.01	13.40	6.05	0.76	-	6.81	6.82	13.38	0.01	20.21
Calcutta	1.38	2.07	2.16	5.61	0.19	2.15	-	2.34	1.57	4.22	2.16	7.95
All Ports	61.17	107.19	10.15	178.51	33.49	35.46	4.05	73.00	94.66	142.65	14.20	251.51

Source:- Indian Ports Association.

Traffic Handled At Indian Ports (In Million Tonnes)

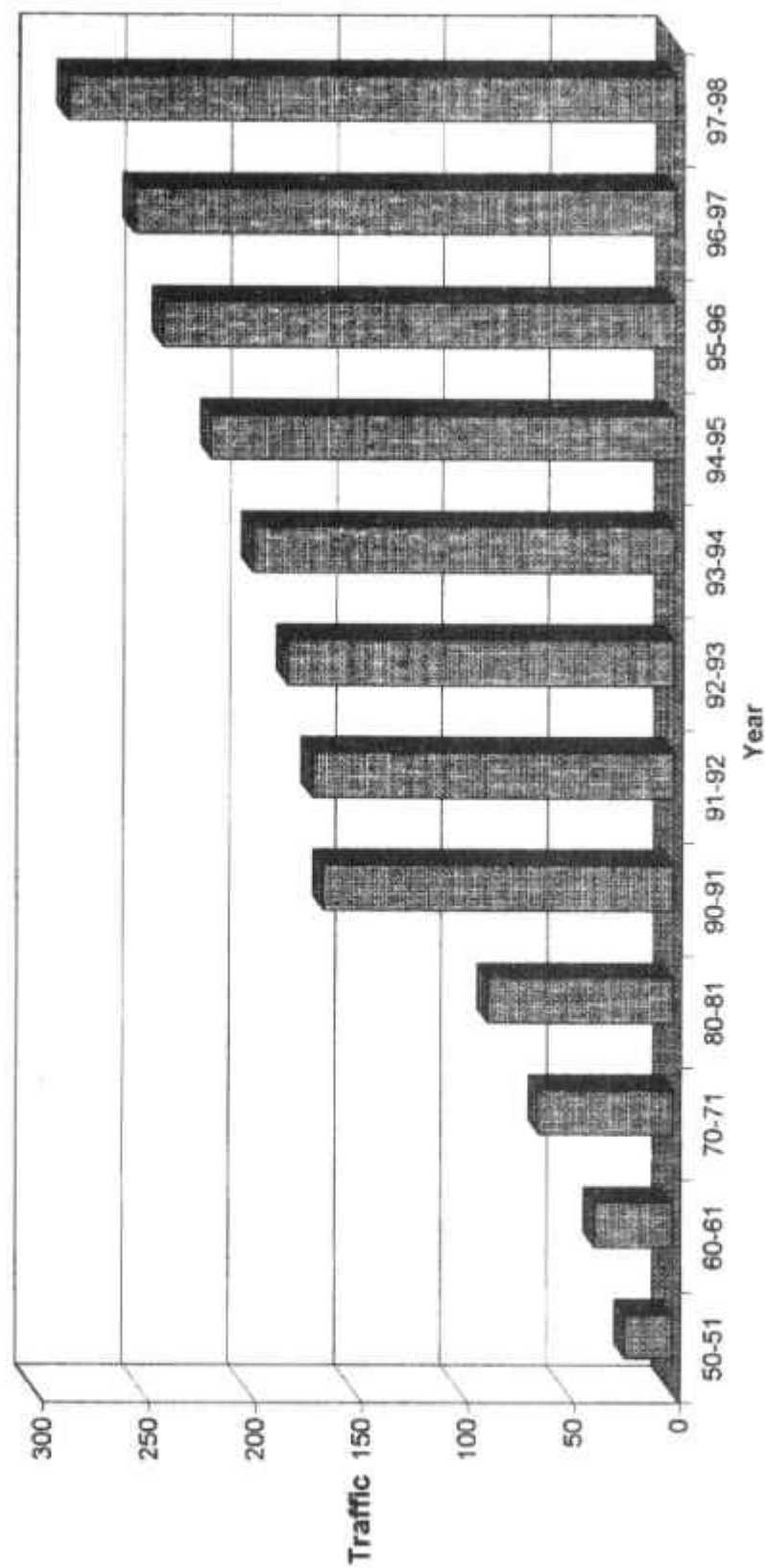


TABLE - VI
Cargo Traffic At Minor/Intermediate Ports -1997-98 (P) ('000 Tonnes)

State / U.T.	Overseas			Coastal			Overseas & Coastal		
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
Gujarat	11186	6965	18151	3896	2357	6253	15082	9322	24404
Maharashtra	3182	325	3507	816	224	1040	3998	549	4547
Goa	236	622	858	52	74	126	288	696	984
Daman & Diu	-	-	-	-	-	-	-	-	-
Karnataka	121	166	287	57	-	57	178	166	344
Kerala *	-	136	136	15	33	48	15	169	184
Tamil Nadu	63	-	63	-	207	207	63	207	270
Pondicherry	-	-	-	-	-	-	-	-	-
Andhra Pradesh	1275	424	1699	59	1793	1852	1334	2217	3551
Orissa	145	56	201	-	-	-	145	56	201
Andaman & Nicobar **	-	-	-	234	61	295	234	61	295
Total	16208	8694	24902	5129	4749	9878	21337	13443	34780

* Data relates to 1995-96

** Data relates to 1996-97

TABLE - VII
Commoditywise Cargo handled at Minor Ports During 1997-98

(' 000 Tonnes)

State/	Overseas		Coastal		Overseas & Coastal		Total
Commodity	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Total
Gujarat	11186	8965	18151	3898	2357	6253	24404
Fertiliser & Raw Materials	1935	40	1975	-	-	1935	1975
Building Materials	207	2275	2482	667	1573	2260	5429
Coal	3126	-	3126	428	-	428	3554
Oil Cargo	457	5	462	153	14	167	628
Others	6461	4646	10106	2020	770	3398	8009
Maharashtra	3182	325	3507	818	224	1040	549
Iron Ore	2202	325	2527	81	223	304	4547
Building Materials	-	-	-	735	1	736	2831
Coal	853	-	853	-	-	-	736
Others	127	-	127	-	-	-	853
Goa	236	622	858	52	74	126	127
Iron Ore	-	579	579	48	61	109	984
Coal	197	11	208	-	1	1	688
Others	39	32	71	4	12	16	209
Karnataka	121	166	287	57	-	57	87
Granite	-	159	159	-	-	-	344
Fertiliser	92	3	95	-	-	-	159
Kerala *	-	136	136	15	33	48	159
Ilmenite	-	136	136	-	-	-	95
Others	-	-	-	15	33	48	184
	-	-	-	-	-	-	136
	-	-	-	15	33	48	136
	-	-	-	-	-	-	48

* Data relates to 1995-96.

TABLE -VII

Commoditywise Cargo handled at Minor Ports During 1997-98(Contd...)

State/	Overseas				Coastal				Overseas & Coastal			
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
(In '000 Tonnes)												
Tamil Nadu												
Fertiliser	63	-	63	-	207	207	83	207	207	83	207	270
Crude Oil	35	-	35	-	-	-	35	-	-	35	-	35
Others	-	-	-	-	167	167	-	167	167	-	167	167
	28	-	28	-	40	40	28	40	40	28	40	68
Andhra Pradesh												
Crude Oil	1275	424	1699	59	1793	1852	1334	2217	2217	1334	2217	3551
Fertiliser & Raw Material	-	-	-	-	1767	1767	-	1767	1767	-	1767	1767
Others	924	-	924	-	-	-	924	-	-	924	-	924
	351	424	775	59	26	85	410	450	450	410	450	860
Orissa												
Fertiliser	145	56	201	-	-	-	145	56	56	145	56	201
	145	56	201	-	-	-	145	56	56	145	56	201
Andaman & Nicobar												
Building Material	-	-	-	234	61	295	234	61	295	234	61	295
Mineral Fuel	-	-	-	45	44	89	45	44	89	45	44	89
Food Grains	-	-	-	74	-	74	74	-	74	74	-	74
Others	-	-	-	45	-	45	45	-	45	45	-	45
	-	-	-	70	17	87	70	17	87	70	17	87

TABLE -VII

Commoditywise Cargo handled at Minor Ports During 1997-98(Contd...)

(In '000 Tonnes)

Commodity	Overseas			Coastal			Overseas & Coastal		
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
Total	16208	8694	24902	5129	4749	9878	21337	13443	34780
Fertiliser & R.M	3131	99	3230	-	-	-	3131	99	3230
Building Material	207	2275	2482	1467	1618	3085	1674	3893	5567
Coal	4176	11	4187	428	1	429	4604	12	4616
Oil Cargo	457	5	462	227	1781	2008	684	1786	2470
Granite	-	159	159	-	-	-	-	159	159
Ilmenite	-	136	136	-	-	-	-	136	136
Food Grains	-	-	-	45	-	45	45	-	45
Iron Ore	2202	904	3106	129	284	413	2331	1188	3519
Others	6035	5105	11140	2833	1065	3898	8868	6170	15038

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

Port	1995-96 (%)		1996-97 (%)		1997-98 (%)		1997-98 (%) (P)		Total	
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Total
1	2	3	4	5	6	7	8	9	10	
MAJOR PORTS	37.5	16.3	28.9	44.1	10.1	31.3	46.5	9.9	33.4	
Kandla	50.2	1.5	41.6	41.6	2.3	35.7	49.8	12.5	45.3	
Mumbai	5.7	50.2	27.1	32.4	31.4	32.0	35.3	18.6	30.4	
J.N.P.T.	13.3	13.3	13.3	23.7	11.4	18.4	12.2	8.8	10.9	
Mormugao	6.6	1.4	2.1	16.0	3.1	4.0	14.4	4.7	5.2	
N. Mangalore	22.9	8.8	10.8	76.2	10.4	37.7	77.4	5.9	39.8	
Cochin	64.2	46.3	59.7	47.9	4.4	36.6	69.7	3.8	59.3	
Tuticorin	13.2	8.4	11.7	16.2	13.6	15.0	24.8	6.6	18.9	
Chennai	38.2	10.5	26.2	39.3	2.6	23.7	48.2	11.3	32.6	
Vizag	55.5	8.0	39.5	59.4	6.2	38.4	51.9	14.2	39.4	
Paradip	18.7	55.6	33.5	9.3	28.8	15.7	16.0	23.8	18.7	
Haldia	47.3	15.9	46.5	47.9	20.6	47.0	55.5	6.6	52.9	
Calcutta	7.5	12.5	9.8	7.6	7.4	7.5	41.9	5.1	32.4	
MINOR PORTS	14.1	13.8	13.9	13.5	13.5	13.5	13.6	22.6	16.8	
All Ports	35.8	16.0	27.3	42.2	10.5	29.8	42.5	11.4	31.4	
Source : Major, Minor Ports & IPA.										

TABLE - IX
Selected Port Performance Indicators (Port-wise) - 1997-98(P)

Item / Port	Kandla	Mumbai	J.T. Nehru	Mormugao	New Mangalore	Cochin	Tuticorin	Chennai	Visag	Paradip	Haldisa	Calcutta	All Ports
1. No. of vessels sailed													
I) Dry-bulk	221	113	56	366	184	35	313	539	606	416	370	13	3232
II) Tankers	993	804	81	195	388	377	143	513	618	225	597	392	5326
III) Break-bulk	333	690	3	14	157	121	285	302	213	2	74	245	2439
IV) Container	133	812	423	29	-	311	240	446	68	-	234	342	3038
V) All types	1680	2419	563	604	729	844	981	1800	1505	643	1275	992	14035
2. Av. Pre-berthing detention (days)													
I) Dry-bulk	6.5	9.1	6.3	2.8	1.4	0.9	1.4	3.4	3.0	1.0	2.1	1.5	2.9
II) Tankers	4.0	2.3	1.6	0.8	1.2	1.9	0.9	4.4	0.7	2.8	2.4	1.4	2.4
III) Break-bulk	8.6	3.6	2.8	1.1	0.6	0.4	2.8	2.0	3.1	N	3.1	1.1	3.3
IV) Container	2.8	2.0	1.1	0.1	-	0.5	0.6	1.4	0.8	-	0.1	0.6	1.2
V) All types	5.1	2.9	1.7	2.0	1.1	1.1	1.6	3.0	2.0	1.7	2.0	1.1	2.4
3. Av. Turn round time (days)													
I) Dry-bulk	14.0	29.4	16.7	8.7	6.0	13.5	5.9	9.7	9.3	5.6	8.0	19.4	9.4
II) Tankers	6.0	5.2	3.6	2.3	2.5	3.9	2.6	6.6	2.4	4.3	4.1	4.7	4.4
III) Break-bulk	15.9	11.7	10.1	9.1	5.8	5.4	7.1	8.1	9.1	1.4	13.1	15.5	10.8
IV) Container	5.9	5.8	3.0	0.8	-	2.4	3.0	4.0	2.4	-	1.7	4.7	4.0
V) All types	9.0	8.4	4.5	6.2	4.1	4.0	5.0	7.1	6.1	5.1	5.3	7.6	6.6

TABLE - IX (Contd...)
Selected Port Performance Indicators (Port-wise) - 1997-98(P)

Item / Port	Kandla	Mumbai	J.L.Nehru	Mormugao	New Mangalore	Cochin	Tuticorin	Chennai	Vizag	Paradip	Haldia	Calcutta	All Ports
4. % Idle time to time at working berth													
1) Dry-bulk	10.2	30.4	15.7	23.7	47.1	43.6	32.3	24.6	16.5	27.3	46.3	33.8	26.7
ii) Tankers	29.5	25.6	25.3	42.0	30.8	23.6	30.6	28.3	26.0	..	42.3	48.8	29.6
iii) Break-bulk	11.1	36.6	9.1	23.1	57.0	41.4	42.9	41.6	18.2	50.0	49.6	37.8	34.7
iv) Container	15.7	30.1	15.2	25.0	-	37.3	38.3	45.4	18.8	-	48.6	29.7	31.7
v) All types	16.7	32.1	16.4	25.8	47.2	35.3	36.9	31.7	18.5	23.3	46.3	37.8	30.4
5. Output per ship berth day (tonnes)													
1) Dry-bulk	2663	709	3667	10450	8783	1183	4731	4987	6167	5898	4739	507	5134
ii) Tankers	17216	8298	6301	5325	15249	14166	4787	13061	13105	7476	15367	4039	11529
iii) Break-bulk	1382	884	189	1168	815	986	883	819	1581	239	753	324	884
iv) Container	3460	2587	8254	1040	-	1694	2071	2650	1439	-	1527	2217	2990
v) All types	6556	2530	6209	9389	7210	5324	2936	4800	6286	6128	5902	1288	4634

TABLE - X

Major Ports - Average Pre-Berthing Time -1997-98(P)

(In Days)

Port ---> Commodity	Calcutta	Raidia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Mormugao	Mumbai	Kandla	J.T.Nehru	All Ports
P.O.L	1.09	2.56	3.40	0.56	5.35	0.76	2.12	1.28	0.87	2.49	3.85	1.38	2.46
Iron Ore	0.19	-	2.31	2.37	2.49	1.77	-	1.41	2.90	-	-	4.97	2.46
Coking Coal	-	2.69	0.75	5.24	6.86	-	-	0.21	0.02	1.94	8.13	-	3.80
Thermal Coal	-	0.85	0.61	0.70	1.81	1.06	-	-	-	-	-	-	1.08
Fertilisers	3.32	5.88	2.57	4.45	8.06	3.60	1.37	2.48	1.22	6.15	5.22	8.23	5.22
Raw Materials	0.76	3.94	2.32	2.21	4.72	2.36	0.89	0.50	-	10.20	6.49	-	5.25
Other Dry Bulk	2.64	4.46	1.37	2.91	5.51	1.21	0.58	0.63	2.98	7.41	6.63	5.61	3.88
Other Lqd. Bulk	3.08	1.04	0.78	1.23	2.09	1.04	0.36	0.78	0.48	1.93	4.23	1.92	2.15
General Cargo	1.07	3.11	0.11	3.09	1.98	2.78	0.36	0.57	1.14	3.59	8.60	2.77	3.30
Containers	0.57	0.14	-	0.75	1.39	0.65	0.54	-	0.07	1.96	2.76	1.12	1.20
Total	1.06	1.96	1.66	1.97	2.98	1.55	1.12	1.09	1.98	2.86	5.12	1.73	2.42

AVERAGE PRE-BERTHING WAITING TIME (IN DAYS)

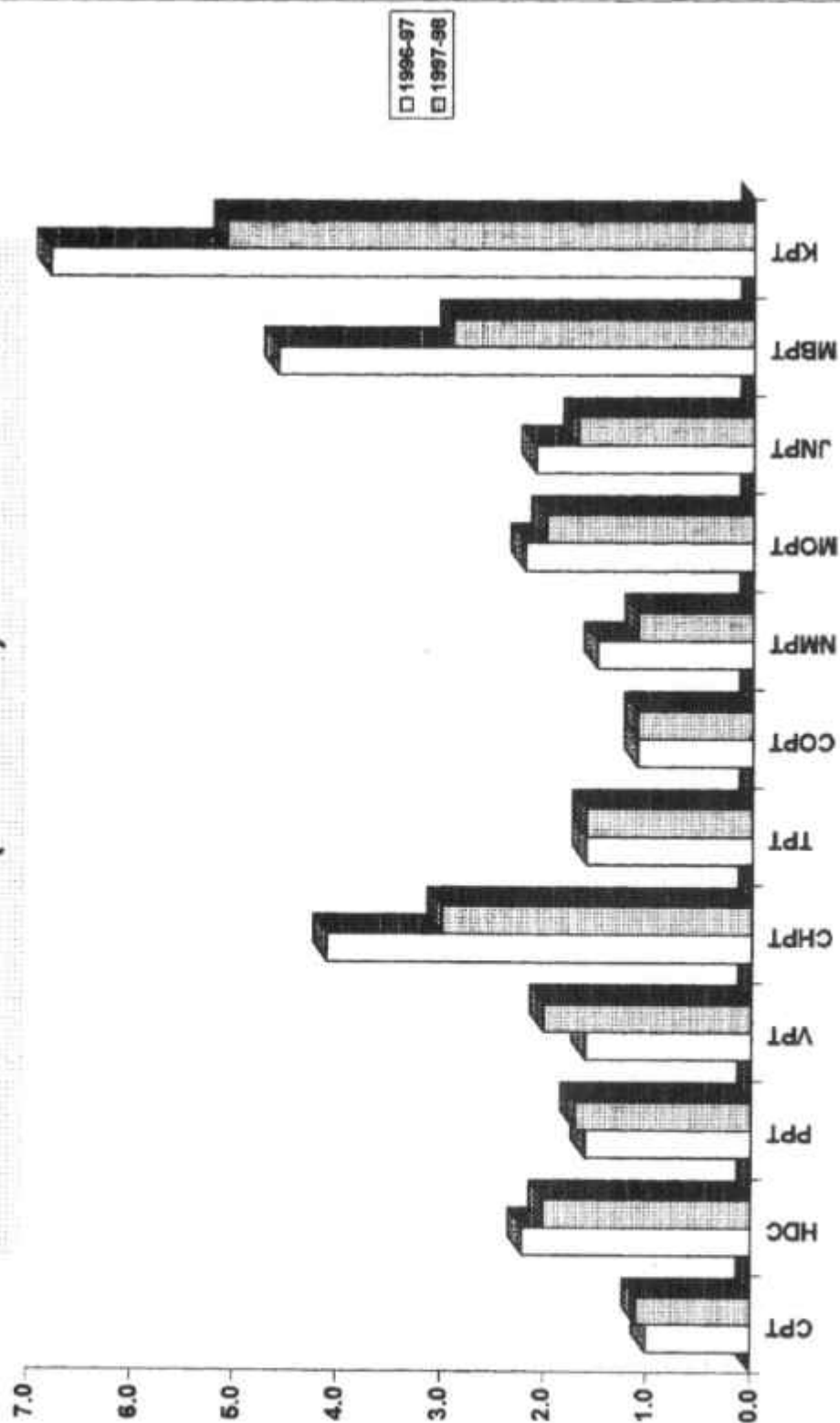


TABLE - XI

Major Ports - Average Turn Round Time -1997-98 (P)

Port ---> Commodity	(In Days)												
	Calcutta	Haldia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Mormugao	Mumbai	Kandla	J.L.Mehru	All Ports
P.O.L	4.16	4.17	4.84	2.34	7.41	2.81	4.35	2.75	2.42	5.64	5.90	3.74	4.56
Iron Ore	4.70	-	5.28	7.02	5.23	3.34	-	3.05	7.74	-	-	13.15	6.37
Coking Coal	-	8.98	4.85	11.65	13.21	-	-	9.43	2.12	12.64	12.98	-	9.81
Thermal Coal	-	3.81	4.13	5.60	6.20	4.11	-	-	-	-	-	-	4.85
Fertilisers	36.61	21.83	22.35	17.27	27.75	14.80	21.67	28.50	16.27	29.97	17.49	21.15	21.34
Raw Materials	18.70	19.52	22.21	8.80	14.38	9.97	13.12	11.12	-	29.03	11.95	-	17.06
Other Dry Bulk	19.18	15.15	5.47	9.18	12.62	6.32	6.64	12.60	14.47	30.64	13.89	15.50	11.78
Other Lqd. Bulk	7.53	3.54	2.39	2.55	4.54	2.37	1.47	1.56	1.61	4.42	6.20	3.54	4.20
General Cargo	15.46	13.06	1.36	9.10	8.07	7.11	5.42	5.76	9.06	11.66	15.91	10.06	10.76
Containers	4.69	1.73	-	2.36	3.95	3.04	2.44	-	0.80	5.81	5.86	2.97	4.01
Total	7.58	5.30	5.12	6.11	7.12	5.05	3.99	4.09	6.23	8.37	8.98	4.47	6.59

AVERAGE TURN ROUND TIME (IN DAYS)

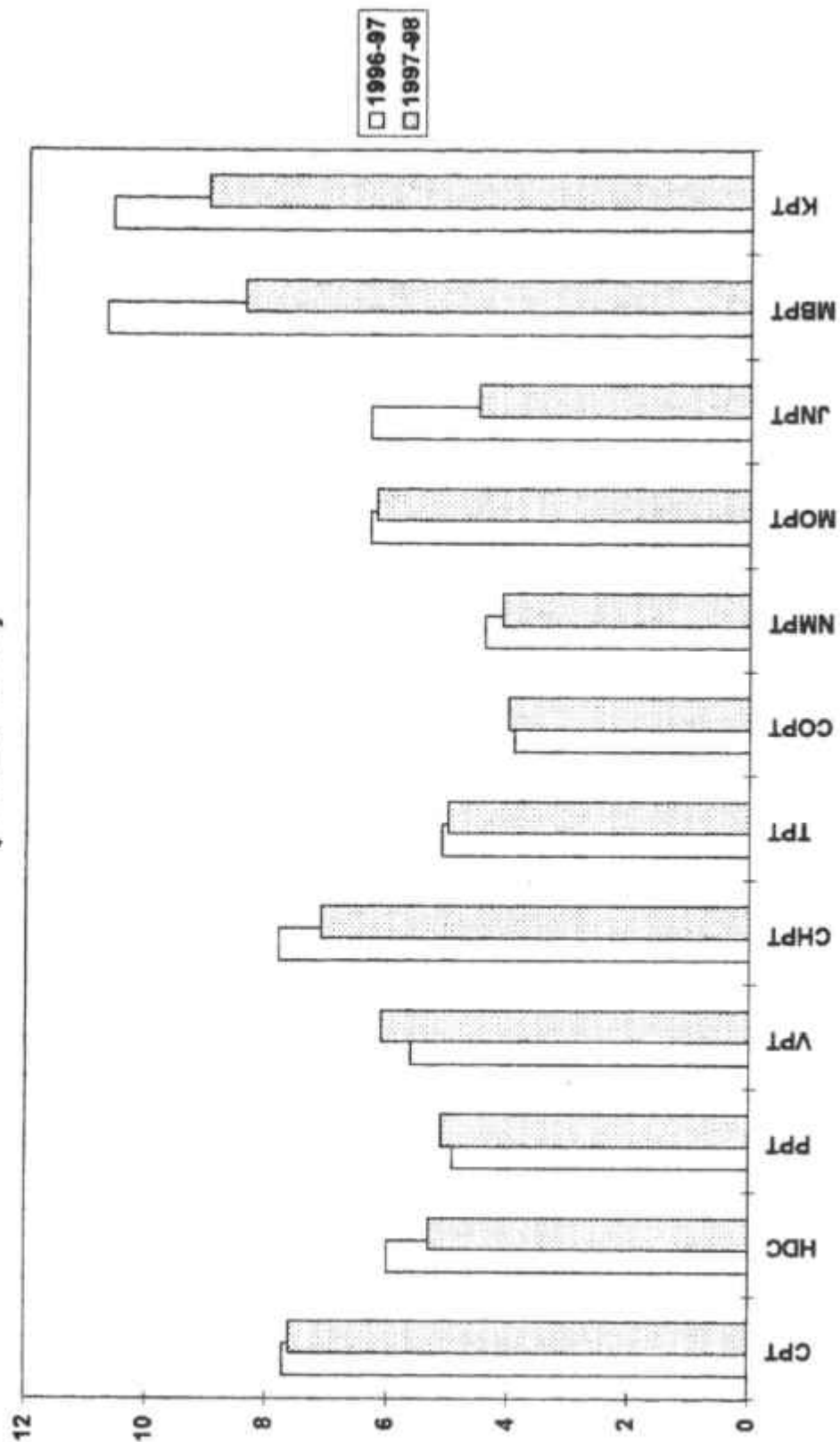


TABLE - XII

Major Ports - Average Non-Working Time At Berth - 1997-98 (P)

Port ---> Commodity	Calcutta	Haldia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Mormugao	Mumbai	Kandla	J. L. Nehru	All Ports	(In Days)
P.O.L	1.05	0.46	...	0.45	0.81	0.61	0.17	0.44	0.68	0.84	0.75	0.56	0.63	
Iron Ore	1.92	-	1.54	1.65	0.99	0.86	-	0.57	1.40	-	-	2.17	1.27	
Coking Coal	-	2.40	0.72	1.75	2.10	-	-	4.04	0.36	-	0.66	-	1.81	
Thermal Coal	-	1.24	1.08	0.58	1.11	0.59	-	-	-	-	-	-	0.96	
Fertilisers	17.44	8.16	6.40	2.41	7.40	4.48	7.36	13.89	3.91	9.19	1.64	2.00	5.11	
Raw Materials	5.42	7.30	...	1.11	5.42	3.68	7.36	5.65	-	7.15	1.12	-	4.28	
Other Dry Bulk	5.96	4.38	1.44	1.06	2.60	1.93	1.71	5.76	4.54	7.26	2.02	1.91	2.57	
Other Lqd. Bulk	1.54	1.00	0.02	0.22	0.68	0.44	0.24	0.22	0.28	0.88	0.83	0.44	0.68	
General Cargo	6.49	4.99	5.62	1.19	3.10	1.95	2.02	2.91	2.94	3.23	1.72	0.66	2.95	
Containers	0.84	0.55	-	0.27	1.14	0.90	0.65	-	0.18	1.20	0.68	0.29	0.87	
Total	2.43	1.31	0.81	0.90	1.67	1.32	0.96	1.38	1.40	1.98	1.08	0.49	1.41	

TABLE - XIII
Major Ports - Output per Ship Berth Day -1997-98 (P)

Port ---> Commodity	Calcutta	Haldia	Paradip	Visag	Chennai	Tuticorin	Cochin	New Mangalore	Mormugao	Mumbai	Kandla	J.T.Nehrvi	All Ports
P.O.L	4673	16083	7069	14167	17979	3844	14761	16650	5019	11238	21296	6525	13774
Iron Ore	423	-	14874	16493	32101	1573	-	29524	13936	-	-	5173	16691
Coking Coal	-	4408	6867	6409	3280	-	-	2711	623	4131	5383	-	5533
Thermal Coal	-	12118	8765	6611	5926	8163	-	-	-	-	-	-	7508
Fertilisers	283	503	1105	1901	893	1689	812	778	657	800	2214	2805	1365
Raw Materials	527	964	1567	2788	1465	1306	1806	889	-	736	3135	-	1360
Other Dry Bulk	457	2183	2884	3335	3438	3596	824	1904	1732	617	2559	4429	2422
Other Lqd. Bulk	1559	5232	8572	5464	2772	5923	7323	5513	6542	1814	5540	5879	3856
General Cargo	324	753	239	1581	819	883	986	815	1168	884	1382	189	884
Containers	2217	1527	-	1439	2650	2071	1694	-	1040	2587	3460	6254	2990
Total	1288	5902	6128	6286	4800	2936	5324	7210	9389	2530	6556	6209	4634

(In Tonnes)

OUT PUT PER SHIP BERTH-DAY (TONNES)

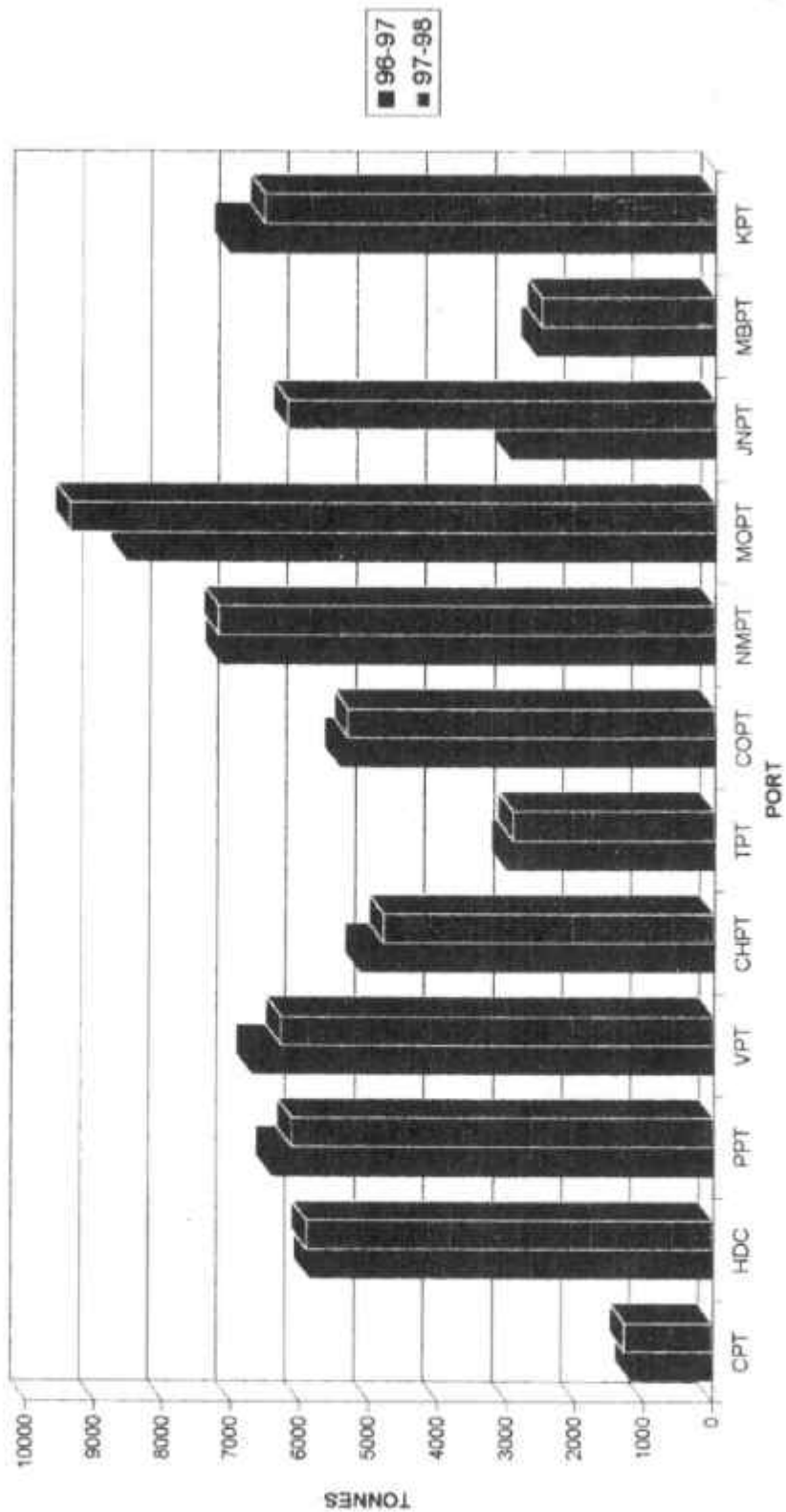


Table XIV

Major ports-Average Pre-Berthing Detention(P)

Port	(In Days)			
	1996-97		1997-98	
	Total	Port A/c Non-Port A/c	Total	Port A/c Non-Port A/c
Calcutta	1.05	0.15	0.90	1.06 0.15 0.91
Haldia	2.19	0.69	1.50	1.96 0.65 1.31
Paradip	1.61	0.70	0.91	1.66 0.62 1.04
Visakhapatnar	1.60	1.49	0.11	1.97 1.54 0.43
Chennai	4.07	1.08	2.99	2.98 1.04 1.94
Tuticorin	1.56	0.26	1.30	1.55 0.44 1.11
Cochin	1.12	0.41	0.71	1.12 0.23 0.89
New Mangalore	1.51	1.13	0.38	1.09 0.70 0.39
Mormugao	2.17	0.27	1.90	1.98 0.28 1.70
J.L.Nehru	2.14	1.95	0.19	1.73 1.55 0.18
Mumbai	4.57	2.40	2.17	2.86 1.41 1.45
Kandla	6.78	5.30	1.48	5.12 3.12 2.00
All Ports	3.10	1.70	1.40	2.42 1.17 1.25

SECTION - I

PORT SECTOR(MAJOR AND MINOR) SUMMARY TABLES

1.1.0 PORT SECTOR AT A GLANCE

Item	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
I. No. of Ports							
i) Major	11	11	11	11	11	11	11
ii) Minor/Intermediate	163	163	163	163	163	179	179
iii) Total	174	174	174	174	174	190	190
Major Ports							
II. Cargo Handled (In million Tonnes)							
i) POL	64.00	67.60	73.76	76.92	80.37	90.92	99.05
ii) Iron Ore	31.73	31.60	29.83	34.10	34.35	34.56	33.26
iii) Fertilised & Raw Material	8.94	9.92	9.91	9.47	11.00	12.36	9.92
iv) Coal	19.66	22.40	24.49	26.81	30.00	33.79	37.53
Coke & Coking Coal	5.85	6.03	6.66	7.25	9.07	10.06	10.51
Other Coal	13.81	16.37	17.83	19.56	20.93	23.73	27.02
v) Others(Including Containers)	27.12	25.12	28.51	31.72	39.37	43.58	47.21
Total	151.67	156.64	166.50	179.02	195.89	215.21	226.97
III. Containers ('000 TEUs) (Million Tonnes)	681 7.70	681 6.72	797 7.62	1048 11.90	1258 15.01	1449 17.44	1699 20.74
IV. Passenger Traffic Handled ('000 Nos.)	156	162	203	218	266	296	277

1.1.0 PORT SECTOR AT A GLANCE (Contd.)

V. Employment (Thousand Number)

	1991	1992	1993	1994	1995	1996	1997
	102	97	94	103	98	97	95

VI. Financial Performance

- i) Total Revenue
(Rs. Million)
- ii) Total Expenditure
(Rs. Million)

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
i) Total Revenue	12582	14474	17865	20648	32173	27586	31716
ii) Total Expenditure	9304	11002	12762	14445	16770	18772	21239

VII. Selected Performance Indicators

- i) Total Vessels
Sailed (Nos.)
- ii) Av. Turn round
Time (days)
- iii) Av. Pre-Berthing
Detention (days)
- iv) Output Per Ship
Berthday (tonnes)

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
i) Total Vessels Sailed (Nos.)	8919	9026	10130	10608	11681	12300	13119
ii) Av. Turn round Time (days)	8.1	6.7	6.7	6.3	6.7	7.7	7.5
iii) Av. Pre-Berthing Detention (days)	2.1	1.6	2.0	1.9	2.4	3.6	3.1
iv) Output Per Ship Berthday (tonnes)	3372	3942	3575	3892	3968	4047	4497

1.1.0 PORT SECTOR AT A GLANCE (Contd.)

Item	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
Minor Ports							
I. Cargo Handled (In Million Tonnes)							
i) Fertiliser & Raw Material	2.63	2.15	3.01	2.28	1.65	2.61	1.94
ii) Iron & Other Ore	0.95	0.36	0.49	0.44	5.18	4.69	5.74
iii) Oil Cakes	1.71	2.07	2.37	2.48	2.15	2.04	2.20
iv) Building Material	1.86	1.80	1.53	1.55	4.04	4.10	4.14
v) Salt	0.17	0.17	0.17	0.25	0.18	0.17	0.26
vi) Others	5.46	6.71	7.84	12.47	9.08	12.10	13.67
Total	12.78	13.26	15.41	19.47	22.28	25.71	27.95
II. Passenger Traffic Handled (Million Nos.)							
	14.16	15.50	14.95	15.41	15.63	17.79	15.15
III. Ship Traffic (Nos.)							
i) Steamers	1879	1781	4146*	4294*	4938*	8357*	7873*
ii) Sailing Vessels	25908	26851	22467	28516	14945	20860	23178

* The increase is mainly due to A & N Island Data.
For details see table 3.3.1

1.1.1 Trend Of Cargo Traffic Handled At Indian Ports

(In Million Tonnes)

Ports/ Years	Overseas			Coastal			Overseas & Coastal		
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
MAJOR PORTS									
1980-81	39.09	28.50	67.59	7.73	4.95	12.68	46.82	33.45	80.27
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
MINOR PORTS									
1980-81	1.92	3.39	5.31	0.58	0.85	1.43	2.50	4.24	6.74
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	8.61	6.42	15.03	5.37	1.88	7.25	13.98	8.30	22.28
1995-96	9.95	8.17	18.12	5.12	2.47	7.59	15.07	10.64	25.71
1996-97	10.77	7.75	18.52	6.13	3.30	9.43	16.99	11.05	27.95
ALL PORTS									
1980-81	41.01	31.89	72.90	8.31	5.80	14.11	49.32	37.69	87.01
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	47.48	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	92.21	58.60	150.81	34.97	32.39	67.36	127.18	90.99	218.17
1995-96	104.81	65.41	170.22	36.91	33.79	70.70	141.72	99.20	240.92
1996-97	113.34	65.06	178.40	42.77	33.75	76.52	156.11	98.81	254.92

1.1.2 Cargo Handled At Ports - By State

		(In '000 Tonnes)									
Port/State/Type											
of Traffic		1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
GUJARAT		11541	21051	25552	28998	31298	34794	40245	43445	48820	53588
Kandla	8761	16486	18925	19685	21002	22910	24500	26502	30339	33730	
Other Ports	2780	4565	6627	9313	10296	11884	15745	16943	18481	19858	
Overseas	9552	12407	16735	20615	21480	26975	33083	34650	40653	43794	
Coastal	1989	8644	8817	8383	9818	7819	7162	8795	8167	9794	
Loaded	1859	3012	5302	5734	6905	6957	9760	10475	12795	12804	
Unloaded	9682	18039	20250	23264	24393	27837	30485	32970	36025	40784	
MAHARASHTRA		18351	25910	29782	31849	29587	32256	34539	38127	44260	45752
Mumbai	16978	24310	27746	28899	26261	28946	30506	30673	33916	33439	
J.L.Nehru	-	-	697	2022	2794	3007	3387	5008	6873	8069	
Other Ports	1373	1600	1339	928	532	303	646	2446	3471	4244	
Overseas	13803	15438	18223	18984	17328	21386	25432	25565	29944	32401	
Coastal	4548	10472	11559	12865	12259	10870	9107	12562	14316	13351	
Loaded	5012	13657	15880	16157	15715	14621	14391	16374	19250	18595	
Unloaded	13339	12253	13902	15692	13872	17635	20148	21753	25010	27157	

1.1.2 Cargo Handled At Ports - By State (Contd...)
(In '000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GOA	13772	16117	14168	14912	15111	16526	18929	19093	18202	17707
Mormugao	13764	16115	14168	14911	15099	16314	18717	18881	18095	17312
Other Ports	8	2	...	1	12	212	212	212	107	395
Overseas	13542	15659	13511	14213	14175	15251	17567	17445	17482	16668
Coastal	230	458	657	699	936	1275	1362	1648	720	1039
Loaded	12922	14496	12685	13191	12709	14044	16306	16273	15376	15537
Unloaded	850	1621	1483	1721	2402	2482	2623	2820	2826	2170
Daman & Diu	7	4	1	neg.	neg.	-	-	-	-	-
Overseas	-	-	-	-	-	-	-	-	-	-
Coastal	7	4	1	neg.	neg.	-	-	-	-	-
Loaded	4	neg.	-	-	-	-	-	-	-	-
Unloaded	3	4	1	neg.	neg.	-	-	-	-	-
KARNATAKA	2031	4545	8314	8633	8657	7558	8940	8460	9407	12977
N. Mangalore	963	3686	7661	8022	8274	7088	8630	8005	8884	12453
Other Ports	1068	859	653	611	383	470	310	455	523	524
Overseas	1475	3978	7668	7702	7335	6785	7955	7218	7947	10381
Coastal	556	567	646	931	1322	773	985	1242	1460	2596
Loaded	1141	3113	6676	6999	7136	5744	7531	6533	7191	8284
Unloaded	890	1432	1638	1634	1521	1814	1409	1927	2216	4693

