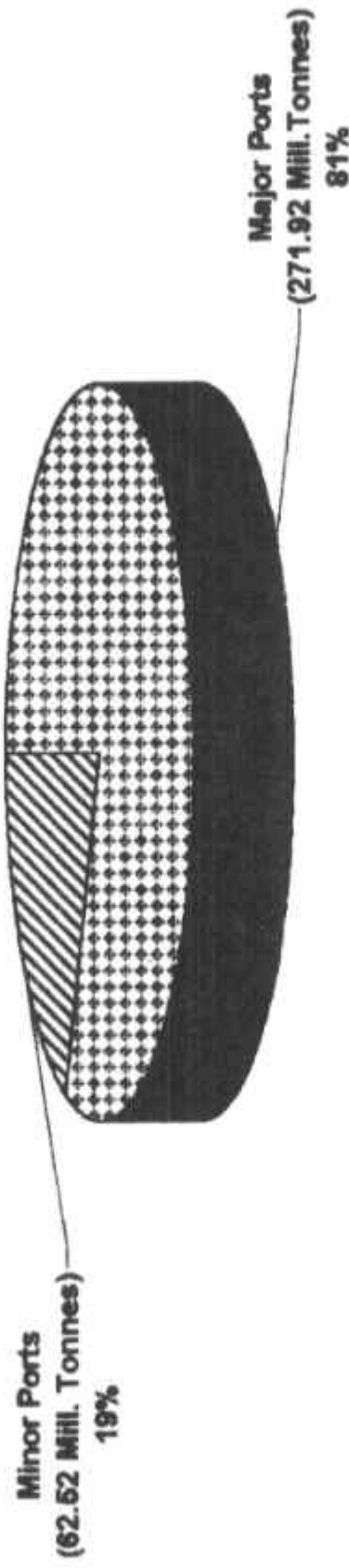


Basic Port Statistics of India 1999-2000

TRAFFIC HANDLED AT INDIAN PORTS



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

PREFACE

The Transport Research Wing of the Ministry of Surface Transport brings out the annual publication 'Basic Port Statistics of India'. It gives time series data relating to Major and Minor/Intermediate Ports. It also provides comprehensive and detailed statistics on port facilities, ship/cargo traffic handled at Indian Ports, origin/destination of overseas traffic, employment and finances of the various ports etc. The present publication gives data upto 1999-2000, the detailed data is however, limited to 1998-99. Brief notes on major ports in India and their performances along with supportive graphs have also been included in this publication.

The sources of data are the Annual Administration Reports of Major/Minor Ports for the year 1998-99 and monthly MIS returns, for the year 1999-2000. A separate section on information on container traffic, container handling facilities, reefer container traffic, inland movement of containers, container handling rate, availability and utilisation of container handling equipments are given. Considering the growing importance of minor ports a separate section has been added on Minor Ports which are in the State Sector and are funded by the respective State Government. This gives data on Port-wise, commodity-wise cargo traffic handled at Minor Ports in various Maritime States, facilities available, performance indicators, employment, passenger traffic etc.

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

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


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Abbreviation Used :

...	: Not Available	ICD	: Inland Container Depot
-	: Nil	RCC	: Reinforced Cement Concrete
Neg./N	: Negligible	LH & LS	: Light House and Light Ship
TEU	: Twenty Equivalent Unit	Mech.	: Mechanical
GRT	: Gross Registered Tonnage	Conv.	: Conventional
DLB	: Dock Labour Board	T	: Tonnes
DWT	: Dead Weight Tonnage	P	: Provisional
Ro Ro	: Roll On – Roll Off	RTG/RTGC	: Rubber Tyred Gantry Crane
CPT	: Calcutta Port Trust	RMQC	: Rail Mounted Quay Crane
HDC	: Haldia Dock Complex	FLT	: Fork Lift Truck
PPT	: Paradip Port Trust	TLT	: Top Lift Truck
VPT	: Visakhapatnam Port Trust	UL	: Unloaded
CHPT	: Chennai Port Trust	L	: Loaded
TPT	: Tuticorin Port Trust	DCI	: Dredging Corporation of India
COPT	: Cochin Port Trust	ALHW	: Andaman & Lakshadweep Harbour Works
NMPT	: New Mangalore Port Trust	R&D	: Research & Development
MOPT	: Mormugao Port Trust	MPSO	: Minor Ports Survey Organisation
JNPT	: Jawahar Lal Nehru Port Trust	SPM	: Single Point Mooring
MBPT	: Mumbai Port Trust	FRM	: Fertiliser Raw Material
KPT	: Kandla Port Trust	POL	: Petroleum, Oil and Lubricants
G.P.P.L	: Gujarat Pipavav Port Ltd.	HR Coil	: Hot Rolled Coil
G.A.P.L	: Gujarat Adani Port Ltd.	F.O	: Furnace Oil
LOA	: Length Overall	S.K.O	: Superior Kerosene Oil
H.S.D	: High Speed Diesel	EDC	: Ethylene Dichloride
LDO	: Light Diesel Oil		
MOU	: Memorandum of Understanding		

PORT ORGANISATION IN INDIA

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

2. There are 11 Major Ports viz. Kandla, Mumbai, J.L.Nehru, Mormugao, New Mangalore, Cochin, Tuticorin, Chennai, Visakhapatnam, Paradip and Calcutta/Haldia. There are 184 minor/intermediate Ports situated along the coast line of about 6,000 Kms. and at sea islands. Four of the major Ports viz. Mumbai, Calcutta, Chennai and Mormugao are more than 100 years old. Cochin and Visakhapatnam 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. 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) Storage, (viii) Medical, welfare & housing services, (ix) Management of port properties and estates.

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

9. As regards the capacity of a Port it is the aggregate of 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. Port-wise as well as commodity-wise break-up of capacity for the years 1998-99 and 1999-2000 are as under:-

Port	(In Million Tonnes)	
	Port Capacity as on	
	<u>31.3.99</u>	<u>31.3.2000</u>
1. Calcutta and Haldia	31.00	37.00
2. Paradip	11.25	12.85
3. Visakhapatnam	30.30	30.80
4. Chennai	26.62	27.62
5. Tuticorin	7.95	12.50
6. Cochin	13.45	13.45
7. New Mangalore	16.75	20.25
8. Mormugao	18.68	19.48
9. Mumbai	30.50	30.50
10. Kandla	37.00	39.00
11. J. L. Nehru	16.00	14.60
Total All Ports	<u>239.50</u>	<u>258.05</u>

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

		(In Million Tonnes)	
<u>Commodity</u>		<u>Capacity as on</u>	
	<u>31.3.99</u>	<u>31.3.2000</u>	
1. POL	105.70	118.50	
2. Iron Ore	43.00	43.00	
3. Coal	15.60	16.80	
4. Fertilisers	4.85	3.45	
5. General break bulk cargo	47.45	51.60	
6. Containers	22.90	24.70	
Total All Ports	<u>239.50</u>	<u>258.05</u>	

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

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

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

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

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

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

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

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

Under the Port laws (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. of India to Port Trusts on the lines of PSUs signing of MOU. 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 & MINOR PORTS
1999-2000**

TRAFFIC HANDLED AT MAJOR PORTS



PORTS

■ 1998-99 ▨ 1999-2000

PERFORMANCE OF PORTS DURING 1999-2000

There are 11 Major Ports, and 184 Minor/Intermediate working, non-working and captive/user's Ports in the country. The salient features of the performance of major and minor/intermediate Ports for the year 1999-2000 are described below.

MAJOR PORTS:

Vessels Handled: In 1999-2000, 15123 cargo vessels sailed from major ports as compared to 14540 in 1998-99. The increase in vessels handled was 4%.

Traffic Handled: A total of 271.92 million tonnes of cargo traffic was handled during 1999-2000 as compared to 251.74 million tonnes in 1998-99. The increase was 8 percent. The traffic increased in respect of all major commodities except Thermal Coal & Food Grains. Thermal Coal declined by 6.5%. The decline was at all leading Thermal Coal handling Ports except Visakhapatnam. Food Grains traffic declined by about 42%. The Food Grains traffic declined at all ports except Tuticorin and J. L. Nehru. There was about 55% increase in 'Others' traffic, 19% increase in Fertiliser traffic and 16% increase in Container traffic. In absolute terms maximum increase was of 'Others' followed by POL, Container and Iron Ore.

All Ports except Mumbai and Tuticorin where there was a decline of about 2%, showed surge in traffic handled. At Mumbai the decline in traffic was in POL, Container and Food Grains. Traffic of Thermal Coal declined at Tuticorin. Among the ports maximum increase was at J. L. Nehru (28%) followed by New Mangalore (24%), Calcutta (13%) and Visakhapatnam (11%).

PERFORMANCE INDICATORS

(i) Average Pre-berthing Detention

At 'all port level' Average Pre-berthing Detention came down from 2.0 days during 1998-99 to 1.8 days during 1999-2000. It came down at all ports except Haldia, Tuticorin and New Mangalore Ports and was stagnant at Cochin, Calcutta and J. L. Nehru Ports.