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

		(In '000 Tonnes)										
Port/State/Type												
of Traffic		1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
KERALA		5424	5388	7281	7405	7611	8103	7719	8828	11687	11926	
Cochin	5233	5277	7124	7275	7481	7978	7620	8631	11503	11742		
Other Ports	191	111	157	130	130	125	99	197	184	184		
Overseas	3836	2369	3085	2604	3106	3284	3107	4023	4842	5823		
Coastal	1588	3019	4196	4801	4505	4819	4612	4805	6845	6103		
Loaded	1292	819	1188	1145	1169	1233	1367	1630	2547	2424		
Unloaded	4132	4569	6093	6260	6442	6870	6352	7198	9140	9502		
TAMIL NADU		13128	22849	29640	29820	31099	31806	33321	37629	40123	41056	
Tuticorin	2560	4221	5324	5075	5868	6215	6700	8041	9286	9174		
Chennai	10375	18148	23940	24518	25046	25331	26541	29464	30721	31848		
Other Ports	193	480	376	227	185	260	80	124	116	34		
Overseas	10979	15501	17736	17714	17849	18645	19428	21210	25168	23644		
Coastal	2149	7348	11904	12106	13250	13161	13893	16419	14955	17412		
Loaded	4498	7341	10317	10062	10754	9864	10774	11413	11621	11481		
Unloaded	8630	15508	19323	19758	20345	21942	22547	26216	28502	29575		

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

(In '000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
PONDICHERY	49	118	229	70	53	47	22	26	56	45
Overseas	49	118	229	70	53	47	22	26	56	45
Coastal	-	-	-	-	-	-	-	-	-	-
Loaded	-	-	-	-	-	-	-	-	-	-
Unloaded	49	118	229	70	53	47	22	26	56	45
ANDHRA PRADESH	10972	16985	22491	20545	22702	24325	27402	31416	35120	36725
Visakhapatnam	10123	15911	21117	19421	21522	22765	25595	30029	32817	34498
Other Ports	849	1074	1374	1124	1180	1560	1807	1387	2303	2227
Overseas	10300	12125	16301	14944	16014	19157	20327	21538	23518	24545
Coastal	672	4860	6190	5601	6688	5168	7075	9878	11602	12180
Loaded	6642	7378	11439	9719	11869	10919	13927	15118	16838	14922
Unloaded	4330	9607	11052	10826	10833	13406	13475	16298	18282	21803
ORISSA	2241	3331	6252	6945	7447	7813	8539	10321	11429	11719
Paradip	2241	3331	6184	6884	7297	7606	8327	10121	11259	11580
Other Ports	-	-	68	61	150	207	212	200	170	139
Overseas	2240	3049	4960	5001	5078	4427	4853	5978	6505	5690
Coastal	1	282	1292	1944	2369	3386	3686	4343	4924	6029
Loaded	1934	2374	3766	4056	4449	5231	5827	6669	7125	7809
Unloaded	307	957	2486	2889	2998	2582	2712	3652	4304	3910

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

		(In '000 Tonnes)									
Port/State/Type of Traffic		1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
WEST BENGAL											
	9272	12128	14689	14953	16000	18337	18496	20535	21515	23124	
Calcutta-Haldia	9272	12128	14689	14953	16000	18337	18496	20535	21515	23124	
Other Ports	-	-	-	-	-	-	-	-	-	-	-
Overseas	7120	8664	9698	10372	11248	12383	11937	13155	14105	15411	
Coastal	2152	3464	4991	4581	4752	5954	6559	7380	7410	7713	
Loaded	2284	3471	4933	4537	4747	5422	6279	6453	6400	6896	
Unloaded	6988	8657	9756	10416	11253	12915	12217	14082	15115	16228	
SEA-ISLANDS	214	242	32	317	337	337	337	292	295	295	
Other Ports	214	242	32	317	337	337	337	292	295	295	
Overseas	3	-	-	-	-	-	-	-	-	-	
Coastal	211	242	32	317	337	337	337	292	295	295	
Loaded	100	126	1	82	99	99	99	60	56	61	
Unloaded	114	116	31	235	238	238	238	232	239	234	
ALL INDIA	87002	128668	158431	164447	169902	181902	198489	218172	240914	254914	
Major Ports	80270	119613	147575	151665	156644	166497	179019	195890	215208	226969	
Other Ports	6732	9055	10856	12782	13258	15405	19470	22282	25706	27945	
Overseas	72899	89308	108146	112219	113666	128340	143711	150808	170220	178402	
Coastal	14103	39360	50285	52228	56236	53562	54778	67364	70694	76512	
Loaded	37688	55787	72187	71682	75552	74134	86261	90998	99199	98813	
Unloaded	49314	72881	86244	92765	94350	107768	112228	127174	141715	156101	

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

('000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GUJARAT										
Kandla	8190	15175	16755	17271	18148	20503	20953	22651	25873	29267
Other Ports	1492	2864	3495	5993	6245	7334	9532	10319	10152	11517
Total	9682	18039	20250	23264	24393	27837	30485	32970	36025	40784
Overseas	8123	10737	12569	16080	15941	21197	24495	26450	30092	33272
Coastal	1559	7302	7681	7184	8452	6640	5990	6520	5933	7512
MAHARASHTRA										
Mumbai	13209	11947	13141	13719	11506	15232	17438	16162	17320	18370
Jawaharlal Nehru			507	1645	2061	2105	2088	3290	4314	4808
Other Ports	130	306	254	328	305	298	622	2301	3376	3979
Total	13339	12253	13902	15692	13872	17635	20148	21753	25010	27157
Overseas	10725	11168	13353	14770	13143	17221	19321	19245	21636	22874
Coastal	2614	1085	549	922	729	414	827	2508	3374	4283
GOA										
Mormugao	843	1621	1483	1721	2396	2394	2535	2732	2819	1951
Other Ports	7	-	..	-	6	88	88	88	7	219
Total	850	1621	1483	1721	2402	2482	2623	2820	2826	2170
Overseas	621	1163	847	1058	1660	1720	1910	2024	2336	1323
Coastal	229	458	636	663	742	762	713	796	490	847
DAMAN & DIU										
Other Ports	3	4	1	neg.	neg.	neg.	neg.	neg.	-	-
Total	3	4	1	neg.	neg.	neg.	neg.	neg.	-	-
Overseas	-	-	-	-	-	-	-	-	-	-
Coastal	3	4	1	neg.	neg.	neg.	neg.	neg.	-	-

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

		('000 Tonnes)									
Port/State/Type of Traffic		1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
KARNATAKA											
New Mangalore	639	996	1294	1363	1290	1530	1245	1640	1883	4479	
Other Ports	251	436	344	271	223	284	164	287	333	214	
Total	890	1432	1638	1634	1521	1814	1409	1927	2216	4693	
Overseas	509	1015	1062	958	776	1127	718	1144	1319	4287	
Coastal	381	417	576	676	745	687	691	783	897	406	
KERALA											
Cochin	4112	4557	6053	6251	6433	6864	6351	7193	9125	9487	
Other Ports	20	12	40	9	9	6	1	5	15	15	
Total	4132	4569	6093	6260	6442	6870	6352	7198	9140	9502	
Overseas	3533	1803	2519	2138	2566	2601	2323	2952	3522	4497	
Coastal	599	2766	3574	4122	3876	4269	4029	4246	5618	5005	
TAMIL NADU											
Tuticorin	2117	4016	4900	4541	5099	5408	5606	6876	7955	7611	
Chennai	6412	11107	14097	15000	15064	16286	16879	19247	20433	21933	
Other Port	101	385	326	217	182	248	62	93	114	31	
Total	8630	15508	19323	19758	20345	21942	22547	26216	28502	29575	
Overseas	7365	9361	8788	8978	8413	10187	9807	11591	14595	13368	
Coastal	1265	6147	10535	10780	11932	11755	12740	14625	13907	16207	

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

('000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
PONDICHERY										
Other Ports	49	118	229	70	53	47	22	26	56	45
Total	49	118	229	70	53	47	22	26	56	45
Overseas	49	118	229	70	53	47	22	26	56	45
Coastal	-	-	-	-	-	-	-	-	-	-
ANDHRA PRADESH										
Visakhapatnam	3999	8941	10410	10322	10431	12774	12930	15837	17611	21214
Other Ports	331	666	642	504	402	632	545	461	671	589
Total	4330	9607	11052	10826	10833	13406	13475	16298	18282	21803
Overseas	3797	5528	7824	8429	8999	12622	12018	13676	14731	16386
Coastal	533	4079	3228	2397	1834	784	1457	2622	3551	5417
ORISSA										
Paradip	307	957	2460	2839	2880	2428	2581	3491	4200	3859
Other Ports	-	-	26	50	118	154	131	161	104	51
Total	307	957	2486	2889	2998	2582	2712	3652	4304	3910
Overseas	306	957	2486	2889	2998	2582	2708	3499	4239	3784
Coastal	1	-	-	-	-	-	4	153	65	126

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

		('000 Tonnes)									
Port/State/Type of Traffic		1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
WEST BENGAL											
Calcutta-Haldia	6988	8657	9756	10416	11253	12915	12217	14082	15115	16228	
Other Ports	-	-	-	-	-	-	-	-	-	-	
Total	6988	8657	9756	10416	11253	12915	12217	14082	15115	16228	
Overseas	5983	7841	8701	9366	10125	11017	10261	11600	12283	13505	
Coastal	1005	816	1055	1050	1128	1898	1956	2482	2832	2723	
SEA-ISLAND											
Other Ports	114	116	31	235	238	238	238	232	239	234	
Total	114	116	31	235	238	238	238	232	239	234	
Overseas	-	-	-	-	-	-	-	-	-	-	
Coastal	114	116	31	235	238	238	238	232	239	234	
ALL INDIA											
MAJOR PORTS	46816	67974	80856	85088	86569	98439	100823	113201	126648	139207	
Other Ports	2498	4907	5388	7677	7781	9329	11405	13973	15067	16894	
Total	49314	72881	86244	92765	94350	107768	112228	127174	141715	156101	
Overseas	41011	49691	58378	64736	64674	80321	83583	92207	104809	113341	
Coastal	8303	23190	27866	28029	29676	27447	28645	34967	36906	42760	

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

('000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GUJARAT										
Kandla	571	1311	2170	2414	2854	2407	3547	3851	4466	4463
Other Ports	1288	1701	3132	3320	4051	4550	6213	6624	8329	8341
Total	1859	3012	5302	5734	6905	6957	9760	10475	12795	12804
Overseas	1429	1670	4166	4535	5539	5778	8588	8200	10561	10522
Coastal	430	1342	1136	1199	1366	1179	1172	2275	2234	2282
MAHARASHTRA										
Mumbai	3769	12363	14605	15180	14755	13714	13068	14511	16590	15069
Jawaharlal Nehru	-	-	190	377	733	902	1299	1718	2559	3261
Other Ports	1243	1294	1085	600	227	5	24	145	95	265
Total	5012	13657	15680	16157	15715	14621	14391	16374	19250	18595
Overseas	3078	4270	4870	4214	4185	4165	6111	6320	8308	9527
Coastal	1934	9387	11010	11943	11530	10456	8280	10054	10942	9068
GOA										
Mormugao	12921	14494	12685	13190	12703	13920	16182	16149	15276	15361
Other Ports	1	2	-	1	6	124	124	124	100	176
Total	12922	14496	12685	13191	12709	14044	16306	16273	15376	15537
Overseas	12921	14496	12664	13155	12515	13531	15657	15421	15146	15345
Coastal	1	-	21	36	194	513	649	852	230	192
Daman & Diu										
Other Ports	4	neg.	-	-	-	-	-	-	-	-
Total	4	neg.	-	-	-	-	-	-	-	-
Overseas	-	-	-	-	-	-	-	-	-	-
Coastal	4	neg.	-	-	-	-	-	-	-	-

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

('000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
KARNATAKA										
New Mangalore	324	2690	6367	6659	6976	5558	7385	6365	7001	7974
Other Ports	817	423	309	340	160	186	146	168	190	310
Total	1141	3113	6676	6999	7136	5744	7531	6533	7191	8284
Overseas	966	2963	6606	6744	6559	5658	7237	6074	6628	6094
Coastal	175	150	70	255	577	86	294	459	563	2190
KERALA										
Cochin	1121	720	1071	1024	1048	1114	1269	1438	2378	2255
Other Ports	171	99	117	121	121	119	98	192	169	169
Total	1292	819	1188	1145	1169	1233	1367	1630	2547	2424
Overseas	303	566	566	466	540	683	784	1071	1320	1326
Coastal	989	253	622	679	629	550	583	559	1227	1098
TAMIL NADU										
Tuticorin	443	205	424	534	769	807	1094	1165	1331	1563
Chennai	3963	7041	9843	9518	9982	9045	9662	10217	10288	9915
Other Ports	92	95	50	10	3	12	18	31	2	3
Total	4498	7341	10317	10062	10754	9864	10774	11413	11621	11481
Overseas	3614	6140	8948	8736	9436	8458	9621	9619	10573	10276
Coastal	884	1201	1369	1326	1318	1406	1153	1794	1048	1205

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

('000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

PONDICHERY

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

ANDHRA PRADESH

Visakhapatnam	6124	6970	10707	9099	11091	9991	12665	14192	15206	13284
Other Ports	518	408	732	620	778	928	1262	926	1632	1638
Total	6642	7378	11439	9719	11869	10919	13927	15118	16838	14922
Overseas	6503	6597	8477	6515	7015	6535	8309	7862	8787	8159
Coastal	139	781	2962	3204	4854	4384	5618	7256	8051	6763

ORISSA

Paradip	1934	2374	3724	4045	4417	5178	5746	6630	7059	7721
Other Ports	-	-	42	11	32	53	81	39	66	88
Total	1934	2374	3766	4056	4449	5231	5827	6669	7125	7809
Overseas	1934	2092	2474	2112	2080	1845	2145	2479	2266	1906
Coastal	-	282	1292	1944	2369	3386	3682	4190	4859	5903

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

('000 Tonnes)

Port/State/Type of Traffic	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

WEST BENGAL

Calcutta-Haldia	2284	3471	4933	4537	4747	5422	6279	6453	6400	6896
Other Ports	-	-	-	-	-	-	-	-	-	-
Total	2284	3471	4933	4537	4747	5422	6279	6453	6400	6896
Overseas	1137	823	997	1006	1123	1366	1676	1555	1822	1906
Coastal	1147	2648	3936	3531	3624	4056	4603	4898	4578	4990

SEA-ISLANDS

Other Ports	100	126	1	82	99	99	99	60	56	61
Total	100	126	1	82	99	99	99	60	56	61
Overseas	3	-	-	-	-	-	-	-	-	-
Coastal	97	126	1	82	99	99	99	60	56	61

ALL INDIA

Major Ports	33454	51639	66719	66577	70075	68058	78196	82689	88560	87762
Other Ports	4234	4148	5468	5105	5477	6076	8065	8309	10639	11051
Total	37688	55787	72187	71682	75552	74134	86261	90998	99199	98813
Overseas	31888	39617	49768	47483	48992	48019	60128	58601	65411	65061
Coastal	5800	16170	22419	24199	26560	26115	26133	32397	33788	33752

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 INDICATORS**
- 2.7 EMPLOYMENT**
- 2.8 FINANCIAL PERFORMANCE**

2.1.1 Topography of Major Ports

Port	Location		Entrance Channel				Turning	Circle	
	Latitude	Longitude	Distance of anchor from Harbour	Minimum Depth (Mtrs.)	Minimum Width (Mtrs.)	No.	Diameter	(In Mtrs.): Type of Dock/Port	
1	2	3	4	5	6	7	8	9	
Kandla	22 50' 42" N	70 07' 05" E	26.7	4.6	185	2	500	Tidal Port with straight line cargo berth.	
Vadinar	22 30' 34" N	69 42' 04" E	8.0	23.5	1500	-	-	Off -Shore oil terminal (Single Buoy Mooring)	
Mumbai	18 54' N	72 49' E	9.5	10.9	366	1	366	Natural Harbour and Impounded wet docks.	
J.L.Nehru	18 56.43' N*	72 57.24' E*	10.0	11.0	350	1	600	Open Harbour all Weather Tidal Port.	
Mormugao	15 25' N	73 48' E	4.5	13.0	250	1	480	Open type Harbour protected by break-water.	
New Mangalore	12 55' N	74 48' E	7.5	15.1	245	1	570	Artificial lagoon port with open berth.	
Cochin	9 58' N	76 14' E	10.5	11.8	185	2	260	Protected wet Port, 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/ Port
	Latitude	Longitude	Distance of anchor from Harbour	Minimum Depth (Mtrs.)	Minimum Width (Mtrs.)	No.	Diameter (In Mtrs.)
1	2	3	4	5	6	7	8
Tuticorin	8 45' N	78 13' E	5.6	9.2	153	1	488
Chennai	13 06' N	80 18' E	6.7	TH 18.6 OH 19.2	244	1	548
Visakhapatnam	17 41' N	83 18' E					
-Inner Harbour			2.2	10.7	94-122	1	366
-Outer Harbour			0.4	17.5	200	1	610
Paradip	20 16' N	86 40' E	5.8	12.8	160	1	520
Calcutta	22 32' 53" N	88 18' 05"E	165	3.7	200	2	200/250
Haldia	22 2' N	80 6' E	130	5.5	467	1	549

IH - Inner Harbour
OH - Outer Harbour

2.1.2 Details of Berths at Major Ports

Port	Type of Berth (No.)	Draft : (In Mtrs.)	Length : (In Mtrs.)	Maximum size of ships that can be accommodated (DWT)	Percentage occupancy during 1996-97
1	2	3	4	5	6
Kandla	General Cargo Jetties (7) Oil Jetty - I (1) Oil Jetty - II (1) Oil Jetty - III (1) Oil Jetty - IV (1) S.B.M. (Vadinar) (1)	9.14 10.36 9.14 9.40 10.00 22.00	225.55 225.55 192.02 225.55 225.00 -	54000 40000 28000 40000 40000 280000	98 98 98 98 - 50
Mumbai	Indira Dock (30*) Victoria Dock (12) Princess Dock (8)	8.5-10.7 6.5 6.5	244 152 212	Length overall 600 feet. Length overall 460 feet. Length overall 500 feet. 125000 20000 45000	82 68 77
J.L. Nehru	Jawahar Deep (4) Pir Pau Oil Pier (1) New Pir Pau Pier (1) Container (3) Dry Bulk (2) Service: BBO3 BBO4	11.6-12.2 9.7 12.0 12.0 12.0 12.0 8.0	244-493 174 197 680 500 212 140	Linear length of Quay 85000 85000 85000 19000	76 84 62 82 74 44 ...

* : Included 7 Container berths.

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

Port	Type of Berth (No.)	Draft (In Mtrs.)	Length (In Mtrs.)	Maximum size of ships that can be accommodated (DWT)	Percentage occupancy during 1996-97
1	2	3	4	5	6
Mormugao	General Cargo (B.No. 5) General Cargo (B.No. 6)	8.5 6.0	175 213	18000 7000	55 29
	Barge Berth (B.No. 7) (adjacent to berth No.6) Oil Berth (B.No. 8) MOHP (B. No. 9) Multi purpose G.C. Berth (B. No. 10) Multi purpose G.C. Berth (B. No. 11)	3.5 13.0 13.0 11.0 11.0	100 116(298+*) 222(375.5+*) 250 270	- 100000 275000 55000 55000	32 64 78 83 80
New Mangalore	General (7) KIOCL (1) Oil Jetty (1) MRPL Crude Jetty (1)	7.1-10.5 12.5 10.1 14.0	125-198 285 300 320	25000 Each 60000 30000 65000 to 85000	1, 68, 65, 40, 58,13, 48 54 62 46

** : Length between extreme mooring dolphins.

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

Port	Type of Berth (No.)	Draft (In Mtrs.)	Length (In Mtrs.)	Maximum size of ships that can be accommodated		Percentage occupancy during 1996-97	
				(DWT)			
1	2	3	4	5	6		
Cochin	Break Bulk (9)	8.0-9.1 (Each)	152-183	...	26, 27, 29, 30, 51, 33, 30, 50, 61		
	Fertiliser (1)	10.7	152-207	87000	54		
	Oil terminal (1)	11.7	198-440	120000	89		
	Tanker Berth (2)	9.1	-	25000	40		
	(North/South) Container (1) Terminal (CE/Q9)	10.7	414	20000	73		
Tuticorin	General Cargo Berth(6)	8.2	168-192	50000	92		
Chennai	Oil Jetty (1)	8.2	228		37		
	Coal Jetty (2)	8.2	235		80		
	Break Bulk/Neo Bulk (10)	8.53-10.40	170.60-246	...	80, 70, 80, 80, 82, 78, 88, 88, 95		
	Container Terminal (3)	13.4 Each	200 Each	20000 To 45000	88, 68, 62		
	Liquid Bulk (2)	16.00-17.4	304 & 338.94	140000	78, 77		
	Dry Bulk (4) Others (6)	11.00-17.4 9.14-10.4	218-222 179-246	Upto 130000 ...	92, 82, 91, 66, 81, 100, 98, 91, 94, 91		

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

Port	Type of Berth (No.)	Draft (In Mtrs.)	Length (In Mtrs.)	Maximum size of ships that can be accommodated (DWT)	Percentage occupancy during 1996-97
1	2	3	4	5	6

Visakhapatnam

Inner Harbour :					
Multi-purpose Berths*(12)	10.1-10.2	168-195	36000	93	
Dry Bulk Berth (1)	10.1	194	35000	72	
(Mech) F B					
Oil Berth (2)	10.1+*	183	36000	56	
Liquid Bulk Berth	9.8	183	36000	88	
Liquid Bulk Berth					
Outer Harbour :					
Ore Berth (2)	16.0	270	120000	71	
Dry Bulk Berth(Iron-Ore)					
General-cum-Bulk					
Cargo Berth (1)	13.2	232	60000	94	
Off - Shore Tanker					
Terminal Berth (1)	15.0	280	120000	65	

* For handling Break-Bulk / Container.

** On a rising tide of 0.91 meters.

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

Port	Type of Berth (No.)	Draft (In Mtrs.)	Length (In Mtrs.)	Maximum size of ships that can be accommodated (DWT)	Percentage occupancy during 1996-97
1	2	3	4	5	6
Paradip	General Cargo Berth (5)				
	Dry & Break-Bulk-I	11.5	687	40000-60000	71
	Dry & Break-Bulk-II	11.5	687	40000-60000	79
	Dry & Break-Bulk-III	11.5	687	40000-60000	76
	Iron Ore Berth (1)	13.2	155	60000-70000	59
	(Mechanised Dry-Bulk)		(320m. between Dolphin)	(Depend on weather Conditions)	
	Fertiliser Berth (1)	13.0	252	60000-65000	33
	(Mechanised Liquid Bulk)				
	Multipurpose Berth	12.5	290	65000	68
	South Quay	13.0	265	50000	68
Calcutta	West Quay	13.0	497	60000-65000	70
	Multi Purpose Berth (20)				
	1. Berth 1/KPD	8.9	133	15* Length 70* Breadth	55
	2. Berth 5/7KPD	8.9	229	-do-	60
	3. Berth 9.KPD	8.9	108	-do-	75
	4. Berth 11KPD	8.9	151	-do-	48
	5. Berth 4KPD	8.9	136	-do-	29

* LOA - 157 mtrs. and Beam 21.35 mtrs.

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

Port	Type of Berth (No.)	Draft (In Mtrs.)	Length (In Mtrs.)	Maximum size of ships that can be accommodated (DWT)	Percentage occupancy during 1996-97
1	2	3	4	5	6
Calcutta (Contd.)					
6. Berth 8/KPD		8.9	128	515' Length 70' Breadth*	25
7. Berth 10KPD		8.9	161	-do-	58
8. Berth 12KPD		8.9	143	-do-	94
9. Berth 22KPD		8.9	151	-do-	100
10. Berth 23KPD		8.9	147	-do-	49
11. Berth 24KPD		8.9	152	do	58
12. Berth 25KPD		8.9	159	-do-	51
13. Berth 26KPD		8.9	185	-do-	37
14. Berth 27KPD		8.9	195	-do-	85
15. Berth 28KPD		8.9	195	-do-	44
16. Berth 29KPD		8.9	183	-do-	50
17. Berth 1NSD		9.03	200	565' Length 80' Breadth**	47
18. Berth 2NSD		9.03	187	-do-	60
19. Berth 3NSD		9.03	183	-do-	58
20. Berth 14NSD		7.8	174	-do-	37
21 Berth 13NSD		7.8	174	-do-	40

* 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 (In Mtrs.)	Length (In Mtrs.)	Maximum size of ships that can be accommodated (DWT)	Percentage occupancy during 1996-97
1	2	3	4	5	6
Calcutta (Contd.)	Containers (6)				
	1. Berth 3KPD	8.9	128	565' Length, 80' Breadth	48
	2. Berth 6KPD	8.9	118	-do-	45
	3. Berth 5NSD	9.03	182	-do-	37
	4. Berth 7NSD	9.03	192	-do-	63
	5. Berth 4NSD	9.03	181	-do-	...
Haldia	6. Berth 8NSD	8.0	225	-do-	...
	Oil Berth				
	1. Berth 12NSD	7.9	152	-do-	43
	Liquid Bulk				
	Berth 1 Buj Buj	Up to 9 mtrs.	189	139 to 189 mtrs.	70
	Berth 2 -do-	-do-	102	85 to 116 mtrs.	63
	Berth 3 -do-	-do-	163	106 to 141 mtrs.	56
	Berth 5 -do-	-do-	189	132 to 189 mtrs.	72
	Berth 7 -do-	-do-	189	106 to 141 mtrs.	53
	Berth 8 -do-	-do-	189	106 to 189 mtrs.	31
	1. Liquid Bulk	9.9	91.44	238 Mtrs. (LOA)	65
Haldia	2. Liquid Bulk	8.8	145	279 -do-	67
	3. Dry/Liquid Bulk	9.9	337	232 -do-	75
	4. Dry Bulk	11.0	284	232 -do-	64
	5. Dry Bulk	9.5	242	198 -do-	85
	6. Dry Bulk/Liquid Bulk	10.0	234	213 -do-	78
	7. Dry Bulk/Liquid Bulk	10.0	234	213 -do-	85
	9. Dry Bulk/Break Bulk	10.0	220	4 or more vessels of total	94
	9. Dry/Break Bulk/Container	10.0	220	length of 800 mtrs. can	76
	10. Dry/Break/Container	10.0	220	be simultaneously handled	70
	11. Dry/Break Bulk/Container	10.0	206	at berth No. 8,9,10 & 11.	...

2.1.3 Storage Facilities at Major Ports.

Port	Dry Storage Accommodation				Liquid Storage Tanks			
	Type	No.	Area (Sq. mtrs.)	Capacity	No.	Location	Capacity	Type of Cargo
1	2	3	4	5	6	7	8	9
Kandla	i) Transit Sheds ii) Ware-Houses (Double storage) iii) Other covered areas(Godowns) iv) Open area v) Container Freight Station	6 4 12 - 2	36050 22311 41319 326684 6502	53000 80000 80500 300000 10000				
Mumbai	i) Transit Sheds ii) Ware-Houses iii) Other covered area (Container freight station) iv) Open area (At various places) v) Container Storage Yard	27 22 23 - 7	135568 127365 60180+7802 - 356288+3288 20039+2125		4 P&V Docks 8(BPPT) Jawahar Deep 6(BPCL) Jawahar Deep		Varies from 5.41 Lakh litres to 128.31 lakh litres. Varies from 810-10222 KL Varies from 22000-32000 KL	Molasses/ Caster Oil POL Products & Fresh Water -do-

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

Dry Storage Accomodation				Liquid Storage Tanks			
Port	Type	No.	Area (Sq. mtrs.)	No.	Location	Capacity	Type of 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		Soda, MEG, etc.
	ii) Ware-Houses	5	17096		Parties)		
	iii) C.W.C. Godowns	3	8412	26	Outside (Installed by	150637	POL Products
	iv) F.C.I. Godowns	2	8268		IOC & HPC)		
	II. Open Storage			3	Outside (Installed	13354	Phosphoric acid
	i) Behind B. No. 6 & 7		13332		by Zuan Industries)		
	ii) Behind B. No. 10		16000				
	iii) Behind B. No. 11		22200				
	iv) Stock yard at Mechanical ore handling plant.		80000				
New Mangalore	i) Transit/Overflow Sheds	5	23634	41	Inside and Outside	190706 KL	Naptha, Petroleum
	ii) Ware-Houses	9	19710		the Security wall		Products, Molasses
	iii) Open area	3	27857				Palm Oil, Phosphoric
	iv) Silos	3	15000 Tonnes (Capacity)				Acid, Ammonia, etc.
							L&T State of art Cement
							handling storage and
							bagging facilities based
							on the transportation of
							Bulk Solids by fluidisation
							concept.

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

Port	Type	Dry Storage Accommodation			Liquid Storage Tanks		
		No.	Area (Sq. mtrs.)	No.	Location	Capacity	Type of Cargo
1	2	3	4	5	6	7	8
J. L. Nehru							
I. Bulk Terminal							
A. Covered Sheds							
i) Food Grain Shed		1	21000	65	2 kms away from the port	357674	POL, POL Products
ii) Fertiliser Shed		2	21000 Each				Edible Oils, B & C Class Chemicals.
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				
Cochin							
i) Transit Sheds		7	28263	14	Near BTB	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	96				

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

Port	Dry Storage Accommodation			No.	Area (Sq. mtrs.)	No.	Location	Liquid Storage Tanks	
	Type	No.						Capacity	Type of Cargo
1	2	3	4	5	6	7	8		
Tuticorin	i) Transit Sheds	2	10800	3	Inside Security Wall	15000 M3	Phosphoric Acid		
				1	Outside Security Wall	10000 MT	Liquid Ammonia		
				10	-do-	2000 M3	Vinyl Chloride, Monomer.		
	ii) Ware - Houses iii) Other covered area iv) Open area	3	15550 733 & 738 72000	1	-do-	5000 M3	-do-		
				3	-do-	3x8500 MT	Furnace Oil		
				2	-do-	2x70 KL	LSHF/HSO		
				3	-do-	1x13800 KL	Naptha		
				2	-do-	1x13700 KL	-do-		
				3	-do-	1x14100 KL	-do-		
				2	-do-	1x600 MT	LDO		
				2	-do-	1x938 MT	LDO		
Chennai	i) Transit Sheds ii) Ware-Houses iii) Container freight station iv) Covered area for FCI v) Open space vi) Container parking yard	8	36000 85886 12800 43450 325000 130000	2	-do-	7790 KL	Ethylene Di -Chloride		
				2	-do-	10000 MT	LPG		
				1	-do-	227000 Tonnes	Oils, Acids, Chemicals & Molasses		
				34	Bharathi Dock/ South Quay				
				13	West Ore berths west jetty berths area	19098 M. Tonnes	Edible oils & Molasses, Caustic Soda, P. Acid & Ammon		
				7		30959			
				3		27044			
				2		8113			
				51		968796			
Visakhapatnam	i) Transit Sheds ii) Ware- Houses iii) Other covered area (S.2 & S.3 Sheds) iv) Open area								

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

Port	Type	Dry Storage Accommodation		Liquid Storage Tanks	
		No.	Area (Sq. mtrs.)	No.	Capacity
					Type of Cargo
Paradip	1				
	2				
	3				
	4				
Calcutta	5				
	6				
	7				
	8				
Haldia	9				
	10				
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	99				
	100				

1041200KL POL product, Crude
The above
tankage has been
created by the oil
industries and other pvt. Parties.

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

Dry Storage Accommodation					Liquid Storage Tanks		
Port	Type	No.	Area (Sq. mtrs.)	No.	Location	Capacity	Type of 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 LDO
	ii) Ware - Houses	4	8968				
	iii) Other covered area	-	2640				
	iv) Open area	-	841000				
Calcutta	i) Transit Sheds	24	156366	159	Near NS Dock Suji Bui	368703 KL	POL (product) veg. oil Other Liquid Cargo.
	ii) Ware-Houses	-	-				
	iii) Other covered area	-	-				
	iv) Open area	-	155165				
Haldia	i) Transit Sheds	2	22070			1041200KL The above tankage has been created by the oil industries and other pvt. Parties.	POL product, Crude oil , Other Liquid Cargo
	ii) Ware-Houses	-	-				
	iii) Other covered area	-	-				
	iv) Open area	-	213100				

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

Port	Type	Dry Storage Accommodation			No.	Location	Liquid Storage Tanks	
		No.	Area (Sq. mtrs.)				Capacity	Type of Cargo
1	2	3	4	5	6	7	8	
Tuticorin	i) Transit Sheds	2	10800	3	Inside Security Wall	15000 M3	Phosphoric Acid	
				1	Outside 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 & 736	2	-do-	2x70 KL	LSHF/HSD	
	iv) Open area		72000	3	-do-	1x13600 KL	Naptha	
						1x13700 KL	-do-	
						1x14100 KL	-do-	
				2	-do-	1x600 MT	LDO	
				2	-do-	1x838 MT	LDO	
				2	-do-	7790 KL	Ethylene Di -Chloride	
				1	-do-	10000 MT	LPG	
Chennai	i) Transit Sheds	8	36000	34	Bharathi Dock/	227000	Oils, Acids,	
	ii) Ware-Houses	12	65686		South Quay	Tonnes	Chemicals &	
	iii) Container freight station	2	12800				Molasses	
	iv) Covered area for FCI	6	43450					
	v) Open space	-	325000					
	vi) Container parking yard	-	130000					
Visakhapatnam	i) Transit Sheds	7	30859	13	West Ore berths	19098	Edible oils &	
	ii) Ware- Houses	3	27044		west jetty	M. Tonnes	Molasses,	
	iii) Other covered area (S.2 & S.3 Sheds)	2	8113		berths area		Caustic Soda,	
	iv) Open area	51	998796				P. Acid & Ammon	

2.1.1.4 Performance of Cargo Handling Equipments
For The Years 1995-96, 1996-97 and 1997-98

S.No.	Name Of The Port Equipments	1995-96			1996-97			1997-98		
		1	2	3	4	5	6	7	8	9
					% Avail ability	% Utili- sation	% Avail ability	% Utili- sation	% Avail ability	% Utili- sation
1.	Kandla									
	Wharf Crane				90	40	92	48	90	45
	Mobile Crane				77	-	100	-	100	-
	Forklift Truck				89	30	92	32	90	30
2.	Mumbai									
	Wharf Crane				87	24	93	30	90	30
	Mobile Crane				83	18	95	25	90	20
	Forklift Truck				88	20	90	22	88	20
3.	Mormugao									
	Wharf Crane				98	15	98	6	93	3
	Mobile Crane				97	6	98	10	96	3
	Forklift Truck				89	25	90	45	90	50
4.	N.Mangalore									
	Wharf Crane				80	2	90	-	86	-
	Mobile Crane				92	2	100	10	100	4
	Forklift Truck				53	5	90	5	90	5
5.	Cochin									
	Wharf Crane				82	13	90	15	88	10
	Mobile Crane				76	11	80	15	75	3
	Forklift Truck				73	14	80	20	75	13

**2.1.4 Performance of Cargo Handling Equipments
For The Years 1995-96, 1996-97 and 1997-98**

S.No.	Name Of The Port	Equipments	1995-96		1996-97		1997-98	
			% Avail-ability	% Utili-sation	% Avail-ability	% Utili-sation	% Avail-ability	% Utili-sation
1			4	5	6	7	8	9
6.	Tuticorin	Wharf Crane	82	21	90	30	90	20
		Mobile Crane	94	4	90	25	60	10
		Forklift Truck	98	11	95	15	96	12
7.	Chennai	Wharf Crane	82	27	89	35	88	33
		Mobile Crane	86	34	95	45	90	44
		Forklift Truck	79	31	85	32	85	30
8.	Visakhapatnam	Wharf Crane	94	45	90	36	90	35
		Mobile Crane	85	21	95	25	92	20
		Forklift Truck	79	25	79	30	76	26
9.	Paradip	Wharf Crane	95	21	80	30	80	32
		Mobile Crane	61	7	60	10	55	10
		Forklift Truck	83	7	88	15	87	10
10.	Calcutta	Wharf Crane	69	15	68	15	65	12
		Mobile Crane	48	18	58	25	40	20
		Forklift Truck	71	24	58	25	42	20
11	Haldia	Wharf Crane	..	..	-	-	-	-
		Mobile Crane	..	..	85	25	80	12
		Forklift Truck	..	..	75	20	70	20

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

2 2 1 Growth Of Cargo Traffic Handled At Major Ports

(In Million Tonnes)									
Year	Overseas					Coastal		Overseas & Coastal	
	Unloaded : Loaded		Total	Unloaded : Loaded		Total	Unloaded : Loaded : Total		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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

2.2.2 Cargo Traffic Handled At Various Major Ports

(In Million Tonnes)

Year	Kandla	Mumbai	J.L. Nehru	P. Moru-gao	O. N. Mangalore	R. Cochin	T. Tuticorin	S. Chennai	Visakhapatnam	Paradip	Calcutta/Haldia	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	-	4.87	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	11.06	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	23.94	21.12	6.18	14.69	147.57
1990-91	19.69	28.90	2.02	14.91	8.02	7.28	5.08	24.52	19.42	6.88	14.95	151.67
1991-92	21.00	26.26	2.79	15.10	8.27	7.48	5.87	25.05	21.52	7.30	16.00	156.64
1992-93	22.91	28.95	3.01	16.31	7.09	7.98	6.22	25.33	22.76	7.60	18.34	166.50
1993-94	24.50	30.51	3.38	18.72	8.63	7.62	6.70	26.54	25.59	8.33	18.50	179.02
1994-95	26.50	30.67	5.01	18.88	8.01	8.63	8.04	29.46	30.03	10.12	20.54	195.89
1995-96	30.34	33.92	6.87	18.09	8.88	11.50	9.29	30.72	32.82	11.26	21.52	215.21
1996-97	33.73	33.44	8.07	17.31	12.45	11.74	9.18	31.85	34.50	11.58	23.12	226.97

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

Year	(In '000 Tonnes)										
	POL (Crude & Products)	Ferti- liser	Fertili- ser Raw Material	Iron Ore	Coal	Food- 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	20041	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	

* Included in Fertilizers.