(ii) Average Turn Round Time

At 'all port level' Average Turn Round Time came down from 5.7 days in 1998-99 to 5.1 days in 1999-2000. It came down at all ports except Haldia, Tuticorin and New Mangalore Ports.

(iii) Out put Per Ship Berthday

At 'all port level' the Output Per Ship Berthday has increased from 5167 tonnes during 1998-99 to 5500 tonnes during 1999-2000. It increased at all ports except Tuticorin, J. L. Nehru and Kandla Ports.

(iv) Percentage Of Idle Time To Total Time At working berth

At 'all port level' the idle time to total time at working berth has come down from 34 percent during 1998-99 to 31 percent during 1999-2000. The performance in respect of this indicator shows improvement at all ports except Calcutta.

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, Cochin and Kandla Ports. Norm of utilisation of wharf cranes is over 35 percent and above; its actual utilisation was below the norm at all ports except Kandla.

(ii) Mobile Cranes

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

(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 New Mangalore, Visakhapatnam and Haldia. The norm of utilisation of Fork Lift Trucks is over 35 percent. The actual utilisation was below the norm at all ports except Calcutta and Kandla.

FINANCIAL PERFORMANCE

The operating surplus at major ports during 1999-2000 was Rs. 972 crore compared to Rs. 1171 crore during 1998-99 showing a decline of 17 percent. The operating surplus has decreased in all ports except Mormugao, New Mangalore, Visakhapatnam and Paradip Ports. The operating ratio at major ports exhibits increase during this period in all ports except the ports of Mormugao and Visakhapatnam.

MINOR PORTS

Cargo traffic handled at minor/intermediate ports was 62.52 million tonnes in 1999-2000 as compared to 36.31 million tonnes during 1998-99 showing an increase of 72%. This traffic does not include LDT's at Alang & Sachna (1999-2000 - 2.79 million tonnes, 1998-99 - 3.07 million tonnes) Ship Breaking Yards within the premises of ports of Bedi & Taleja in Gujarat State. All States/UTs except Tamil Nadu, Pondicherry and Andaman & Nicobar Islands showed surge in traffic. The maximum increase both in terms of absolute and percentage-wise was at Gujarat. Gujarat State has handled 46.57 million tonnes of traffic which is more than 74% of total cargo handled at all minor/intermediate ports in the country. This has even crossed the traffic handled by Kandla Port (46.30 million tonnes), a major port located in the State. This was followed by Maharashtra (9%), Andhra Pradesh (9%) and Goa (4%).

Commodity-wise, maximum increase was in POL and its product traffic (367%). POL constituted 43% of total traffic followed by Iron Ore 14%, Cement & Clinker (11%) and Coal (11%).

Port-wise, maximum increase was at Sikka (1230%) which constituted 34% of total minor ports traffic followed by Magdalla (16%), Jafarabad (5%). All these 3 ports are in Gujarat. Increase in traffic at Sikka Port was in POL & its product traffic. This was possible due to construction of Ro-Ro jetties, underground pipeline, 2 Nos. SPM tanker berths etc., by Reliance.

TABLE - I

Number of Major and Minor Ports
in the Maritime States-31.3.2000

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

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

TABLE - II
Port Capacities (Major Ports) As on 31.3.2000

(In Million Tonnes)

Commodity	Calcutta	Haldia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Mormugao	Mumbai	Kandla	JLNehruru	Total
1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
P.O.L.	3.40 (7)	17.00 (3+2BJ)	1.50 (1)	10.80 (3)	4.50 (2)	2.30 (1)	10.50 (3)	11.00 (2+1VJ)	1.50 (1)	21.00 (5)	31.00 (4+2SBM+1VJ+2BJ)	-	118.50 (32+2SBM+2VJ+2BJ)
Iron Ore	-	-	2.00 (1)	8.00 (3)	8.00 (1)	-	-	7.50 (1)	16.50 (1+transhippers)	-	-	-	43.00 (5+transhippers)
Coal (Thermal)	-	6.80 (2)	4.80 (3)	-	-	5.20 (2)	-	-	-	-	-	-	16.80 (7)
Fertilizers	-	-	0.95 (1)	0.50 (1)	-	-	0.60 (1)	-	-	-	-	1.50 (2)	3.45 (5)
Gen. Break Bulk Cargo	1.90 (20)	4.60 (6)	2.70* (3)	11.50# (14)	0.620 (15)	3.20 (6)	1.35 (8)	1.75 (6)	1.48 (2)	4.00 (33)	8.00 (11)	2.50 (1)	51.60 (123)
Containers	3.00 (4)	0.30 (1)	-	-	2.50 (2)	1.80 (1)	1.00 (2)	-	-	5.50 (8)	-	10.60 (4)	24.70 (24)
Total	8.30 (73)	28.70 (12+2BJ)	12.85 (9)	30.80 (19)	27.62 (20)	12.50 (10+Bacone)	12.45 (14)	20.25 (9+1VJ)	19.48 (4+transhippers)	30.50 (46)	39.00 (15+2SBM+1VJ)	14.60 (7)	258.05 (198+2SBM+transhippers+2VJ+2BJ+B zone)

* **Paradip** : A capacity of 4.8 Million Tonnes has been assumed for the three Gen. Cargo berths which are handling coal at present. When coal handling moves to the dedicated facilities now under construction, the capacity of these 3 berths will get reduced to 1.65 Million Tonnes. Then the total capacity of the 6 general cargo berths will be 4.35 million tonnes instead of 2.7 million tonnes.

Vizag : Thermal and coking coal are presently handled at six (WQ1 to WQ5 and MCB) general cargo berths whose capacity is reckoned as 7.5 million tonnes and included under general cargo. If coal gets shifted to dedicated coal handling facilities in future, the capacity will get reduced to 0.85 million tonnes per berth. Partial capacity of multipurpose berth 0.5 Mt considered for 1999-2000.

@ **Chennai** : Thermal coal is presently handled at JD(East) in 3 berths whose capacity is assessed as 3.75 million tonnes and included under general cargo capacity. When coal gets shifted to the new port at Ennore,

\$ **Kandla** : VJs indicate the Virtual Jetties put up by oil industries. Capacity of Fertilizer berth is nil due to damage of marine unloader, because of cyclone. GC berth capacity (10x0.60+2.00(IFECO))=8MT

Haldia : 8J's indicate barge jetties.

Tuticorin : Capacity of PSA terminal 7th berth has been assumed as 1.80 million tonnes for 1999-2000 which is expected to increase to 2.75 MT by 2001-02 and 3.6 MT in Xth Plan

MMPT : The virtual Jetty of MRPL (3.50 MT capacity) will be decommissioned after completion of Tanker Jetty 3.

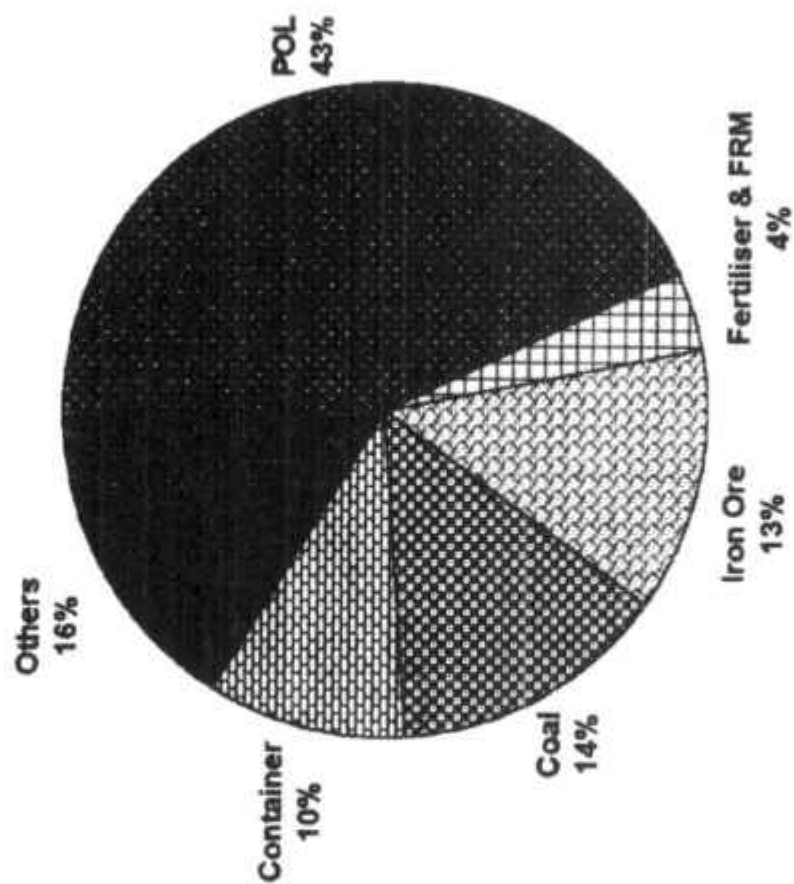
TABLE - III
Major Ports-Capacity and Traffic-1999-2000 (P)