2.2.4 Cargo Traffic (Commodity-Wise) Handled At Kandla Port

(In '000 Tonnes)

Year	POL (Crude & Products)	Ferti- liser	Fertill- ser Raw Material	Food- 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	18148	2854
1992-93	17951	448	945	600	2966	22910	20503	2407
1993-94	18157	824	1043	629	3847	24500	20953	3547
1994-95	18898	705	1174	689	5036	26502	22651	3851
1995-96	21126	676	1102	2038	5397	30339	25873	4466
1996-97	25061	366	1335	1951	5017	33730	29267	4463

2.2.5 Cargo Traffic (Commodity-Wise) Handled At Mumbai Port									
(In '000 Tonnes)									
Year	POL (Crude & Products)	Ferti- liser	Fertili- ser Raw Material	Food- grains	Coal	Others	Total	Of which	
(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

2.2.5 (a) Cargo Traffic (Commodity-wise) Handled At J.L.Nehru Port

Year	POL (Crude & Products)	Fertl- liser	Fertill- ser Raw Material	Food- grains	Iron Ore	Others	Total	(In '000 Tonnes)	
								Of which	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Unloaded	Loaded
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	-	588	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

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

('000 Tonnes)

Year	POL (Crude & Products)	Ferti- liser	Fertili- ser Raw Material	Iron Ore	Food- 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	16095	2819	15276	
1996-97	1218	39	214	14635	-	386	820	17312	1951	15361	

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

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

('000 Tonnes)

Year	POL (Crude & Products)	Ferti- liser	Fertili- ser Raw Material	Food- grains	Coal	Iron 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	860	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	8884	1883	7001	
1996-97	5069	222	163	106	19	5945	929	12453	4479	7974	

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

Year	('000 Tonnes)									
	POL (Crude & Diesel Products)	Ferti- liser	Fertili- ser Raw Material	Food- grains	Coal		Total	Of which		
					Others	Loaded		Unloaded	Loaded	
(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	

2.2.9 Cargo Traffic (Commodity-wise) Handled At Tuticorin Port

('000 Tonnes)

Year	POL (Crude & Products)	Fertl- liser	Fertill- ser's	Food- Rawgrains	Coal	Others	Total	Of which	
			Material				Unloaded	Loaded	
(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

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

('000 Tonnes)										
Year	POL (Crude & Products)	Ferti- liser	Fertili- ser's Raw Material	Food- grains	Iron Ore	Coal	Others	Total	Of which	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	Unloaded	Loaded
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

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

Year	POL (Crude & Other Products)	Fertl- iser	Fertl- iser's Raw Material	Food- grains	Iron 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

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

Year	POL (Crude & Products)	Ferti- liser	Fertili- ser's Raw Material	Food- grains	Iron Ore	Coal	Others	Total			Of which Unloaded Loaded
								(8)	(9)	(10)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(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	

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

('000 Tonnes)

Year	POL (Crude & Products)	Ferti- liser	Fertill- ser's Raw Material	Food- grains	Iron 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

2.2.14 Cargo Traffic (Overseas/Coastal) At Various Major Ports

('000 Tonnes)

Year	P O R T S												
	Kandla	Mumbai	J.L. :Mormu- :Nehru :	N.Manga- :lore :	Cochin	Tuti- :corin :	Chennai	Visakha	Paradip	Calcutta	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	
OVERSEAS													
1980-81	7359	12632	-	13542	651	3807	1178	9608	9456	2240	7120	67593	
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	
COASTAL													
1980-81	1402	4346	-	222	312	1426	1382	767	667	1	2152	12677	
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	6074	4589	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	

(' 000 Tonnes)

-67-

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

('000 Tonnes)

Year	P O R T S												
	Kandla	Mumbai	J.L. : Mormu- : Nehru : gao	N.Manga- : lore	Cochin	Tuti- : corin	Chennai	Visakha- : patnam	Paradip	Calcutta	Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13
UNLOADED													
1980-81	8190	13200	-	-	843	639	4112	2117	6412	3999	307	6988	46816
1985-86	15175	11947	-	-	1621	996	4557	4016	11107	8941	957	8657	67974
1986-87	14854	11839	-	-	1293	1197	5600	3968	10801	7195	2001	8192	66940
1987-88	16281	13570	-	-	1381	1305	5585	3973	12598	7561	2252	8836	73342
1988-89	16439	13567	-	-	1783	1567	2541	4852	13749	10340	2777	9695	81310
1989-90	16755	13141	507	1483	1483	1294	6053	4900	14097	10410	2460	9756	80856
1990-91	17271	13719	1645	1721	1721	1363	6251	4541	15000	10322	2839	10416	85088
1991-92	18148	11506	2061	2396	2396	1298	6433	5099	15064	10431	2880	11253	86569
1992-93	20503	15232	2105	2394	2394	1530	6864	5408	16286	12774	2428	12915	98439
1993-94	20953	17438	2088	2535	2535	1245	6351	5606	16879	12930	2581	12217	100823
1994-95	22651	16162	3290	2732	2732	1640	7193	6876	19247	15837	3491	14082	113201
1995-96	25873	17320	4314	2819	2819	1883	9125	7955	20433	17611	4200	15115	126648
1996-97	29267	18370	4808	1951	1951	4479	9487	7611	21933	21214	3859	16228	139207
LOADED													
1980-81	571	3769	-	-	12921	324	1121	443	3963	6124	1934	2284	33454
1985-86	1311	12363	-	-	14494	2690	720	205	7041	6970	2374	3471	51639
1986-87	1340	13235	-	-	13626	4234	1283	162	8974	7840	2852	3880	57426
1987-88	1802	15998	-	-	11951	4803	1217	288	10221	7810	2935	4235	61260
1988-89	1368	15775	-	-	13606	5517	1283	273	10114	10032	3255	4528	65751
1989-90	2170	14605	190	12685	12685	6367	1071	424	9843	10707	3724	4933	66719
1990-91	2414	15160	377	13190	13190	6659	1024	534	9518	9099	4045	4537	66577
1991-92	2854	14755	733	12703	12703	6976	1048	769	9982	11091	4417	4747	70075
1992-93	2407	13714	902	13920	13920	5558	1114	807	9045	9991	5178	5422	68058
1993-94	3547	13058	1299	16182	16182	7385	1269	1094	9662	12665	5746	6279	78196
1994-95	3851	14511	1718	16149	16149	6365	1438	1165	10217	14192	6630	6453	82689
1995-96	4466	16596	2559	15276	15276	7001	2378	1331	10288	15206	7059	6400	88560
1996-97	4463	15069	3261	15361	15361	7974	2255	1563	9915	13284	7721	6896	87762

2.2.15 Cargo Traffic (Unloaded/Loaded) At Various Major Ports (Contd.)

('000 Tonnes)

Year	Kandla	Mumbai	J.L.	Mormu	N. Manga-	Cochin	Tutl-	Chennai	Visakh-	Paradip	Calcutta	Total
			Mohru	gao	lore		corin		patnam		/Baldia	
1	2	3	4	5	6	7	8	9	10	11	12	13
1980-81	8761	16978	-	13764	963	5233	2560	10375	10123	2241	9272	80270
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	22595	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
TOTAL												

2.2.16 Cargo Traffic Handled At Major Ports in India(Contd.)
('000 tonnes)

PORT/ YEAR	:	OVERSEAS	:	COASTAL	:	OVERSEAS & COASTAL
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
(8)	(9)	(10)				
J.L. NEHRU						
1989-90	507	190	697	-	-	-
1990-91	1645	377	2022	-	-	-
1991-92	2061	733	2794	-	-	-
1992-93	2105	902	3007	-	-	-
1993-94	2088	1299	3387	-	-	-
1994-95	3215	1718	4933	75	-	75
1995-96	4314	2559	6873	-	-	-
1996-97	4185	3261	7446	623	-	623
MORMUGAO						
1970-71	86	10652	10738	267	-	267
1975-76	216	12093	12309	459	-	459
1980-81	621	12921	13542	222	-	222
1985-86	1163	14494	15657	458	-	458
1988-89	1279	13586	14865	504	20	524
1989-90	847	12664	13511	636	21	657
1990-91	1058	13154	14212	663	36	699
1991-92	1660	12515	14175	736	188	924
1992-93	1720	13531	15251	674	389	1063
1993-94	1910	15657	17567	625	525	1150
1994-95	2024	15421	17445	708	728	1436
1995-96	2336	15146	17482	483	130	613
1996-97	1156	15260	16416	795	101	896

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

('000 tonnes)

PORT/ YEAR	OVERSEAS		COASTAL		OVERSEAS & COASTAL				
	Unloaded	:Loaded	:Total	:Unloaded	:Loaded	:Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
NEW MANGALORE									
1970-71	-	-	-	-	-	-	-	-	-
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
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

2.2.16 Cargo Traffic Handled At Major Ports in India (Contd.)
('000 tonnes)

PORT/ YEAR	OVERSEAS	COASTAL	OVERSEAS & COASTAL
: : Unloaded : Loaded : Total : Unloaded : Loaded : Total : Unloaded : Loaded : Total	: : (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	: : (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	: : (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)
TUTICORIN			
1970-71	-	-	-
1975-76	498	288	786
1980-81	1038	140	1178
1985-86	1348	160	1508
1988-89	1507	235	1742
1989-90	1523	412	1935
1990-91	1448	521	1969
1991-92	1474	751	2225
1992-93	1742	802	2544
1993-94	1258	1093	2351
1994-95	2047	1155	3202
1995-96	2788	1312	4100
1996-97	1734	1545	3279
CHENNAI			
1970-71	3559	2759	6318
1975-76	4799	2612	7411
1980-81	6226	3382	9608
1985-86	7628	5920	13548
1988-89	7305	8484	15789
1989-90	6939	8487	15426
1990-91	7313	8205	15518
1991-92	6757	8682	15439
1992-93	8197	7644	15841
1993-94	8487	8510	16997
1994-95	9451	8433	17884
1995-96	11693	9259	20952
1996-97	11603	8728	20331

2.2.16 Cargo Traffic Handled At Major Ports in India (Contd...)
('000 tonnes)

PORT/ YEAR	OVERSEAS		COASTAL		OVERSEAS & COASTAL				
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
VISAKHAPATNAM									
1970-71	2222	6124	8346	103	284	387	2325	6408	8733
1975-76	2814	5600	8414	62	72	134	2876	5672	8548
1980-81	3471	5985	9456	528	139	667	3999	6124	10123
1985-86	4862	6189	11051	4079	781	4860	8941	6970	15911
1988-89	7032	7851	14883	3308	2181	5489	10340	10032	20372
1989-90	7182	7745	14927	3228	2962	6190	10410	10707	21117
1990-91	7925	5895	13820	2397	3204	5601	10322	9099	19421
1991-92	8597	6237	14834	1834	4854	6688	10431	11091	21522
1992-93	11990	5607	17597	784	4384	5168	12774	9991	22765
1993-94	11508	7047	18555	1422	5618	7040	12930	12665	25595
1994-95	13220	6936	20156	2617	7256	9873	15837	14192	30029
1995-96	14094	7155	21249	3517	8051	11568	17611	15206	32817
1996-97	15807	7243	23050	5407	6041	11448	21214	13284	34498
PARADIP									
1970-71	-	2156	2156	1	-	1	1	2156	2157
1975-76	188	3127	3315	1	10	11	189	3137	3326
1980-81	306	1934	2240	1	-	1	307	1934	2241
1985-86	957	2092	3049	-	282	282	957	2374	3331
1988-89	2777	2275	5052	-	980	980	2777	3255	6032
1989-90	2460	2432	4892	-	1292	1292	2460	3724	6184
1990-91	2839	2101	4940	-	1944	1944	2839	4045	6884
1991-92	2880	2048	4928	-	2369	2369	2880	4417	7297
1992-93	2428	1792	4220	-	3386	3386	2428	5178	7606
1993-94	2577	2064	4641	-	3682	3686	2581	5746	8327
1994-95	3338	2440	5778	4	4190	4343	3491	6630	10121
1995-96	4135	2200	6335	153	4859	4924	4200	7059	11259
1996-97	3733	1818	5551	126	5903	6029	3859	7721	11580

2.2.16 Cargo Traffic Handled At Major Ports in India(Contd.)
('000 tonnes)

PORT/ YEAR	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
CALCUTTA/HALDIA									
1970-71	1872	2443	4315	1375	275	1650	3247	2718	5965
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
ALL PORTS									
1970-71	21495	26582	48077	4062	3440	7502	25557	30022	55579
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	49518	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

2.2.17 Overseas Traffic (Principal Commodities) Handled At Major Ports

PORT/ YEAR	('000 tonnes)									
	1994-95	1995-96	1996-97							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	:Unloaded :Loaded		:Total :Unloaded		:Loaded :Total		:Unloaded :Loaded		:Total	
KANDLA	18771	3051	21822	21626	4356	25982	24360	4331	28691	
POL- Crude	9236	-	9236	8590	-	8590	8524	-	8524	
POL- Products	4967	614	5581	7748	456	8204	11654	27	11681	
Fertilizer	705	-	705	676	-	676	366	-	366	
Fertilizer'Raw										
Material (Dry)	452	-	452	399	-	399	651	-	651	
Fertilizer'Raw										
Material (liquid)	722	-	722	703	-	703	684	-	684	
Foodgrains	6	683	689	13	2025	2038	42	1909	1951	
Iron & Steel	234	3	237	216	5	221	205	44	249	
Iron Scrap	388	-	388	278	-	278	395	-	395	
Sugar	280	-	280	-	-	-	-	64	64	
Veg. Oil &										
Animal fats	96	130	226	215	235	450	194	122	316	
Salt	-	195	195	-	193	193	-	118	118	
Other Commodities	1685	1426	3111	2788	1442	4230	1645	2047	3692	

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

PORT/ YEAR	('000 tonnes)									
	1	1994-95	1	1995-96	1	1996-97				
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	
(1)	2	3	4	5	6	7	8	9	10	
MUMBAI	16030	4575	20605	16990	5722	22712	17790	6129	23919	
POL Crude	4918	80	4998	4505	-	4505	5877	-	5877	
POL- Products	2897	953	3850	4777	734	5511	3807	740	4547	
Fertilizer	70	-	70	105	-	105	79	-	79	
Fertilizers' Raw	892	-	892	735	-	735	628	-	628	
Material (Dry)	-	-	-	-	-	-	-	-	-	
Fertilizers' Raw	-	-	-	-	-	-	-	-	-	
Material (Liquid)	-	-	-	-	-	-	-	-	-	
Foodgrains	438	178	616	446	763	1209	582	445	1027	
Iron & Steel	1823	111	1934	1736	190	1926	1466	241	1707	
Veg. Oil & animal	194	40	234	574	76	650	725	85	810	
fats	-	-	-	-	-	-	-	-	-	
Iron Scrap	182	-	182	173	-	173	183	-	183	
Cement	4	-	4	-	-	-	-	-	-	
Sugar	398	25	423	45	41	86	4	127	131	
Other Commodities	4214	3188	7402	3894	3918	7812	4439	4491	8930	

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

PORT/ YEAR	('000 tonnes)									
	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
	Unloaded : Loaded	Total : Unloaded	Total : Loaded	Total : Unloaded	Total : Loaded	Total : Unloaded	Total : Loaded	Total : Unloaded	Total : Loaded	Total : Loaded
(1)	2	3	4	5	6	7	8	9	10	
JAWAHARLAL NEHRU	3215	1718	4933	4314	2559	6873	4185	3261	7446	
POL-Product	...	...	...	139	-	139	252	-	252	
Fertiliser	1187	-	1187	1716	-	1716	984	-	984	
Fert. Raw										
Material (Dry)	125	-	125	179	-	179	302	-	302	
Fert.Raw										
Material (Liquid)	-	-	-	-	-	-	61	-	61	
Iron Ore	...	...	...	416	232	648	199	137	336	
Foodgrains	-	-	-	-	68	68	232	148	380	
Other Commodities	1903	1718	3621	1864	2259	4123	2155	2976	5131	
MORMUGAO	2024	15421	17445	2336	15146	17482	1156	15260	16416	
POL-Product	1292	-	1292	1456	-	1456	463	-	463	
Fertilizer	70	-	70	56	-	56	39	-	39	
Fertilizer Raw										
Material (Dry)	-	-	-	-	-	-	-	-	-	
Fertilizer Raw										
Material (Liquid)	191	-	191	174	-	174	214	-	214	
Foodgrains	-	-	-	-	-	-	-	-	-	
Coal/Coke	366	14	380	556	8	564	359	25	384	
Iron Ore	-	14980	14980	-	14805	14805	-	14550	14550	
Other Ore	-	281	281	-	150	150	-	204	204	
Other Commodities	105	146	251	94	183	277	81	481	562	

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

PORT/ YEAR	('000 tonnes)									
	1 1994-95	2 1995-96	3 1996-97	4 1997-98	5 1998-99	6 1999-00	7 2000-01	8 2001-02	9 2002-03	10 2003-04
	Unloaded	: Loaded	: Total	Unloaded	: Loaded	: Total	Unloaded	: Loaded	: Total	
(1)	2	3	4	5	6	7	8	9	10	
NEW MANGALORE	958	5979	6937	1077	6528	7605	4202	5895	10097	
POL-Crude	-	-	-	161	-	161	2927	-	2927	
POL-Products	102	-	102	21	-	21	267	21	288	
Fertilizer	87	-	87	205	-	205	222	-	222	
Fertilizer Raw	42	-	42	16	-	16	29	-	29	
Material (Dry)	120	-	120	99	-	99	134	-	134	
Material (Liquid)	-	-	-	-	-	-	106	-	106	
Foodgrains	27	-	27	-	-	-	22	-	22	
Iron scrap	-	-	-	41	-	41	19	-	19	
Coal	-	-	-	-	-	-	-	-	-	
Iron Ore & Pellets	-	5694	5694	-	6168	6168	-	5484	5484	
Other Ore	-	16	16	-	35	35	-	-	-	
Coffee	-	1	1	-	-	-	-	-	-	
Other Commodities	580	268	848	534	325	859	476	390	866	

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

PORT/ YEAR	('000 tonnes)									
	1994-95	1995-96	1996-97							
	2	3	4	5	6	7	8	9	10	
(1)										
COCHIN										
POL- Crude	2947	914	3861	3522	1184	4706	4497	1190	5687	
POL- Products	1184	-	1184	2052	-	2052	2532	-	2532	
Fertilizer	394	322	716	97	515	612	294	388	682	
Fertilizer'Raw-	95	-	95	194	-	194	194	-	194	
Material (Dry)	409	-	409	341	-	341	344	-	344	
Fertilizer'Raw-	407	-	407	462	-	462	442	-	442	
Material (Liq.)	-	-	-	4	5	9	27	5	32	
Foodgrains	-	-	-	21	4	25	58	4	62	
Iron & Steel	-	-	-	-	-	-	-	-	-	
Veg. Oil & animal	-	-	-	-	-	-	-	-	-	
fats	-	58	58	-	72	72	-	76	76	
Tea	-	86	86	-	112	112	-	122	122	
Coffee	-	-	-	-	-	-	119	-	119	
Coal	-	-	-	-	-	-	-	-	-	
Cashewnuts/Cashew	5	39	44	10	37	47	58	46	104	
Kernels	453	409	862	341	439	780	429	549	978	
Other Commodities										

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

PORT/ YEAR	('000 tonnes)									
	1	1994-95	1	1995-96	1	1996-97				
	: Unloaded		: Loaded		: Total		: Unloaded		: Loaded	
(1)	2	3	4	5	6	7	8	9	10	
TUTICORIN										
POL. Product	2047	1155	3202	2788	1312	4100	1734	1545	3279	
Fertilizer	-	-	-	-	-	-	48	-	48	
Fertilizer 'Raw	221	-	221	412	-	412	259	-	259	
Material (Dry)	335	-	335	241	-	241	256	-	256	
Fertilizer 'Raw	128	-	128	135	-	135	108	-	108	
Material (Liquid)	-	-	-	1	-	1	49	-	49	
Iron Scrap	110	-	110	914	-	914	72	-	72	
Coal	-	26	26	-	17	17	-	20	20	
Tea/Coffee	-	135	135	-	18	18	-	109	109	
Salt	-	-	-	-	16	16	84	47	131	
Foodgrains	1253	994	2247	1085	1261	2346	858	1369	2227	
Other Commodities										

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

PORT/ YEAR	('000 tonnes)									
	1994-95		1995-96							
	Unloaded : Loaded	Total : Unloaded	Unloaded : Loaded	Total : Unloaded	Total : Loaded	Total : Unloaded	Total : Loaded	Total : Unloaded	Total : Loaded	Total
(1)	2	3	4	5	6	7	8	9	10	
CHENNAI										
POL- Crude	9451	8433	17884	11693	9259	20952	11603	8728	20331	
POL- Products	5350	503	5853	5770	860	6630	5908	510	6418	
Fertilizer	34	573	607	26	465	491	42	505	547	
Fertilizers'Raw	834	-	834	963	-	963	520	-	520	
Materials (Dry)	403	-	403	374	-	374	343	-	343	
Fertilizers'Raw	-	-	-	-	-	-	-	-	-	
Materials (Liquid)	-	2	2	8	17	25	27	73	100	
Foodgrains	280	58	338	295	71	366	332	97	429	
Iron & Steel										
Veg. Oil & animal fats	43	-	43	146	-	146	330	-	330	
Iron Ore	-	5149	5149	-	4951	4951	-	4665	4665	
Chemicals	347	121	468	175	89	264	431	100	531	
Iron Scrap	593	22	615	463	-	463	450	-	450	
Coal	246	-	246	1896	-	1896	1911	-	1911	
Coke	298	-	298	388	-	388	332	-	332	
Other Commodities	1023	2005	3028	1189	2806	3995	977	2778	3755	

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

PORT/ YEAR	('000 tonnes)									
	1	1994-95		1	1995-96		1	1996-97		
	Unloaded	: Loaded	: Total	Unloaded	: Loaded	: Total	Unloaded	: Loaded	: Total	
(1)	2	3	4	5	6	7	8	9	10	
VISAKHAPATNAM	13220	6936	20156	14094	7155	21249	15807	7243	23050	
POL- Crude	4769	-	4769	3816	-	3816	4479	-	4479	
POL- Products	536	303	839	1720	424	2144	3186	411	3597	
Fertilizers	790	-	790	1104	-	1104	489	-	489	
Fertilizer Raw										
Materials (Dry)	906	-	906	845	-	845	789	-	789	
Fertilizer Raw										
Materials (Liquid)	431	-	431	390	-	390	345	-	345	
Foodgrains	-	3	3	-	353	353	206	199	405	
Iron & Steel	32	752	784	78	824	902	24	1314	1338	
Coal	4873	-	4873	5099	-	5099	5196	-	5196	
Coke	47	-	47	60	-	60	151	-	151	
Iron Ore	-	4230	4230	-	3954	3954	-	3988	3988	
Chemicals	93	-	93	99	-	99	99	-	99	
Iron scrap	51	-	51	24	-	24	-	-	-	
Veg. Oil & animal										
fats	30	-	30	137	-	137	247	-	247	
Other Commodities	662	1648	2310	722	1600	2322	596	1331	1927	

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

PORT/ YEAR	('000 tonnes)									
	1	2	3	4	5	6	7	8	9	10
	1994-95	1994-95	1994-95	1994-95	1994-95	1994-95	1994-95	1994-95	1994-95	1994-95
	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded
(1)	2	3	4	5	6	7	8	9	10	
PARADIP	3338	2440	5778	4135	2200	6335	3733	1818	5551	
POL-Product	...	...	...	623	-	623	932	-	932	
Fertilizers	125	-	125	134	-	134	102	-	102	
Fertilizer Raw	82	-	82	366	-	366	172	-	172	
Materials (Dry)	609	-	609	590	-	590	527	-	527	
Fertilizer Raw	-	-	-	-	20	20	-	26	26	
Materials (Liquid)	-	6	6	-	-	-	-	-	-	
Foodgrains	1484	-	1484	1677	-	1677	1507	-	1507	
Iron & Steel	228	-	228	-	-	-	-	-	-	
Coal	-	1881	1881	-	1665	1665	-	1119	1119	
Coke	-	5	5	-	-	-	-	-	-	
Iron Ore	810	548	1358	745	515	1260	493	673	1166	
Iron scrap										
Other Commodities										

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

PORT/ YEAR	('000 tonnes)									
	1 1994-95	2 1995-96	3 1996-97	4 1997-98	5 1998-99	6 1999-00	7 2000-01	8 2001-02	9 2002-03	10 2003-04
	Unloaded	: Loaded	: Total	Unloaded	: Loaded	: Total	Unloaded	: Loaded	: Total	
(1)	2	3	4	5	6	7	8	9	10	
CALCUTTA	2062	1364	3426	1757	1565	3322	1773	1532	3305	
POL- Crude	-	-	-	-	-	-	-	-	-	
POL- Products	63	-	63	83	-	83	58	-	58	
Fertilizer	98	-	98	119	-	119	42	-	42	
Fertilizer Raw										
Material (Dry)	45	-	45	88	-	88	50	-	50	
Fertilizer Raw										
Material (Liquid)	-	-	-	-	-	-	-	-	-	
Foodgrains	-	-	-	20	63	83	-	8	8	
Iron & Steel	208	279	487	148	301	449	191	303	494	
Veg. Oil & animal fats	102	-	102	147	-	147	176	-	176	
Cement	-	-	-	-	-	-	-	-	-	
Chemicals	66	-	66	68	-	68	101	7	108	
Tea	-	89	89	-	69	69	-	73	73	
Coal	-	-	-	-	-	-	-	-	-	
Sugar	325	-	325	20	12	32	-	-	-	
Jute & Its products	-	201	201	-	132	132	-	226	226	
Other Commodities	1155	795	1950	1064	988	2052	1155	915	2070	

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

PORT/ YEAR	('000 tonnes)									
	1994-95	1995-96	1996-97							
	2	3	4	5	6	7	8	9	10	
(1)										
HALDIA	9538	191	9729	10526	257	10783	11732	374	12106	
POL- Crude	3277	-	3277	3604	-	3604	3713	-	3713	
POL- Products	3002	-	3002	3131	-	3131	3421	-	3421	
Fertilizer	52	-	52	43	-	43	31	-	31	
Fertilizer Raw										
Materials (Dry)	179	-	179	276	-	276	240	-	240	
Fertilizer Raw										
Materials (Liquid)	189	-	189	215	-	215	269	-	269	
Foodgrains	-	25	25	1	23	24	-	9	9	
Iron & Steel	14	107	121	5	170	175	3	189	192	
Iron scrap (Pig	-	-	-	-	-	-	8	-	8	
Iron)										
Coking coal & coke	2285	-	2285	2800	5	2805	3498	21	3519	
Cement	-	-	-	-	-	-	-	-	-	
Tea	-	30	30	-	32	32	-	37	37	
Other Commodities	540	29	569	451	27	478	549	118	667	

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

PORT/ YEAR	('000 tonnes)									
	1	1994-95	1	1995-96	1	1996-97				
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	
(1)	2	3	4	5	6	7	8	9	10	
ALL MAJOR PORTS	83601	52177	135778	94858	57243	152101	102572	57306	159878	
POL- Crude	28734	583	29317	28637	860	29497	33960	510	34470	
POL- Products	13287	2765	16052	19682	2594	22276	24424	2092	26516	
Fertilizer	4334	-	4334	5727	-	5727	3327	-	3327	
Fertilizers 'Raw										
Material (Dry)	3870	-	3870	3860	-	3860	3804	-	3804	
Fertilizers 'Raw										
Material (Liquid)	2797	-	2797	2768	-	2768	2784	-	2784	
Foodgrains	444	891	1335	492	3353	3845	1306	2869	4175	
Iron & Steel	2591	1316	3907	2499	1565	4064	2279	2192	4471	
Coal	9364	14	9378	12983	13	12996	12681	46	12727	
Coke	573	-	573	448	-	448	483	-	483	
Iron Ore	-	31934	31934	416	31775	32191	199	29943	30142	
Other Commodities	17607	14674	32281	17346	17083	34429	17325	19654	36979	

2.2.18 Coastal Traffic (Principal Commodities) Handled At Major Ports

('000 tonnes)

PORT/ COMMODITY										
	1994-95		1995-96		1996-97					
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
1	2	3	4	5	6	7	8	9	10	
KANDLA										
POL-Crude	3880	800	4680	4247	110	4357	4907	132	5039	
POL-Products	3195	-	3195	3917	-	3917	3893	-	3893	
Foodgrains	682	204	886	325	90	415	925	38	963	
Veg. Oil & Animal fats	-	-	-	-	-	-	-	-	-	
Other Commodities	-	596	599	5	20	25	89	94	183	
MUMBAI										
POL-Crude	132	9936	10068	330	10874	11204	580	8940	9520	
POL-Products	-	8895	8895	49	9994	10043	50	8115	8165	
Foodgrains	89	1001	1090	199	880	1079	498	821	1319	
Cement	-	-	-	-	-	-	-	-	-	
Salt	21	-	21	43	-	43	14	-	14	
Iron & Steel	13	-	13	32	-	32	14	-	14	
Veg. Oil & Animal fats	-	-	-	2	-	2	-	-	-	
Other commodities	-	40	49	5	-	5	-	4	8	
J.I. NEHRU										
Iron Ore	75	-	75	-	-	-	623	-	623	
Other Commodities	-	-	-	-	-	-	350	-	350	
	75	-	75	-	-	-	273	-	273	

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

PORT/ COMMODITY	('000 tonnes)									
	1994-95		1995-96		1996-97					
	: Unloaded	: Loaded	: Unloaded	: Loaded	: Unloaded	: Loaded	: Total	: Total	: Total	: Total
1	2	3	4	5	6	7	8	9	10	
MORMUGAO	708	728	1436	483	130	613	795	101	896	
POL- Products	646	-	646	455	-	455	755	-	755	
Iron Ore	30	683	713	-	118	118	-	85	85	
Coal/Coke	-	33	33	-	1	1	-	2	2	
Others	32	12	44	28	11	39	40	14	54	
NEW MANGALORE	682	386	1068	806	473	1279	277	2079	2356	
POL- Products	640	-	640	773	2	775	236	1618	1854	
Iron Ore/Pallets	-	386	386	-	471	471	-	461	461	
Other commodities	42	-	42	33	-	33	41	-	41	
COCHIN	4246	524	4770	5603	1194	6797	4990	1065	6055	
POL- Crude	4020	-	4020	5526	-	5526	4787	-	4787	
POL- Products	197	518	715	37	1189	1226	179	1038	1217	
Other commodities	29	6	35	40	5	45	24	27	51	

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

PORT/ COMMODITY	('000 tonnes)									
	1994-95	1995-96	1996-97							
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
1	2	3	4	5	6	7	8	9	10	
TUTICORIN	4829	10	4839	5167	19	5186	5877	18	5895	
POL- Products	417	-	417	434	-	434	418	-	418	
Foodgrains	-	-	-	-	-	-	-	-	-	
Coal	4385	-	4385	4706	-	4706	5421	-	5421	
Other commodities	27	10	37	27	19	46	38	18	56	
CHENNAI	9796	1784	11580	8740	1029	9769	10330	1187	11517	
POL- Crude	3793	-	3793	3356	-	3356	3692	-	3692	
POL- Products	22	1667	1689	10	932	942	5	1100	1105	
Veg. Oil & Animal	-	-	-	3	-	3	1	-	1	
fats	-	-	-	5246	-	5246	6553	-	6553	
Coal	5904	-	5904	-	7	7	-	7	7	
Foodgrains	-	8	8	-	90	215	79	80	159	
Other commodities	77	109	186	125						

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

('000 tonnes)

PORT/ COMMODITY	1994-95			1995-96			1996-97		
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
1	2	3	4	5	6	7	8	9	10
VISAKHAPATNAM	2617	7256	9873	3517	8051	11568	5407	6041	11448
POL- crude	2462	1416	3878	3109	3207	6316	4530	-	4530
POL- Products	134	1617	1751	299	-	299	614	202	816
Coal	-	2851	2851	-	3044	3044	-	3710	3710
Chemicals	20	-	20	10	-	10	14	-	14
Iron Ore	-	1321	1321	32	1724	1756	207	1753	1960
Other commodity	1	51	52	67	76	143	42	376	418
PARADIP	153	4190	4343	65	4859	4924	126	5903	6029
POL-Product	...	...	...	65	378	443	126	635	761
Coal	-	4118	4118	-	4232	4232	-	5006	5006
Iron ore	-	-	-	-	26	26	-	262	262
Others	153	72	225	-	223	223	-	-	-
CALCUTTA	2044	334	2378	2493	309	2802	2462	256	2718
POL- Crude	-	-	-	-	-	-	-	-	-
POL- Products	1925	52	1977	2414	27	2441	2400	30	2430
Foodgrains	-	-	-	-	-	-	-	-	-
Iron & Steel	-	11	11	4	-	4	-	-	-
Coal	-	-	-	-	-	-	-	-	-
Other commodity	119	271	390	75	282	357	62	226	288

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

PORT/ COMMODITY	('000 tonnes)									
	1994-95		1995-96		1996-97		1996-97		1996-97	
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Total
1	2	3	4	5	6	7	8	9	10	
TUTICORIN	4829	10	4839	5167	19	5186	5877	18	5895	
POL- Products	417	-	417	434	-	434	418	-	418	
Foodgrains	-	-	-	-	-	-	-	-	-	
Coal	4385	-	4385	4706	-	4706	5421	-	5421	
Other commodities	27	10	37	27	19	46	38	18	56	
CHENNAI	9796	1784	11580	8740	1029	9769	10330	1187	11517	
POL- Crude	3793	-	3793	3356	-	3356	3692	-	3692	
POL- Products	22	1667	1689	10	932	942	5	1100	1105	
Veg. Oil & Animal	-	-	-	3	-	3	1	-	1	
fats	-	-	-	5246	-	5246	6553	-	6553	
Coal	5904	-	5904	-	7	7	-	7	7	
Foodgrains	-	8	8	-	90	215	79	80	159	
Other commodities	77	109	186	125						

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

PORT/ COMMODITY	('000 tonnes)									
	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
	Unloaded : Loaded : Total	Unloaded : Loaded : Total	Unloaded : Loaded : Total	Unloaded : Loaded : Total	Unloaded : Loaded : Total	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	
VISAKHAPATNAM	2617	7256	9873	3517	8051	11568	5407	6041	11448	
POL- crude	2462	1416	3878	3109	3207	6316	4530	-	4530	
POL- Products	134	1617	1751	299	-	299	614	202	816	
Coal	-	2851	2851	-	3044	3044	-	3710	3710	
Chemicals	20	-	20	10	-	10	14	-	14	
Iron Ore	-	1321	1321	32	1724	1756	207	1753	1960	
Other commodity	1	51	52	67	76	143	42	376	418	
PARADIP	153	4190	4343	65	4859	4924	126	5903	6029	
POL-Product	...	...	...	65	378	443	126	635	761	
Coal	-	4118	4118	-	4232	4232	-	5006	5006	
Iron ore	-	-	-	-	26	26	-	262	262	
Others	153	72	225	-	223	223	-	-	-	
CALCUTTA	2044	334	2378	2493	309	2802	2462	256	2718	
POL- Crude	-	-	-	-	-	-	-	-	-	
POL- Products	1925	52	1977	2414	27	2441	2400	30	2430	
Foodgrains	-	-	-	-	-	-	-	-	-	
Iron & Steel	-	11	11	4	-	4	-	-	-	
Coal	-	-	-	-	-	-	-	-	-	
Other commodity	119	271	390	75	282	357	62	226	288	

2.2.18 Coastal Traffic (Principal Commodities) Handled at Major Ports(Contd..)

PORT/ COMMODITY	('000 tonnes)									
	1994-95		1995-96		1996-97					
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
1	2	3	4	5	6	7	8	9	10	
HALDIA	438	4564	5002	339	4269	4608	261	4734	4995	
POL- Crude	-	-	-	-	-	-	-	-	-	
POL- Products	431	981	1412	335	1148	1483	255	1104	1359	
Coal	-	3556	3556	-	3117	3117	-	3628	3628	
Other commodities	7	27	34	4	4	8	6	2	8	
ALL MAJOR PORTS	29600	30512	60112	31790	31317	63107	36635	30456	67091	
POL- Crude	13470	10310	23780	15957	9994	25951	16952	8115	25067	
POL- Products	5183	6041	11224	5346	7853	13199	6411	6586	12997	
Foodgrains	-	8	8	-	7	7	-	7	7	
Coal	10289	10558	20847	9952	10394	20346	11974	12346	24320	
Iron & Steel	-	11	11	6	-	6	-	-	-	
Iron Ore	30	2390	2420	32	2339	2371	557	2561	3118	
Other commodities	628	1194	1822	497	730	1227	741	841	1582	

2.2.19 Overseas Traffic (Imports - 1996-97) By Country of Origin (Portwise-Commoditywise)

Country of Origin/ Commodities	Kandla	(In '000 Tonnes)													
		Mumbai	J. L.	Morwa	N. Mangla	Cochin	Tutl.	Chennai	Vizakha	Paradip	Calcutta	Halda	Total		
ALL COMMODITIES	2	3	4	5	6	7	8	9	10	11	12	13	14		
U.A.E.	24360	17790	4185	1156	4202	4497	1734	11603	15807	3773	1773	11732	102572		
Kuwait	3440	741	22	115	552	-	425	-	572	318	-	-	6185		
S. Arabia	6538	1136	71	103	366	-	-	-	22	146	-	-	8382		
Iran	1387	4252	175	61	271	-	-	-	756	408	-	-	7310		
Iraq	253	461	-	-	1259	-	-	-	18	-	-	-	1991		
Qatar	-	-	-	-	-	-	-	-	-	-	-	-	-		
Russia	37	20	24	-	16	-	-	-	129	-	-	-	226		
U.S.A.	94	425	4	10	1	-	70	-	69	-	-	-	673		
Belrain	359	687	292	43	30	-	-	391	382	30	214	1127	3636		
Jordan	2313	575	228	144	64	-	-	-	163	27	-	-	3514		
Senegal	65	110	197	39	80	-	202	-	28	-	-	-	721		
Korea	510	-	-	-	-	-	-	-	133	-	-	-	643		
Netherland Holland	143	195	4	-	18	-	-	-	169	-	-	-	529		
Italy	1003	111	5	19	-	-	-	-	95	44	-	-	1258		
Singapore	149	152	-	60	17	-	60	-	8	5	-	-	333		
Malaysia	209	178	11	-	38	-	144	-	110	345	-	-	990		
France	295	436	-	-	3	-	5	-	32	38	-	-	1493		
Canada	75	291	26	-	20	-	11	-	4	-	-	-	470		
Japan	30	210	20	-	7	-	-	69	124	86	70	-	412		
Brazil	353	340	4	-	-	-	7	190	-	-	-	-	1195		
Germany	62	98	-	-	-	-	-	-	-	-	-	-	167		
U.K.	99	502	23	-	-	-	-	145	36	-	3	-	872		
Australia/N. Zealand	330	367	19	-	-	-	11	-	31	-	23	-	793		
Other European Countries	55	218	186	63	-	-	43	-	5246	1507	25	-	10878		
Other Asian Countries	187	411	10	-	-	-	195	766	61	83	173	16	1808		
Other African Countries	2735	820	608	437	106	-	93	1434	1749	192	1034	6391	18552		
Others	3619	233	82	35	1001	1181	1246	226	271	271	18	10	8015		
	29	4821	2174	27	247	45	321	7262	5064	233	213	1000	21536		

2.2.19 Overseas Traffic (Imports - 1996-97) By Country Of Origin (Portwise-Commoditywise) (Contd.)

Country of Origin/ Commodities	(In '000 Tonnes)														Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
POL CRUDE & PRODUCTS															
U.A.E.	2979	20178	9684	252	463	3194	2826	48	5950	7665	932	58	7134	58384	
Kuwait	6262		506	-	115	490	-	5	-	117	40	-	-	4252	
S.Arabia	1214		111	63	70	358	-	-	-	-	89	-	-	7953	
Iran	25		4072	116	49	173	-	-	-	580	326	-	-	6530	
Iraq	-		146	-	-	129	-	-	-	-	-	-	-	1400	
Qatar	10		15	-	-	-	-	-	-	-	-	-	-	-	
Singapore	174		109	-	20	-	-	4	-	84	276	-	-	25	
Malaysia	-		2	-	-	-	-	5	-	433	-	-	-	667	
Russia	82		46	-	10	-	-	-	-	1	-	-	-	440	
Bahrain	2267		516	29	144	64	-	-	-	153	27	-	-	3200	
Yemen	23		-	-	11	-	-	-	-	-	-	-	-	34	
U.S.A.	29		54	-	8	-	-	-	-	5	-	-	905	1001	
Panama	-		-	-	-	-	-	-	14	-	-	-	-	14	
Oman	-		240	-	-	-	-	-	-	-	-	-	-	240	
Other European Countries	1137		314	27	19	3	-	-	323	153	125	33	-	2134	
Other Asian Countries	253		62	2	-	3	2090	18	256	175	34	25	5294	8212	
Others	5723		2491	15	17	074	736	16	5357	5964	15	-	935	22143	

(In '000 Tonnes)

-95-

2.2.19 Overseas Traffic (Imports - 1996-97) By Country Of Origin (Portwise-Commoditywise) (Contd.)

Country of Origin/ Commodities	(In '000 Tonnes)													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Kandla	Mumbai	J.L.	Norma	N.Manga	Cochin	Tutl	Chennai	Vishalva	Paradip	Calcutta	Haidera	Total
				Nehru	gao	lore	cochin			patnam				
DOGBAINS		42	582	232	-	106	27	84	27	206	-	-	-	1306
Australia & New Zealand		37	94	186	-	106	26	84	-	-	-	-	-	533
S.A.		-	7	-	-	-	-	-	-	-	-	-	-	7
Canada		-	59	-	-	-	-	-	-	-	-	-	-	59
Lebanon		-	-	-	-	-	-	-	-	-	-	-	-	-
Belgium		-	2	-	-	-	-	-	-	-	-	-	-	2
Yemen		-	-	-	-	-	-	-	-	-	-	-	-	-
China		-	7	-	-	-	-	-	-	-	-	-	-	7
Uganda		-	1	-	-	-	-	-	-	-	-	-	-	1
Kenya		-	27	-	-	-	-	-	-	-	-	-	-	27
Others		5	385	46	-	-	1	-	27	206	-	-	-	670

2.2.19 Overseas Traffic (Imports - 1996-97) By Country of Origin (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Origin/ Commodities	Kandla :	Mumbai :	J.L. :Netru	Mormu: gao	N.Manga- lore	Cochin :	Tutic- cordin	Chennai :	Vizakha :patnam	Paradiip :	Calcutta :	Haldia :	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COAL	-	-	-	-	359	19	119	72	2243	5347	1507	-	3498	13164
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S.S.R.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-	-	89	-	-	89
Indonesia	-	-	-	-	12	-	-	-	-	-	38	-	-	38
Australia	-	-	-	-	63	-	38	26	-	-	1418	-	3188	9871
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	284	19	81	46	2243	183	-	-	310	3166
WFOOD	-	-	221	-	-	20	-	187	7	-	-	47	-	482
U.S.A.	-	-	68	-	-	-	-	-	-	-	-	-	-	68
U.S.S.R.	-	-	9	-	-	-	-	-	-	-	-	-	-	9
Germany	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Canada	-	-	25	-	-	20	-	-	-	-	-	-	-	45
Malaysia	-	-	-	-	-	-	-	100	-	-	-	-	-	100
Burma	-	-	-	-	-	-	-	5	-	-	-	13	-	18
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Zealand	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Singapore	-	-	-	-	-	-	-	29	-	-	-	-	-	29
Other European Countries	-	-	13	-	-	-	-	-	-	-	-	-	-	13
Other Asian Countries	-	-	52	-	-	-	-	-	-	-	-	-	-	52
Other African Countries	-	-	13	-	-	-	-	33	-	-	-	-	-	46
Others	-	-	38	-	-	-	-	20	7	-	-	34	-	99

2.2.19 Overseas Traffic (Imports - 1996-97) By Country Of Origin (Portwise-Commoditywise) (Contd.)

[illegible]

2.2.20 Overseas Traffic (Exports - 1996-97) 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	4331	6129	3261	15260	5895	1190	1545	8728	7243	1818	1532	374	57306	
U.S.A.	28	207	-	1	-	126	18	409	240	-	296	19	1334	
Russia	256	31	1	125	26	-	16	-	233	-	-	-	688	
U.K.	17	123	5	1	11	25	13	-	43	2	130	-	360	
Holland	127	200	97	667	74	-	51	-	106	-	-	-	1322	
France	54	48	19	313	5	-	8	-	15	-	-	-	462	
Japan	98	135	-	8660	1508	50	53	2196	3983	626	46	-	17355	
Germany	-	39	-	55	18	41	55	89	-	-	-	-	297	
Australia/N.Zealand	28	62	-	-	242	10	19	-	-	-	22	-	383	
Italy	63	63	13	684	128	-	244	-	60	-	-	-	1255	
Romania	15	1	-	905	-	-	-	-	-	-	-	-	921	
Belgium	-	13	-	242	25	-	64	-	52	-	-	-	396	
Canada	-	15	-	-	-	8	7	25	-	-	-	-	55	
Iran	26	56	26	11	1777	-	-	-	185	-	-	-	1981	
Iraq	-	-	-	-	-	-	-	-	-	-	-	-	-	
Singapore	314	526	20	95	22	-	31	-	376	-	-	-	1304	
Indonesia	45	177	81	29	132	-	56	-	414	-	-	-	934	
Turkey	107	43	22	114	226	-	7	-	9	-	-	-	528	
Korea (S)	175	89	34	1079	-	-	57	-	166	10	-	-	1610	
Korea (N)	-	4	-	-	-	-	-	-	-	-	-	-	4	
Taiwan	58	76	-	116	587	-	30	-	65	-	-	-	932	
S. Arabia	683	165	-	17	2	-	-	-	7	-	-	-	874	
Pakistan	-	49	-	203	-	-	55	-	7	107	-	-	421	
Hungary	-	1	-	-	-	-	-	-	-	-	-	-	1	
Qatar	20	11	-	-	-	-	-	-	-	-	-	-	31	
Czechoslovakia	-	-	-	-	-	-	-	-	-	-	-	-	-	
U.A.E.	657	-	-	83	4	-	58	-	34	-	-	-	836	
Jordan	10	69	22	18	-	-	-	-	1	-	-	-	120	

2.2.20 Overseas Traffic (Exports - 1996-97) 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
ALL COMMODITIES (Contd.)														
Kuwait	48		77											125
Behrain	20		26											46
China	48		119	22	1668	1093		4		582	1010			4546
Malaysia	92		191		1			91		146				521
Bangladesh	21		67				3	47		52	27	29		246
Philippines	58		68	15				87						228
Yugoslavia														
Dubai	2		523											525
Spain			16	12	60			23		100				211
Other European Countries	67		142				195	12	809	139		152	98	1614
Other American Countries			45		19		2		3	27		26		122
Other African Countries	379		368	5	6		17		87			71		933
Other Asian Countries	430		587	49	86	15	635	378	1035	282	13	585	220	4315
Others	385		1697	2818	2		78	61	4075	29	24	185	31	9490

2.2.20 Overseas Traffic (Exports - 1996-97) By Country Of Destination (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Destination/Commodities	Kandla	Mumbai	J.L.	Mormu	N.Manga	Cochin	Tuti	Chennai	Vizakha	Paradip	Calcutta	Haldia	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
POL CRUDE & ITS PRODUCTS	27	740	-	-	-	21	389	-	1015	411	-	-	-	2602
S.Arabia	27	2	-	-	-	-	-	-	-	-	-	-	-	29
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.K.	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Japan	-	30	-	-	-	-	-	-	-	-	-	-	-	30
France	-	20	-	-	-	-	-	-	-	-	-	-	-	20
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Holland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia/N.Zealand	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Belgium	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Singapore	-	300	-	-	-	21	-	-	-	331	-	-	-	652
Iran	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	26	-	-	-	-	-	-	-	-	-	-	-	26
S.Korea	-	29	-	-	-	-	-	-	-	29	-	-	-	58
Other European Countries	-	2	-	-	-	-	12	-	106	51	-	-	-	171
Other African Countries	-	9	-	-	-	-	-	-	-	-	-	-	-	9
Other Asian Countries	-	7	-	-	-	-	352	-	345	-	-	-	-	704
Other American Countries	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	312	-	-	-	-	24	-	564	-	-	-	-	900

2.2.20 Overseas Traffic (Exports - 1996-97) 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
FOODSTUFFS		1909	445	148	-	-	5	47	73	199	26	8	9	2869
S. Arabia		547	46	-	-	-	-	-	-	7	-	-	-	600
U.S.A.		-	13	-	-	-	-	-	-	-	-	-	-	13
U.K.		-	7	-	-	-	-	-	-	-	-	-	-	7
Russia		195	21	1	-	-	-	-	-	-	-	-	-	217
Holland		98	-	-	-	-	-	-	-	-	-	-	-	98
Canada		-	2	-	-	-	-	-	-	-	-	-	-	2
Singapore		2	3	10	-	-	-	-	-	-	-	-	-	15
Beahrain		-	2	-	-	-	-	-	-	-	-	-	-	2
Germany		-	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait		5	-	-	-	-	-	-	-	-	-	-	-	10
Oman		-	5	-	-	-	-	-	-	-	-	-	-	6
Dubai		-	66	-	-	-	-	-	-	-	-	-	-	66
Other European Countries		182	6	-	-	-	-	-	-	-	-	-	-	188
Other African Countries		351	140	5	-	-	-	-	-	-	-	-	-	496
Other Asian Countries		234	49	67	-	-	5	36	61	122	17	8	9	603
Others		295	79	65	-	-	-	11	12	70	9	-	-	541

2.2.20 Overseas Traffic (Exports - 1996-97) By Country of Destination (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Destination/Commodities	Kandla	Mumbai	J.L.	Mormu	N. Mangalore	Cochin	Futli	Chennai	Visakhapatnam	Paradip	Calcutta	Halda	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
IRON & STEEL	44	241	-	-	-	4	-	97	1314	-	303	189	2192
U.S.A.	-	11	-	-	-	2	-	15	110	-	-	-	138
U.K.	-	4	-	-	-	-	-	-	31	-	15	-	50
Belgium	-	2	-	-	-	-	-	-	15	-	-	-	17
Japan	-	-	-	-	-	-	-	1	118	-	6	-	125
Russia	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	4	-	-	-	-	-	1	-	-	-	-	5
Canada	-	-	-	-	-	-	-	4	-	-	-	-	4
Australia/N.Zealand	-	4	-	-	-	1	-	-	-	-	-	-	5
Kuwait	-	2	-	-	-	-	-	-	-	-	-	-	2
Other European countries	-	2	-	-	-	-	-	6	43	-	-	35	86
Other African countries	-	41	-	-	-	-	-	1	-	-	1	-	43
Other Asian countries	-	151	-	-	-	-	-	52	869	-	172	154	1399
Others	44	20	-	-	-	-	-	17	128	-	109	-	318
MACHINERY	-	190	-	-	-	10	-	-	-	-	-	-	200
U.S.A.	-	11	-	-	-	-	-	-	-	-	-	-	11
Russia	-	1	-	-	-	-	-	-	-	-	-	-	1
Japan	-	1	-	-	-	-	-	-	-	-	-	-	1
Germany	-	2	-	-	-	-	-	-	-	-	-	-	2
Other African Countries	-	22	-	-	-	-	-	-	-	-	-	-	22
Other European Countries	-	4	-	-	-	4	-	-	-	-	-	-	8
Middle East	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Asian Countries	-	99	-	-	-	4	-	-	-	-	-	-	103
S. America	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	50	-	-	-	2	-	-	-	-	-	-	52

2.2.20 Overseas Traffic (Exports - 1996-97) 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
CHEMICALS														
U.S.A.			205						121			7		333
U.S.S.R.			7						5					12
Japan														7
Germany			6						1					3
Australia/N.zealand			2						1					11
Africa			11											30
Other Asian Countries			29						1					185
Other European Countries			127						58					30
Others			9						21					55
			14						34			7		
TEA														
U.S.A.			17				76	20				73	37	223
U.S.S.R.							4							4
U.K.														
Japan							1							1
Canada							1							1
Germany														
Australia/N.zealand														
Africa														
Other Asian Countries			13				17							30
Other European Countries							16						37	53
Others			4				36	20				73		133

2.2.20 Overseas Traffic (Exports - 1996-97) By Country of Destination (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Destination/Commodities	Karadi :	Mumbai :	J.L. Nehru :	Mormu : gao :	N. Manga : lore :	Cochin : cochin :	Chennai : patnam :	Visakhapatnam :	Paradip :	Calcutta :	Halda :	Total :	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
IRON ORE	-	-	137	14550	5484	-	-	4665	3988	1119	-	-	29943
Japan	-	-	-	8502	1497	-	-	-	3773	437	-	-	14209
Korea (S)	-	-	34	1056	-	-	-	-	-	-	-	-	1090
West Indies	-	-	-	-	-	-	-	-	-	-	-	-	-
Romania	-	-	-	905	-	-	-	-	-	-	-	-	905
Italy	-	-	-	684	-	-	-	-	-	-	-	-	684
Pakistan	-	-	-	143	-	-	-	-	-	-	-	-	143
U.A.E.	-	-	-	79	-	-	-	-	-	-	-	-	79
Holland	-	-	-	582	-	-	-	-	-	-	-	-	582
Belgium	-	-	-	242	-	-	-	-	-	-	-	-	242
Korea (N)	-	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	242	-	-	-	-	-	-	-	242
Iraq	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	114	226	-	-	-	-	-	-	-	340
Hungry	-	-	-	-	-	-	-	-	-	-	-	-	-
Czechoslovakia	-	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	22	1647	1093	-	-	-	215	575	-	-	3552
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	92	-	-	-	-	-	-	-	-	92
France	-	-	-	307	-	-	-	-	-	-	-	-	307
Jordan	-	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	1777	-	-	-	-	-	-	-	1777
Europe	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	81	197	649	-	-	4665	-	107	-	-	5699

Note : Iron ore & Pellet in New Mangalore.

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	Emarked : Disembarked : Total	Emarked : Disembarked : Total				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
KANDLA									
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				
MUMBAI									
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
1975-76	77.3	36.0	113.3	82.6	72.2	154.8	159.9	108.2	268.1
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

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

(In '000)

	Overseas		Coastal		Total				
Port/Year	Embarcked	: Disembarcked	Total	Embarcked	: Disembarcked	Total			
(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							

MORMUGAO

1965-66	0.4	1.3	1.7	10.1	9.6	19.7	10.5	10.9	21.4
1970-71	-	1.4	1.4	1.4	0.1	1.5	1.4	1.5	2.9
1975-76	-	0.2	0.2	-	-	-	-	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							

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)
NEW MANGALORE									
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			
COCHIN									
1965-66	0.1	0.1	0.2	0.6	1.2	1.8	0.7	1.3	2.0
1970-71	0.0	0.0	0.0	1.3	3.1	4.4	1.3	3.1	4.4
1975-76	0.0	0.0	0.0	5.7	5.2	10.9	5.7	5.2	10.9
1980-81	0.0	0.1	0.1	5.9	7.6	13.5	5.9	7.7	13.6
1985-86	0.3	0.4	0.7	16.4	19.8	36.2	16.7	20.2	36.9
1986-87	0.6	0.7	1.3	17.2	18.6	35.8	17.8	19.3	37.1
1987-88	0.4	0.9	1.3	16.2	21.0	37.2	16.6	21.9	38.5
1988-89	0.0	0.0	0.0	21.4	20.5	41.9	21.4	20.5	41.9
1989-90	0.7	0.7	1.4	20.3	20.3	40.6	21.0	21.0	42.0
1990-91	1.3	1.4	2.7	19.3	21.1	40.4	20.6	22.5	43.1
1991-92	1.7	1.7	3.4	25.1	26.9	52.0	26.8	28.6	55.4
1992-93	4.4	4.3	8.7	28.1	27.4	55.5	32.5	31.7	64.2
1993-94	1.3	1.2	2.5	31.3	28.3	59.6	32.6	29.5	62.1
1994-95	1.8	1.7	3.5	30.7	26.5	57.2	32.5	28.2	60.7
1995-96	8.6	8.6	17.2	34.2	24.9	59.1	42.8	33.5	76.3
1996-97	4.7	4.6	9.3	32.8	23.5	56.3	37.5	28.1	65.6

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									
1965-66	27.3	72.0	99.3	4.6	4.0	8.6	31.9	76.0	107.9
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
1980-81	16.2	14.4	30.6	19.8	19.0	38.8	36.0	33.4	69.4
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
VISAKHAPATNAM									
1975-76	-	-	-	0.3	0.8	1.1	0.3	0.8	1.1
1980-81	-	0.7	0.7	1.0	1.2	2.2	1.0	1.9	2.9
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

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

(In '000)

:		Overseas		:	Coastal		:	Total		
Port/Year		:Disembarked :		Total	:Disembarked :		Total	:Disembarked :		Total
(1)	(2)	(3)	(a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
CALCUTTA/HALDIA										
1965-66	(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

(a) : Included in Coastal.

2.3.3.1 Passenger Traffic At Major Ports In India (Contd.,)

(000, 01)

Port/Year	Overseas			Coastal			Total		
	Embarked	Disembarked	Total	Embarked	Disembarked	Total	Embarked	Disembarked	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ALL MAJOR PORTS									
1965-66	95.6	158.9	254.5	425.5	393.6	819.1	521.1	552.5	1073.6
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	7.1	10.6	17.7	70.5	68.2	138.7	77.6	78.8	156.4
1991-92	15.6	10.4	26.0	68.8	67.6	136.4	84.4	78.0	162.4
1992-93	21.1	14.2	35.3	86.5	80.9	167.4	107.6	95.1	202.7
1993-94	15.4	9.8	25.2	99.9	90.5	190.4	115.3	100.3	215.6
1994-95	18.9	14.6	33.5	124.3	108.4	232.7	143.2	123.0	266.2
1995-96	20.9	21.5	42.4	133.6	119.9	253.5	154.5	141.4	295.9
1996-97	11.8	13.0	24.8	128.1	124.3	252.4	139.9	137.3	277.2

2.4.1 Number, Type And Size Of Ships Performed

(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	1989-90	97	978	237	1588	108	1268	527	13216	-	-	9	243	978	17293
	1990-91	81	746	215	1713	113	1403	529	14570	-	-	8	226	946	18658
	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	1989-90	519	4547	679	4896	145	1541	645	13719	22	694	-	-	2010	25397
	1990-91	521	4480	676	5420	115	1290	634	14090	27	870	-	-	1973	26150
	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	-	-	2330	32490
	1995-96	776	8590	627	5310	108	750	747	16160	18	550	-	-	2276	31360
	1996-97	863	8960	654	5520	100	740	751	16060	12	280	-	-	2380	31560
J. L. Nehru	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	-	-	89\$	1017	540	4616
	1995-96	357	5986	-	-	81	1894	14	190	-	-	94\$	3178	546	11248
	1996-97	408	7312	-	-	74	1713	64	799	-	-	94#	3054	640	12878
	1989-90	3	40	29	284	182	7183	181	2856	6	226	-	-	401	10589
	1990-91	-	-	21	262	177	7642	237	3745	2	76	-	-	437	11725
Mormugao	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
	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

* Includes Naval And Other Ships.

\$ Includes car carrier & General ships.

Includes Car carriers, Navy and General & Other Ships.

2.4.1 Number, Type And Size Of Ships Performed(Contd.)

(GRT In '000)

Port	Year	Container		Break Bulk		Dry Bulk		Liquid Bulk		Tash		Ro-Ro		Total
		No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	GRT
N. Mangalore	1989-90	12	35	116	322	161	3688	111	1478	-	-	-	-	400
	1990-91	11	32	135	1076	176	4051	135	1751	-	-	-	-	5523
	1991-92	18	66	136	1161	189	4301	149	1973	-	-	-	-	457
	1992-93	18	53	143	1215	150	3700	142	1097	-	-	-	-	492
	1993-94	20	59	114	967	174	4573	174	2359	-	-	-	-	453
	1994-95	11	33	123	1068	179	4195	201	2816	-	-	-	-	482
	1995-96	-	-	122	1115	175	4481	208	2617	-	-	-	-	514
	1996-97	-	-	145	1486	163	4039	336	6797	-	-	-	-	505
	1989-90	258	1496	160	1500	26	498	233	5911	4	115	-	-	644
	1990-91	287	1339	154	1455	31	493	249	6231	7	206	-	-	681
Cochin	1991-92	250	1325	100	984	33	474	277	6883	10	295	-	-	728
	1992-93	227	1050	90	753	33	541	289	7422	3	86	-	-	670
	1993-94	267	1469	90	675	31	356	263	6812	5	115	-	-	642
	1994-95	275	1652	59	402	34	376	294	8065	-	-	-	-	656
	1995-96	261	1747	105	782	43	962	388	9928	-	-	-	-	662
	1996-97	278	2202	134	760	41	885	375	9928	-	-	-	-	797
	1989-90	138	670	225	871	168	3534	102	1424	5	142	-	-	828
	1990-91	193	680	228	850	160	3167	111	1383	-	-	-	-	638
	1991-92	167	590	224	1027	163	3446	141	1845	-	-	-	-	692
	1992-93	145	561	300	1080	174	3687	129	1808	-	-	-	-	695
Pulloorin	1993-94	171	734	336	1052	193	4371	104	1391	2	72	-	-	748
	1994-95	165	873	352	1300	234	4950	125	1195	2	47	-	-	806
	1995-96	181	797	333	1365	297	6252	128	1616	-	-	-	-	878
	1996-97	182	951	294	1325	292	6214	137	1841	-	-	-	-	939
	1989-90	476	3726	276	2127	283	8971	437	19955	14	419	-	-	905
	1990-91	419	3726	285	1766	313	7967	484	10789	12	348	-	-	1486
	1991-92	372	2779	222	1428	321	8299	481	10944	20	598	-	-	1513
	1992-93	322	2278	226	1724	364	9151	480	11344	16	685	-	-	1416
	1993-94	306	2543	232	1718	358	8482	460	11225	14	400	-	-	1408
	1994-95	327	3094	218	1639	378	9515	486	12663	15	429	-	-	1370
Chennai	1995-96	423	3791	204	1614	443	10735	482	12206	15	428	-	-	1424
	1996-97	461	4286	230	1797	422	10360	516	13298	15	428	-	-	1567
												-	-	1644
												-	-	30169
												-	-	
												-	-	
												-	-	
												-	-	
												-	-	
												-	-	

2.4.1 Number, Type And Size Of Ships Performed (Contd..)

Port	Year	(GRT in '000)																		
		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	No.	GRT	No.	GRT	
Visakhapatnam	1989-90	17	103	107	794	357	9715	298	6975	9	257	-	-	-	-	-	-	-	-	17844
	1990-91	35	218	106	827	356	9390	312	6782	4	115	-	-	-	-	-	-	-	-	17332
	1991-92	44	204	67	571	398	10196	353	7575	8	235	-	-	-	-	-	-	-	-	18781
	1992-93	49	302	108	956	426	10063	353	8420	15	434	-	-	-	-	-	-	-	-	20175
	1993-94	50	334	186	1805	426	10421	370	9256	11	314	-	-	-	-	-	-	-	-	22130
	1994-95	37	192	203	1990	484	11794	478	11611	7	200	-	-	-	-	-	-	-	-	22130
	1995-96	40	271	280	2336	499	12417	490	12270	16	457	-	-	-	-	-	-	-	-	25751
Paradip	1996-97	63	508	223	2256	530	13674	602	16399	19	543	-	-	-	-	-	-	-	-	33380
	1989-90	-	-	20	185	202	4293	22	316	14	400	-	-	-	-	-	-	-	-	5194
	1990-91	-	-	17	146	221	4965	26	438	12	349	-	-	-	-	-	-	-	-	5898
	1991-92	6	42	15	120	234	5146	64	990	10	295	-	-	-	-	-	-	-	-	6593
	1992-93	-	-	14	106	263	5890	71	1222	15	428	-	-	-	-	-	-	-	-	7646
	1993-94	-	-	5	47	293	6216	89	1556	15	428	-	-	-	-	-	-	-	-	8247
	1994-95	-	-	13	91	335	7529	118	1785	13	371	-	-	-	-	-	-	-	-	9776
Calcutta	1995-96	-	-	6	60	357	8184	160	2319	18	561	-	-	-	-	-	-	-	-	11124
	1996-97	-	-	11	75	358	8029	187	2647	21	630	-	-	-	-	-	-	-	-	11361
	1989-90	149	863	441	2938	57	508	129	1174	14	400	-	-	-	-	-	-	-	-	5883
	1990-91	139	607	453	2859	31	343	154	1422	13	391	-	-	-	-	-	-	-	-	5622
	1991-92	109	604	399	2811	31	237	148	1291	14	447	-	-	-	-	-	-	-	-	5390
	1992-93	135	724	363	2506	39	378	216	2214	15	428	-	-	-	-	-	-	-	-	6250
	1993-94	204	1222	315	2129	19	206	201	2060	14	400	-	-	-	-	-	-	-	-	6077
Haldia	1994-95	222	1215	298	2241	10	104	211	2171	15	429	-	-	-	-	-	-	-	-	6160
	1995-96	246	1339	222	1651	18	164	306	3128	14	400	-	-	-	-	-	-	-	-	6682
	1996-97	288	1634	222	1732	14	141	336	2765	17	486	-	-	-	-	-	-	-	-	6758
	1989-90	73	585	14	119	182	4443	316	7376	-	-	-	-	-	-	-	-	-	-	12523
	1990-91	58	625	2	11	175	4277	346	8408	-	-	-	-	-	-	-	-	-	-	13321
	1991-92	47	488	9	72	206	4808	369	8700	-	-	-	-	-	-	-	-	-	-	14068
	1992-93	49	402	19	194	229	5462	412	9468	-	-	-	-	-	-	-	-	-	-	15526
	1993-94	57	463	35	375	236	5925	394	9693	-	-	-	-	-	-	-	-	-	-	16456
	1994-95	63	405	48	373	261	6533	412	11255	-	-	-	-	-	-	-	-	-	-	18566
	1995-96	44	259	42	358	273	6986	480	12900	-	-	-	-	-	-	-	-	-	-	20503
	1996-97	98	643	45	444	340	8628	467	13087	-	-	-	-	-	-	-	-	-	-	22802

2.4.1 Number, Type And Size Of Ships Performed(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	1989-90	1814	12995	2188	15302	1732	41954	2890	72922	88	2653	12	243	8724	146069
	1990-91	1832	12421	2157	15309	1746	40937	3082	67859	77	2355	25	226	8919	139107
	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

2.4.2 Port-Wise Commodity-Wise Capacity

Commodities	(In Million Tonnes)												
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
		Calcutta	Haldia	Paradip	Visakhapatnam	Chennai	Tuticorin	Cochin	New Mangalore	Mormugao	Mumbai	Kandla	J. L. Nehru
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	-
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	-
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	-
Iron Ore													
As on 31.3.96		-	-	4.00	8.00	8.00	-	-	7.50	14.00	-	-	-
As on 31.3.97		-	-	4.00	8.00	8.00	-	-	7.50	17.00	-	-	-
As on 31.3.98		-	-	4.00	8.00	8.00	-	-	7.50	17.00	-	-	-
Coal													
As on 31.3.96		-	5.00	-	-	-	3.00	-	-	-	-	-	-
As on 31.3.97		-	5.00	-	-	-	4.00	-	-	-	-	-	-
As on 31.3.98		-	5.00	-	-	-	4.00	-	-	-	-	-	-
Fertiliser													
As on 31.3.96		-	1.80	2.00	0.35	-	-	0.40	-	-	-	0.50	2.90
As on 31.3.97		-	-	1.10	0.55	-	-	0.60	-	-	-	0.50	2.90
As on 31.3.98		-	-	1.10	0.55	-	-	0.60	-	-	-	0.50	2.90
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	-
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
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
Container													
As on 31.3.96		1.55	0.30	-	-	1.92	-	0.96	-	-	1.25	-	3.00
As on 31.3.97		2.15	0.30	-	-	2.50	-	0.96	-	-	4.50	-	3.50
As on 31.3.98		2.15	0.30	-	-	2.50	-	0.96	-	-	4.50	-	3.50
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
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
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

Source : Development Wing - MDST

2.5.1 Container Handling Facilities - Portwise (1996-97)

Port	:No. of Berths	:Vessel Size (IN DWT)	Equipment				
			:Quay Side Gantry	:Yard Gantry	:Toplift	:Tractors	:Forklift
			:Gantry	: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) 2x40 T	4x35.5 T 4x40 T	9+	33	6
COCHIN	2	10,000 TO 20,000	2x35.5 T	3x35.5 T (RTG)	5x40T	19	35
J.N.P.T.	3	85000	3x35.5 T 3@x40 T	8+6@35.5 T @ (RTG) 1+1 RAIL MOUNTED	-	19+19@	3
MUMBAI	8	42,000	2x35.5 T	3x35.5 T (RTG)	2x42T**	-	-

Source : All Major Ports/Administrative Reports

* Includes 3 Reach stackers

@ Hired equipments.

** Reach Stackers.

2.5.2 Container Traffic Handled At Major Ports

(In Million Tonnes)

Item	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1. Export											
i) Indian Lines	0.32	0.25	0.32	0.34	0.36	0.36	0.35	0.57	0.76	0.89	1.08
ii) Foreign Lines	2.27	2.59	2.64	3.18	3.32	3.28	3.21	5.29	7.04	8.27	10.01
iii) Total	2.59	2.84	2.96	3.52	3.68	3.64	3.56	5.86	7.80	9.16	11.09
2. Import											
i) Indian Lines	0.54	0.48	0.45	0.44	0.46	0.35	0.46	0.69	0.82	0.94	1.09
ii) Foreign Lines	2.12	2.57	2.75	3.38	3.56	2.73	3.60	5.35	6.39	7.34	8.56
iii) Total	2.66	3.05	3.20	3.82	4.02	3.08	4.06	6.04	7.21	8.28	9.65
3. Total											
i) Indian Lines	0.86	0.73	0.77	0.78	0.82	0.71	0.81	1.26	1.58	1.83	2.17
ii) Foreign Lines	4.39	5.16	5.39	6.56	6.88	6.01	6.81	10.64	13.43	15.61	18.57
iii) Total	5.25	5.89	6.16	7.34	7.70	6.72	7.62	11.90	15.01	17.44	20.74
4. General Cargo (Break Bulk & Container)	14.07	14.58	14.50	16.66	16.92	15.58	17.69	23.16	27.87	30.84	33.24
% Of Container Cargo to general cargo	37.3	40.4	42.5	44.1	45.5	43.1	43.1	51.4	53.9	56.5	62.4

Note : From 1992-93 onwards 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.

2.5.3 Container Cargo as well as Tare weight
of Containers At Major Ports
During 1996-97

(000 'Tonnes)			
Port	Container cargo	Tare weight	Container traffic
Kandla	1008	171	1179
Mumbai	7785	1189	8974
J.L.Nehru	4020	1058	5078
Mormugao	34	8	42
Cochin	733	234	967
Tuticorin	726	175	901
Chennai	...	...	2564
Vizag	137	30	167
Calcutta	1653	298	1951
Haladia	100	17	117
Total	16196	3180	21940

Note:-(1) Total may not tally because of non-availability of
break-up of Chennai Port
There was no container traffic at Paradip and
New Mangalore Ports.

2.5.4 Reefer Container Traffic (P)

Port	Year	Export			Import		
		: 20 ft Containers : : TEUs : Tonnes	: 40 ft Containers : : TEUs : Tonnes	: 20 ft Containers : : TEUs : Tonnes	: 40 ft Containers : : TEUs : Tonnes	: 20 ft Containers : : TEUs : Tonnes	: 40 ft Containers : : TEUs : Tonnes
Calcutta	1995-96	914	14624	608	5843	-	-
	1996-97	546	11302	1174	18585	22	400
Haldia	1995-96	3	7	84	147	3	7
	1996-97	1	15	8	68	-	84
Visakhapatnam	1995-96	105	2061	2198	26616	-	20
	1996-97	185	3081	2076	26717	-	35
Chennai	1995-96	...	...	...	...	...	-
	1996-97	...	...	...	...	...	-
Tuticorin	1995-96	351	5576	830	10753	-	-
	1996-97	340	4911	856	10104	-	-
Cochin	1995-96	1468	14680	3079	30790	-	-
	1996-97	1865	23312	7596	86331	1903	4662
Mormugao	1995-96	117	2221	422	6258	50	7460
	1996-97	160	2007	726	8086	49	13038
J.L.Nehru	1995-96	496	5952	6992	83904	98	954
	1996-97	551	6612	7086	85032	880	176
Mumbai	1995-96	864	12355	12352	156253	490	392
	1996-97	1475	23160	13942	160055	1296	634
Kandla	1995-96	210	4332	1886	19675	15	298
	1996-97	215	5139	3554	46847	163	5088
Total	1995-96	4528	61808	28451	340239	656	10560
	1996-97	5338	79539	37018	441825	4313	832
There is no Container Traffic at Paradip and New Mangalore							
						(P): Provisional	
						170	216
						670	878
						3228	9414
						10294	1606
						29529	18877
						21244	47322

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

(In '000 Tonnes)

Item	Kandla	Mumbai	J.L. Nehru	Mormu-gao	N. Mangalagiri	Cochin	Tuticorin	Chennai	Visakhapatnam	Paradip	Calcutta	Haldia	Total	
	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	
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	
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	

* Exclude Tareweight

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

Type	KANDLA			MUMBAI			JAWAHARLAL NEHRU		
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97
1	2	3	4	5	6	7	8	9	10
IMPORT									
20'	25319	33586	38473	252657	284486	316606	91959	140556	169881
40'	19107	27204	30881	142741	170076	185596	55003	80708	86379
	3106	3191	3796	54958	57205	65505	18478	29924	41751
Stuffed									
20'	17371	19098	21033	179900	209063	230673	59940	88918	98730
40'	14183	15048	17357	99212	121157	135401	41078	52608	52788
	1594	2025	1838	40344	43953	47636	9431	18155	22971
Empty									
20'	7948	14488	17440	72757	75423	85933	32019	51638	71151
40'	4924	12156	13524	43529	48919	50195	13925	28100	33591
	1512	1166	1958	14614	13252	17869	9047	11769	18780
EXPORT									
20'	25931	31138	38964	223413	230495	264940	130060	183985	230574
40'	20261	26202	32130	139475	146291	161068	75222	108377	122146
	2835	2468	3417	41969	42102	51936	27419	37804	54214
Stuffed									
20'	24519	30093	37430	201406	212062	242433	122657	174267	220768
40'	19849	26069	31854	133568	142676	152371	73347	105369	120436
	2335	2012	2788	33919	34693	45031	24655	34449	50166
Empty									
20'	1412	1045	1534	22007	18433	22507	7403	9718	9806
40'	412	133	276	5907	3615	8697	1875	3008	1710
	500	456	629	8050	7409	6905	2764	3355	4048

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

Type	KANDLA				MUMBAI			JAWAHARLAL NEHRU		
	1994-95 1995-96 1996-97 1994-95 1995-96 1996-97 1994-95 1995-96 1996-97									
	1	2	3	4	5	6	7	8	9	10
TRANSHIPMENT										
20'	-	-	-	-	10923	2552	1869	22051	14595	22693
40'	-	-	-	-	10081	1488	1345	10957	7977	11391
Stuffed	-	-	-	-	421	532	262	5547	3309	5651
20'	-	-	-	-	10923	2552	1869	22051	14595	22693
40'	-	-	-	-	10081	1488	1345	10957	7977	11391
Empty	-	-	-	-	421	532	262	5547	3309	5651
20'	-	-	-	-	-	-	-	-	-	-
40'	-	-	-	-	-	-	-	-	-	-
TOTAL										
20'	51250	64724	77437	486993	517533	583415	244070	339136	423148	
40'	39368	53406	63011	292297	317855	348009	141182	197062	219916	
Stuffed	5941	5659	7213	97348	99839	117703	51444	71037	101616	
20'	41890	49191	58463	392229	423677	474975	204648	277780	342191	
40'	34032	41117	49211	242861	265321	289117	125382	165954	184615	
Empty	3929	4037	4626	74684	79178	92929	39633	55913	78788	
20'	9360	15533	18974	94764	93856	108440	39422	61356	80957	
40'	5336	12289	13800	49436	52534	58892	15800	31108	35301	
2012	1622	2587	22664	20661	24774	11811	15124	22828		

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

Type	MORMUGAO			NEW MANGALORE			COCHIN		
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97
1	2	3	4	5	6	7	8	9	10
IMPORT	888	1043	1668	511	-	-	40027	45665	53879
20'	242	455	810	417	-	-	18759	20049	24111
40'	323	294	429	47	-	-	10384	12808	14881
Stuffed	446	640	1160	205	-	-	6982	9416	11725
20'	188	316	722	111	-	-	3302	5614	6275
40'	129	162	219	47	-	-	1590	1901	2725
Empty	442	403	508	306	-	-	33045	36249	42154
20'	54	139	88	306	-	-	15457	14435	17836
40'	194	132	210	-	-	-	8794	10907	12159
EXPORT	846	1095	1715	1359	-	-	45362	50308	57581
20'	228	471	837	329	-	-	22140	22764	26327
40'	309	312	439	15	-	-	11636	13772	15627
Stuffed	772	916	1405	251	-	-	44487	49601	56786
20'	224	450	731	251	-	-	21785	22641	26096
40'	274	233	337	-	-	-	11326	13480	15345
Empty	74	179	310	108	-	-	875	707	795
20'	4	21	106	78	-	-	355	123	231
40'	35	79	102	15	-	-	310	292	282

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

Type	MORMUGAO				NEW MANGALORE				COCHIN	
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	
	1	2	3	4	5	6	7	8	9	10
TRANSHIPMENT										
20'	-	-	-	-	-	-	-	1107	71	685
40'	-	-	-	-	-	-	-	465	31	441
								321	20	122
Stuffed	-	-	-	-	-	-	-	781	1	685
20'	-	-	-	-	-	-	-	367	1	441
40'	-	-	-	-	-	-	-	207	-	122
Empty	-	-	-	-	-	-	-	326	70	-
20'	-	-	-	-	-	-	-	98	30	-
40'	-	-	-	-	-	-	-	114	20	-
TOTAL	1734	2138	3383	870	-	-	-	86446	96044	112145
20'	470	926	1647	746	-	-	-	41764	42844	50079
40'	632	606	868	62	-	-	-	22342	26600	30633
Stuffed	1218	1556	2565	456	-	-	-	52200	59018	69196
20'	412	766	1453	362	-	-	-	25954	28256	32812
40'	403	395	556	47	-	-	-	13124	15381	18192
Empty	516	582	818	414	-	-	-	34246	37026	42949
20'	58	160	194	384	-	-	-	15810	14588	18067
40'	229	211	312	15	-	-	-	9218	11219	12441

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

Type	TUTICORIN				CHENNAI				VISAKHAPATNAM			
	1994-95 1995-96 1996-97 1996-97				1994-95* 1995-96* 1996-97* 1996-97				1994-95 1995-96 1996-97			
	1	2	3	4	5	6	7	8	9	10		
IMPORT												
20'	28503	33970	43928	100920	114309	126936	5592	3843	6485			
40'	14089	18310	23048	60688	65447	73046	2324	1649	3735			
	7207	7830	10440	20116	24431	26945	1634	1097	1375			
Stuffed												
20'	10656	15106	12544	76925	84702	88917	2317	1061	2431			
40'	6072	9644	8748	46953	51212	56017	1405	851	1647			
	2292	2731	1898	14986	16745	16450	456	105	392			
Empty												
20'	17847	18864	31384	23995	29607	38019	3275	2782	4054			
40'	8017	8666	14300	13735	14235	17029	919	798	2088			
	4915	5099	8542	5130	7686	10495	1178	992	983			
EXPORT												
20'	28497	34649	44841	98872	113177	129209	5553	4603	6632			
40'	14079	17505	21747	58446	67049	74647	2459	1951	3918			
	7209	8572	11547	20213	23064	27281	1547	1326	1357			
Stuffed												
20'	27682	33392	44191	95613	109418	126228	4760	4133	5871			
40'	13742	17228	21207	57527	66378	73872	1978	1749	3707			
	6970	8082	11492	19043	21520	26178	1391	1192	1082			
Empty												
20'	815	1257	650	3259	3759	2981	793	470	761			
40'	337	277	540	919	671	775	481	202	211			
	239	490	55	1170	1544	1103	156	134	275			

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

Type	TUTICORIN				CHENNAI			VISAKHAPATNAM		
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	
1	2	3	4	5	6	7	8	9	10	
TRANSHIPMENT										
20'	-	-	-	594	-	2	340	-	-	
40'	-	-	-	232	-	2	340	-	-	
	-	-	-	181	-	-	-	-	-	
Stuffed	-	-	-	519	-	2	340	-	-	
20'	-	-	-	217	-	2	340	-	-	
40'	-	-	-	151	-	-	-	-	-	
Empty	-	-	-	75	-	-	-	-	-	
20'	-	-	-	15	-	-	-	-	-	
40'	-	-	-	30	-	-	-	-	-	
TOTAL										
20'	57000	68619	88769	200386	227523#	256503#	11145	8446	13117	
40'	28168	35815	44795	119366	132498	148033	3783	3600	7653	
	14416	16402	21987	40510	47495	54226	3181	2423	2732	
Stuffed	38338	48498	56735	173057	194122	215485	7077	5194	8302	
20'	19814	26872	29955	104697	117592	130229	2383	2600	5354	
40'	9262	10813	13390	34180	38265	42628	1847	1297	1474	
Empty	18662	20121	32034	27329	33366	41000	4068	3252	4815	
20'	8354	8943	14840	14669	14906	17804	1400	1000	2299	
40'	5154	5589	8597	6330	9230	11598	1334	1126	1258	

Note:- * There were 140, 166 and 228 containers of size 45' in 1994-95, 1995-96 and 1996-97 respectively and one container of 60' in 1994-95 which has been included in 20' containers.
Includes 35 TEUs of shifting in 95-96 and 18 TEUs of shifting in 96-97.

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

Type	PARADIP					HALDIA					CALCUTTA					ALL PORTS		
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97
1	2	3	4	5	6	7	8	9	10	11	12	13						
IMPORT																		
20'	NIL			1795	642	1930	57158	62969	70289	605329	721069	830075						
40'				1268	336	772	37218	39971	45925	352805	424205	474303						
				264	153	579	9970	11499	12182	126487	148432	177886						
Stuffed																		
20'	NIL			1030	272	1388	45335	48671	50478	401107	476947	519079						
40'				949	240	428	32133	32533	34728	246085	289223	314111						
				41	16	480	6601	8069	7875	77511	93862	102484						
Empty																		
20'	NIL			765	370	542	11823	14298	19811	204222	244122	310996						
40'				319	96	344	5085	7438	11197	106720	134982	160192						
				223	137	99	3369	3430	4307	48976	54570	75402						
EXPORT																		
20'	NIL			3950	3201	6869	54874	58343	62406	617667	710994	843731						
40'				2326	2015	3379	34864	37517	40832	369729	430142	487031						
				112	593	1745	10005	10413	10787	123969	140426	178350						
Stuffed																		
20'	NIL			3869	3015	6787	51666	56514	60152	577632	673411	802051						
40'				2291	1979	3357	32898	36956	40132	357460	421495	473763						
				89	518	1715	9384	9779	10010	110086	125958	164144						
Empty																		
20'	NIL			81	186	82	3208	1829	2254	40035	37583	41680						
40'				35	36	22	1966	561	700	12269	8647	13268						
				23	75	30	621	634	777	13883	14468	14206						

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

Type	PARADIP				HAIDA			CALCUTTA			ALL PORTS		
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	
1	2	3	4	5	6	7	8	9	10	11	12	13	
TRANSHIPMENT													
20'	NIL			-	-	82	-	-	-	34675	17220	25669	
40'	-			-	-	41	-	-	-	21735	9498	13517	
	-			-	-	41	-	-	-	6470	3861	6076	
Stuffed	-			-	-	82	-	-	-	34274	17150	25669	
20'	NIL			-	-	41	-	-	-	21622	9468	13517	
40'	-			-	-	41	-	-	-	6326	3841	6076	
Empty	-			-	-	-	-	-	-	401	70	-	
20'	NIL			-	-	-	-	-	-	113	30	-	
40'	-			-	-	-	-	-	-	144	20	-	
TOTAL													
20'	NIL			5745	3843	8881	112032	121312	132695	1E+06	1449318#	1699493#	
40'	-			3593	2351	4151	72082	77488	86757	743819	863845	974851	
	-			1076	746	2365	19975	21912	22969	256926	292719	362312	
Stuffed	-			4899	3287	8257	97001	105185	110630	1E+06	1E+06	1E+06	
20'	NIL			3239	2219	3785	65031	69489	74860	625167	720186	801391	
40'	-			830	534	2236	15985	17848	17885	193923	223661	272704	
Empty	-			846	556	624	15031	16127	22065	244658	281775	352676	
20'	NIL			354	132	366	7051	7999	11897	118652	143659	173460	
40'	-			246	212	129	3990	4064	5084	63003	69058	89608	

Includes 35 TEUs of shifting in 1995-96 and 18 TEUs of shifting in 96-97 in Chennai.
Note : (Unless specified No. of Containers are in 20' equivalent units-TEUs)

2.5.7 Level of Containerisation in General Cargo
at various Major Ports 1995-96 and 1996-97

Ports	Container Cargo (000 tonnes)			General Cargo (Break Bulk + Container) (000 tonnes)			Percentage of Container Cargo to General Cargo			
	2	3	4	5	6	7	8	9	10	11
	Export	Import	Total	Export	Import	Total	Export	Import	Total	
1										
Kandla	1995-96	595	366	961	2482	897	3379	24.0	40.8	28.4
	1996-97	758	421	1179	2357	908	3265	32.2	46.4	36.1
Mumbai	1995-96	2857	3708	6565	4348	5978	10326	65.7	62.0	63.6
	1996-97	3328	4457	7785	4544	6885	11429	73.2	64.7	68.1
J.L.Nehru	1995-96	2208	1862	4070	2276	1862	4138	97.0	100.0	98.4
	1996-97	2895	2183	5078	2895	2183	5078	100.0	100.0	100.0
Mormugao	1995-96	13	6	19	70	10	80	18.6	60.0	23.8
	1996-97	21	13	34	109	15	124	19.3	86.7	27.4
New Mangalore	1995-96	-	-	-	252	326	578	-	-	-
	1996-97	-	-	-	328	246	574	-	-	-
Cochin	1995-96	641	155	796	674	320	994	95.1	48.4	80.1
	1996-97	719	248	967	743	502	1245	96.8	49.4	77.7
Tuticorin	1995-96	478	280	758	1223	725	1948	39.1	38.6	38.9
	1996-97	630	271	901	1415	562	1977	44.5	48.2	45.6
Chennai	1995-96	1271	1038	2309	1921	1541	3462	66.2	67.4	66.7
	1996-97	1459	1105	2564	2177	1672	3849	67.0	66.1	66.6
Vishakapatnam	1995-96	69	25	94	2087	274	2361	3.3	9.1	4.0
	1996-97	111	56	167	1784	240	2024	6.2	23.3	8.2
Paradip	1995-96	-	-	-	-	11	11	-	-	-
	1996-97	-	-	-	26	38	64	-	-	-
Calcutta	1995-96	982	832	1814	1847	1439	3286	53.2	57.8	55.2
	1996-97	1072	879	1951	1744	1486	3230	61.5	59.2	60.4
Haldia	1995-96	45	6	51	256	25	281	17.6	24.0	18.1
	1996-97	99	18	117	346	38	384	28.6	47.4	30.5
TOTAL	1995-96	9159	8278	17437	17436	13408	30844	52.5	61.7	56.5
	1996-97	11092	9651	20743	18468	14775	33243	60.1	65.3	62.4

Note : Container cargo includes tareweight in respect of Kandla
Calcutta, Haldia, New Mangalore, Tuticorin, Cochin, JNPT and
Visakhapatnam. For tareweight figure 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 comm- odities in Total		% Share of comm- odities in Total		Level of Containerisation % of container Cargo to General Cargo	
	Container Cargo	Total Cargo	Container Cargo	Total Cargo	Container Cargo	Container	General Cargo	Col.2	Col.3	Col.4	Col.5
	1	2	3	4	5	6	7	8	9	10	11
Exports											
1. Textiles, Cotton, Yarn etc.	447	559	456	561	6.4	6.8	3.1	3.7	98.0	99.6	
2. Metal & Metal products	271	333	323	374	3.9	4.1	2.2	2.5	83.9	89.0	
3. Foodgrains & Other products	224	369	1912	1682	3.2	4.5	12.9	11.1	11.7	21.9	
4. Tea & Coffee	311	390	334	409	4.8	4.8	2.3	2.7	99.1	95.4	
5. Granite & Its other Material	211	274	682	841	1.0	3.4	4.6	5.6	30.9	32.6	
6. Fish and other Marine Products	169	202	169	203	2.4	2.5	1.1	1.3	100.0	99.5	
7. Fodder	223	338	462	583	3.2	4.1	2.6	2.7	48.3	57.9	
8. Fruits & Vegetables	237	263	387	404	3.4	3.2	2.6	2.7	61.2	65.1	
9. Jute and Jute Products	134	172	230	239	1.9	2.1	1.6	1.6	58.3	72.0	
10. Spices	73	106	85	112	1.1	1.3	0.6	0.8	85.3	94.6	
11. Hosiery, Handicrafts & Millinery	105	87	111	88	1.5	1.1	0.7	0.6	94.6	98.8	
12. Machinery/Instruments and Transport equipment	134	187	144	202	1.9	2.3	1.0	1.3	93.0	92.6	
13. Drugs and Medicine	51	54	53	55	0.7	0.7	0.4	0.4	96.2	98.2	
14. Cashew Kernels	72	84	72	84	1.0	1.0	0.5	0.6	100.0	100.0	
15. Dyes and Colours	40	49	42	50	0.6	0.6	0.3	0.3	95.2	98.0	
16. Cast Iron Goods	109	114	128	140	1.6	1.4	0.9	0.9	85.2	81.4	
17. Oilseeds etc.	84	100	95	128	1.2	1.2	0.6	0.8	88.4	78.1	
18. Chemicals	287	340	297	348	4.1	4.1	2.0	2.3	96.6	97.7	
19. Others	3735	4155	6856	8597	54.1	50.8	59.5	56.9	42.2	48.3	
Total Export*	6937	8176	16838	15100	100.0	100.0	100.0	100.0	46.8	54.1	
ALL MAJOR PORTS	9159	11092	17436	18468					52.5	60.1	

* 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 comm- odities in Total Container Cargo				% Share of comm- odities in Total odities in General Cargo				Level of Containerisation % of container Cargo to General Cargo Col.2 Col.3 ----- x100 ----- x100 Col.4 Col.5	
	Container Cargo		Total General Cargo			6	7	8	9	10	11				
	1995-96	1996-97	1995-96	1996-97											
1	2	3	4	5	6	7	8	9	10	11					
Imports															
1. Iron & Steel, Metal and Metal Products	1245	1165	3276	2917	19.4	15.6	29.3	23.7	38.0	39.9					
2. Chemicals	572	746	634	824	8.9	10.0	5.7	6.7	90.2	90.5					
3. Paper, Newsprints etc.	439	599	685	835	6.8	8.0	6.1	6.8	64.1	71.7					
4. Foodgrains & other Cereals	193	283	235	299	3.0	3.8	2.1	2.4	62.1	64.6					
5. Plastic and its products	443	509	501	564	6.9	6.8	6.5	4.6	88.4	90.2					
6. Machinery/Instruments and Transport equip.	297	307	495	480	4.6	4.1	4.4	3.9	60.0	63.9					
7. Textiles, Yarn, Cotton etc.	139	162	144	164	2.2	2.2	1.3	1.3	96.5	98.8					
8. Rubber and its products	128	115	132	118	2.0	1.6	1.2	1.0	97.0	97.5					
9. Oilfats	72	242	72	242	1.1	3.3	0.6	2.0	100.0	100.0					
10. Wood	81	112	117	155	1.3	1.5	1.0	1.3	69.2	72.2					
11. Others	2801	3215	4908	5695	43.8	43.1	43.8	46.3	57.1	56.4					
Total Imports*	6410	7455	11199	12293	100.0	100.0	100.0	100.0	57.2	60.6					
ALL MAJOR PORTS	8278	9651	13408	14775					61.7	65.3					

* 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.