Port	Capacity/ Traffic	POL (Crude & Products)	Iron Ore	Coal	Ferti- liser & FRM	Other Cargo	Contai- ner	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.
Calcutta	Capacity Traffic	3.40 5.62	- -	- -	- 0.07	1.90 2.50	3.00 2.12	8.30 10.31
Haldia	Capacity Traffic	17.00 10.85	- -	6.80 6.51	- 0.47	4.60 2.45	0.30 0.43	28.70 20.71
Paradip	Capacity Traffic	1.50 2.22	3.00 1.02	4.80 7.45	0.85 0.64	2.70 2.31	- -	12.85 13.64
Visakhapatnam	Capacity Traffic	10.80 15.29	8.00 7.52	- 8.11	0.50 2.98	11.50 5.35	- 0.26	30.80 39.51
Chennai	Capacity Traffic	8.50 10.05	8.00 6.19	- 9.65	- 1.16	8.62 6.41	2.50 3.98	27.62 37.44
Tuticorin	Capacity Traffic	2.30 0.46	- 0.01	5.20 3.58	- 0.87	3.20 3.44	1.80 1.63	12.50 9.99
Cochin	Capacity Traffic	10.50 9.95	- -	- 0.16	0.60 0.41	1.35 1.03	1.00 1.25	13.45 12.80

TABLE - III
Major Ports-Capacity and Traffic - 1999-2000 (P) (Contd..)

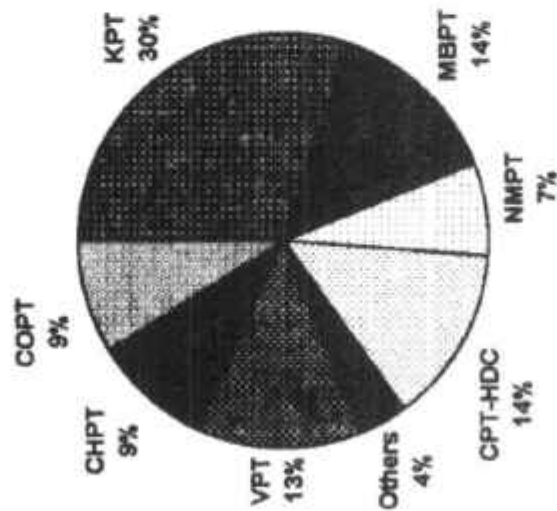
Port	Capacity/ Traffic	(In Million Tonnes)						
		POL (Crude & Products)	Iron Ore	Coal	Ferti- liser & FRM	Other Cargo	Contal- ner	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.
New Mangalore	Capacity Traffic	11.00 8.32	7.50 6.39	- 0.12	- 0.19	1.75 2.58	- -	20.25 17.60
Mormugao	Capacity Traffic	1.50 1.14	16.50 14.83	- 0.68	- 0.11	1.48 1.42	- 0.05	19.48 18.23
J.L. Nehru	Capacity Traffic	- 1.41	- 0.13	- -	1.50 0.79	2.50 1.97	10.60 10.68	14.60 14.98
Mumbai	Capacity Traffic	21.00 16.79	- -	- -	- 0.89	4.00 6.57	5.50 6.16	30.50 30.41
Kandla	Capacity Traffic	31.00 34.61	- -	- 0.83	- 1.52	8.00 8.21	- 1.13	39.00 46.30
All Ports	Capacity Traffic	118.50 116.71	43.00 36.09	16.80 37.09	3.45 10.10	51.60 44.24	24.70 27.69	258.05 271.92