PORT : KANDLA

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

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	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	Col.4	Col.5	1995-96	1996-97
1	2	3	4	5	6	7	8	9	10	11				
EXPORT														
1. Textiles, Cotton, Yarn etc.	4	4	4	4	0.7	0.5	0.2	0.2	100.0	100.0				
2. Metal & Metal products	3	3	3	3	0.5	0.4	0.1	0.1	100.0	100.0				
3. Tea & Coffee	-	-	-	-	-	-	-	-	-	-				
4. Foodgrains and other Cereals.	151	140	1795	1237	25.4	18.5	72.3	52.5	8.4	11.3				
5. Fish, shrimps and other marine products	24	46	24	46	4.0	6.1	1.0	2.0	100.0	100.0				
6. Fodder	3	4	4	4	0.5	0.5	0.2	0.2	75.0	100.0				
7. Fruits & Vegetables.	-	-	-	-	-	-	-	-	-	-				
8. Spices	2	3	2	3	0.3	0.4	0.1	0.1	100.0	100.0				
9. Hosiery, Handkerchiefs and Millinery.	5	7	5	7	0.9	0.9	0.2	0.3	100.0	100.0				
10. Machinery, Instruments Transport equipments.	15	19	15	20	2.5	2.5	0.6	0.8	100.0	95.0				
11. Drugs and Medicines.	-	-	-	-	-	-	-	-	-	-				
12. Dyes and Colours.	-	-	-	-	-	-	-	-	-	-				
13. Oil seeds, fats etc.	34	40	38	59	5.7	5.3	1.5	2.5	89.5	67.8				
14. Chemicals	15	16	15	16	2.5	2.1	0.6	0.7	100.0	100.0				
15. Others	339	476	577	958	57.0	62.8	23.2	40.6	58.8	49.7				
Total Export	595	758	2482	2357	100.0	100.0	100.0	100.0	24.0	32.2				

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 : KANDLA

General Cargo (000T)											Level of Containerization		
Commodities	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.5 1996-97		
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	Col.2 1995-96				
1	2	3	4	5	6	7	8	9	10	11			
IMPORT													
1. Iron & Steel	113	126	329	350	30.9	29.9	35.7	38.5	34.3	36.0			
2. Metal & Metal Products.	12	14	12	14	3.3	3.4	1.3	1.5	100.0	100.0			
3. Chemicals	4	6	4	6	1.1	1.4	0.5	0.7	100.0	100.0			
4. Paper, Newsprints etc.	1	1	1	1	0.3	0.2	0.1	0.1	100.0	100.0			
5. Plastic & its products	59	68	105	107	16.1	16.2	11.7	11.8	56.2	63.6			
6. Machinery/Instrument and Transport equipments.	3	4	73	36	0.8	1.0	8.1	4.0	4.1	11.1			
7. Textiles,cotton,yarn etc.	2	3	2	3	0.5	0.7	0.2	0.3	100.0	100.0			
8. Hair and wool	-	-	-	-	-	-	-	-	-	-			
9. Rubber and its products.	1	1	1	1	0.3	0.2	0.1	0.1	100.0	100.0			
10.Oil, fats etc.	-	-	-	-	-	-	-	-	-	-			
11.Woodpulp.	-	-	-	-	-	-	-	-	-	-			
12.Foodgrains & other cereals.	1	1	13	5	0.3	0.2	1.5	0.6	7.7	20.0			
13.Industrial alcohols & sprits(non-potable)	-	-	-	-	-	-	-	-	-	-			
14.Drugs & Medicine.	-	-	-	-	-	-	-	-	-	-			
15.Fertilizers	-	-	-	-	-	-	-	-	-	-			
16.Fertilizers Raw Material	-	-	-	-	-	-	-	-	-	-			
17.Others	170	197	357	385	46.4	46.8	39.8	42.4	47.6	51.2			
Total Imports	366	421	897	908	100.0	100.0	100.0	100.0	40.8	46.4			

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 Cargo	Total General Cargo	% Share of commodities in Total Container Cargo		% Share of commodities in Total General Cargo		% of container Cargo to General Cargo							
			1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	Col.4 1995-96	Col.5 1996-97	Col.2 x100	Col.3 x100
EXPORT														
1. Textiles, Cotton, Yarn etc.	94	174	102	176	3.3	5.2	2.3	3.9	92.2	98.9				
2. Metal & Metal products	185	220	226	252	6.5	6.6	5.2	5.6	81.8	87.3				
3. Tea & Coffee	24	16	24	18	0.8	0.5	0.6	0.4	100.0	88.9				
4. Foodgrains and other Cereals.	73	229	117	445	2.6	6.9	2.7	9.8	62.4	51.5				
5. Fish, shrimps and other Marine products	3	9	3	9	0.1	0.3	0.1	0.2	100.0	100.0				
6. Fodder	220	334	458	579	7.7	10.0	10.5	12.7	48.0	57.7				
7. Fruits & Vegetables.	183	218	305	343	6.4	6.5	7.0	7.5	60.0	63.6				
8. Spices	40	49	52	55	1.4	1.5	1.2	1.2	76.9	89.1				
9. Hosiery, Handkerchiefs and Millinery.	100	80	106	81	3.5	2.4	2.4	1.8	94.3	98.8				
10. Machinery, Instruments Transport equipments.	56	113	60	123	2.0	3.4	1.4	2.7	93.3	91.9				
11. Drugs and Medicines.	51	54	53	55	1.8	1.6	1.2	1.2	96.2	98.2				
12. Dyes and Colours.	40	49	42	50	1.4	1.5	1.0	1.1	95.2	98.0				
13. Oil seeds, fats etc.	5	2	6	2	0.2	0.1	0.1	0.1	83.3	100.0				
14. Chemicals	164	204	164	206	5.7	6.1	3.8	4.5	100.0	99.0				
15. Others	1619	1577	2630	2150	56.6	47.4	60.5	47.3	61.6	73.3				
Total Export	2857	3328	4348	4544	100.0	100.0	100.0	100.0	65.7	73.2				

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 : 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 Col.2 Col.3 ----- x100 ----- x100
	1995-96	1996-97	1995-96	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97		
1	2	3	4	5	6	7	8	9	10	11			
IMPORT													
1. Iron & Steel	519	486	1736	1466	14.0	10.9	29.0	21.3	29.9	33.2			
2. Metal & Metal Products.	311	200	539	290	8.4	4.5	9.0	4.2	57.7	68.9			
3. Chemicals	379	485	427	555	10.2	10.9	7.2	8.1	88.8	87.4			
4. Paper, Newsprints etc.	361	507	580	730	9.7	11.4	9.7	10.6	62.2	69.4			
5. Plastic & its products	294	350	305	357	7.9	7.9	5.1	5.2	96.4	98.0			
6. Machinery/Instrument and Transport equipments.	195	220	289	330	5.3	4.9	4.8	4.8	67.5	66.7			
7. Textiles,cotton,yarn etc.	95	126	97	127	2.6	2.6	1.6	1.6	97.9	99.2			
8. Hair and wool	-	1	-	1	-	Neg.	-	Neg.	-	100.0			
9. Rubber and its products.	67	67	70	69	1.8	1.5	1.1	1.0	95.7	97.1			
10.Oil, fats etc.	72	242	72	242	2.0	5.4	1.2	3.5	100.0	100.0			
11.Woodpulp.	71	96	71	96	1.9	2.2	1.2	1.4	100.0	100.0			
12.Foodgrains & other cereals.	167	254	167	254	4.5	5.7	2.8	3.7	100.0	100.0			
13.Industrial alcohols & spirits(non-potable)	1	-	1	-	neg.	-	neg.	-	100.0	-			
14.Drugs & Medicine.	5	4	5	4	0.1	0.1	0.1	0.1	100.0	100.0			
15.Fertilizers	34	27	34	27	0.9	0.6	0.6	0.4	100.0	100.0			
16.Fertilizers Raw Material	261	272	261	272	7.0	6.1	4.4	3.9	100.0	100.0			
17.Others	876	1120	1324	2065	23.7	25.1	22.2	30.0	66.2	54.2			
Total Imports	3708	4457	5276	6885	100.0	100.0	100.0	100.0	62.0	64.7			

PORT : COCHIN

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)				% Share of commodities in Total Container Cargo		% Share of commodities in Total General Cargo		% of container Cargo to General Cargo		Level of Containerisation	
	Container Cargo	Total General Cargo										
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	Col.4 1995-96	Col.5 1996-97	Col.2 x100	Col.3 x100
1. Textiles, Cotton, Yarn etc.	29	26	29	26	4.5	3.6	4.3	3.5	100.0	100.0		
2. Tea & Coffee	184	187	186	197	28.7	26.0	27.6	26.5	98.9	94.9		
3. Fish, shrimps and other marine products.	84	101	84	101	13.1	14.0	12.5	13.6	100.0	100.0		
4. Spices	31	54	31	54	4.8	7.5	4.6	7.3	100.0	100.0		
5. Cashew kernels	37	46	37	46	5.8	6.4	5.5	6.2	100.0	100.0		
6. Chemicals	23	20	23	20	3.6	2.8	3.4	2.7	100.0	100.0		
7. Gold Products	45	45	45	45	7.0	6.3	6.7	6.0	100.0	100.0		
8. Others	208	240	239	254	32.5	33.4	35.4	34.2	87.0	94.5		
Total Export	641	719	674	743	100.0	100.0	100.0	100.0	95.1	96.8		

EXPORT

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	
	1995-96	1996-97	1995-96	1995-96	1995-97	1995-96	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	Col.2	Col.3
1	2	3	4	5	6	7	8	9	10	11			Col.4	Col.5
IMPORT														
1. Iron & Steel Metal & Metal Products.	19	31	22	59	12.3	12.5	6.9	11.8	86.4	52.5				
2. Chemicals.	4	6	7	6	2.6	2.4	2.2	1.2	51.1	100.0				
3. Paper, Newsprints etc.	1	3	26	14	0.6	1.2	8.1	2.8	3.8	21.4				
4. Machinery	3	3	3	3	1.9	1.2	0.9	0.6	100.0	100.0				
5. Rubber and its products.	12	9	12	9	7.8	3.6	3.8	1.8	100.0	100.0				
6. Cashew nuts	-	11	10	58	-	4.5	3.1	11.5	-	18.9				
7. Other	116	185	240	353	74.8	14.6	75.0	70.3	48.3	52.4				
Total Imports	155	248	320	502	100.0	100.0	100.0	100.0	48.4	49.4				

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)					% Share of commodities in Total					% Share of Commodities in Total					Level of Containerisation				
	Container Cargo		Total General Cargo		C	Container Cargo		General Cargo		C	Container Cargo		General Cargo		C	Col. 4		Col. 5		C
	1995-96	1996-97	1995-96	1996-97		1995-96	1996-97	1995-96	1996-97		1995-96	1996-97	1995-96	1996-97		1995-96	1996-97	1995-96	1996-97	
1	2	3	4	5	6	7	8	9	10	11										
EXPORT																				
1. Cotton Yarn, etc.	71	88	71	88	14.9	14.0	5.8	6.2	100.0	100.0										
2. Tea & Coffee	17	76	17	76	3.6	12.1	1.4	5.4	100.0	100.0										
3. Frozen Cargo	14	16	14	16	2.9	2.5	1.1	1.1	100.0	100.0										
4. Garmet Sand	24	20	39	36	5.0	3.2	3.2	2.5	61.5	55.5										
5. Cashew Kernels	35	38	35	38	7.3	6.0	2.9	2.7	100.0	100.0										
6. Others	317	392	1047	1161	66.3	62.2	85.6	82.1	30.3	33.8										
Total Export	478	630	1223	1415	100.0	100.0	100.0	100.0	39.1	44.5										
IMPORT																				
1. Iron & Steel Metal & Metal Products	-	-	-	-	-	-	-	-	-	-										
2. Raw Cashew	48	51	210	138	17.1	18.8	29.0	24.6	32.9	36.9										
3. Others	232	220	515	424	82.9	81.2	71.0	75.4	45.0	51.9										
Total Imports	280	271	725	562	100.0	100.0	100.0	100.0	38.6	48.2										

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 : CHENNAI

Commodities	General Cargo (000T)										
	Container Cargo			Total General Cargo			% Share of commodities in Total Container Cargo			% Share of commodities in Total General Cargo	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	Level of Containerisation % of container Cargo to General Cargo Col.2 Col.3
1	2	3	4	5	6	7	8	9	10	11	Col.4 Col.5 1995-96 1996-97
EXPORT											
1. Textiles, Cotton Yarn etc.	249	267	250	267	19.6	16.3	13.0	12.3	99.6	100.0	
2. Metal & Metal Products	83	110	94	119	6.5	7.5	4.9	5.5	88.3	92.4	
3. Tea & Coffee	6	8	6	8	0.5	0.5	0.3	0.4	100.0	100.0	
4. Garnite blocks & its other materials	211	274	692	841	16.6	18.6	35.5	36.6	30.9	32.6	
5. Fish, shrimps and other marine products	29	46	29	47	2.3	3.2	1.5	2.2	100.0	97.9	
6. Fruits & Vegetables	54	45	82	61	4.2	3.1	4.3	2.8	65.8	73.8	
7. Machinery, Instruments & transport equipment	63	55	69	59	5.0	3.8	3.6	2.7	91.3	93.2	
8. Oil seeds, Fats etc.	45	58	51	67	3.5	3.9	2.7	3.1	88.2	86.6	
9. Chemicals	85	100	95	106	6.7	6.9	4.9	4.6	89.5	94.3	
10. Others	446	496	563	602	35.1	34.0	29.3	27.6	79.2	82.4	
Total Exports	1271	1459	1921	2177	100.0	100.0	100.0	100.0	66.2	67.0	

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)				% Share of comm-odities in Total Container Cargo				% of container Cargo to General Cargo			
	Container Cargo		Total General Cargo		Container Cargo		General Cargo		Col.2 Col.3		Col.4 Col.5	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
1	2	3	4	5	6	7	8	9	10	11		
IMPORT												
1. Iron & Steel Metal & Metal Products	152	158	429	471	14.6	14.3	27.8	28.2	35.4	33.5		
2. Chemicals	117	148	128	156	11.3	13.4	8.3	9.3	91.4	94.9		
3. Paper, Paper products etc.	76	88	78	90	7.3	8.0	5.1	5.4	97.4	97.8		
4. Wheat Flour, other cereals & products	25	28	55	40	2.4	2.5	3.6	2.4	45.5	70.0		
5. Plastic & its' products	90	91	91	100	8.7	8.2	5.9	6.0	98.9	91.0		
6. Machinery/Instruments and Transport equipments	96	80	130	111	9.2	7.2	8.4	6.6	73.8	72.1		
7. Textiles, Cotton, Hair and Wool etc.	42	33	45	34	4.1	3.0	2.9	2.0	93.3	97.1		
8. Rubber and its products	48	38	49	39	4.6	3.4	3.2	2.3	98.0	97.4		
9. Wood Pulp	10	16	46	59	1.0	1.5	3.0	3.5	21.7	27.1		
10. Drugs & Medicines	10	11	10	11	1.0	1.0	0.6	0.7	100.0	100.0		
11. Plantation commodities	14	10	14	11	1.3	0.9	0.9	0.7	100.0	90.9		
12. Others	358	404	466	550	34.5	36.6	30.3	32.9	76.8	73.4		
Total Imports	1038	1105	1541	1672	100.0	100.0	100.0	100.0	67.4	66.1		

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)						Level of Containerisation				
	Container Cargo		Total General Cargo		% Share of commodities in Total		% of container Cargo to General Cargo				
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	
1	2	3	4	5	6	7	8	9	10	11	
EXPORT											
1. Shrimps/Reefer Cargo	29	30	29	30	42.6	27.0	1.4	1.7	100.0	100.0	
2. Alumina Ingots	24	52	38	55	35.3	46.9	1.8	3.1	63.2	94.5	
3. Others	15	29	2020	1699	22.1	26.1	96.8	95.2	0.7	1.7	
Total Exports	68	111	2087	1784	100.0	100.0	100.0	100.0	3.3	6.2	
IMPORT											
Total Imports	25	56	274	240	100.0	100.0	100.0	100.0	9.1	23.3	

PORT : HALDIA

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)					% Share of comm- odities in Total					Level of Containerisation		
	Container Cargo		Total General Cargo			Container Cargo		General Cargo			% of container Cargo to General Cargo		
	1995-96	1996-97	1995-96	1996-97		1995-96	1996-97	1995-96	1996-97		Col.4 1995-96	Col.5 1996-97	
	1	2	3	4	5	6	7	8	9	10		11	
EXPORT													
1. Tea & Coffee	31	36	32	37		68.9	36.4	12.5	10.7		96.9	97.3	
2. Jute & Jute Products	2	13	2	13		4.4	13.1	0.8	3.8		100.0	100.0	
3. Cast Iron goods	-	-	-	-		-	-	-	-		-	-	
4. Mica	12	50	222	296		26.7	50.5	86.7	85.5		5.4	16.9	
5. Others	-	-	-	-		-	-	-	-		-	-	
Total Export	45	99	256	346		100.0	100.0	100.0	100.0		17.6	28.6	
IMPORT													
1. Iron & Steel, Metal & its Products	4	-	5	3		66.7	-	20.0	7.9		80.0	-	
2. Chemicals	-	-	-	-		-	-	-	-		-	-	
3. Machinery	-	-	-	-		-	-	-	-		-	-	
4. Others	2	18	20	35		33.3	100.0	80.0	92.1		10.0	51.4	
Total Import	6	18	25	38		100.0	100.0	100.0	100.0		24.0	47.4	

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		% of container Cargo to General Cargo	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	Col.2 Col.1	Col.3 Col.2
1	2	3	4	5	6	7	8	9
EXPORT								
1. Tea & Coffee	69	67	69	73	7.0	6.3	3.7	4.2
2. Jute & Jute Products	132	159	228	226	13.4	14.8	12.4	13.0
3. Cast Iron goods	109	114	128	140	11.1	10.6	6.9	8.0
4. Mica	30	26	30	26	3.1	2.4	1.6	1.5
5. Iron & Steel Machinery	179	212	373	406	18.2	19.8	20.2	23.3
6. Others	463	494	1019	873	47.2	46.1	55.2	50.0
Total Export	982	1072	1847	1744	100.0	100.0	100.0	100.0
IMPORT								
1. Iron & Steel Machinery	115	150	204	264	13.8	17.1	14.2	17.8
2. Chemicals	68	101	68	101	8.2	11.5	4.7	6.8
3. Others	649	628	1167	1121	78.0	71.4	81.1	75.4
Total Import	832	879	1439	1486	100.0	100.0	100.0	100.0

2.5.10 Inland Container Movement (P)

Port	Year	Incoming To Port				Outgoing From Port				Total
		: TEUS	: By Rail	: Tonnes	: TEUS	: By Road	: Tonnes	: TEUS	: By Rail	: Tonnes
Calcutta	1995-96	248	4467	50548	741024	122	2054	47923	552991	98841
	1996-97	195	2787	45604	575258	213	2886	41037	382575	87049
Haldia	1995-96	2440	34918	3386	37773	493	1134	815	7711	7134
	1996-97	4022	55110	2593	24478	1651	16146	187	1281	8453
Visakhapatnam	1995-96	475	...	1077	...	240	...	641	...	2433
	1996-97	...	...	...	...	...	...	...	...	...
Chennai	1995-96	13825	159678	99260	1110952	9789	117118	104446	925491	227320
	1996-97	12747	147988	116462	1310938	6449	74796	120487	1030165	256145
Tuticorin	1995-96	345	630	15548	147287	537	5649	14761	79062	31191
	1996-97	-	-	9600	126202	-	-	26039	113279	35639
Cochin	1995-96	7046	70564	43262	570436	1000	6363	44665	148637	95973
	1996-97	10654	122425	46927	596309	734	5373	53145	243493	11460
Mormugao	1995-96	-	-	75	284	-	-	88	381	163
	1996-97	-	-	610	3412	-	-	620	2215	1230
J.L.Nehru	1995-96	38643	463716	...	...	30103	313974	...	...	68746
	1996-97	51798	621576	166976	1997712	46496	557952	121966	889272	387236
Mumbai	1995-96	34348	453313	1875	26056	38830	499171	1748	21845	76801
	1996-97	30605	416839	2563	35926	42175	556553	4452	59941	79795
Kandla	1995-96	3315	28101	66	548	3099	7694	92	360	6572
	1996-97	3149	27616	221	1840	3540	9541	221	2526	7131
Total	1995-96	100685	1215387	215097	2634360	84213	948157	215179	1736478	615174
	1996-97	113170	1394341	391556	4672075	101258	1223157	368154	2724750	974136
										10014323

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.

2. There is no container traffic at Paradip and New Mangalore Ports.

2.5.11 Inland Container Depot Movement Of Containers
At Major Ports

	1995-96				1996-97				(TEUs)
	ICD Movement				ICD Movement				
PORT	Moved in	Moved out	Total	Container Traffic	Moved in	Moved out	Total	Container Traffic	
Calcutta	248	122	370	121312	91	178	269	132695	
Haldia	2440	493	2933	38430	3954	1651	5605	88810	
Paradip	-	-	-	-	-	-	-	-	
Visakhapatnam	1472	883	2355	8446	1879	1452	3331	13117	
Chennai	13825	9789	23614	2275230	12747	6449	19196	2565030	
Tuticorin	-	-	-	68619	-	-	-	88769	
Cochin	7857	1045	8902	960440	10654	547	11201	1121450	
New Mangalore	-	-	-	-	-	-	-	-	
Mormugao	-	-	-	2138	-	-	-	3383	
J.L.Nehru	38643	31417	70060	3391360	46496	51798	98294	4231480	
Mumbai	39102	32706	71808	5175330	46627	33168	79795	5834150	
Kandla	3380	3191	6571	64724	3149	3540	6689	77437	
All Ports	106967	79646	186613	265239	125597	98783	224380	1699493	

Source : Administrative Report
@ Includes transshipment.

2.5.12 Container Handling Rate - (P)

Port	Year	Quay Side Gantry Crane		Rail Mounted Gantry Crane		Output per hookshift Tonnes
		Idle Time	Worked hr	Idle time	Worked hr	
Calcutta	1995-96	-	-	-	-	517.0
	1996-97	-	-	-	-	561.0
Haldia	1995-96	-	-	-	4.4	35.0 TEU
	1996-97	-	-	-	4.8	38.0 TEU
Visakhapatnam	1995-96	-	-	97.5	0.2	159.0
	1996-97	-	-	97.2	0.3	149.0
Chennai	1995-96	38.5	10.4	16.9	-	867.0
	1996-97	35.9	11.4	17.8	-	862.0
Cochin	1995-96	18.0	13.0	16.0	-	...
	1996-97	66.8	4.3	13.0	-	...
J.L.Nehru	1995-96	2.7	12.5	12.8	3.7	3.9
	1996-97	53.4	8.5	18.3	4.4	9.2
Mumbai	1995-96	23.7	8.4	10.9	-	312.0
	1996-97	52.7	5.5	11.5	-	360.0

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 and Cochin (95-96) 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 and Tuticorin the Port does not own Quayside Gantry Crane or Rail Mounted Gantry Crane.

2.5.13 Availability And Utilisation Of Container Handling Equipments - (P)

PORT	Year	Quay Side Gantry Crane				R.T. Gantry Crane				Rail Mounted G. Crane			
		No.	% availa- bility	Utilisation of Availa- bility	Hrs.	No.	% availa- bility	Utilisation of Availa- bility	Hrs.	No.	% availa- bility	Utilisation of Availa- bility	Hrs.
Calcutta	1995-96	-	-	-	-	3	54.1	67.3	36.4	-	-	-	-
	1996-97	-	-	-	-	3	78.8	41.8	32.9	-	-	-	-
Haldia	1995-96	-	-	-	-	-	-	-	-	1	93.1	15.4	14.4
	1996-97	-	-	-	-	-	-	-	-	1	83.5	28.2	23.6
Visakhapatnam	1995-96	-	-	-	-	-	-	-	-	2	95.5	2.4	2.3
	1996-97	-	-	-	-	-	-	-	-	2	86.9	2.8	2.4
Chennai	1995-96	4	89.6	48.1	43.1	8	83.6	50.7	42.4	-	-	-	-
	1996-97	4	88.8	49.7	44.1	8	84.7	46.5	39.4	-	-	-	-
Tuticorin	1995-96	-	-	-	-	-	-	-	-	-	-	-	-
	1996-97	-	-	-	-	-	-	-	-	-	-	-	-
Cochin	1995-96	2	60.7	45.1	27.4	4	55.0	33.0	18.2	-	-	-	-
	1996-97	2	91.1	33.2	30.2	3	69.2	33.1	22.9	-	-	-	-
J.L.Nehru	1995-96	3	65.6	95.9	63.6	8	46.7	96.2	44.9	1	67.2	95.2	64.0
	1996-97	3+3	52.9	64.6	34.1	8+6	71.4	39.7	28.3	1+1	75.5	96.5	72.9
Mumbai	1995-96	2	74.3	54.6	48.6	3	67.6	49.7	33.6	-	-	-	-
	1996-97	2	75.5	48.3	36.5	3	67.7	44.4	30.1	-	-	-	-

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

Available hours excludes hours lost due to maintenance, breakdown and recess etc.

(2) % Availability = (Total Available Hours/Total Possible Hours) * 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 (P) (Contd)

(Percentage)

PORT	Year	Tractor		Top Lift Trucks					
		No. & availability	Utilisation of Available Hrs.	No. & availability	Utilisation of Available Hrs.				
Calcutta	1995-96	17	53.5	34.7	18.6	34*	70.6	34.2	24.1
	1996-97	17	42.5	41.9	17.8	2*	55.9	38.7	21.6
Haldia	1995-96	1	93.7	6.1	5.7	8*	94.4	11.4	10.8
	1996-97	1	77.6	1.2	0.9	7*	87.9	6.1	5.3
Visakhapatnam	1995-96	3*	72.1*	0.6*	0.5*	2	87.1	3.8	3.3
	1996-97	3*	76.2*	1.4*	1.1*	2	76.6	6.7	5.1
Chennai	1995-96	33	89.0	34.3	30.5	7	92.8	31.1	21.5
	1996-97	33	83.0	38.6	32.1	96	87.3	31.0	27.1
Tuticorin	1995-96	-	-	-	-	5	86.3	21.8	18.8
	1996-97	-	-	-	-	5	95.3	24.2	23.0
Cochin	1995-96	22	50.4	51.9	26.2	6	48.7	42.3	20.6
	1996-97	19	85.7	41.5	35.6	5	67.3	39.7	26.7
J.L.Nehru	1995-96	19	54.9	69.1	48.9	-	-	-	-
	1996-97	19+19	78.1	49.9	39.0	-	-	-	-
Mumbai	1995-96	-	-	-	-	-	-	-	-
	1996-97	-	-	-	-	29	78.3	32.2	25.2

* 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 does not own any Container handling equipment.

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

PORT	1989		1990		1991		1992		1993		1994		1995		1996		1997	
	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU
HONG KONG	1	4464	2	5101	2	6162	1	7972	1	9204	1	11050	1	12529	1	13280	1	14500
SINGAPORE	2	4360	1	5224	1	6354	2	7560	2	9046	2	10400	2	11830	2	12950	2	14120
KAOHSIUNG	4	3383	4	3495	3	3913	4	3961	3	4636	3	4900	3	5053	3	5063	3	5693
ROTTERDAM	3	3603	3	3667	4	3766	3	4123	4	4161	4	4539	4	4789	4	5000	4	5340
BUSAN	6	2159	6	2348	5	2694	5	2751	5	3071	5	3825	5	4503	5	4684	5	5286
KOBE	5	2459	5	2596	6	2635	6	2608	6	2696	6	2787	6	2844	6	2857	6	3100
HAMBURG	10	1728	8	1969	7	2189	8	2268	7	2486	7	2727	7	2844	7	3065	7	3337
LOS ANGELES	7	2057	7	2116	8	2038	7	2289	8	2376	8	2519	8	2555	8	2683	8	2900
LONG BEACH	11	1575	12	1828	13	1768	13	1829	10	2079	9	2574	9	2740	9	3067	9	3505
NEWYORK/NEW JERSEY	8	1988	9	1872	10	1865	9	2104	11	1973	13	2034	11	2219	13	2215	12	2470
YOKOHAMA	12	1508	11	1648	11	1796	11	1887	9	2168	10	2317	8	2757	10	2400	14	2330
KEELING	9	1770	10	1828	9	2005	10	1941	13	1856	12	2047	12	2165	14	2109	19	1981
ANTWERP	13	1474	14	1549	14	1761	12	1836	12	1876	11	2208	10	2340	9	2654	8	2950
SAN JUAN	16	1265	16	1381	15	1584	15	1577	16	1555	16	1598	17	1600	19	1641	-	-
DUBAI	-	-	-	-	18	1255	17	1482	14	1679	14	1882	13	2070	12	2247	10	2600
FELIXSTOWE	15	1368	15	1436	16	1434	16	1543	15	1639	15	1747	14	1924	15	2065	13	2348
TOKYO	14	1439	13	1555	12	1784	14	1729	17	1538	17	1509	15	2178	11	2306	15	2322
BREXEN	17	1212	17	1198	17	1277	18	1315	18	1355	18	1502	18	1532	-	-	-	-
OAKLAND	18	1070	19	1124	19	1195	20	1287	19	1305	20	1491	19	1528	-	-	-	-
BANGKOK	-	-	-	-	20	1171	19	1303	20	1274	-	-	-	-	-	-	-	-
SEATTLE	19	1041	18	1171	-	-	-	-	-	-	-	-	-	-	-	-	16	2225
TACOMA	20	925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHARLESTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANILA	-	-	20	1039	-	-	-	-	-	-	19	1501	16	1691	18	1913	18	2009
SHANGHAI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TIANJING PRIOK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL :TOP 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GLOBAL	-	4088	-	4415	-	4846	-	5365	-	5793	-	65157	-	70179	-	74919	-	82416
PERCENT SHARE:TOP	-	78417	-	85579	-	93646	-	102906	-	112439	-	125912*	-	135880*	-	144469*	-	158500*
	-	52.09	-	51.58	-	51.95	-	51.86	-	51.56	-	51.75	-	51.65	-	51.86	-	52.00

* Estimates
Source: IPA

2.5.15 Total Containers Handled By CONCOR

REGION	YEAR	LDD	INTERNATIONAL			TOTAL	DOMESTIC			TOTAL HANDLING
			OUTWARD	TOTAL	LDD		INWARD	TOTAL	DSO	
			MTY				MTY	INTER.	TOTAL	IRS
NORTHERN	1996-97	85792	4520	90312	53816	40054	93870	184182	86877	244
	1997-98	98570	3424	101994	66909	40255	107164	209158	75774	177
WESTERN	1996-97	32396	29348	61744	14023	35285	49308	111052	97484	1850
	1997-98	38413	25288	63701	25979	37257	63236	126937	39883	502
SOUTHERN	1996-97	26977	24417	51394	32731	22489	55220	106614	15075	102
	1997-98	33878	21767	55645	36096	25009	61105	116750	18276	83
SOUTHCENTRAL	1996-97	6104	895	6999	1973	5123	7096	14095	8826	45
	1997-98	5658	521	6179	1806	3761	5567	11746	10074	85
EASTERN	1996-97	2619	3138	5757	132	2909	3041	8798	62230	6068
	1997-98	4585	3358	7943	695	3700	4395	12338	48078	2903
CENTRAL	1996-97	3952	2681	6633	5698	2221	7919	14552	33320	1083
	1997-98	185056	57039	242095	137183	112203	249386	491481	225405	4833
ALL REGION	1996-97	153888	62318	216206	102675	105860	208535	424741	270492	8309
	1997-98	185056	57039	242095	137183	112203	249386	491481	225405	4833

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

2.5.16 Containers Handled By CONCOR At Ports - 1997-98

	(TEUs)								
	Calcutta	Haldia	Chennai	Tuticorin	Cochin	J.L.Nehru	Mumbai	Kandla	All Ports
Export									
Loaded	58	4514	21060	541	8968	83243	50697	-	169081
Empty	-	256	1556	-	1624	1441	3197	1893	9967
Total	58	4770	22616	541	10592	84684	53894	1893	179048
Import									
Loaded	-	4825	22812	186	697	60008	33748	1234	123510
Empty	-	849	2136	762	5355	33659	13880	1804	58445
Total	-	5674	24948	948	6052	93667	47628	3038	181955
Grand Total	58	12356	47564	1489	16644	178351	101522	4931	362915

Source : Container Corporation of India.

2.6.1 Selected Port Performance Indicators - By Type Of Vessels

Item/Year	Category of Vessels						
	Dry-Bulk (Mech.)	Dry-Bulk (Conv.)	Liquid Bulk	Break- Bulk	Container vessels	All Types	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1. No. of vessels sailed							
1995-96	997	1810	4669	2429	2418	12300	
1996-97	1104	1786	5016	2514	2738	13119	
2. Av. pre-berthing waiting time(days)							
1995-96	2.1	5.1	3.9	4.6	1.7	3.6	
1996-97	2.0	4.3	3.3	4.0	1.6	3.1	
3. Av. turn round time (days)							
1995-96	6.8	12.6	5.4	11.7	4.6	7.7	
1996-97	6.3	11.7	5.6	11.5	4.7	7.5	
4. Percentage of idle time at berth to time at working berth							
1995-96	35	29	32	40	28	34	
1996-97	38	29	34	43	32	36	
5. Output per ship berth day (tonnes)							
1995-96	10736	2702	11153	736	2452	4047	
1996-97	10866	3190	11222	779	2719	4497	

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 Delected Port Performance Indicators - by Port

Item	Kandla	Mumbai	Mormu- gao	New Man- galore	Cochin	Anti- corin	Chennai	Visakha- patnam	Paradip	Haldia	Cal- cutta	J.L. Nehru Ports	All Ports
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1. No. of vessels sailed													
1995-96	1305	2520	631	505	756	939	1605	1329	523	836	805	546	12300
1996-97	1527	2616	507	644	784	905	1681	1437	557	947	874	640	13119
2. Av. pre-berthing waiting time(days)													
1995-96	9.9	4.2	2.8	1.7	1.2	2.3	3.4	2.4	2.5	2.6	1.4	2.6	3.6
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
3. Av. turn round time (days)													
1995-96	14.8	10.1	6.3	5.1	4.0	5.9	7.5	7.6	6.3	6.8	8.6	5.7	7.7
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
4. % of Idle time at berth to time at working berth													
1995-96	19	35	31	51	47	40	40	25	24	48	48	24	34
1996-97	19	36	29	49	37	40	37	22	28	50	50	27	36
5. Output per ship berth day (tonnes)													
1995-96	5223	2576	8678	5587	5698	2837	4790	5493	5929	5885	1188	3585	4047
1996-97	7066	2605	8540	7172	5438	3026	5131	6696	6406	5855	1188	2987	4497

2.6.3 Number of Vessels Sailed by Type and Port.

Port	Container		Break Bulk		Dry Bulk		Liquid Bulk		All Types	
	95-96	96-97	95-96	96-97	(Mech. Operation)	(Conv. Operation)	95-96	96-97	95-96	96-97
Calcutta	246	286	236	239	-	18	14	306	336	805 < a
Haldia	44	98	42	45	150	142	166	480	467	8/4 < a
Paradip	-	-	6	11	68	298	283	151	187	947 < e
Visakhapatnam	40	63	300	242	119	376	400	494	600	523
Chennai	381	397	299*	346**	47	396	378	482	516	1329
Tuticorin	181	182	333	294	173	124	101	128	137	1605
Cochin	265	279	73	93	16	17	25	385	369	939
New Mangalore	-	-	122	145	175 < c	-	-	208	336	756
Mormugao	22	30	10	12	182	115	92+	302	197	505
J.L.Nehru	357	409	91 < b	80 < b	45	39 < g	-	14	64	631
Mumbai	776	863	666	702	-	148	112	930	939	546
Kandla	106	130	251	305	22	137	215	789	868	2520
All Ports	2418	2738	2429	2514	997	1104	1810	4669	5016	12300
										13119

< a Vessels with dry bulk as import cargo and Break Bulk as export cargo have been counted once

< b Vehicles Carrier. < c Includes Conventional also.

< d 2 Vessels worked both as Break bulk and container. One vessel worked both as Dry bulk and Break bulk.

< e 31 Dry bulk vessels worked both in Mechanical and Conventional methods.

< f One vessel worked both as Dry bulk(conv.) and Break bulk.

* Includes 39 other vessels < g Includes 30 other vessels

** Includes 15 lash vessels also + Two vessels are double counted.

Note: The figures here pertain to only Ships which left after Cargo operations.

2.6.4 Average Pre-berthing Detention By Type and Port.

Port	Container		Break Bulk		Dry Bulk (Mech.)		Dry Bulk (conv.)		Liquid Bulk		All Types	
	95-96	96-97	95-96	96-97	95-96	96-97	95-96	96-97	95-96	96-97	95-96	96-97
Calcutta	0.8	0.5	1.4	0.8	-	-	2.9	1.0	1.6	1.6	1.4	1.0
Haldia	0.1	0.2	1.9	2.0	1.1	0.8	3.8	1.9	2.9	3.3	2.6	2.2
Paradip	-	-	0.9	1.7	2.8	1.2	2.8	0.9	1.9	2.9	2.5	1.6
Visakhapatnam	0.5	0.5	2.6	1.4	1.6	1.0	5.1	3.5	0.6	0.7	2.4	1.6
Chennai	1.4	1.7	3.1	2.8	0.3	0.9	4.7	5.8	4.6	5.8	3.4	4.1
Tuticorin	0.8	0.6	3.7	2.6	1.3	1.2	3.1	2.2	1.3	0.9	2.3	1.6
Cochin	0.6	0.6	0.5	0.5	1.3	1.1	0.3	0.3	1.8	1.7	1.2	1.1
New Mangalore	-	-	0.6	0.3	2.5 \$	3.4 \$	-	-	1.7	1.1	1.7	1.5
Mormugao	Neg.	0.1	1.9	3.9	2.4	3.3	0.6	1.2	4.1	1.8	2.8	2.2
J.L.Nehru	1.9	1.5	0.6 \$	1.08	7.4	5.1	...	-	1.6	2.6	2.6	2.1
Mumbai	2.5	2.8	5.1	6.5	-	-	10.7	8.8	4.0	4.4	4.2	4.6
Kandla	3.4	2.6	17.3	9.8	4.5	2.2	12.6	10.5	8.1	5.5	9.9	6.8
All Ports	1.7	1.6	4.6	4.0	2.1	2.0	5.1	4.3	3.9	3.3	3.6	3.1

\$ Vehicles Carrier.