TRAFFIC HANDLED AT MAJOR PORTS IN 1999-2000

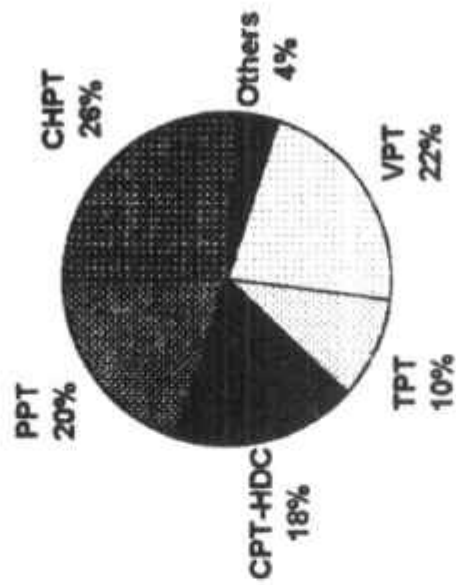


TRAFFIC HANDLED AT MAJOR PORTS IN 1999-2000

POL TRAFFIC

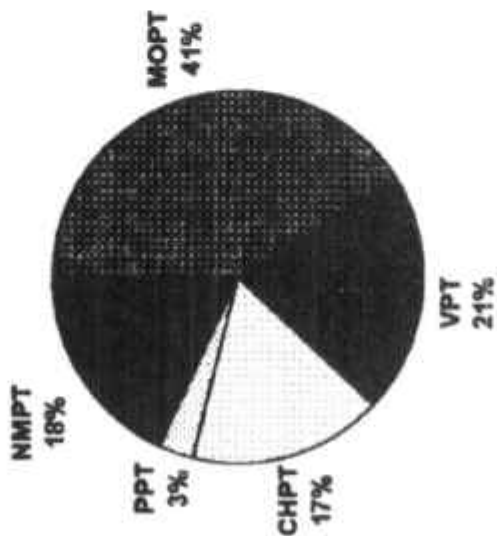


COAL TRAFFIC



TRAFFIC HANDLED AT MAJOR PORTS IN 1999-2000

IRON ORE TRAFFIC



CONTAINER TRAFFIC

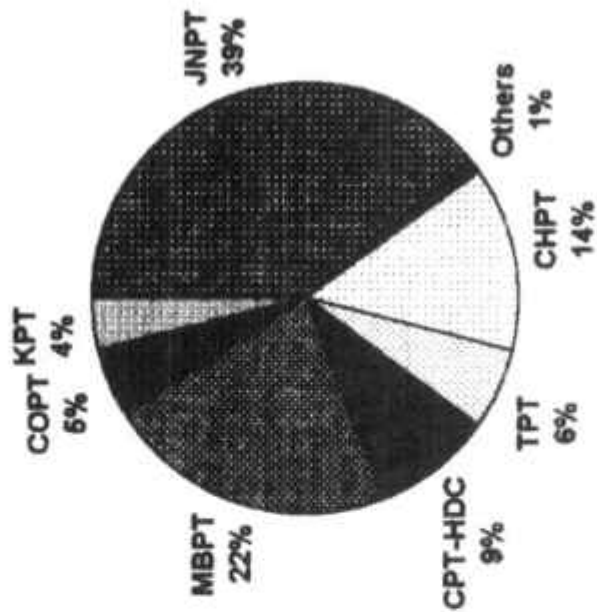


TABLE - IV

Traffic Handled At Major Ports of Selected Commodities - 1999-2000 (P)

Port	POL (Crude & Products)	Iron Ore	Ferti- liser	FRM	Food- grains	Coal	Container Cargo			Others	Total
							('000 Tonnes)				
							'000 Tonnes	'000 TEUs	'000 TEUs		
Kandla	34612	-	1020	496	1050	829	1134	79	7162	46303	
Mumbai	16785	-	140	749	141	-	6157	429	6440	30412	
JL Nehru	1414	132	627	164	555	-	10679	889	1405	14976	
Mormugao	1143	14831	112	-	-	683	50	6	1407	18226	
New Mangalore	8318	6387	172	18	315	117	-	-	2274	17601	
Cochin	9947	-	52	359	99	156	1247	130	937	12797	
Tuticorin	461	7	423	446	196	3580	1633	137	3247	9993	
Chennai	10054	6188	686	472	95	9646	3977	322	6325	37443	
Visakhapatnam	15288	7520	2172	805	208	8115	262	20	5140	39510	
Paradip	2219	1025	-	643	-	7451	-	-	2298	13636	
Calcutta	5622	-	14	61	48	-	2117	147	2451	10313	
Haldia	10851	-	122	351	12	6508	434	28	2435	20713	
All Ports	116714	36090	5540	4564	2719	37085	27690	2187	41521	271923	

TABLE - V
Traffic Handled At Major Ports In India -1999-2000(P)
(Overseas and Coastal)

(In '000 Tonnes)

Port	Overseas				Coastal				Overseas & Coastal			
	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	3402	28099	6601	38102	266	7935	-	8201	3668	36034	6601	46303
Mumbai	3904	16637	893	21434	6099	2879	-	8978	10003	19516	893	30412
J.L. Nehru	5831	8068	125	14024	72	750	130	952	5903	8818	255	14976
Mormugao	14784	2278	-	17062	145	1007	12	1164	14929	3285	12	16226
New Mangalore,	5911	7963	14	13888	3237	476	-	3713	9148	8439	14	17601
Cochin	850	6956	-	7806	1339	3652	-	4991	2189	10608	-	12797
Tuticorin	2029	3732	-	5761	30	4202	-	4232	2059	7934	-	9993
Chennai	9827	12458	491	22776	688	13488	491	14667	10515	25946	982	37443
Visakhapatnam	6298	12914	3621	22833	8061	4409	4207	16677	14359	17323	7828	39510
Paradip	1933	4237	-	6170	6927	539	-	7466	8860	4776	-	13636
Haldia	796	15445	10	16251	4031	431	-	4462	4827	15876	10	20713
Calcutta	935	2722	4245	7902	256	2155	-	2411	1191	4877	4245	10313
All Ports	56500	121509	16000	194009	31151	41923	4840	77914	87651	163432	20840	271923