\$ Includes Conventional also.

2.6.4A - Average Pre-berthing Delay - Reason-wise- 1996-97

Sl. No. Category Of Ships	No. Of Ships	Reason-wise average pre-berthing delay (in days)								Total
		Non-avail. of Berth	Non-avail. of Tug/Craft	Non-avail. of Pilot	Night Navigation	Draft Restriction	Ships Account	Others Lack Of Cargo		
Calcutta										
1. Container	288	0.01	0.04	0.04	Neg.	-	0.06	0.37	-	0.52
2. Break Bulk	239	Neg.	0.06	0.08	0.01	-	0.19	0.50	-	0.84
3. Dry Bulk	14	-	0.19	-	-	-	0.08	0.76	-	1.03
4. Liquid Bulk	336	0.20	Neg.	0.01	0.01	-	0.71	0.71	-	1.64
Total	874	0.08	0.03	0.04	0.01	-	0.35	0.54	-	1.05
Haldia										
1. Container	98	0.04	-	-	-	-	0.09	0.05	-	0.18
2. Break Bulk	45	0.80	-	0.03	-	-	1.05	0.14	-	2.02
3. Dry Bulk(M)	205	0.51	-	0.01	-	-	-	0.29	-	0.81
(C)	166	1.46	-	0.06	-	-	-	0.32	-	1.86
4. Liquid Bulk	467	0.58	-	0.07	-	-	2.35	0.28	-	3.28
Total	947	0.70	-	0.05	-	-	1.22	0.26	-	2.23
New Mangalore										
1. Container	-	-	-	-	-	-	-	-	-	-
2. Break Bulk	145	0.01	-	-	-	-	-	0.32	-	0.33
3. Dry Bulk	163	2.82	-	-	-	-	-	0.54	-	3.36
4. Liquid Bulk	336	0.66	-	-	-	-	-	0.45	-	1.11
Total	644	1.06	-	-	-	-	-	0.44	-	1.50

2.6.4A - Average Pre-berthing Delay -Reason-Wise- 1996-97(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	Draft Restriction	Ships Account	Others Lack Of Cargo	Total
Paradip										
1.	Container	-	-	-	-	-	-	-	-	-
2.	Break Bulk	11	0.08	-	-	0.07	-	-	1.58	1.73
3.	Dry Bulk(M)	76	0.96	-	-	0.09	-	0.01	0.17	1.23
	(C)	283	0.33	-	-	0.10	-	0.02	0.45	0.90
4.	Liquid Bulk	187	0.68	-	-	0.05	-	-	2.16	2.89
Total		557	0.53			0.08		0.01	1.01	1.63
Mumbai										
1.	Container	863	1.80	-	-	-	-	0.95	0.05	2.80
2.	Break Bulk	702	2.70	-	-	-	-	3.72	0.06	6.48
3.	Dry Bulk	112	4.66	-	-	-	-	4.08	0.06	8.80
4.	Liquid Bulk	939	2.16	-	-	-	-	2.24	0.05	4.45
Total		2616	2.38			-		2.14	0.05	4.57
Chennai										
1.	Container	397	0.77	-	Neg.	0.03	-	0.60	0.31	1.71
2.	Break Bulk	346	1.49	-	Neg.	0.04	-	0.76	0.53	2.82
3.	Dry Bulk(M)	44	0.56	-	Neg.	0.06	-	0.26	0.01	0.89
	(C)	378	2.36	-	Neg.	0.06	-	2.72	0.64	5.78
4.	Liquid Bulk	516	0.17	-	Neg.	0.05	-	5.32	0.27	5.81
Total		1681	1.08		Neg.	0.04		2.57	0.41	4.10

2.6.4A - Average Pre-berthing Delay - Reason-Wise- 1996-97(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	Draft Restriction	Ships Account	Others	Lack Of Cargo	Total
Cochin											
1.	Container	279	0.16	-	-	-	0.03	0.32	0.05	-	0.56
2.	Break Bulk	93	0.05	-	-	-	-	0.30	0.19	-	0.54
3.	Dry Bulk	43	0.56	-	-	-	-	0.04	0.06	-	0.66
4.	Liquid Bulk	369	1.13	-	-	-	-	0.03	0.57	0.01	1.74
Total		784	0.62	-	-	-	-	0.03	0.42	0.05	1.12
Patticoorin											
1.	Container	182	0.46	-	-	0.03	-	0.14	0.01	-	0.64
2.	Break Bulk	294	1.51	-	-	0.01	-	1.01	0.02	-	2.55
3.	Dry Bulk(M)	191	1.09	-	-	0.03	-	0.02	0.01	-	1.15
	(C)	101	1.85	-	-	0.03	-	0.29	0.01	-	2.18
4.	Liquid Bulk	137	0.41	-	-	0.09	-	0.36	0.02	-	0.68
Total		905	1.09	-	-	0.03	-	0.45	0.01	-	1.57
Mormugao											
1.	Container	30	0.02	-	-	-	-	Neg.	0.03	-	0.05
2.	Break Bulk	12	0.94	-	-	-	-	2.95	-	-	3.89
3.	Dry Bulk(M)	178	0.78	-	-	0.01	-	0.17	Neg.	2.32	3.28
	(C)	92	0.41	-	-	0.05	-	0.67	0.05	-	1.18
4.	Liquid Bulk	197	0.55	-	-	0.03	-	0.38	0.87	-	1.63
Total		507	0.58	-	-	0.03	-	0.40	0.35	0.91	2.17

2.6.4A - Average Pre-berthing Delay -Reason-Wise- 1996-97 (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	Draft Restriction	Ships Account	Others Lack Of Cargo	Total	
Visakhapatnam										
1. Container	63	0.36	-	-	0.02	-	Neg.	0.14	-	0.52
2. Break Bulk	242	1.03	0.02	-	Neg.	0.01	0.02	0.14	0.16	1.39
3. Dry Bulk (M)	132	6.77	0.01	-	Neg.	0.02	0.04	0.13	-	0.97
(C)	400	3.31	Neg.	-	0.02	Neg.	0.02	0.12	-	3.47
4. Liquid Bulk	600	0.39	Neg.	-	0.04	Neg.	0.02	0.29	-	0.74
Total	1437	1.34	0.01	-	0.02	0.01	0.02	0.19	0.03	1.62
Kandla										
1. Container	130	2.40	-	-	-	-	0.15	-	-	2.55
2. Break Bulk	305	6.10	-	-	-	-	3.65	-	-	9.75
3. Dry Bulk (M)	9	2.02	-	-	-	-	0.23	-	-	2.24
(C)	215	8.34	-	-	-	-	2.12	-	-	10.46
4. Liquid Bulk	868	4.86	-	-	-	-	0.60	-	-	5.46
Total	1527	5.71	-	-	-	-	1.05	-	-	6.76
J. L. Nehru										
1. Container	408	1.42	-	-	-	-	0.06	0.02	-	1.50
2. Break Bulk	80*	0.96	-	-	-	-	-	0.01	-	0.97
3. Dry Bulk	880	2.42	-	-	-	-	-	1.66	-	5.08
4. Liquid Bulk	64	1.24	-	-	-	-	-	1.32	-	2.56
Total	640	1.62	-	-	-	-	0.04	0.39	-	2.05

* Vehicle Carrier
 † Includes 39 other vessels

2.6.5 Average Turn Round Time - by Type and Port.

(In Days)

Port	Container 95-96	96-97	Break Bulk 95-96	Bulk 96-97	Dry Bulk 95-96	(Mech.) 96-97	Dry Bulk (conv.) 95-96	(conv.) 96-97	Liquid 95-96	Bulk 96-97	All Types 95-96	96-97
Calcutta	6.3	5.7	14.0	12.6	-	-	18.9	16.8	5.7	5.4	8.6	7.7
Haldia	1.8	1.5	13.6	11.6	4.9	4.5	14.3	10.0	4.8	5.2	6.8	6.0
Paradip	-	-	3.5	8.6	7.0	4.1	7.8	5.4	3.2	4.4	6.3	4.9
Vishakhapatnam	2.8	2.4	9.2	6.2	6.1	5.4	13.3	9.9	3.0	2.8	7.6	5.6
Chennai	3.7	4.2	9.2	8.6	3.0	3.6	12.1	12.0	6.3	7.6	7.5	7.8
Tuticorin	2.9	3.1	8.1	6.8	4.8	4.0	9.2	9.0	3.1	2.6	5.9	5.1
Cochin	2.7	2.7	6.6	5.2	13.1	11.1	17.0	15.5	3.6	3.8	4.0	3.9
New Mangalore	-	-	7.4	5.1	5.9	7.55	-	-	3.1	2.5	5.1	4.4
Mormugao	0.9	1.0	7.2	11.3	7.4	8.8	7.5	7.8	5.5	3.7	6.3	6.3
J.L.Nehru	4.2	3.4	1.2	2.9	18.2	11.4	...	...	6.3	5.1	5.7	6.3
Mumbai	6.5	6.8	15.3	17.2	-	-	26.4	27.4	6.8	8.0	10.1	10.7
Kandla	6.6	5.5	27.8	16.7	19.9	13.4	23.7	18.4	10.0	7.3	14.8	10.6
All Ports	4.6	4.7	11.7	11.5	6.8	6.3	12.6	11.7	5.4	5.6	7.7	7.5

5 Includes - Conventional also.
6 Vehicles Carrier

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

Port	Container		Break Bulk		Dry Bulk (Mech.)		Dry Bulk (conv.)		Liquid Bulk		All Types	
	95-96	96-97	95-96	96-97	95-96	96-97	95-96	96-97	95-96	96-97	95-96	96-97
Calcutta	26	31	56	58	-	-	48	40	50	52	48	50
Haldia	66	66	55	56	63	60	43	45	43	46	48	50
Paradip	-	-	20	24	29	26	23	29	...	...	24	28
Visakhapatnam	18	18	21	18	31	27	23	18	33	31	25	22
Chennai	48	45	49	46	47	40	34	30	31	32	40	37
Tuticorin	43	41	46	49	25	19	40	43	36	33	40	40
Cochin	39	31	51	49	49	49	37	35	26	28	47	37
New Mangalore	-	-	58	58	48	47	-	-	31	32	51	49
Mormugao	32	30	17	18	30	31	25	26	44	30	31	29
J.L.Nehru	25	35	18	100	30	40	...	...	...	10	24	27
Mumbai	26	26	40	42	-	-	34	34	33	34	35	36
Kandla	14	15	16	15	23	10	16	12	31	32	19	19
All Ports	28	32	40	43	35	38	29	29	32	34	34	36

\$ Includes Conventional also.
@ Vehicles Carrier.

2.6.7 Output Per Ship Berthday - By Type And Port.

(Tonnes)

Port	Container 95-96	Container 96-97	Break 95-96	Bulk 96-97	Dry Bulk 95-96	Dry Bulk (Mech.) 96-97	Dry Bulk (conv.) 95-96	Dry Bulk (conv.) 96-97	Liquid 95-96	Bulk 96-97	All 95-96	All 96-97
Calcutta	1954	2082	395	390	-	-	557	495	3238	2785	1188	1188
Haldia	1297	1415	678	699	9268	8136	2351	2534	14187	15146	5885	5855
Paradip	-	-	730	480	9348	13178	4971	5263	8776	7944	5929	6406
Visakhapatnam	1069	1545	1272	1667	13546	13445	3929	4717	14323	13559	5493	6696
Chennai	2627	2591	731	773	41124	39314	3446	4474	15110	14244	4790	5131
Tuticorin	2114	2065	827	851	7440	9083	2698	2122	4860	4251	2837	3026
Cochin	1596	1734	439	663	1672	1900	1130	1149	15769	13103	5698	5438
New Mangalore	-	-	759	868	12240	9795\$	-	-	6393	12160	5587	7172
Mormugao	1137	1313	1241	1016	15986	14872	2010	1925	7488	5154	6878	6540
J.L.Nehru	379 TEU	5874	...	1414	3800	3085	-	-	2060	3513	3585	2987
Mumbai	2073	2303	667	662	-	-	671	685	11166	10476	2576	2605
Kandla	3081	3427	1016	1490	1621	2238	1551	2319	19339	18978	5223	7066
All Ports	2452	2719	736	779	10736	10866	2702	3190	11153	11222	4047	4497

\$ Includes Conventional also.
\$ Vehicles Carrier.

2.6.8 Average Berth Occupancy At Major Ports

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

2.6.9 Utilisation of Cargo Handling Equipment

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	Above 10 Tonnes	Mobile Cranes	Fork Lifts
(1)	(2)	(3)	(4)	(5)	(6)	(7)
KANDLA						
Norms (1983)	2300	Fertiliser	300	300	250	300
Performance						
1988-89	1802	"	222	-	77	210
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
MUMBAI						
Norms (1983)	-	-	300	300	250	300
Performance						
1988-89	-	-	185	88	166	231
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

2.6.9 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	Commodity	Elect. Wharf Cranes : 3-10 Tonnes	Cranes : Above 10 Tonnes	Mobile Cranes	Fork Lifts	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
MORMUGAO							
Norms (1983)	32500	Iron Ore	300	300	250	300	
Performance							
1988-89	41065	"	186	-	79	96	
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	
NEW MANGALORE							
Norms (1983)	29700	"	300	300	250	300	
Performance							
1988-89	18434	"	10	-	26	35	
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	

2.6.9 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 day	Commo-dity	Elect. Wharf Cranes 3-10 Tonnes	Above 10 Tonnes	Mobile Cranes	Fork Lifts
(1)	(2)	(3)	(4)	(5)	(6)	(7)
COCHIN						
Norms (1983) Performance	-	-	200	200	167	200
1988-89	-	-	67	-	142	116
1989-90	-	-	99	-	158	123
1990-91	-	-	71	-	159	121
1991-92	-	-	50	-	115	134
1992-93	-	-	53	-	123	132
1993-94	-	-	40	-	135	134
1994-95	-	-	59	-	83	127
1995-96	-	-	93	-	65	106
1996-97	-	-	82	-	63	139
1997-98	-	-	75	-	35	124
TUTICORIN						
Norms (1983) Performance	-	-	300	300	250	300
1988-89	-	-	134	-	82	106
1989-90	-	-	164	-	70	115
1990-91	-	-	148	-	113	100
1991-92	-	-	159	-	105	79
1992-93	-	-	180	-	77	84
1993-94	-	-	176	-	86	84
1994-95	-	-	156	-	65	81
1995-96	-	-	133	-	25	80
1996-97	-	-	128	-	24	77
1997-98	-	-	114	-	33	57

2.6.9 Utilisation Of Cargo Handling Equipment (Contd.)

Port/Year	:Mechanised		:Utilisation of General Cargo handling			
	: System	: Equipment (Average no. of hours worked per month per equipment.)	: Equipment (Average no. of hours worked per month per equipment.)	: Mobile Cranes	: Fork Lifts	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
CHENNAI						
Norms (1983)	\$ 37000	Iron Ore	300	300	250	300
Performance						
1988-89	47910	"	435	*	322	336
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
VISAKHAPATNAM						
Norms (1983)	50000	Iron Ore	300	300	250	300
Performance						
1988-89	41833	"	162	-	105	127
1989-90	42393	"	100	-	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

S Relates to vessels of capacity more than 35000 DWT.
 † Included in 3-10 Tonnes.

2.6.9 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	Above 10 Tonnes	Mobile Cranes	Fork Lifts
(1)	(2)	(3)	(4)	(5)	(6)	(7)
PARADIP						
Norms (1983)	18700	Iron Ore	300	300	250	300
Performance						
1988-89	21609	"	+	178	107	65
1989-90	14688	"	+	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
CALCUTTA						
Norms (1983)	2000	Coal	300	300	250	300
Performance						
1988-89	-	"	2190	231	219	240
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

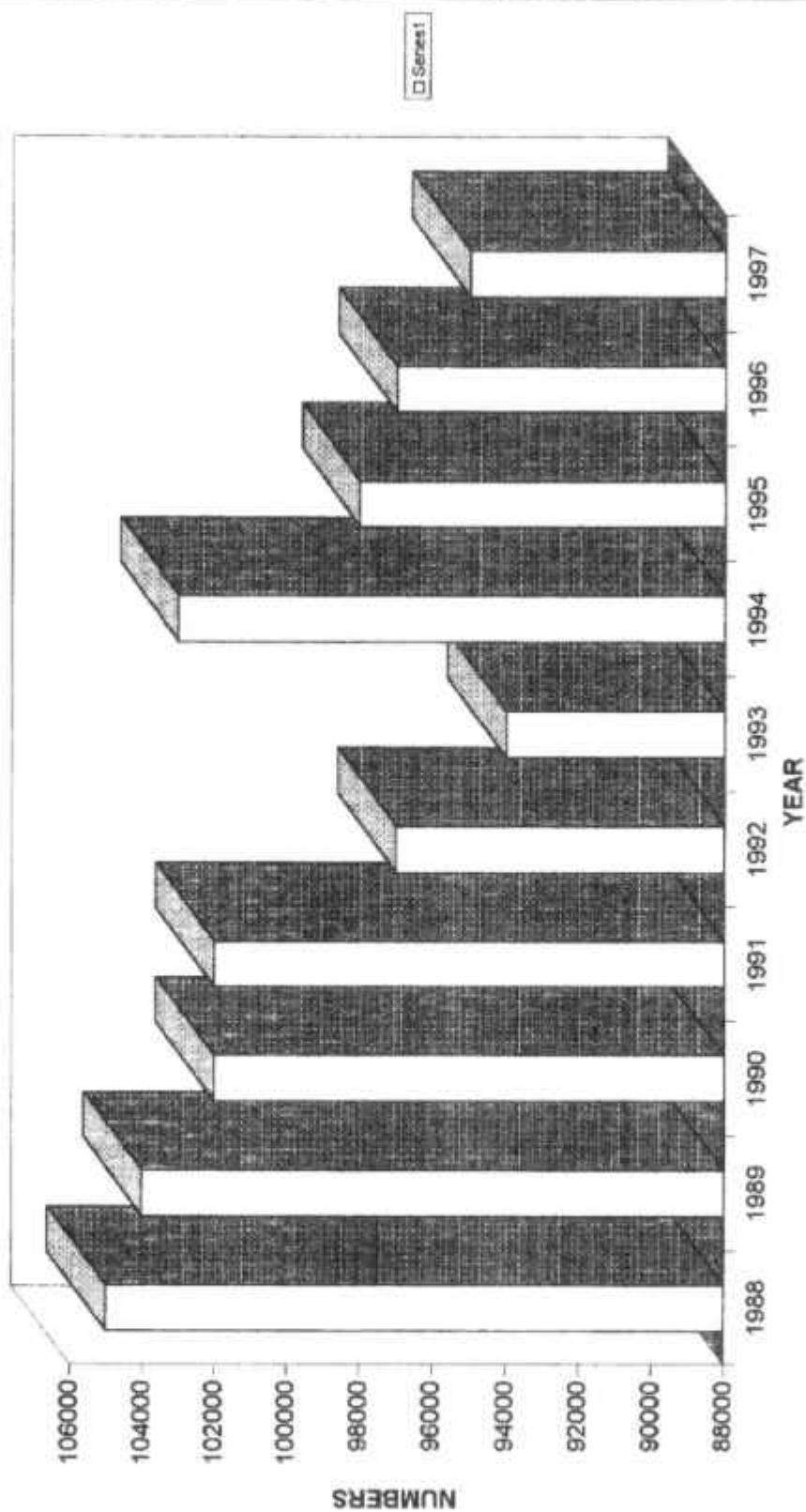
+ There are no 3-10 tonnes crane @ 2-10 Tonnes
Source : Major Ports

2.7.1 Employment At Ports - Portwise As On 31st December

PORT	(In Numbers)												
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Kandla	4713	4503	4537	4633	4603	4976	4927	4677	4740	4451	4107	4486	
Mumbai	30736	30939	30987	30319	29349	28199	27327	25063	34696	32893	32789	32127	
J.L.Nehru	-	-	-	-	1137	1187	1386	1507	1513	1549	1539	1550	
Mormugao	3791	3681	3683	3646	3614	3582	3668	3257	3612	3607	3588	3535	
New Mangalore	1285	1304	1314	1312	1328	1330	1337	2401	2311	2303	2275	2258	
Cochin	6047	5950	5967	5868	5781	5533	5546	5546	5502	4872	4985	5021	
Tuticorin	2286	2298	2286	2284	2270	2268	2250	2054	1998	2152	1941	1895	
Chennai	12128	11492	11469	11489	11346	11361	10318	10271	10357	10399	10314	10314	
Visakhapatnam	11950	11068	11013	10986	10848	11314	10227	10082	9772	9626	9450	9307	
Paradip	4803	5390	5590	5388	4841	4811	4834	4996	5241	4113	4229	4106	
Calcutta/ Haldia	27180	25619	24873	24653	23643	23394	21292	19808	19296	18051	17357	16548	
ALL MAJOR PORTS	104919	102244	101719	100583	98760	97955	93112	89662	99038	94016	92574	91147	

Note : Number of officers in the class I & II Posts have not been included

EMPLOYMENT AT PORTS (AS ON 31st DECEMBER)



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

PORT	(In Numbers)													
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
KANDLA	836	833	863	871	869	875	913	897	924	953	960	943	891	
MUMBAI	11869	10525	10354	10121	9903	7948	8137	6845	7051	*	*	*	*	
MORMUGAO	1114	1109	1101	968	961	955	935	902	821	807	745	691	598	
COCHIN	1077	995	919	823	757	665	581	683	584	548	529	461	424	
CHENNAI	1806	1689	1556	1463	1394	1341	1306	1109	1890	1143	1092	1186	976	
VIZAG	851	841	816	695	665	641	611	706	739	732	610	563	717	
CALCUTTA	7410	7229	6885	6249	5941	5689	5272	4169	3907	3019	3304	2677	2408	
TOTAL	24963	23221	22496	21300	20490	18014	17755	15314	15976	7202	7240	6521	6014	

* Mumbai Dock Labour Board merged with Mumbai Port

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

PORT	(In Numbers)													
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
KANDLA	1599	54	-	-	-	-	-	-	-	-	-	-	-	
MUMBAI	-	-	-	-	-	-	-	-	-	+	+	+	+	
CHENNAI	497	479	521	1497	1479	1445	1376	289	275	260	237	210	162	
VISAKHAPATNAM	1573	1558	1539	1538	1516	1502	1487	1483	1006	1319	1174 ^a	1554 ^a	1312 ^a	
TOTAL	3669	2091	2060	3035	2995	2947	2863	1772	1281	1579	1411	1764	1494	

* Mumbai Dock Labour Board merged with Mumbai Port
^a Includes Casual Workers.

2.7.4 Employment At Ports - By Port & Classes As On 31st December, 1997

Port	Number of Officers		Number of non cargo handling workers		Number of cargo handling workers other than Shore workers		Number of cargo handling workers of cargo		Number of casual workers		Total
	Class		Class		Class		Class		Class		
	I	II	III	IV	III	IV	III	IV	III	IV	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Kandla	88	55	916	1812	669	332	32	609	116	4629	
Mumbai	633	13	8865	9390	1	2142	5841	5888	-	32773	
J.L. Nehru	187	41	337	126	108	-	-	979	-	1778	
Mormugao	141	72	1674	1548	-	267	14	32	-	3748	
New Mangalore	64	113	854	412	-	325	667	-	-	2435	
Cochin	152	80	2763	1313	-	744	27	174	-	5253	
Tuticorin	124	45	1082	813	-	-	-	-	-	2064	
Chennai	326	255	5319	2860	-	747	304	995	89	10895	
Visakhapatnam	221	146	1100	3115	2332	1843	777	127	13	9674	
Paradip	104	218	1483	916	-	1435	-	-	272	4428	
Calcutta/Haldia	825	289	1829	5009	6106	1196	1728	465	215	17662	
Total	2865	1327	26222	27314	9216	9031	9390	9269	705	95339	

2.7.5 Employment At DLB'S OF Major Ports As On 31st December, 1997

(In Numbers)

Port / DLB	DLB Employment					Dock Workers					Grand Total
	Class I	Class II	Class III	Class IV	Total	: Registered	Listed	Others	Total	: Grand Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Kandla	2	4	60	11	77	891	-	31	922	999	
Mormugao	6	3	76	28	113	598	-	-	598	711	
Cochin	7	17	94	38	156	424	-	-	424	580	
Chennai	28	15	352	99	494	976	182	642	1800	2294	
Visakhapatnam	23	7	283	118	431	717	1312*	-	2029	2460	
Calcutta	21	16	429	270	736	2408	-	-	2408	3144	
All DLB's	87	62	1294	564	2007	6014	1494	673	8181	10188	

* Includes 453 casual workers.

2.7.6 Mandays Lost Per Thousand Mandays Employed During 1993-97

PORT	1993			1994			1995			1996			1997		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Man- days emplo- yed (in '000)	Man- days emplo- yed (in '000)	Mandays lost per 1000 mandays emplo- yed (in '000)	Man- days emplo- yed (in '000)	Mandays lost per 1000 mandays emplo- yed (in '000)	Man- days emplo- yed (in '000)	Mandays lost per 1000 mandays emplo- yed (in '000)	Man- days emplo- yed (in '000)	Mandays lost per 1000 mandays emplo- yed (in '000)	Man- days emplo- yed (in '000)	Mandays lost per 1000 mandays emplo- yed (in '000)	Man- days emplo- yed (in '000)	Mandays lost per 1000 mandays emplo- yed (in '000)	Man- days emplo- yed (in '000)	Mandays lost per 1000 mandays emplo- yed (in '000)
Kandla	1698	1708	0.3	1708	0.8	1623	0.2	1515	0.8	1613	-	1613	-	1613	-
Mumbai	9634	10409	1.7	10409	0.6	9868	0.6	9837	2.9	9638	0.01	9638	0.01	9638	0.01
Mormugao	1223	1326	1.1	1326	-	1306	0.8	1284	8.6	1240	-	1240	-	1240	-
N.Mangalore	720	693	-	693	-	691	-	683	-	677	7.3	677	7.3	677	7.3
Cochin	1839	1815	0.2	1815	0.3	1620	0.1	1620	0.2	1634	0.1	1634	0.1	1634	0.1
Tuticorin	616	599	4.5	599	11.3	646	2.4	582	6.3	569	12.3	569	12.3	569	12.3
Chennai	3648	3450	1.4	3450	1.4	3731	0.6	3450	0.9	3387	0.3	3387	0.3	3387	0.3
Visakhapatnam	3246	3151	-	3151	-	3423	1.6	3004	0.1	3007	0.6	3007	0.6	3007	0.6
Paradip	1499	1572	4.9	1572	-	1234	-	1269	0.2	1232	-	1232	-	1232	-
Calcutta/Haldia	7115	6695	1.0	6695	0.5	6407	0.1	6010	0.6	5768	0.6	5768	0.6	5768	0.6
J.N.P.T.	452	454	3.4	454	-	465	-	462	-	465	3.3	465	3.3	465	3.3
TOTAL	31690	31872	1.3	31872	0.7	31014	0.6	29716	1.7	29230	0.7	29230	0.7	29230	0.7

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

2.8.1 Revenue And Expenditure At Major Ports

(Rs. in Lakhs)

Port / Year	Total : Revenue	Total : Expendi- ture	Port & Dock including Pilotsage	Cargo handling and ware- housing	Exp. : Revenue	Exp. : Revenue	Railways	Land and Building	Finance and Miso.	Admn. : Manage- ment & : Genera.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
KANDLA													
1985-86	4525	2248	1453	829	2147	538	-	11	180	180	745	293	397
1986-87	4480	2361	1345	926	2113	511	-	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
MUMBAI													
1985-86	20695	13436	2694	2217	10895	5322	151	735	2611	614	4344	2793	1755
1986-87	21955	14118	2713	2593	10893	5728	189	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	13262	9973	43570	15598	491	1826	1835	3229	9594	12217	6817

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

Port / Year	Total : Revenue	Total : Expenditure	Port & Dock including Pilotage	Cargo handling and ware- housing	Railways	Land and Building	Finance and Misc.	Manage- ment & General					
Year	Revenue	Exp.	Revenue	Exp.	Revenue	Exp.	Revenue	Exp.					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
NEW MANGALORE													
1985-86	1411	1316	350	594	784	134	3	5	177	37	97	275	271
1986-87	1915	1591	448	651	1106	143	4	8	232	33	125	471	285
1987-88	2083	1795	487	740	1211	156	3	10	263	37	119	476	376
1988-89	2604	1653	522	518	1417	171	1	9	315	42	349	511	402
1989-90	2603	2217	540	934	1496	197	1	24	323	53	243	506	503
1990-91	3315	2209	641	794	1928	220	neg	5	466	62	280	598	530
1991-92	3667	2715	734	1260	2028	265	neg	11	447	63	458	451	655
1992-93	4198	2853	954	1395	2072	271	neg	14	462	74	710	415	684
1993-94	4831	3476	1154	1840	2424	297	-	10	482	76	771	447	806
1994-95	4821	3195	1190	1264	2367	335	6	16	572	88	686	583	907
1995-96	6672	4615	1398	2204	3291	637	13	13	759	112	1211	592	1057
1996-97	13422	9275	2355	2819	8831	1443	12	35	649	119	1575	3469	1390
COCHIN													
1985-86	3265	3930	800	1371	2001	511	9	11	263	81	192	1197	759
1986-87	3719	4068	909	1288	2410	701	-	15	222	78	178	1020	966
1987-88	3626	3908	880	984	2387	759	-	12	210	97	149	1096	960
1988-89	4654	4721	1198	1301	3086	829	-	15	239	112	131	1303	1161
1989-90	5722	5225	1214	1413	3988	966	-	16	303	134	217	1463	1233
1990-91	6364	5324	1163	1524	4059	1008	-	17	316	135	826	1256	1384
1991-92	6498	5667	1137	1576	4335	1105	-	17	356	167	670	1454	1348
1992-93	8056	7022	1594	2179	4600	1162	-	20	441	183	1421	1821	1657
1993-94	8069	7799	1906	2794	4557	1206	-	24	500	199	1106	1815	1761
1994-95	9461	8624	2382	2113	5246	1604	-	24	577	333	1256	2399	2151
1995-96	12493	13058	2934	3470	7132	1984	-	29	643	334	1784	4894	2347
1996-97	15866	13601	3456	4107	9456	2059	-	29	864	321	2090	4143	2942

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

Port /	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
		Total : Revenue : Expendi- ture :	Total : Revenue : Expendi- ture :	Port & Dock including Pilotage	Cargo handling and ware- housing	Railways	Land and Building	Finance and Misc.	Manage- ment & General Admin.					
				Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :	Revenue : Exp. :
TUTICORIN														
1985-86	1511	1189	256	238	1037	222	48	23	37	67	133	360	279	
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	689	-	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	
CHENNAI														
1985-86	9869	6195	1519	854	6982	2421	566	380	51	61	751	1124	1355	
1986-87	10432	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	11215	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	

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in Lakhs)

Port / Year	Total : Revenue	Total : Expend- iture	Port & Dock including Pilotage	Cargo handling and ware- housing	Railways	Land and Building	Finance and Misc.	Admin- istration & General					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
VISAKHAPATNAM													
1985-86	7173	6309	1516	1162	4634	1708	427	738	332	202	264	1705	794
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
PARADIP													
1985-86	3004	3416	441	1014	1999	754	112	83	88	190	364	806	569
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	1662	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

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

Port / Year	Total : Revenue	Total : Expendi- ture	Port & Dock including Pilotage	Cargo handling : and ware- housing	Railways	Land and Building	Finance : and Misc.	Manage- ment & General					
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
HALDIA													
1985-86	5547	4452	2318	1906	2445	608	268	243	146	132	370	835	723
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	15807	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	6311	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
CALCUTTA													
1985-86	9106	10392	2617	3007	4717	2234	386	863	770	149	616	1636	2503
1986-87	10281	10624	2652	2011	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	2631	417	819	1246	224	1398	3115	3867
1991-92	15372	15187	2426	3484	8176	2832	476	850	1507	261	2787	3773	3967
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

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in lakhs)

Port / Year	Total : Revenue	Total : Expendi- ture	Port & Dock including Pilotage	Cargo handling and ware- housing	Railways	Land and Building	Finance and Misc.	Management & General Admin.					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
ALL PORTS													
1985-86	70274	56165	14918	13911	40353	15496	2006	3157	4733	1772	8264	11924	9905
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	11983	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	6860	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	8601	14087	9074	51719	51894	37662

2.8.2 Net And Operating Surplus At Major Ports

Item/Year	Kandla	Mumbai	J.L. Nehru	Mormu	N.Manga-lore	Cochin	Tuti- corin	Visakha- patnam	Paradip	Haldia	(Rs. In Lakhs)			All Ports
											Calcutta	:	Chennai	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Operating Income														
1986-87	3618	16422	-	3845	1790	3541	1298	9705	7804	3908	5798	9230	66959	
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	
Operating Expenditure														
1986-87	2085	11680	-	2947	1120	3048	894	5534	5438	2935	4121	8893	48695	
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	8161	2818	15190	14678	8617	12045	14970	136447	
1996-97	7939	37443	13983	6852	5806	9458	3124	16481	16671	9911	16611	16217	160496	

2.8.2 Net And Operating Surplus At Major Ports (Contd.)

(Rs. In Lakhs)

Item/Year	Kandla	Mumbai	J.L.	Mormu-	N.Manga-	Cochin	Tuticorin	Chennai	Visakha-	Paradip	Halda	Calcutta	All
:	:	:	Nehru	gao	lore	:	:	:	patnam	:	:	:	Port:
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Operating Surplus													
1986-87	1533	4742	-	899	670	493	404	4171	2366	973	1677	337	18264
1987-88	1586	4444	-	1025	645	665	253	4161	1873	995	1175	(-)45	16777
1988-89	2019	7302	-	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	2163	6041	4318	2760	10915	10455	6360	15310	6090	104948
Net Surplus													
1986-87	2119	8029	-	586	324	(-)349	156	3537	823	(-)259	1484	(-)343	16106
1987-88	2193	6962	-	637	288	(-)282	(-)9	3634	786	(-)168	946	(-)2252	12735
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

2.8.3 Operating Ratio At Major Ports

Item/Year	(In Percentage)													
	Kandla : :	Mumbai : :	J.L. : Nehru	Mormu- : gao	N.Manga- : lore	Cochin : :	Tuti- : corin	Chennai : :	Visakha- : patnam	Paradip : :	Haldia : :	Calcutta : :	All : 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	66.46	
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	

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

(In Rs.)

Port	Operating Income				Operating Expenditure				Surplus/Deficit	
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97	
1	2	3	4	5	6	7	8	9	10	
Kandla	44.32	45.56	47.46	20.53	21.90	23.54	23.79	23.66	23.95	
Mumbai	154.90	171.56	177.21	98.00	92.46	111.97	56.90	79.10	65.24	
J.L. Nehru	306.03	339.98	304.96	174.08	168.25	173.29	131.95	171.73	131.66	
Mormugao	42.38	44.27	52.19	30.16	35.23	39.58	12.12	9.04	12.61	
New Mangalore	51.66	61.47	95.13	32.63	45.28	46.62	19.03	16.19	48.51	
Cochin	95.06	93.10	117.32	72.12	70.97	80.55	22.94	22.13	36.77	
Tuticorin	50.27	58.21	64.14	36.23	30.35	34.05	14.04	27.86	30.08	
Chennai	77.59	83.05	86.02	44.47	49.44	51.75	33.12	33.61	34.27	
Visakhapatnam	69.62	74.34	78.63	43.41	44.73	48.32	26.21	29.61	30.31	
Paradip	125.39	134.55	140.51	70.47	76.53	85.59	54.92	58.02	54.92	
Calcutta*	211.88	213.83	234.51	136.23	125.56	141.96	75.65	88.27	92.54	

* 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 Ports

GUJARAT

1	Mandvi	21	Kotda
2	Navlakhi	22	Madhwad
3	Bedi	23	Navbunder
4	Sikka	24	Rajpara
5	Jafarabad	25	Pipavav
6	Okha	26	Mahuva
7	Porbandar	27	Talaja
8	Veraval	28	Gogha
9	Bhavnagar	29	Kambhat
10	Bharuch	30	Dahej
11	Magdalla	31	Bhagwa
12	Koteshwar	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	Umargaon
20	Mangrol	40	Mul-Dwarka

ORISSA

1	Gopalpur
2	Behrabalpur (Balasore) *

KARNATAKA

1	Mangalore
2	Malpe
3	Hangarkatta
4	Kundapur
5	Bhatkal
6	Honavar
7	Tadri
8	Belekeri
9	Karwar

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	Teracai

Andhra Pradesh

1	Bhavanapadu
2	Caligapatnam *
3	Bheemunipatnam *
4	Kakinada
5	Narsapur *
6	Machilipatnam
7	Vadarevu *
8	Nizampatnam
9	Krishnapatnam
10	Gangavaram *
11	Mayualampalem *
12	Rawa

Tamil Nadu

1	Cuddalore
2	Nagapattinam
3	Rameswaram
4	Pamban
5	Colachel
6	Valinokkam
7	Kanyakumari
8	Ennore
9	Pannakyal
10	Thirukkadnyur
11	PY-3

3.1.0 List Of Minor Ports (Contd..)

MAHARASHTRA

1	Dahanu
2	Tarapur
3	Nawapur
4	Satpati
5	Kelwa-Mahim
6	Arnala
7	Dantliwara
8	Uttan
9	Bassein
10	Bhiwandi
11	Manori
12	Kalyan
13	Thane
14	Versowa
15	Bandra
16	Trombay
17	Ulwa (belapur)
18	Panvel
19	Mora
20	Mandwa
21	Karanja
22	Thal
23	Rewas
24	Alibag
25	Dharamtar
26	Revdanda
27	Borlimandla

ANDAMAN & NICOBAR

1	Port Blair
2	Mus
3	Car Nicobar
4	Havelock
5	Mayabunder
6	Diglipur
7	Rangat
8	Ilut Bay
9	Katchal
10	Campbell Bay
11	Neil Haveloc
12	Dugong Creek
13	Nancowry
14	Chowra
15	Teresa
16	Kondul
17	Pillow Mallow
18	East Island
19	Cinque Island
20	Jolly Buoy Island
21	Tillangchong
22	Castla Bay
23	South Bay

DAMAN & DIU

1	Daman
2	Diu

KERALA

1	Allepuzah *
2	Vadakara *
3	Cannanore *
4	Kasargoda *
5	Kodungallore *
6	Ponnani *
7	Tellicherry *
8	Trivandrum *
9	Quilon *
10	Kozhikode/Beyypore
11	Neendakara
12	Azhikkal
13	Koavalam/Vizhinjam

PONDICHERY

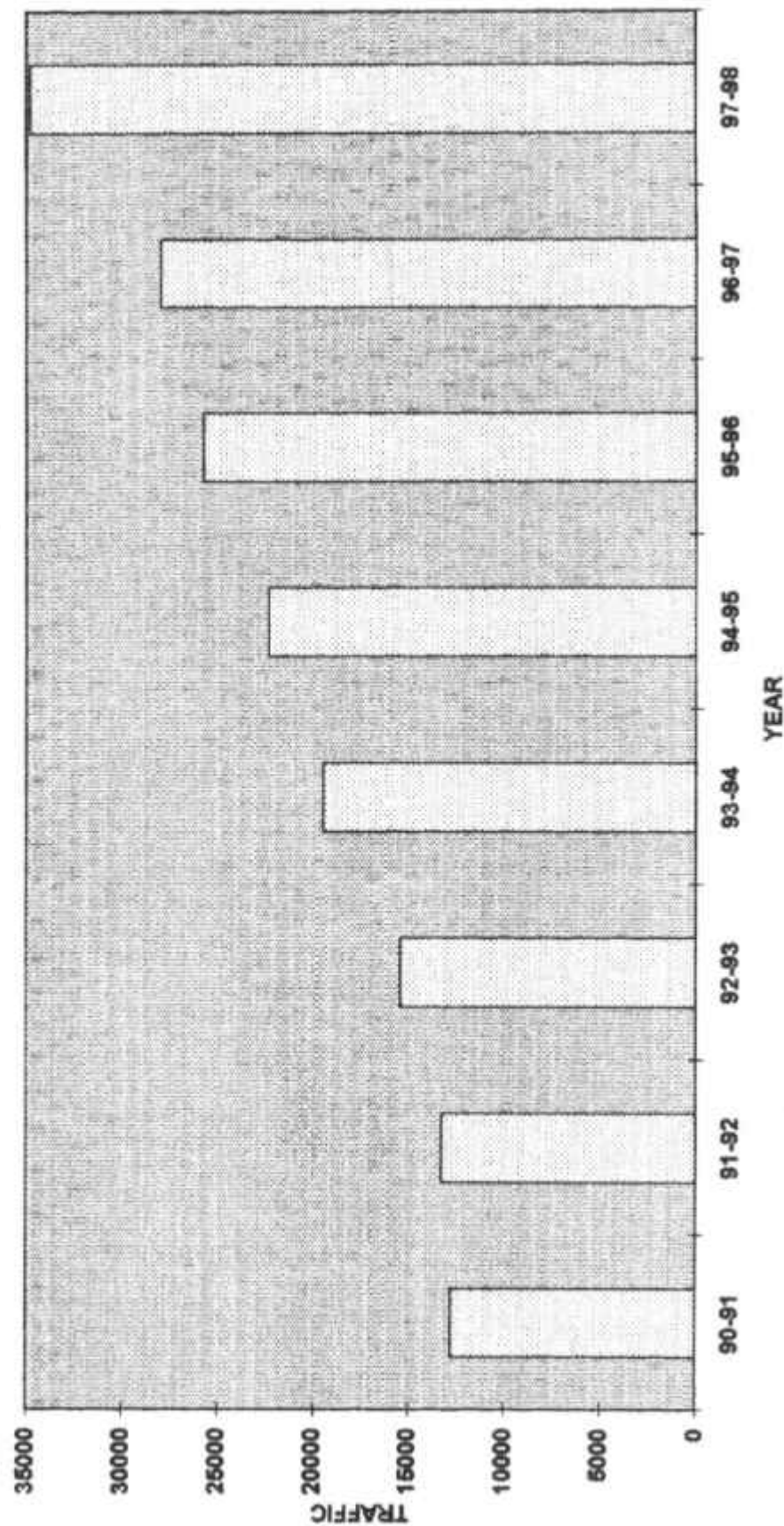
1	Pondicherry
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* Non - Working

3.1.1 Growth Of Cargo Traffic Handled At Minor/Intermediate Ports

('000 Tonnes)									
Year	Overseas		: 'Coastal		: Overseas & Coastal				
	: Unloaded: Loaded		: Total : Unloaded: Loaded		: Total : Unloaded: Loaded		: Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1985-86	3873	2887	6760	1034	1261	2295	4907	4148	9055
1986-87	3055	3107	6162	1052	1154	2206	4107	4261	8368
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	6235	4737	10972	3094	1339	4433	9329	6076	15405
1993-94	7566	6644	14210	3839	1421	5260	11405	8065	19470
1994-95	8606	6424	15030	5367	1885	7252	13973	8309	22282
1995-96	9951	8168	18119	5116	2471	7587	15067	10639	25706
1996-97	10769	7755	18524	6125	3296	9421	16894	11051	27945

TRAFFIC HANDLED AT MINOR PORTS (IN THOUSAND TONNES)



3.1.2 - State-Wise Cargo Traffic (Overseas/Coastal) At Minor/Intermediate Por

(In '000 Tonnes)												
Year	Mahara-		Daman Karna-		Tamil- Pondi-		Andhra-		Sea-		Total	
	Gujarat	shtra	Goa	& Diu	taka	Kerala	Nadu	cherry	Pradesh	Orissa	Islands	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
OVERSEAS												
1985-86	3032	1268	2	-	753	68	445	118	1074	-	-	6760
1986-87	3034	1236	4	-	667	50	255	50	861	3	-	6162
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	-	416	86	227	70	1124	61	-	9567
1991-92	6797	213	-	-	205	86	185	53	1180	150	-	8869
1992-93	6488	-	-	-	320	90	260	47	1560	207	-	10972
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	170	-	18119
1996-97	15103	1036	252	-	264	136	34	45	1495	139	-	18524
COASTAL												
1985-86	1533	332	Neg.	4	106	43	35	-	-	-	242	2295
1986-87	1455	294	1	3	153	40	0	-	-	-	260	2206
1987-88	1467	320	Neg.	3	167	41	0	-	-	-	28	2026
1988-89	1469	242	-	1	151	32	0	-	-	-	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	46	-	-	732	-	295	9421

3.1.2 - State-Wise Cargo Traffic (Overseas/Coastal) At Minor/Intermediate Por

(In '000 Tonnes)

Year	Mahara- Gujarat	shtra	Goa	Daman & Diu	Karna- taka	Kerala	Tamil- Nadu	Pondi- cherry	Andhra- Pradesh	Orissa	Sea- Islands	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
TOTAL												
1985-86	4565	1600	2	4	659	111	480	118	1074	-	242	9055
1986-87	4489	1532	5	3	620	90	255	50	861	3	260	8368
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	12762
1991-92	10296	532	12	-	383	130	185	53	1180	150	337	13258
1992-93	11884	303	212	-	470	125	260	47	1560	207	337	15405
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	170	295	25706
1996-97	19858	4244	395	-	524	184	34	45	2227	139	295	27945

@ Figures pertain to only Lakshadweep.