Traffic Handled At Indian Ports (In Million Tonnes)

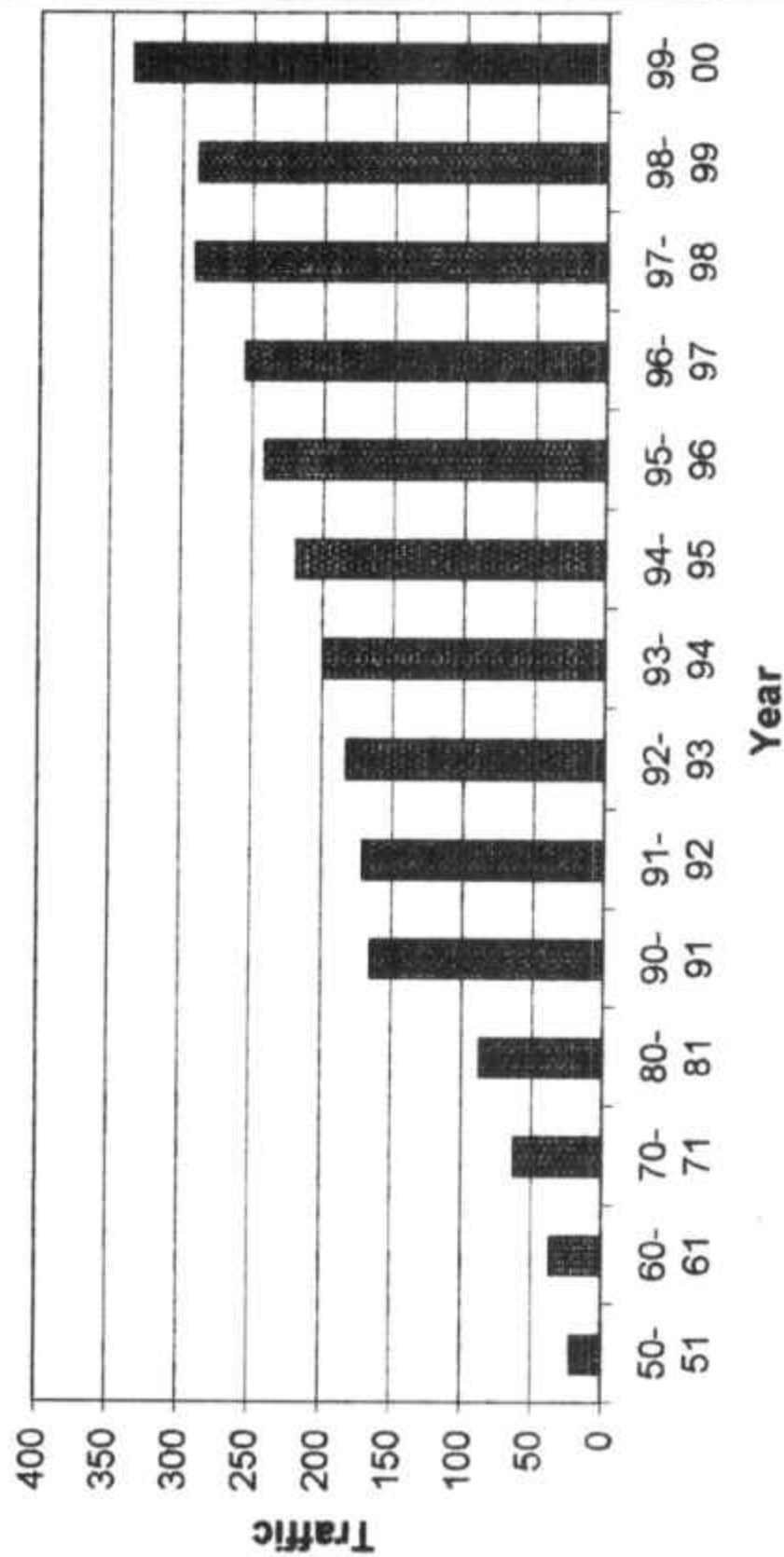


Table VI
Traffic Handled at Minor/Intermediate Ports - State/UT-wise (Contd...)