3.1.3 - State-Wise Cargo Traffic (Unloaded & Loaded) At Minor/Intermediate Ports
(in '000 Tonnes)

Year	Gujarat	Mahara- shtra	Goa	Daman & Diu	Karna- taka	Kerala	Tamil- Nadu	Pondi- cherry	Andhra- Pradesh	Orissa	Sea- Islands	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
UNLOADED												
1985-86	2864	306	-	4	436	12	385	118	666	-	116	4907
1986-87	2648	279	-	3	353	15	187	50	438	-	134	4107
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	154	238	9329
1993-94	9532	622	88	Neg.	164	1	62	22	545	131	238	11405
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	15	31	45	589	51	234	16894
LOADED												
1985-86	1701	1294	2	Neg.	423	99	95	Neg.	408	-	126	4148
1986-87	1841	1253	5	-	467	75	68	-	423	3	176	4261
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	81	99	8065
1994-95	6624	145	124	-	168	192	31	-	926	39	60	8309
1995-96	8329	95	100	-	190	169	2	-	1632	66	56	10639
1996-97	8341	265	176	-	310	169	3	-	1638	88	61	11051

3.1.3 - State-Wise Cargo Traffic (Unloaded & Loaded) At Minor/Intermediate Ports (Contd.)
(in '000 Tonnes)

Year	Gujarat	Mahara- shtra	Goa	Daman & Diu	Karna- taka	Kerala	Tamil- Nadu	Pondi- cherry	Andhra- Pradesh	Orissa	Sea- Islands	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
TOTAL												
1985-86	4565	1600	2	4	859	111	480	118	1074	-	242	9055
1986-87	4489	1532	5	3	820	90	255	50	861	3	260	8368
1987-88	3894	681	-	3	417	82	84	-	699	30	28	5918
1988-89	5347	862	-	1	555	304	306	413	1138	22	27	9075
1989-90	6627	1339	-	1	653	157	376	229	1374	68	32	10856
1990-91	9313	926	1	-	611	130	227	70	1124	150	317	12782
1991-92	10296	532	12	-	383	130	185	53	1180	207	337	13258
1992-93	11884	303	212	-	470	125	260	47	1560	212	337	15405
1993-94	15745	646	212	-	310	99	80	22	1607	200	337	19470
1994-95	16943	2446	212	-	455	197	124	26	1387	170	292	22282
1995-96	16481	3471	107	-	523	184	116	56	2303	139	295	25706
1996-97	19858	4241	395	-	524	184	34	45	2227	-	295	27945

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

(In '000 Tonnes)

States U.T.	Overseas		Coastal		Overseas & Coastal				
	:Unloaded	:Loaded	: Total	:Unloaded	: Loaded	: Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Gujarat									
1985-86	2292	740	3032	572	961	1533	2864	1701	4565
1986-87	2080	954	3034	568	887	1455	2648	1841	4489
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
MAHARASHTRA									
1985-86	-	1268	1268	306	26	332	306	1294	1600
1986-87	-	-	-	279	15	294	279	15	294
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

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

(In '000 Tonnes)

States U.T.	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
GOA									
1985-86	-	2	2	Neg.	-	-	-	2	2
1986-87	-	4	4	-	1	1	-	5	5
1987-88	Neg	-	-	Neg.	-	-	-	-	-
1988-89	...	...	-	...	-	-	-	-	-
1989-90	...	...	-	...	-	-	-	-	-
1990-91	-	1	1	-	-	-	-	1	1
1991-92	-	-	-	6	6	12	6	6	12
1992-93	-	-	-	88	124	212	88	124	212
1993-94	-	-	-	88	124	212	88	124	212
1994-95	-	-	-	88	124	212	88	124	212
1995-96	-	-	-	7	100	107	7	100	107
1996-97	167	85	252	52	91	143	219	176	395
Daman & Diu									
1985-86	-	-	-	4	Neg.	4	4	-	4
1986-87	-	-	-	3	-	3	3	-	3
1987-88	-	-	-	3	-	3	3	-	3
1988-89	-	-	-	1	-	1	1	-	1
1989-90	-	-	-	1	-	1	1	-	1
1990-91	-	-	-	Neg.	-	Neg.	Neg.	-	Neg.
1991-92	-	-	-	Neg.	-	Neg.	Neg.	-	Neg.
1992-93	-	-	-	Neg.	-	Neg.	Neg.	-	Neg.
1993-94	-	-	-	Neg.	-	Neg.	Neg.	-	Neg.
1994-95	-	-	-	-	-	-	-	-	-
1995-96	-	-	-	-	-	-	-	-	-
1996-97	-	-	-	-	-	-	-	-	-

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

(In '000 Tonnes)

States U.T.	Overseas		Coastal		Overseas & Coastal	
	: Unloaded	: Loaded	: Total	: Unloaded	: Total	: Loaded : Total
(1)	(2)	(3)	(4)	(5)	(6)	(7) (8) (9) (10)
KARNATAKA						
1985-86	412	341	753	24	82	106 436 423 859
1986-87	293	374	667	60	93	153 353 467 820
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
KERALA						
1985-86	-	68	68	12	31	43 12 99 111
1986-87	7	43	50	8	32	40 15 75 90
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	-	136	136	15	33	48 15 169 184

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

(In '000 Tonnes)									
States U.T.	Overseas	Coastal	Overseas & Coastal						
: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total				
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
TAMILNADU									
1985-86	385	60	445	-	35	35	385	95	480
1986-87	187	68	255	-	-	-	187	68	255
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	-	-	-	217	10	227
1991-92	182	3	185	Neg.	-	-	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	-	Neg.	Neg.	31	3	34
PONDICHERY									
1985-86	118	-	118	-	-	-	118	Neg.	118
1986-87	50	-	50	-	-	-	50	-	50
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

(In '000 Tonnes)

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

States U.T.	(In '000 Tonnes)									
	Overseas					Coastal				
	Unloaded	Loaded	Total	Unloaded	Loaded	Unloaded	Loaded	Total	Unloaded	Loaded
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ANDHRA PRADESH										
1985-86	666	408	1074	-	-	-	666	408	1074	
1986-87	438	423	861	-	-	-	438	423	861	
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	
ORISSA										
1985-86	-	3	3	-	-	-	-	-	-	
1986-87	-	30	30	-	-	-	-	3	3	
1987-88	-	22	22	-	-	-	-	30	30	
1988-89	-	42	68	-	-	-	-	22	22	
1989-90	26	11	61	-	-	-	26	42	68	
1990-91	50	32	150	-	-	-	50	11	61	
1991-92	118	53	207	-	-	-	118	32	150	
1992-93	154	81	212	-	-	-	154	53	207	
1993-94	131	39	200	-	-	-	131	81	212	
1994-95	161	66	170	-	-	-	161	39	200	
1995-96	104	88	139	-	-	-	104	66	170	
1996-97	51	88	139	-	-	-	51	88	139	

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

(In '000 Tonnes)

States U.T.	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
SEA ISLANDS									
ANDAMAN GROUP (I)									
1985-86	-	-	-	103	126	229	103	126	229
1986-87	-	-	-	103	126	229	103	126	229
1987-88	...	...	...	...	...	...	...	...	...
1988-89	...	...	...	...	...	...	...	...	...
1989-90	...	...	...	...	...	...	...	...	...
1990-91	-	-	-	202	77	279	202	77	279
1991-92	-	-	-	205	94	299	205	94	299
1992-93	-	-	-	205	94	299	205	94	299
1993-94	-	-	-	205	94	299	205	94	299
1994-95	-	-	-	232	60	292	232	60	292
1995-96	-	-	-	239	56	295	239	56	295
1996-97	-	-	-	234	61	295	234	61	295
LAKSHADWEEP (II)									
1985-86	-	-	-	13	-	13	13	-	13
1986-87	-	-	-	31	-	31	31	-	31
1987-88	-	-	-	27	1	28	27	1	28
1988-89	-	-	-	27	Neg.	27	27	-	27
1989-90	-	-	-	31	1	32	31	1	32
1990-91	-	-	-	33	5	38	33	5	38
1991-92	-	-	-	33	5	38	33	5	38
1992-93	-	-	-	33	5	38	33	5	38
1993-94	-	-	-	33	5	38	33	5	38
1994-95	-	-	-	...	...	...	...	...	...
1995-96	-	-	-	...	...	...	...	...	...
1996-97	...	...	...	...	...	...	...	...	...

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

States U.T.	(In '000 Tonnes)									
	Overseas		Coastal		Overseas & Coastal					
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
TOTAL										
1985-86	3873	2887	6760	1034	1261	2295	4907	4148	9055	
1986-87	3055	1869	4924	1052	1154	2206	4107	3023	7130	
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	6235	4737	10972	3094	1339	4433	9329	6076	15405	
1993-94	7566	6644	14210	3839	1421	5260	11405	8065	19470	
1994-95	8606	6424	15030	5367	1885	7252	13973	8309	22282	
1995-96	9951	8168	18119	5116	2471	7587	15067	10639	25706	
1996-97	10769	7755	18524	6125	3296	9421	16894	11051	27945	

3.1.5 Transshipment Traffic

(In '000 Tonnes)

State/Port	Commodity	1992-93	1993-94	1994-95	1995-96	1996-97
Gujarat						
Sikka	Crude Oil	1909	3603	2522	2663	3348
Bedi	Iron Ore	-	-	60	-	-
	Coal Cargo	24	-	-	-	-
Bhavnagar	Iron Ore	269	276	284	46	-
	Calibrated Iron Ore	-	58	192	32	-
	Clinker	-	-	57	57	-
	HBI	-	8	56	88	-
	Steel Scrap	-	-	38	-	-
Andhra Pradesh						
Kakinada	Wheat	123	-	-	-	-
Mararashtra	General cargo	-	3	-	-	-
Tamilnadu						
Cuddalore		-	-	-	1	-
Pondicherry	Black Feed Oil	-	-	-	-	45
Total Transshipment		2325	3948	3209	2687	3393

3.1.1.6 Overseas Cargo Traffic Handled in Principal Commodities
(In '000 Tonnes)

Commodity	1994-95		:		1995-96		:		1996-97	
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
(1)	2	3	4	5	6	7	8	9	10	
GUJARAT	7679	5149	12828	8466	6205	14671	8912	6191	15103	
Fertilizer										
& Raw Material	1206	-	1206	1460	-	1460	1393	-	1393	
Iron Ore	1231	-	1231	915	79	994	500	-	500	
Building Material	22	1727	1749	2	1112	1114	1	1460	1461	
Oil Cakes	-	2153	2153	-	2042	2042	-	2149	2149	
Coke	997	-	997	1679	-	1679	1912	-	1912	
Oil Cargo	2644	-	2644	2673	-	2673	3348	-	3348	
Others	1579	1269	2848	1737	2972	4709	1758	2582	4340	
MAHARASHTRA	-	27	27	332	27	359	899	137	1036	
Ethylene	-	14	14	154	-	154	88	-	88	
Iron Ore *	-	-	-	178	27	205	742	137	929	
Others	-	13	13	-	-	-	19	-	19	
GOA	-	-	-	-	-	-	167	85	252	
Coal	-	-	-	-	-	-	122	63	185	
Iron ore	-	-	-	-	-	-	45	-	45	
Others	-	-	-	-	-	-	22	22	22	
KARNATAKA	186	95	281	242	100	342	85	199	284	
Fertilizer										
& Raw Material	186	-	186	242	-	242	38	-	38	
Chemicals	-	4	4	-	12	12	-	2	2	
Foodgrains	-	-	-	-	-	-	47	-	47	
Granite	-	91	91	-	88	88	-	94	94	
Others	-	-	-	-	-	-	-	103	103	

* Includes Iron ore, Pellets & Hot brigutted Iron

3.1.6 Overseas Cargo Traffic Handled in Principal Commodities

Commodity	1994-95					1995-96					(In '000 Tonnes)			
	:					:					:			
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Total
(1)	2	3	4	5	6	7	8	9	10					
KERALA	5	157	162	-	136	136	-	136	136					
Ilmenite	-	157	157	-	136	136	-	136	136					
Others	5	-	5	-	-	-	-	-	-					
TAMILNADU	93	31	124	114	2	116	31	3	34					
Other Ores	30	31	61	26	-	26	-	-	-					
Fertilizer	53	-	53	73	-	73	8	-	8					
& Raw Material	10	-	10	15	2	17	23	3	26					
Others	-	-	-	-	-	-	-	-	-					
ANDHRA PRADESH	456	926	1382	637	1632	2269	579	916	1495					
Fertilizer	405	-	405	608	-	608	360	-	360					
& Raw Material	-	10	10	-	855	855	86	139	225					
Foodgrain	51	916	967	29	777	806	133	777	910					
Others	-	-	-	-	-	-	-	-	-					
PONDICHERY	26	-	26	56	-	56	45	-	45					
Metal Scrap	23	-	23	-	-	-	-	-	-					
Fertiliser	3	-	3	56	-	56	-	-	-					
Black Feed oil	-	-	-	-	-	-	45	-	45					

3.1.6 Overseas Cargo Traffic Handled in Principal Commodities

Commodity	(In '000 Tonnes)									
	1994-95					1995-96				
	: Unloaded:Loaded : Total : Unloaded:Loaded Total					: Unloaded:Loaded Total				
1	2	3	4	5	6	7	8	9	10	
Orissa	161	39	200	104	66	170	51	88	139	
Other Ores	-	35	35	-	-	-	-	-	-	
Fertiliser	161	4	165	104	66	170	51	88	139	
Foodgrains	-	-	-	-	-	-	-	-	-	
TOTAL	8606	6424	15030	9951	8168	18119	10769	7755	18524	
Fertilizer	1660	4	1664	2543	66	2609	1850	88	1938	
Raw Material	1284	164	1448	1119	298	1417	1337	137	1474	
Iron & Other	-	10	10	-	-	855	133	139	272	
Ores	-	2153	2153	-	2042	2042	-	2149	2149	
Foodgrains	22	1727	1749	2	1112	1114	1	1460	1461	
Oil Cakes	-	91	91	-	88	88	-	94	94	
Building Materi	997	-	997	1679	-	1679	2034	63	2097	
Granite	-	14	14	154	-	154	88	-	88	
Coke	2664	-	2664	2673	-	2673	3348	-	3348	
Ethylene	-	4	4	-	12	12	-	2	2	
Oil Cargo	5	157	162	-	136	136	-	136	136	
Chemicals	1974	2100	4074	1781	3559	5340	1978	3487	5465	
Illmenite										
Others										

3.1.7. Coastal Cargo Traffic Handled in Principal Commodities

Commodity	(In '000 Tonnes)									
	1994-95			1995-96			1996-97			
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Total
(1)	2	3	4	5	6	7	8	9	10	
GUJARAT										
1. Building Material	2640	1475	4115	1686	2124	3810	2605	2150	4755	
2. Iron Ore	474	1080	1554	571	1586	2157	500	1275	1775	
3. Salt	1920	30	1950	802	64	866	1747	272	2019	
4. Others	-	86	86	-	70	70	-	150	150	
	246	279	525	313	404	717	358	453	811	
MAHARASHTRA										
1. Building Material*	2301	118	2419	3044	68	3112	3080	128	3208	
2. Ethylene	598	-	598	701	-	701	717	6	723	
3. Iron ore & Pellet	35	-	35	-	-	-	-	-	-	
4. Thermal coal	1664	118	1782	2343	68	2411	1984	121	2105	
5. Others	-	-	-	-	-	-	379	-	379	
	4	-	4	-	-	-	-	-	-	
GOA										
1. Iron ore	88	124	212	7	100	107	52	91	143	
2. Coal	88	124	212	7	100	107	52	88	140	
	-	-	-	-	-	-	-	3	3	

* Include Clinkers

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

(In '000 Tonnes)										
Commodity	1994-95				1995-96				1996-97	
	Unloaded	:Loaded	Total	:Unloaded	:Loaded	Total	:Unloaded	:Loaded	Total	Total
(1)	2	3	4	5	6	7	8	9	10	
KARNATAKA	101	73	174	91	90	181	129	111	240	
1. Building Material	-	23	23	-	40	40	10	64	74	
2. Salt	97	-	97	68	-	68	107	-	107	
3. Others	4	50	54	23	50	73	12	47	59	
ANDHRA PRADESH	5	-	5	34	-	34	10	722	732	
1. Salt	-	-	-	34	-	34	-	-	-	
2. Crude oil	-	-	-	-	-	-	-	722	722	
3. Others	5	-	5	-	-	-	10	-	10	
KERALA	-	35	35	15	33	48	15	33	48	
1. Building Material	-	18	18	2	18	20	2	18	20	
2. Others	-	17	17	13	15	28	13	15	28	
LAKSHADWEEP	...	...	...	...	...	...	...	...	...	
1. Building Material	...	...	...	...	...	...	...	...	...	
2. Others	...	...	...	...	...	...	...	...	...	

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

Commodity	1994-95		1995-96		1996-97				
	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded			
	Total		Total		Total				
(1)	2	3	4	5	6	7	8	9	10
ANDAMAN & NICOBAR	232	60	292	239	56	295	234	61	295
1. Building Material	56	43	99	37	56	93	45	45	90
2. Food Grain	49	-	49	50	-	50	46	-	46
3. Mineral Fuel	72	-	72	72	-	72	74	-	74
4. Others	55	17	72	80	-	80	69	16	85
TOTAL	5367	1885	7252	5116	2471	7587	6125	3296	9421
1. Building Material	1128	1164	2292	1311	1682	2993	1274	1408	2682
2. Salt	97	86	183	102	70	172	107	150	257
3. Iron ore & Pellet	3672	272	3944	3152	232	3384	3783	481	4264
4. Ethylene	35	-	35	-	-	-	-	-	-
5. Food Grains	49	-	49	50	-	50	46	-	46
6. Mineral Fuel	72	-	72	72	-	72	74	722	796
7. Thermal coal	-	-	-	-	-	-	379	3	382
8. Others	314	363	677	429	487	916	462	532	994

3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports During 1995-96 And 1996-97.

Port/Commodity	Unloaded			Loaded			Total	
	:1995-96	1996-97	:1995-96	1996-97	:1995-96	1996-97	1995-96	1996-97
(1)	2	3	4	5	6	7		
GUJARAT								
1. Bedi	371	303	2481	2268	2852	2571		
a) Foodgrains	35	43	573	262	608	305		
b) Rock Phosphate	-	-	-	-	-	-		
c) Other Fertilizers	322	246	-	-	322	246		
d) Iron Ore	-	-	-	-	-	-		
e) Oil Cakes	-	-	1894	1965	1894	1965		
f) Others	14	14	14	41	28	55		
2. Okha	877	786	691	380	1568	1166		
a) Foodgrains	-	-	221	103	221	103		
b) Fertilizer finished	40	-	-	-	40	-		
c) Building Material	-	-	271	96	271	96		
d) Chemicals	21	-	35	32	56	32		
e) Coke & Coal	630	782	-	-	630	782		
f) Ore	5	-	153	138	158	138		
g) Others	181	4	11	11	192	15		
3. Bhavnagar	547	468	108	316	655	784		
a) Building Material	-	-	57	-	57	-		
b) Fertilizer finished	128	109	-	-	128	109		
c) Rock Phosphate	107	159	-	-	107	159		
d) Other fertilizer	312	162	-	-	312	162		
e) food grains	-	25	51	57	51	82		
f) others	-	13	358	259	358	272		

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate
Ports During 1995-96 And 1996-97 (Contd.)**

Port/Commodity	Unloaded		Loaded		Total	
	: 1995-96	1996-97	: 1995-96	1996-97	: 1995-96	1996-97
(1)	2	3	4	5	6	7
4. Navalakhi	183	58	471	345	654	403
a) Foodgrains	-	-	152	88	152	88
b) Fertilizer finished	143	14	-	-	143	14
c) Salt	-	-	126	216	126	216
d) Others	40	44	193	41	233	85
5. Silka	3339	4028	207	277	3546	4305
a) Oil Cargo	2663	3348	-	-	2663	3348
b) P. Acid	531	505	-	-	531	505
c) Building Material	-	-	207	277	207	277
d) Liquid Ammonia	145	135	-	-	145	135
e) Coal	-	40	-	-	-	40
f) Others	-	-	-	-	-	-
6. Magadalla	1700	2403	79	855	1779	3258
a) Rock Phosphate	231	246	-	-	231	246
b) Other fertilizer	148	433	-	-	148	433
c) Iron Ore	915	500	79	-	994	500
d) Iron & Steel	257	352	-	199	257	551
e) Coal	149	294	-	-	149	294
f) Others	467	578	402	656	869	1234
MAHARASHTRA						
1. Revdanda	178	792	-	137	178	929
a) Iron Ore	178	792	-	137	178	929
2. Ratnagiri	154	97	-	-	154	97
a) Ethylene	154	97	-	-	154	97
b) Cement Clinker	-	-	-	-	-	-

3.1.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate
Ports During 1995-96 And 1996-97 (Contd...)

Port/Commodity	Unloaded		Loaded		Total	
	:1995-96	1996-97	:1995-96	1996-97	:1995-96	1996-97
(1)	2	3	4	5	6	7
KARNATAKA						
1. Karwar						
a) Foodgrains	152	79	100	197	248	276
b) Rock Phosphate	-	48	-	-	-	48
c) Fertilizer finished	69	7	-	-	69	7
d) Granite	83	24	-	-	83	24
e) P. Acid	-	-	88	94	88	94
f) Molasses	-	-	8	2	8	2
g) Others	-	-	4	101	-	101
2. Mangalore						
a) Foodgrains	90	7	-	2	90	9
b) Fertilizer finished	90	7	-	-	-	-
c) Others	-	-	-	2	90	7
					-	2
KERALA						
Neendakara						
a) Ilmenite	-	-	136	136	136	136
			136	136	136	136
TAMILNADU						
1. Cuddalore						
a) Fertilizer finished	114	14	2	3	116	17
b) Other Ores	72	8	-	-	72	8
c) Foodgrains	26	-	-	-	26	-
d) Others	-	-	2	3	2	3
	16	6	-	-	16	6

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate
Ports During 1995-96 And 1996-97 (Contd.)**

Port/Commodity	Unloaded		Loaded		Total	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
(1)	2	3	4	5	6	7
ANDHRA PRADESH						
1. Faklnada						
a) Foodgrain	572	579	1632	916	2204	1495
b) Fertiliser finished	29	86	855	139	884	225
c) Rock Phosphate	466	322	-	-	466	322
d) Other Ores	77	38	-	-	77	38
e) Others	-	24	6	-	6	24
	-	109	771	777	771	886
ORISSA						
1. Gopalpur						
a) Other Ores	104	51	66	88	170	139
b) Fertiliser finished	-	-	-	-	-	-
	104	51	66	88	170	139
Total (above Ports)	8848	9665	6807	5920	15655	15585
Total for all Minor/ Intermediate Port	9951	10769	8168	7755	18119	18524

3.1.9 Coastal Cargo Traffic At Selected Minor/Intermediate Ports
During 1995-96 And 1996-97.

Port/Commodity	(In '000 Tonnes)					
	Unloaded			Loaded		
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
(1)	2	3	4	5	6	7
GUJARAT						
1. Okha						
a) Fuel Oil	40	170	2	111	42	281
b) Bauxite	40	170	-	-	40	170
c) Coal	-	-	2	104	2	104
d) Others	-	-	-	7	-	7
2. Magadalla						
a) Cement Clinkers	1470	2284	319	586	1789	2870
b) Iron Ore	571	385	-	-	571	385
c) Iron & Steel	755	1747	32	272	787	2019
d) Others	12	16	197	-	209	16
	132	136	90	314	222	450
3. Jafrabad						
a) Cement Clinkers	-	-	990	720	990	720
b) Others	-	-	990	720	990	720
	-	-	-	-	-	-
4. Sikka						
a) Salt	129	145	68	107	197	252
b) Coal	-	-	68	107	68	107
	129	145	-	-	129	145
MAHARASHTRA						
1. Ratnagiri						
a) Cement Clinkers	308	337	-	6	308	343
b) Ethylene	308	337	-	6	308	343
	-	-	-	-	-	-

**3.1.9 Coastal Cargo Traffic At Selected Minor/Intermediate Ports
During 1995-96 And 1996-97 (Contd..)**

(In '000 Tonnes)

Port/Commodity	Unloaded		Loaded		Total	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
(1)	2	3	4	5	6	7
2. Revdanda	708	298	-	52	708	350
a) Iron Ore Pellet	708	298	-	52	708	350
b) Coking Coal	-	-	-	-	-	-
3. Dharmtar	1635	1686	-	2	1635	1688
a) Iron Ore Pellet	1635	1686	-	2	1635	1688
4. Dahanu	-	379	-	-	-	379
Thermal coal	-	379	-	-	-	379
5. Ulwa-Belapur	392	378	-	-	392	378
Cement	392	378	-	-	392	378
6. Redi	-	-	68	66	68	66
Iron ore	-	-	68	66	68	66
KARNATAKA						
1. Karwar	86	116	4	1	90	117
a) Salt	86	107	-	-	86	107
b) Iron Ore	-	-	4	-	4	-
c) Cement	-	8	-	-	-	8
d) Others	18	1	-	1	18	2
KERALA						
1. Calicut/Bey pore	13	13	33	33	46	46
a) Building material	2	2	18	19	20	20
b) Rice/Wheat	1	1	4	4	5	5
c) Chemicals	10	10	-	-	10	10
d) Others	-	-	11	11	11	11
2. Azhikkal	2	2	-	-	2	2
a) Building material	2	2	-	-	2	2

3.1.9 Coastal Cargo Traffic At Selected Minor/Intermediate
Ports During 1995-96&1996-97 (Contd...)

Port/Commodity	(In '000 Tonnes)				
	Unloaded		Loaded		Total
	1995-96	1996-97	1995-96	1996-97	1995-96 1996-97
(1)	2	3	4	5	6 7
ANDAMAN & NICOBAR					
Port Blair	239	234	56	61	295
a) Building Material	37	45	56	45	93
b) Mineral fuel	72	74	-	-	72
c) Foodgrains	50	46	-	-	50
c) Others	80	69	-	16	80
Total for above Ports	5022	6042	1540	1745	6562
a) Fuel Oil	40	244	-	-	40
b) Bauxite	-	-	2	104	2
c) Cement Clinkers	1271	1108	990	726	2261
d) Salt	68	107	68	107	136
e) Iron Ore & Pellets	3098	3731	104	392	3202
f) Building material	39	49	58	63	97
g) Foodgrains	51	47	8	4	59
h) coal	129	524	-	-	129
i) Iron & steel	12	16	197	-	209
j) Others	314	216	113	349	427
Total All Minor/ Intermediate Ports	5116	6125	2471	3296	7587 9421

3.1.10 Cargo Traffic Handled At Selected Minor/Intermediate Ports in 1995-96 And 1996-97.

(In '000 Tonnes)

State/Port :	Overseas						Coastal						Total			
	Unloaded			Loaded			Unloaded			Loaded			Unloaded		Loaded	
	(1)	2	3	4	5	6	7	8	9	10	11	12	13			
GUJARAT		18466	8912	6205	6191	1686	2605	2124	2150	10152	11517	8329	8341			
Mandvi		6	-	168	102	-	-	26	16	6	-	194	118			
Navlakhi		183	58	471	345	-	-	-	-	183	58	471	345			
Bedi		371	303	2481	2268	-	-	-	-	371	303	2481	2268			
Sikka		3340	4028	207	277	129	145	68	107	3469	4173	275	384			
Okha		877	786	691	380	40	170	2	111	917	956	693	491			
Porbandar		393	260	592	526	-	6	22	36	393	266	614	562			
Veraval		307	307	403	635	2	-	611	548	309	307	1014	1183			
Bhavnagar		547	468	466	316	45	-	35	-	592	468	501	316			
Magadalla		2166	2403	555	855	1470	2284	319	586	3636	4687	874	1441			
Mundra		1	-	171	180	-	-	21	-	1	2403	192	180			
Jafrabad		275	273	-	317	-	-	990	720	275	273	990	1027			
Piparav		-	-	-	-	-	-	29	25	-	-	29	25			
Mahuva		-	26	-	-	-	-	1	-	-	26	1	-			
Others		-	-	-	-	-	-	-	1	-	-	-	1			

Handled

3.1.10 cargo Traffic Handled At selected Minor/Intermediate ports in 1995-96 And 1996-97.
(In '000 Tonnes)

State/Port :	Overseas						Coastal						Total			
	Unloaded			Loaded			Unloaded			Loaded			Unloaded		Loaded	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
(1)	2	3	4	5	6	7	8	9	10	11	12	13				
MAHARASHTRA	332	899	27	137	3044	3080	68	128	3376	3979	95	265				
Ratnagiri	154	97	-	-	308	337	-	6	462	434	-	6				
Redi	-	-	27	-	-	-	68	66	-	-	95	66				
Revda	178	792	-	137	708	298	-	52	886	1090	-	189				
Utwa-Belapu	-	-	-	-	392	378	-	-	392	378	-	-				
Dharamtar	-	-	-	-	1636	1686	-	2	1636	1686	-	2				
Dahanu	-	-	-	-	Neg.	379	-	-	Neg.	379	-	-				
Others	-	10	-	-	-	2	-	2	-	12	-	2				
GOA	-	167	-	85	7	52	100	91	7	219	100	176				
Panaji	-	167	-	85	7	52	100	91	7	219	100	176				
Daman & Diu	-	-	-	-	-	-	-	-	-	-	-	-				
Daman	-	-	-	-	-	-	-	-	-	-	-	-				
KARNATAKA	242	85	100	199	91	129	90	111	333	214	190	310				
Karwar	152	78	100	197	86	116	5	1	238	194	105	198				
Managalore	90	7	-	2	-	8	55	81	90	15	55	83				
Tadri	-	-	-	-	-	-	-	4	-	-	-	4				
Honawar	-	-	-	-	-	-	5	Neg.	-	-	5	Neg.				
Kundapura	-	-	-	-	-	-	2	1	-	-	2	1				
Malpe	-	-	-	-	5	5	23	24	5	5	23	24				

3.1.10 cargo Traffic Handled At Selected Minor/Intermediate ports in 1995-96 And 1996-97 (Contd.)

State/Port	Overseas					Coastal					Total				
	Unloaded		Loaded			Unloaded	Loaded				Unloaded	Loaded			
(1)	2	3	4	5		6	7	8	9	10	11	12	13		
KERALA	-	-	136	136		15	15	33	33	15	15	169	169		
Vallicut/ Beyyore	-	-	-	-		13	13	33	33	13	13	33	33		
Neendakara	-	-	136	136		2	2	-	-	2	2	136	136		
Azhikkal	-	-	-	-		-	-	-	-	-	-	-	-		
TAMIL NADU	114	31	2	3		-	-	-	Neg	114	31	2	3		
Cuddalore	114	14	2	3		-	-	-	Neg	114	14	2	3		
Ennore	-	15	-	-		-	-	-	-	-	-	15	-		
Valinokkam	-	2	-	-		-	-	-	-	-	2	2	-		
PONDICHERY	56	45	-	-		-	-	-	-	56	45	-	-		
ANDHRA PRADESH	637	579	1632	916		34	10	-	722	671	589	1632	1638		
Kakinada	572	579	1632	916		34	10	-	-	606	589	1632	916		
Krishnapatanam	65	-	-	-		-	-	-	-	65	-	-	-		
Rawa	-	-	-	-		-	-	-	722	-	-	-	722		
ORISSA	104	51	66	88		-	-	-	-	104	51	66	88		
Gopalpur	104	51	66	88		-	-	-	-	104	51	66	88		
SEA ISLANDS	-	-	-	-		239	234	56	61	239	234	56	61		
A & N Islands	-	-	-	-		239	234	56	61	239	234	56	61		
Lakshadweep	...	...	...	...		...	...	...	...	...	...	...	...		

3.1.11 State-Wise Cargo Handled At Minor/Intermediate Ports
(1995-96 & 1996-97) By Steamers And Sailing Vessels

		(In '000 Tonnes)										
State / Port		Overseas					Coastal					Total
		Unloaded		Loaded			Unloaded		Loaded			Overseas & Coastal
		1995-96	1996-97	1995-96	1996-97		1995-96	1996-97	1995-96	1996-97		
1	2	3	4	5	6	7	8	9	10	11		
GUJARAT												
Steamers	8466	8912	6205	6191	1686	2605	2124	2150	18481	19858		
Sailing Vessels	5793	5549	5961	6129	1641	2605	2018	2107	5413	16390		
Transshipment	10	15	99	62	-	-	74	43	183	120		
	2663	3348	145	-	45	-	32	-	2885	3348		
MAHARASHTRA												
Steamers	332	899	27	137	3044	3080	68	128	3471	4244		
Sailing Vessels	332	899	27	137	3044	3080	68	122	3471	4238		
	-	-	-	-	-	-	-	6	-	6		
GOA												
Steamers	-	167	-	85	7	52	100	91	107	395		
Sailing Vessels	-	167	-	85	7	52	100	91	107	395		
	-	-	-	-	-	-	-	-	-	-		
DAMAN & DIU												
Steamers	-	-	-	-	-	-	-	-	-	-		
Sailing Vessels	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-		
KARNATAKA												
Steamers	242	85	100	199	91	129	90	111	523	524		
Sailing Vessels	242	78	100	197	86	116	4	-	432	391		
	-	7	-	2	5	13	86	111	91	133		
KERALA												
Steamers	-	-	136	136	15	15	33	33	184	184		
Sailing Vessels	-	-	136	136	13	13	33	33	182	182		
	-	-	-	-	2	2	-	-	2	2		

3.1.11 State-Wise Cargo Handled At Minor/Intermediate Ports
(1995-96/1996-97) By Steamers And Sailing Vessels (Contd..)

State / Port	Overseas				Coastal				(In '000 Tonnes)	
	Unloaded		Loaded		Unloaded		Loaded		Overseas & Coastal	Total
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97		
(1)	2	3	4	5	6	7	8	9	10	11
TAMILNADU										
Steamers	114	31	2	3	-	-	-	Neg	116	34
Sailing Vessels	114	31	2	3	-	-	-	-	116	34
PONDICHERY										
Steamers	56	45	-	-	-	-	-	-	56	45
Sailing Vessels	56	-	-	-	-	-	-	-	56	-
Transshipment	-	45	-	-	-	-	-	-	-	45
ANDHRA PRADESH										
Steamers	637	579	1632	916	34	10	-	732	2303	2227
Sailing Vessels	637	579	1632	916	34	10	-	732	2303	2227
ORISSA										
Steamers	104	51	66	88	-	-	-	-	170	139
Sailing Vessels	104	51	66	88	-	-	-	-	170	139
SEA ISLANDS										
Steamers	-	-	-	-	239	234	56	61	295	295
Sailing Vessels	-	-	-	-	239	234	56	61	295	295
Total	9951	10769	8168	7755	5116	6125	2471	3296	25706	27945
Steamers	7278	7354	7924	7691	5064	6110	2279	3136	22540	24291
Sailing Vessels	10	22	99	64	7	15	160	160	281	261
Transshipment	2663	3393	145	-	45	-	32	-	2885	3393

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers / Sailing Vessels -1996-97
(In Tonnes)

State / Selected Port	Steamers			Sailing Vessels			Total			
	Overseas		Coastal	Overseas		Coastal	Steamers		Sailing Vessels	
	UL	L	UL	UL	L	UL	L	UL	L	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
GUJARAT										
Mandvi	8897269	6129257	2605006	2106668	14531	62100	43	43244	19738200	119918
Navlakhi	-	101544	-	16310	-	-	-	-	117854	-
Bedi	58311	345220	-	-	-	-	-	-	403531	-
Sikka	288450	2267696	-	-	14531	352	-	-	2556146	14883
Okha	680201	277108	145316	107201	-	-	-	-	1209826	-
Porbunder	786301	379444	169688	109797	-	900	-	843	1445230	900
Veraval	259697	516468	6321	33584	-	9124	6	2384	816070	11514
Rhavnagar	306455	635160	-	533079	-	-	31	14808	1474694	14839
Magadalla	467922	316047	-	-	-	-	-	-	783969	-
Mundra	2402772	855327	2283681	585958	-	-	-	-	6127738	-
Jafrabad	-	128632	-	-	-	51724	-	-	128632	51724
Pipavav	273274	306611	-	720273	-	-	-	-	1300150	-
Dahej	-	-	-	-	-	-	-	24811	-	24811
Transshipment	26358	-	-	-	-	-	-	-	26358	-
Others	3347528	-	-	-	-	-	-	-	3347528	-
MAHARASHTRA										
Ratnagiri	898381	137174	3079165	466	-	-	6	398	466	404
Redi	96881	-	337289	122610	-	-	377	5930	4237330	6307
Utwa Belapur	-	-	-	66540	-	-	-	-	434170	5930
Revdaunda	-	-	378671	-	-	-	-	-	66540	-
Dharmtar	791814	137174	298188	52086	-	-	-	-	378671	-
Dahanu	-	-	1686286	2234	-	-	-	-	1279262	-
Dabhol	-	-	378731	-	-	-	-	-	1688520	-
Others	9686	-	-	-	-	-	277	-	378731	277
	-	-	-	1750	-	-	100	-	9686	277
	-	-	-	-	-	-	-	-	1750	100

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers / Sailing Vessels 1996-97. (Contd.)
(In Tonnes)

State / Selected Port	Steamers				Sailing Vessels				Total		Sailing Vessels
	Overseas	Coastal	Overseas	Coastal	Overseas	Coastal	Overseas	Coastal	Steamers		
	UL	L	UL	L	UL	L	UL	L			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	
KERALA	-	135813	13026	32933	-	-	2188	-	181772	2188	
Neendakara	-	135813	-	-	-	-	-	-	135813	-	
Kozhikode/Bey pore	-	-	13026	32933	-	-	-	-	45959	-	
Azhikkai	-	-	-	-	-	-	2188	-	-	2188	
Goa (Panaji)	167221	84658	52051	90716	-	-	-	-	394646	-	
DAMAN & DIU	-	-	-	-	-	-	-	-	-	-	
Daman	-	-	-	-	-	-	-	-	-	-	
KARNATAKA	78988	196958	115792	-	6535	1626	12759	110886	391738	131806	
Malpe	-	-	-	-	-	-	4216	24069	-	28285	
Karwar	78988	196958	115792	-	-	-	-	600	391738	600	
Mangalore	-	-	-	-	6535	1626	8343	81086	-	97590	
Others	-	-	-	-	-	-	200	5131	-	5331	
TAMILNADU	31397	3046	-	-	-	-	-	71	34443	71	
Cuddalore	13781	3046	-	-	-	-	-	71	16827	71	
Ennor	15171	-	-	-	-	-	-	-	15171	-	
Valinokkam	2445	-	-	-	-	-	-	-	2445	-	

Note : UL - Unloaded; L - Loaded.

3.1.12 Port-Wise Cargo Traffic Handled By Steamers / Sailing
Vessels - 1996-97 (Contd.)

State / Selected Port	(In Tonnes)										
	Steamers			Sailing Vessels				Total			
	Overseas		Coastal	Overseas		Coastal	Steamers		Sailing Vessels		
	UL	L	UL	UL	L	UL	UL	L	UL	L	11.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.		
PONDICHERY	45419	-	-	-	-	-	-	-	45419	-	-
ANDHRA PRADESH	579240	915801	10004	721500	-	-	-	-	2226545	-	-
Kakinada	579240	915801	10004	-	-	-	-	-	1505045	-	-
Krishnapatanam	-	-	-	-	-	-	-	-	-	-	-
Rawa	-	-	-	721500	-	-	-	-	721500	-	-
ORISSA	50753	88100	-	-	-	-	-	-	138853	-	-
Gopalpur	50753	88100	-	-	-	-	-	-	138853	-	-
LAKSHADWEEP	...	...	...	...	...	...	...	...	...	...	...
ANDAMAN & NICOBAR	-	-	234486	60909	-	-	-	-	295395	-	-
TOTAL	10748668	7690807	6109530	3135336	21066	63726	15367	160131	27684341	260290	

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
1981-82	905	1012	23418	22067	24323	23079
1982-83	1027	1125	24272	24217	25299	25342
1983-84	649	888	24439	24522	25088	25410
1984-85	446	682	24582	24595	25028	25277
1985-86	-	-	53213	52363	53213	52363
1986-87	-	-	55261	55751	55261	55751
1987-88	91	-	78978	78829	79069	78829
1988-89	-	-	87188	87197	87188	87197
1989-90	-	-	83284	82655	83284	82655
1990-91	-	-	65040	62551	65040	62551
1991-92	-	-	70633	70426	70633	70426
1992-93	41	-	68553	66068	68594	66068
1993-94	-	-	69823	68975	69823	68975
1994-95	-	-	72167	69005	72167	69005
1995-96	-	-	83671	78510	83671	78510
1996-97	15	1	77568	73937	77583	73938

3.2.2 - State-Wise Passenger Traffic - Overseas And Coastal

		(In '00 Numbers)												
State/UT/Port	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97		
1	2	3	4	5	6	7	8	9	10	11	12	13		
GUJARAT	244	283	283	596	10697	1056	1056	1602	1037	325	309	486		
Embarked	125	168	168	311	5329	531	531	827	551	163	158	243		
Disembarked	119	115	115	285	5368	525	525	775	486	162	151	243		
MAHARASHTRA	102429	107078	140304	155919	139701	121817	135137	128146	132928	139669	160532	134077		
Embarked	51660	53356	70238	77968	70199	62236	67790	65396	66964	71437	82900	68871		
Disembarked	50769	53722	70066	77951	69502	59581	67347	62750	65964	68232	77632	65206		
GOA	1472	2194	1587	1587	-	-	-	-	-	-	-	-		
Embarked	775	1060	817	817	-	-	-	-	-	-	-	-		
Disembarked	697	1134	770	770	-	-	-	-	-	-	-	-		
KERALA	-	-	20	20	36	33	33	39	50	67	46	46		
Embarked	Neg.	Neg.	10	10	11	4	4	21	26	43	14	14		
Disembarked	Neg.	Neg.	10	10	25	29	29	18	24	44	32	32		

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

(In '00 Numbers)

State/UT/Port	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
1	2	3	4	5	6	7	8	9	10	11	12	13
LAKSHADWEEP	-	-	14021	14380	14494	14020	14800	14852	15280	15172	15690	15543
Embarked	-	-	7051	7190	7247	7010	7400	7447	7640	7586	7845	7772
Disembarked	-	-	6970	7190	7247	7010	7400	7405	7640	7586	7845	7771
ANDAMAN GROUP	854	854	854	854	3288	4685	4833	4833	4833	1009	1253	1369
Embarked	375	375	375	375	1547	2269	2308	2308	2308	523	570	683
Disembarked	479	479	479	479	1741	2416	2525	2525	2525	566	683	686
LAKSHADWEEP GROUP	577	603	829	1029	1047	...	...	...	...	...	...	...
Embarked	278	302	410	517	509	...	...	...	...	...	...	...
Disembarked	299	301	419	512	538	...	...	...	...	...	...	...
ALL MINOR/INTERMEDIATE PORTS	105576	111012	157898	174385	169263	141611	155859	149472	154128	156342	177830	151521
Embarked	53213	55261	79069	87188	84642	72050	78033	75999	77489	79752	91487	77563
Disembarked	52363	55751	78829	87197	84421	69561	77826	73473	76639	76590	86343	73938

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

(In Number)												
Type of Vessel	Gujarat	Mahara- shtra	Goa	Daman : & Diu	Karna- taka	Kerala	Tamil Nadu	Pondi- cherry	Andhra Pradesh	Orissa	Sea Island	
year	2	3	4	5	6	7	8	9	10	11	12	
STEAMERS												
1990-91	1273	164	176	-	56	41	32	4	128	5	...	
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	1571	
1994-95	2313	433	104	-	73	65	27	2	126	9	1612	
1995-96	2559	500	104	-	63	71	19	4	216	9	1786	
1996-97	2494	418	104	-	74	71	16	-	180	9	4812	
SAILING VESSEL												
1990-91	5082	19150	16	253	821	481	61	44	-	-	...	
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	-	27	
1994-95	5613	7772	11	212	847	410	22	-	-	-	58	
1995-96	4829	14484	11	120	993	378	28	-	-	-	17	
1996-97	7518	14077	11	120	1057	378	14	3	-	-	-	
TOTAL												
1990-91	6355	19314	192	253	877	522	93	48	128	5	...	
1991-92	6378	19932	193	427	994	459	76	23	143	7	...	
1992-93	4216	18507	115	255	1245	447	64	23	153	10	1578	
1993-94	8825	20185	115	255	878	444	88	2	184	11	1639	
1994-95	7926	8205	115	212	920	475	49	2	126	9	1844	
1995-96	7388	14984	115	120	1056	448	47	4	216	9	4829	
1996-97	10012	14495	115	120	1131	448	30	3	180	9	4507	

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

3.4.1 Employment At Minor Ports (1996-97)

States/UTs	Sanctioned	Officers		Regular Workers		Casual Worker
		Actual	Sanctioned	Actual	Sanctioned	
Gujarat	117	108	3238	2603	419	
Maharashtra	-	-	236	227	-	
Goa	10	7	168	139	-	
Daman & Diu	3	3	20	20	5	
Karnataka	124	92	50	30	-	
Kerala	308	277	-	-	1200	
Tamil Nadu	182	173	70	52	-	
Pondicherry	8	5	113	99	1000+	
Andhra Pradesh	5	3	73	57	3	
Orissa @	237	144	50	50	302	
Andaman & Nicobar Islands	15	12	813	775	58	
Lakshadweep	256	217	-	-	4	
Total	1265	1041	4831	4052	2991	

* Private labourers were engaged by the clearing agency during shipment operation.
 @ Data relates to 1995-96.

3.5.1 Physical Performance At Minor Ports (1995-96 and 1996-97)

Maritime State/UT					
Port	No. of Vessels Left	Average Waiting Time (In Days)	Average Turn Round Time (In Days)	1995-96	1996-97
Gujarat					
Porbandar	111	4.9	5.0	5.7	5.0
Okha	126	3.2	1.0	1.0	1.0
Veraval	14	7.4	1.8	23.6	18.2
Bedi	286	-	-	-	-
Sikka	95	-	1.0	-	1.0
Mahuva	9	-	-	-	-
Gogha	17	-	-	-	-
Jafrabad*	514	0.1	0.5	0.6	-
Bhavnagar @	59	-	-	-	-
Pipavav	-	-	-	-	-

* Jafrabad is a direct berthing port and handling only clinker 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 (1995-96 and 1996-97) (Contd..)

Maritime State/UT							
Port	No. Of Vessels		Average Waiting Time (In Days)	Average Turn Round Time (In Days)			
	Left			1995-96	1996-97		
Karnataka	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	
	Kawar	63	72	-	-	-	
	Tadri	65	28	-	-	-	
	Kundapura	30	24	-	5.0	5.0	
	Hangarkatta	2	-	-	-	-	
	Malpe	125	125	-	-	-	
	Old Mangalore	736	837	-	-	-	
	Belekeri	-	-	-	-	-	
Honavar	-	2	-	-	-		
Tamil Nadu	Cuddalore	18	13	0.1	-	0.4	
	Rameshwaram	-	1	-	-	-	
	Colachel	-	3	-	-	-	
Daman	-	-	-	-	-	-	
Orissa	Gopalpur	12	12	0.8	0.8	-	
Maharashtra	Ulwa Belapur	190	-	0.3	-	-	
	Revdanda	-	-	-	-	-	
	Ratangiri	-	153	-	0.6	1.8	
	Ranbar (Sub-port)	-	18	-	0.6	1.4	
	Dabhol	-	6	-	0.2	3.3	
	Revdanda	-	56	-	(Mother ship anchors 15-16 K.M from port)	-	

3.5.1 Physical Performance At Minor Ports (1995-96 and 1996-97) (Contd...)

Maritime State/UT		No.Of Vessels		Average Waiting		Average Turn Round	
Port	Left			Time (In Days)	Time (In Days)		
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	

Kerala*

Kozhikoda	363	363	16.9	16.9	30.4	30.4	
Neendakara	5	5	1.0	1.0	21.0	21.0	
Azhikkal	45	45	-	-	30.4	30.4	

A & N Islands

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

* Data relates to 1995-96.

3.5.2 Equipment Available At Various Minor Ports

Maritime state/UT : Andhra Pradesh

Equipment/Port	Kakinada Kakinada Deep Water			
	1995-96	1996-97	1995-96	1996-97
1. Dredgers	5	5	-	-
2. Cranes				
(a) upto 5 tons	1	1	-	-
(b) 6-10 tons	1	1	-	-
(c) above 10 tons	-	-	-	2
3. Barges				
(a) Dumb (Hopper barge)	7	7	-	-
(b) Self-propelled	2	Nil	-	-
(c) Water barges	-	2	-	-
4. Launches	8	8	-	-
5. Tugs	8	8	-	-
6. Pablos	-	-	-	3
7. Fork lifts	-	-	-	12

3.5.2 Equipment Available At various Minor Ports (Contd...)

Maritime state/UT : Karnataka

Equipment/Port	Karwar			Kundapura			Old Mangalore		
	1995-96	1996-97	1996-97	1995-96	1996-97	1995-96	1995-96	1996-97	1996-97
1. Dredgers	1	1	-	-	-	-	-	-	-
2. Cranes									
(a) upto 5 tons	-	-	-	-	-	-	-	-	-
(b) 6-10 tons	-	-	-	-	-	-	-	-	-
(c) above 10 tons	3	3	-	-	-	-	1	1	1
3. Barges									
(a) Dumb	-	-	-	-	-	-	-	-	-
(b) Self-propelled	-	-	-	-	-	-	-	-	-
(c) Water barges									
4. Launches	-	-	-	1	-	-	1	-	-
5. Tugs	1	1	-	1	-	-	1	1	2

3.5.2 Equipment Available At various Minor Ports (Contd..)

Maritime state/UT : A & N Islands

Equipment/Port	Port Blair	Rangat	Mayabunder	Diglipur
	1995-96	1996-97	1995-96	1996-97
1. Dredgers	-	-	-	-
2. Cranes				
(a) upto 5 tons	18	18	1	1
(b) 6-10 tons	7	7	1	1
(c) above 10 tons	4	4	-	-
3. Barges				
(a) Dumb	-	-	-	-
(b) Self-propelled	-	-	-	-
4. Launches	6	6	-	-
5. Tugs	2	2	-	-

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

Maritime state/UT : A & N Islands					
Equipment/Port	Hut Bagar 1995-96 1996-97 1995-96 1996-97	'Nancowry 1995-96 1996-97	Campbell 1995-96 1996-97		
1. Dredgers	-	-	-	-	-
2. Cranes					
(a) upto 5 tons	3	3	-	-	1
(b) 6-10 tons	7	2	1	1	1
(c) above 10 tons	-	-	-	-	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 : Tamilnadu

Equipment/Port	Cuddalore	Rameshwaram	Mayabunder	Kanya Kumari
	1995-96	1996-97	1995-96	1996-97
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	1	1	1	-
(b) Self-propelled	-	1	-	-
4. Launches	2	2	1	4
5. Tugs	-	-	-	-

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

Maritime state/UT :

Equipment/Port	Daman		Pondicherry	
	1995-96	1996-97	1995-96	1996-97
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	-	-	35	35
(b) Self-propelled	-	-	-	1
4. Launches	-	2	3	3
5. Tugs	-	-	-	-

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

Maritime state/UT :

Equipment/Port	Orissa/Gopalpur		Maharashtra		Lakshadweep	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
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	6	6	-	-	11	11
	4	4	4	-	3	3
4. Launches	3	3	12	2	34	34
5. Tugs	1	1	2	2	9	9

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

Maritime state/UT : Kerala

Equipment/Port	Calicut			Neendakara			Kozhikode			Azhikkal		
	1995-96	1996-97	1995-96	1995-96	1996-97	1996-97	1995-96	1995-96	1996-97	1995-96	1996-97	1996-97
1. Dredgers	1	1	2	2	2	2	1	1	-	-	-	-
2. Cranes												
(a) upto 5 tons	5	5	-	-	-	-	-	-	-	1	1	1
(b) 6-10 tons	-	-	-	-	-	-	-	-	-	-	-	-
(c) above 10 tons	1	1	-	-	-	-	-	-	-	-	-	-
3. Barges												
(a) Dumb	-	-	-	-	-	-	-	-	-	-	-	-
(b) Self propelled	-	-	4	-	-	4	-	-	-	-	-	-
4. Launches	-	-	-	-	-	-	-	-	-	-	-	-
5. Tugs	2	2	2	2	2	2	1	1	-	-	-	-

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

Maritime state/UT : Gujarat

Equipment/Port	Magdalla		Porbander		Okha		Bedi	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1996-97	1996-97
1. Dredgers	1	-	1	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	3	9
3. Barges								
(a) Dumb	2	3	2	2	4	4	4	12
(b) Self-propelled	-	-	-	-	3	3	3	2
4. Launches	2	2	1	2	2	2	2	3
5. Tugs	1	1	4	4	5	5	5	6

3.5.2 Equipment Available At Various Minor Ports (Contd.)

Maritime state/UT : Gujarat										
Equipment/Port	Veraval		Navalakhi		Bhavnager		Mandvi		Jafrabad	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
1. Dredgers	2	1	-	-	2	2	1	2	1	1
2. Cranes										
(a) upto 5 tons	-	3	-	-	-	-	-	-	-	-
(b) 6-10 tons	-	-	-	-	-	-	-	-	-	-
(c) above 10 tons	5	5	7	7	-	-	-	-	-	-
3. Barges										
(a) Dumb	18	18	4	4	5	5	15	10	-	-
(b) Self Propelled	-	-	-	-	2	2	-	-	1	1
4. Launches	-	-	-	-	1	1	1	1	-	1
5. Tugs	5	5	4	4	5	5	5	3	1	1

3.5.3 Draft At Ports as On 31st March, 1997

Maritime State/Gujarat

Name of the Port	Intermediate/Minor	Max. Depth available at anchorage	Berth Type	No. of Berth by existing Draft				
1	2	3	4	5	6	7	8	9
Dahol Porbandar	Minor	20 mtrs. 7.0 mtrs	Wharf Deep water Berth	-	-	1	-	1
Bedi	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	-	-	2	-	2
Veraval	Intermediate	13-14 mtrs.	Direct berth for small coaster with 3 mtrs depth	-	1	-	-	1
	Fair Weather port							

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

Maritime State Gujarat

Name of the Port	Intermediate/ Minor	Max. Depth available at anchorage	Berth Type	No. of Berth 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
Mul-Dwarka	Intermediate Weather Port	13-14 Mtrs.	Direct berth for small coaster	-	2	-	-	2
Talsaja	Minor	-	Rest in Mid stream working through private cargo barges 1 Jetty RCC piled with RCC slabs decking	-	-	-	-	3
Okha	Intermediate	42 feet	Sayaji pier Dry Bulk (East) Sheet piled Wharf Lighter Cargo Passenger Jetty	-	-	-	-	1
Valsad	Minor	No anchorage fixed	RCC jetty	-	-	-	-	-
Billimora	Minor	-	RCC jetty wooden Jetty	1	-	-	-	1
				3	-	-	-	3

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

Maritime Stages

Name of the Intermediate/ Port	Minor	Max. Depth available at anchorage	Berth Type	No. of Berth by existing Draft				
				Below 2 meters	2-4 meters	4-6 meters	6 meter above	Total
1	2	3	4	5	6	7	8	9
Magdalla	Intermediate	11 mtr.	RCC Jetty	-	4	-	-	4
Valsad	Minor	No Anchorage fixed	RCC Jetty	1	-	-	-	1
Kolok	Minor	No Anchorage fixed	Fishing Jetty	-	-	-	-	1
Vansi Borsl	Minor	11 mtr.	RCC Fishing Jetty	1	-	-	-	1
Onjal	Minor	11 mtr.	RCC Fishing Jetty	1	-	-	-	1
Umargaon	Minor	No Anchorage fixed	RCC Fishing Jetty	2	-	-	-	2
Umarasdi	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, 1997 (Contd..)

Maritime Stategujarat

Name of the Port	Intermediate/Minor	Max.Depth available at anchorage	Berth Type	No. of Berth 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	
Bhavnagar	Intermediate	At D.W.A. 10 Metres	1) Concrete Jetty RCC piles with slab with decking	-	-	1	-	-	1
			2) Akwade Wharf RCC wall	1	-	-	-	-	1
			3) North Quay RCC with well foundation	-	-	1	-	-	1
Gogha	Minor	-	1 Jetty RCC	1	-	-	-	-	-
Jafrabad	Intermediate	14. mtrs.	Clinkers jetty T Shape jetty	-	-	1	-	-	1
				-	-	1	-	-	1

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

Maritime State/ Maharashtra		Max. Depth available at anchorage	Berth Type	No. of Berth by existing Draft					Total
Name of the Port	Intermediate/ Minor			Below 2 meters	2-4 meters	4-6 meters	6 meters above		
1	2	3	4	5	6	7	8	9	
Dahanu	Minor	6 mts	Passenger jetty	-	-	1	-	-	1
Satpali	Minor	3mts	Stepping jetty	-	1	-	-	-	1
Kelwa Mahim	Minor	5mts	Passenger jetty	-	-	-	-	-	1
Arnala	Minor	7mts	Passenger jetty	-	-	1	-	-	1
Dantiwara	Minor	7mts	Stepping jetty	-	-	-	-	-	1
Manori	Minor	8mts	Passenger jetty	-	-	-	-	-	1
Versova	Minor	8mts	Passenger jetty	-	-	-	-	-	1
Bandra	Minor	4mts	Passenger jetty	-	-	-	-	-	1
Bassein	Minor	5mts	Wharf	-	-	1	-	-	1
Bhiwandi	Minor	5-6mts	stepping	-	-	-	-	-	-
Kalyan	Minor	6-8mts	Stepping jetty	1	-	-	-	-	1
Thane	Minor	2mts	Stepping jetty	1	-	-	-	-	1

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

Maritime State/ Maharashtra (Contd...)

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	
Ulwa (Belapur)	Minor	4mts	Stepping Jetty	1	-	-	-	1	
Panvel	Minor	-	Wharf	-	-	-	-	-	
Mora	Minor	6mts	Stepping	1	-	-	-	1	
Karanja	Minor	2mts	Stepping	1	-	-	-	1	
Rewas	Minor	5mts	T Type	1	-	-	-	1	
Mandwa	Minor	7mts	L Type	-	1	-	-	1	
Charamtar	Minor	3mts	T Type	-	-	2	-	2	
Murud	Minor	3mts	Stepping Jetty	-	-	-	-	-	
Rajpuri	Minor	4mts	Stepping Jetty	-	1	-	-	1	
Dhigi	Minor	6mts	T Type	-	-	-	-	-	
Shriwardhan	Minor	2mts	Jetty	-	1	-	-	1	
Revdanda	Minor	14-24mts	Cap itive	-	-	-	-	-	

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

Maritime State/UT: Maharashtra (Contd..)								
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
Bankot	Minor	8mts	I, Type Jetty	-	-	1	-	1
Harnai	Minor	7mts	I Type Jetty	-	1	-	-	1
Dabhol	Minor	8mts	I Type Jetty	-	1	-	-	1
Palsbet	Minor	5mts	I Type Jetty	-	1	-	-	1
Boriya	Minor	8mts	I Type Jetty	-	1	-	-	1
Jalgaed	Minor	8mts	I Type Jetty	-	-	-	-	1
Ratnagiri	Minor	20mts	I Type Jetty	-	-	-	1	1
Ranpar (Sub port)	Minor	20mts	I Type Jetty	1	-	-	-	1
Jaitpur	Minor	2mts	I Type Jetty	1	-	-	-	1
		4mts	I Type Jetty	1	-	-	-	1
		3mts	I Type Jetty	1	-	-	-	1
Vijaydurg	Minor							

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

Matitime State/UT: Maharashtra (Contd.)								
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
Deogad	Minor	4mts	Sloping jetty	-	1	-	-	-
Malvan	Minor	4mts	L Type jetty	1	-	-	-	-
Vengurla	Minor	5mts	Sloping jetty	-	-	-	-	-
Tarapur	Minor	2mts	Jetty	1	-	-	-	-
Redl	Minor	5mts	Jetty	-	1	-	-	-
Kiran Pani	Minor	-	Jetty	-	-	-	-	-
Navapur	Minor	2mts	Jetty	-	1	-	-	-
Mandad	Minor	1mts	Sloping jetty	1	-	-	-	-
Nandgaon	Minor	2mts	L Type	-	-	-	-	-
Elephanta	Minor	8mts	L Type jetty	-	1	-	-	-
Orissa								
Gopalpur	Minor	18 mtr.	Open Road Stead Port	-	-	-	1 (above 9 mtr.)	-

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

Maritime State/ Tamilnadu									
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. Cuddalore	Intermediate	Open roadstead Port		Any size of vessel can be anchored in the mid stream.					
2. Nagapattinam	Intermediate	Open roadstead Port. Depth available according to draft of the vessel.							
3. Kameshwaram	Minor	2 Fathom Open Roadstead							
4. Pamban	Minor	Vessel can anchor in Kundagal channel in depth of 5.8 to 7 Mtrs. Small Vessel can anchor west of Kundagal Gut (Open Wharf)							
5. Colachel	Minor	13 Mtrs. Open Roadstead							
6. Valinokkam	Minor	About 12 mtrs. Open Roadstead							
7. Kanyakumari	Minor								
8. Ennore	Minor	(Not a steamer calling Port) 25 fathoms. Open Roadstead							

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

Maritime State/ Andhra Pradesh

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 Total above
1	2	3	4	5	6	7	8
1. Kakinada	Intermediate	12. mtrs working depth available	Open roadstead port				9
2. Kakinada Deep water	Intermediate	9.5 Mts	Shore connected break in a continuous row	-	-	-	3
Diu							
Diu	Minor	10 Fathom	RCC Jetty	-	1	-	2
Vaniakbar (Sub-Port)	Minor	10 Fathom	Rcc Jetty	1	-	-	1
Daman	Minor	5 Fathom	1. Rcc jetty at Nani Daman 2. Rcc jetty at Moti Daman	-	-	1	1
				-	1	-	1

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

Maritime State/UT : Karnataka

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

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

Maritime State/UT : Karnataka(Contd.)

Name of the Port	Intermediate/ Minor	Max.Depth available at anchorage	Berth Type	No. of Berth 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		
Malpe	Minor	6 mtrs	Along side wharf near wooden jetty	-	-	1	-	-	1	
Hangarkatta	Minor	6.mtrs.	3 jetty 2 wharf	-	-	3	-	-	3	
Mangalore	Intermediate	3-5 mtrs.	Open Road Stead Back water for sailing vessel of 3 Mtrs. Draft & below	30 31 32 34	3(New south wharf) 8 (South wharf) 1 (Central wharf) 4-2(North wharf)	-	-	-	-	
Pondicherry	Minor	13-14 mtrs	RCC Pipes pier	-	-	-	-	1	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, 1996

Maritime State/UT : Kerala(Contd.)

Name of the Port	Intermediate/ Minor	Max.Depth available at anchorage	Berth Type	No. of Berth 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	
1.Kovalam-Vizhinjam	Minor	30 mtrs.	80 mtrs length	-	-	1	-	1	
2. Neendakara	Intermediate	17mtrs.	One concrete wharf	-	1 (3 Mtrs.)	-	-	1	
		4 Two temporary jetties		-	2 (3 Mtrs.)	-	-	2	
3. Azhikkal	Minor		Wharf		1 (3 Mtrs.)	-	-	1	
4. Calicut/ Bepore	Intermediate	6mtrs	R.C.Wharf	-	-	-	1 (152 mtrs)	1	

SECTION - IV

GENERAL TABLES

4.1.1 State-Wise Navigational Aids Maintained By Department of
Light-Houses and Light-Ships On 31.3.97

Maritime States/ U.Ts.	General Light house	Light buoy	VHF/HF RT set.	Decca Navigator Chain	Radio Beacon	Racons	Light Vessel	Launches	Light House Tender
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Gujarat	54	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	10	-	-	-	1	3	-	-	-
Pondicherry	1	-	-	-	-	1	-	-	-
Andhra Pradesh	12	-	-	-	2	-	-	-	-
Orissa	5	-	5	-	2	1	-	-	-
West Bengal	1	-	3	-	-	1	-	-	-
Andaman & Nicobar Islands	26	-	-	-	1	4	-	-	1
Lakshadweep	14	-	-	-	-	4	-	-	-
Total	163	12	40	4	10	23	1	4	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					
	1992	1993	1994	1995	1996	1997	1992	1993	1994	1995	1996	1997	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Argentina	0.90	0.90	1.18	1.26	1.29	1.58	3.33	3.17	3.34	4.04	4.34	4.84	
Australia	...	1.62	1.55	1.76	1.99	35.92	...	0.96	1.01	1.06	1.13	4.31	
Belgium	22.60	22.06	23.41	24.37	24.80	27.81	23.02	22.26	23.53	24.30	24.81	28.16	
Bangladesh	0.57	0.62	0.75	0.94	0.68	...	0.08	0.16	0.15	0.16	0.15	...	
China	8.47	11.56	12.16	14.03	15.38	...	8.82	8.68	10.39	11.79	11.08	...	
Colombia	1.80	1.86	1.94	2.19	3.17	3.96	0.84	0.94	1.13	1.15	1.11	2.26	
Egypt	1.33	1.91	...	...	...	2.70	1.14	1.23	...	...	2.78	1.03	
Finland	2.58	2.71	3.22	3.09	3.08	3.25	2.67	2.66	2.97	2.84	2.78	3.01	
France	15.20	...	...	...	14.81	...	5.10	...	...	...	4.61	...	
Germany (FR)	9.83	9.95	10.40	10.62	10.70	...	4.63	4.80	5.42	5.62	5.92	...	
Greece	3.15	2.70	2.75	3.21	...	...	1.70	1.54	1.76	1.83	...	...	
Hongkong	4.78	5.69	6.84	...	...	...	2.27	2.32	2.86	...	...	...	
India	6.69	6.97	7.68	8.73	9.44	11.13	4.00	5.01	4.88	5.45	5.42	5.81	
Indonesia	3.00	3.02	3.90	4.69	5.39	...	12.63	15.35	18.92	20.66	18.03	...	
Italy	16.78	18.51	...	...	...	...	3.84	4.28	...	...	...	...	
Japan	58.97	60.14	62.62	62.79	65.24	66.18	8.34	8.78	9.27	9.57	9.56	9.94	
Korea (Rep. Of)	18.54	20.52	22.81	...	...	...	5.24	6.10	6.23	...	...	...	
Malaysia	2.75	3.07	3.68	...	...	5.20	1.64	1.75	1.96	...	...	2.80	
Mexico	4.34	4.38	4.39	4.44	5.16	5.17	10.45	10.52	10.81	10.82	11.65	11.29	
Netherlands	24.10	23.08	23.92	24.66	24.44	26.07	7.42	7.37	7.34	7.01	7.07	7.39	
Norway	1.53	1.66	1.84	1.98	1.90	2.12	8.48	9.12	10.43	11.29	12.72	13.17	

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

(In Million Tonnes)

Country	Unloaded												Loaded			
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1	2	3	4	5	6	7	8	9	10	11	12	13				
Panama	5.27	5.18	5.88	5.89	7.03	6.40	8.20	8.42	8.81	10.55	9.74	9.92				
Portugal	2.71	2.59	2.84	3.11	2.76	...	0.74	0.70	0.85	0.81	0.69	...				
Poland	1.27	1.28	1.13	1.24	...	...	2.11	2.65	2.83	2.39	...	...				
Singapore	11.37	13.25	13.71	14.58	14.96	15.69	8.50	9.56	10.47	10.83	11.22	11.61				
Spain	11.16	10.60	11.19	12.73	12.32	...	3.40	3.62	4.02	3.94	4.16	...				
Sweden	4.61	4.82	5.21	5.33	...	5.77	3.91	4.02	4.26	4.40	...	5.21				
Russian Federation	0.61	0.40	0.16	0.14	0.12	...	2.23	2.30	2.12	1.87	1.18	...				
United Kingdom	14.69	14.59	15.03	14.91	...	...	11.15	12.60	14.53	14.78	...	...				
United States	40.29	44.89	49.84	48.50	50.20	...	32.69	30.01	28.36	33.85	32.39	...				
Ukraine	1.39	0.42	0.28	0.36	0.27	0.48	3.78	2.43	2.10	1.93	1.80	4.60				

Source (Except India) : Monthly Bulletin of Statistics (U.N.) - October, 1998

**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 1997-98**

(Value In Rs. Crores)					
Year	Total Exports Including Re-exports	Share In Exports (In Per- centage)	Total Imports	Share In Imports (In Per- centage)	Share Of Sea borne Trade To Total Foreign Trade (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	126286	66.9	151554	80.0	74.0

Source : i) Ministry Of Commerce (DGCI&S)
ii) RBI Publication, Report on currency and finance
P) : Provisional

4.1.4 Value of India's Foreign Trade 1996-97 & 1997-98
Commodity wise Exports

Commodities	(Rs. in Crore)		
	1996-97	1997-98	Change %
Tea	1037.1	1505.1	45.1
Coffee	1426.6	1621.7	13.7
Pulses	131.6	354.7	169.5
Basmati Rice	1247.6	1674.3	34.2
Tobacco Mnfg & Unmnfg	756.8	1058.5	39.9
Spices	1202.1	1407.7	17.1
Cashew	1285.5	1383.9	7.7
Seasme & Niger Seeds	275.3	334.2	21.4
Spirit & Beverages	201.3	73.5	-63.5
Guargum meal	356.1	545.2	53.1
Oil meals	3495.3	3403.6	-2.6
Castor oil	627.2	574.7	-8.4
Processed Vegetables	116.8	108.9	-6.8
Sugar & Molasses	1077.9	248.2	-77.0
Fruits & fresh vegetables	578.8	565.6	-2.3
Processed fruits & juices	209.4	201.5	34.4
Non-Basmati Rice	1924.7	1600.4	-16.8
Meat & Preparation	708.9	802.7	13.2
Marine Products	4007.6	4312.7	7.6
Cotton raw incl. waste	1574.5	639.9	-46.7
Wheat	298.4	0.4	-99.9
Iron Ore	1706.4	1763.2	3.3
Coal	82.6	62.6	-24.2
Processed minerals	1203.4	1228.4	2.1
Mica	25.0	24.8	-0.8
Other ores & minerals	1144.4	883.3	-22.8
Leather & Manufactures	1068.8	1068.5	0.0
Footwear of leather	1197.9	1008.9	-15.8
Leather	1044.5	865.3	-17.2
Gems & jewellery	16872.1	19013.6	12.7
Drugs, Pharmaceuticals & fine chemicals	4341.8	5228.5	20.4
Dyes intmotes & coaltar chemicals	1994.9	2228.1	11.7

4.1.4 Value of India's Foreign Trade 1996-97 & 1997-98
Commodity wise Exports (Contd..)

(Rs. in Crore)

Commodities	1996-97	1997-98	Change %
Inorganic/organic chemicals	1971.4	2195.1	11.3
Cosmetic/toiletries	557.5	611.6	9.7
Rubber manufactured products	1160.9	1215.2	4.7
Glass/glassware/ceramic/refractories/cement	690.2	785.0	13.7
Paper/wood products	674.0	574.9	-14.7
Plastic & linoleum products	1914.9	1904.2	-0.6
Ferro alloys	340.6	407.2	19.6
Manufacture of metals	3242.9	3984.7	22.9
Machinery & Instruments	3752.7	4313.6	14.9
Transport equipment	3438.9	3116.6	-9.4
Groundnuts	325.8	557.2	71.0
Iron & Steel bar/rods	549.4	464.5	-15.5
Primary & semifinished iron & steel	2183.5	2394.4	9.7
Electronic goods	2782.0	2599.6	-6.6
Cotton yarn fabrics madeups etc.	11082.1	12093.5	9.1
silk yarn fabrics madeups	457.2	554.0	21.2
Manmade yarn fabrics madeups	2494.4	2854.1	14.4
Woolen yarn, fabrics, madeups etc.	368.0	370.3	0.6
Readymade garments cotton incl. accessories	10439.1	10428.9	-0.1
Readymade garments silk	275.2	347.0	26.1
Readymade garments manmade fibres	1881.0	2312.6	22.9
Readymade garments wool	308.1	392.5	27.4
Readymade garments of other textile material	420.8	551.8	31.1
colr & colr manufactures	216.5	253.6	17.1
Jute mfg excl. floor carvings	522.4	331.9	-36.5
Carpets (Excl. Silk Manmade)	1548.9	1506.1	-2.8
Floor covering of jute	29.2	31.0	6.2
Others	11968.4	25155.6	110.2
Grand Total	118617.3	126285.8	6.3

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

4.1.5 Value of India's Foreign trade 1996-97 and 1997-98
Commodity-wise Imports

Commodities	(Rs. in Crore)		
	1996-97	1997-98	% Change
Petroleum and Products	35628.7	30538.2	-14.3
Non-electrical machinery	12537.4	13160.3	1.7
Project goods	7520.1	5878.8	-21.8
Pearls and Precious Stones	10383.6	11680.4	12.5
Electronic goods	5054.6	7360.6	45.6
Organic chemicals	6223.0	6667.5	7.1
Fertiliser manufactured	2434.2	3065.2	25.9
Iron and Steel	4578.9	5293.7	15.6
Transport Equipment	5269.2	3368.1	-36.1
Non-ferrous metals	3924.9	3377.1	-14.0
Edible Oil	2929.2	2732.8	-6.7
Metal ferrous ores and metal scrap	2909.6	2296.0	-21.1
Coal, coke and briquettes	3531.8	4347.6	23.1
Inorganic chemicals	3223.0	4452.4	38.1
Artificial resins, plastic materials	2825.7	2564.9	-9.2
Gold & Silver	3519.8	10849.3	208.2
Professionals Instrument, etc. Except Electronic	1961.8	2652.4	35.2
Cashewnut	667.6	743.9	8.2
Pulp and waste paper	822.7	1046.0	27.1
Wood & wood products	957.3	1650.5	72.4
Textile yarn fabrics, madeups	1272.5	1491.8	17.2
Medicinal & pharm products	1089.2	1301.1	19.5
News Print	1096.1	999.6	-8.8
Manufactures of metals	1123.1	1210.5	7.8
Machine tools	1863.8	1555.6	-16.5
Electrical machinery	1155.0	1359.4	17.7
Others	13997.1	19909.8	42.2
Total	138919.9	151553.5	9.1

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

4.1.6 India's Overseas Trade During 1997-98 (Provisional)

(In Million Tonnes)

Trade	Indian		Foreign		Total
	Lines		Lines		
General Cargo	Loaded	3.33	22.96	26.29	
		(12.7%)	(87.3%)	(100.0%)	
	Unloaded	3.19	23.11	26.30	
		(12.1%)	(87.9%)	(100.0%)	
Dry Bulk	Total	6.52✓	46.07	52.59	
		(12.4%)	(87.6%)	(100.0%)	
	Loaded	2.51	38.75	41.26	
		(6.1%)	(93.9%)	(100.0%)	
	Unloaded	8.47	26.28	34.75	
		(24.4%)	(75.6%)	(100.0%)	
	Total	10.98✓	65.03	76.01	
		(14.4%)	(85.6%)	(100.0%)	
POL/Product & Other Liquid	Loaded	2.42	2.54	4.96	
		(48.8%)	(51.2%)	(100.0%)	
	Unloaded	43.61	25.27	68.88	
		(63.3%)	(36.7%)	(100.0%)	
Grand Total	Total	46.03✓	27.81	73.84	
		(62.3%)	(37.7%)	(100.0%)	
	Loaded	8.26	64.25	72.51	
		(11.4%)	(88.6%)	(100.0%)	
	Unloaded	55.27	74.66	129.93	
		(42.5%)	(57.5%)	(100.0%)	
	Total	63.53✓	138.91	202.44	
		(31.4%)	(68.6%)	(100.0%)	

Source : Indian Ports Association and Minor Ports

4.1.7 - Outlay And Expenditure - Port Sector

(Rs. In Crore)

Port	VIII Plan (1992-1997)		9th Plan (1997-2002) Proposed Outlay	1997-98		1998-99 (P)	
	Outlay	Expenditure		Outlay	Expn.	Outlay	Outlay
Calcutta *	421.00	172.50	465.00	45.22	27.92	30.10	30.10
Paradip	486.00	233.95	1260.00	224.84	117.62	120.00	120.00
Visakhapatnam	250.00	198.09	850.00	70.50	52.70	50.00	50.00
Chennai	570.00	222.88	1850.00	228.38	116.10	170.00	170.00
Tuticorin	65.00	76.54	410.00	34.18	16.19	55.00	55.00
Cochin	117.00	89.58	250.00	16.21	10.76	10.00	10.00
New Mangalore	98.00	218.90	280.00	31.44	16.86	30.00	30.00
Mormugao	123.00	84.86	260.00	15.42	7.90	15.00	15.00
J.L. Nehru	215.00	158.13	480.00	94.86	106.08	70.50	70.50
Mumbai	413.00	252.69	990.00	156.24	65.70	110.90	110.90
Kandla	226.00	99.95	850.00	85.08	49.61	65.50	65.50
Others @	232.00	169.83	855.00	339.85	98.51	227.00	227.00
Total	3216.00	1977.90	8800.00	1342.22	685.95	954.00	954.00

* : Includes Haldia, BHRTW and Jigger Khali Project.

@ : Comprises DCI, ALHW, NIPM, MPSC, R&D, CDO and Centre for Transport Research

Source : Annual Plan for Port Sector and IPA.

(P) : Provisional.

4.1.8 Outlay And Expenditure On Minor Ports

(Rs. In Crores)

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

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

(Rs. In Crores)			
	Central Scheme	State/Union Territories	Total
1	2	3	4
1990-91 Outlay Expenditure	-	40.73 50.26	40.73 50.26
1991-92 Outlay Expenditure	-	40.57 38.42	40.57 38.42
VIII Plan Outlay 1992-97 Expenditure	-	340.58 394.63	340.58 394.63
1992-93 Outlay Expenditure	-	59.79 42.82	59.79 42.82
1993-94 Outlay Expenditure	-	54.94 99.18	54.94 99.18
1994-95 Outlay Expenditure	-	78.58 66.89	78.58 66.89
1995-96 Outlay Expenditure	-	67.27 126.24	67.27 126.24
1996-97 Outlay Expenditure	-	67.58 59.50	67.58 59.50
1997-98 Outlay Anticipated Exp.	-	49.96 46.31	49.96 46.31

4.1.9 Transport Sector - Outlay And Expenditure Under The Plans

(Rs. In Crores)

Sector	Fifth Plan (1974-79)		Sixth Plan (1980-85)		Seventh Plan (1985-90)		Eighth Plan (1992-97)		Annual Plan (1997-98)		Anticipated Expenditure
	Out- lay	Expen- diture	Out- lay	Expen- diture	Out- lay	Expen- diture	Out- lay	Expen- diture	Out- lay	Expenditure	
1. Railway	2202	2063	5100	6585	12334	16549	27202	32302	8300	8403	
2. Roads	1353	1701	3439	3887	5200	6335	12833	16140	6028	5687	
3. Road Transport	461	503	1196	1276	1990	2151	4119	3538	1243	1155	
4. Ports (including minor ports)	571	488	647	725	1230	1513	3557	2302	1392	732	
5. Shipping	450	469	755	468	827	720	3669	3033	948	446	
6. I.W.T.	32	16	72	63	226	188	331	152	58	47	
7. Light Houses & Light ships	14	9	12	*	30	*	57	25	12	11	
8. Civil Air Transport	337	294	859	957	758	1948	4083	7249	2567	1515	
9. Other Transport @	-	-	-	-	49	72	239	244	50	163	
10. Total Transport Sector	5420	5543	12060	13961	22644	29476	56090	64985	20598	18159	
11. Share of Ports & LH & LS in the transport sector (%)	10.8	9.0	5.5	5.2	5.6	5.1	6.4	3.6	6.8	4.1	

* : 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 List Of Important International Ports For Total Traffic

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

4.1.1) List Of Important International Ports For Container Traffic

COUNTRY	PORT	COUNTRY	PORT	COUNTRY	PORT
SOUTH AFRICA	DURBAN	SAUDIA ARABIA	JEDDAH	BRAZIL	SANTOS
SINGAPORE	SINGAPORE	CANADA	MONTREAL VANCOUVER	TAIWAN	KAOSIUNG KEELUNG
PUERTO RICO	SAN JUAN	THAILAND	BANGKOK	U.A.E.	DUBAI PORTS
UNITED STATES	LONG BEACH NEW YORK/NEW JERSEY OAKLAND HAMPTON ROADS HONOLULU MIAMI HOUSTON LOS ANGELES BALTIMORE SAVANNAH	BELGIUM	ANTWERP ZEEBRUGGE	CHINA	SHANGHAI
		FRANCE	LE HAVRE MARSEILLES	HONGKONG	HONGKONG
		F.R. OF GERMANY	HAMBURG BREMER PORTS	PHILIPPINES	MANILA
				JAPAN	KOBE YOKOHAMA TOKYO NAGOYA OSAKA
UNITED KINGDOM	FELIXSTOWE LONDON	ITALY	LA SPEZIA		
AUSTRALIA	MELBOURNE BRISBANE	SPAIN	ALGECIRAS- BARCELONA 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 craneage 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.