(' 000 Tonnes)

State/UT	Year	Overseas			Coastal			Overseas & Coastal			Trans-shipment	Total
		: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total		
Pondicherry	1998-1999	23	-	23	-	-	-	23	-	-	-	23
	1999-2000	-	-	-	-	-	-	-	-	-	-	-
Andhra Pradesh	1998-1999	1138	1079	2217	414	1547	1961	1552	2626	4178	-	4178
	1999-2000	2159	459	2618	403	2560	2963	2562	3019	5581	-	5581
Lakshadweep	1998-1999	-	-	-	23	-	23	23	-	-	-	23
	1999-2000(P)	-	-	-	23	-	23	23	-	-	-	23
Andaman & Nicobar	1998-1999	22	-	22	422	249	671	444	249	693	-	693
	1999-2000(P)	14	-	14	423	227	650	437	227	664	-	664
Orissa	1998-1999	-	120	120	-	-	-	-	120	120	-	120
	1999-2000	-	154	154	-	-	-	-	154	154	-	154
Total	1998-1999	15017	8423	23440	6343	5616	11959	21360	14039	35399	907	36306
	1999-2000 (P)	29446	7968	37413	10564	13890	24454	40009	21858	61867	653	62520

Note : * The traffic handled at Minor Ports in Gujarat State does not include L.D.T. of Ship beached for breaking at Alang & Sachana Shipyard (1998-99 - 3.07 Million Tonnes, 1999-2000 - 2.79 Million Tonnes)

Source: Annual returns for 1998-99 and Monthly Returns for 1999-2000 received from Maritime States/UTs.

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise

(' 000 Tonnes)

State/ Commodity	Year	Overseas			Coastal			Overseas & Coastal		
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
<u>GUJARAT*</u>	1998-1999	10386	5268	15654	3495	2866	6361	13881	8134	907
	1999-2000	25011	4726	29737	5852	10225	16177	30983	14951	853
POL & Other Products	1998-1999	2500	77	2577	183	3	186	2883	80	370
	1999-2000	14495	389	14884	1889	6011	7900	16384	6400	3
Coal	1998-1999	4267	-	4267	90	-	90	4200	157	-
	1999-2000	5942	-	5942	160	-	160	6102	-	-
Cement & Clinker	1998-1999	-	2418	2418	713	1946	2659	713	4364	-
	1999-2000	-	1771	1771	886	3193	4079	886	4964	-
Fertiliser & FR M	1998-1999	1846	-	1846	-	-	-	1846	-	-
	1999-2000	2693	4	2697	-	-	-	2693	4	-
Chemicals	1998-1999	137	1	138	119	60	179	256	61	63
	1999-2000	228	-	228	74	40	114	302	40	-
Iron Ore	1998-1999	-	-	-	2166	345	2511	2166	345	317
	1999-2000	142	-	142	2475	258	2733	2617	258	481
Iron & Steel	1998-1999	268	406	674	138	303	439	404	709	39
	1999-2000	171	491	662	88	143	231	259	634	141

Note : * The traffic handled at Minor Ports in Gujarat State does not include L.D.T. of Ship beached for breaking at Alang & Sachana Shipyard (1998-99 - 3.07 Million Tonnes; 1999-2000 - 2.79 Million Tonnes)
Source: Annual Returns for 1998-99 and Monthly Returns for 1999-2000 from Maritime States/UT's.

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise(Contd...)

(' 000 Tonnes)

State/ Commodity	Year	Overseas			Coastal			Overseas & Coastal			Trans- shipment	Total
		: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total		
Other Ore	1998-1999	-	414	414	-	-	-	-	414	-	-	414
	1999-2000	-	547	547	-	77	77	-	624	-	-	624
Salt	1998-1999	-	-	-	-	97	97	-	97	-	-	97
	1999-2000	-	32	32	-	83	83	-	115	-	-	115
Paraxylene	1998-1999	536	-	536	20	3	23	556	3	47	806	
	1999-2000	286	152	438	320	286	616	606	448	4	1058	
Machinery	1998-1999	240	3	243	56	32	88	286	35	-	331	
	1999-2000	8	10	18	22	7	29	30	17	-	47	
Oil Cake	1998-1999	-	1324	1324	-	-	-	-	1324	-	-	1324
	1999-2000	5	924	929	-	-	-	5	924	-	-	929
Edible Oil	1998-1999	55	-	55	-	-	-	55	-	-	55	
	1999-2000	312	12	324	-	-	-	312	12	-	324	
Others	1998-1999	537	625	1162	12	77	89	549	702	71	1322	
	1999-2000	729	394	1123	36	117	155	767	511	24	1302	

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise (Contd...)

(' 000 Tonnes)

State/ Commodity	Year	Overseas			Coastal			Overseas & Coastal		
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
MAHARASHTRA	1998-1999	3200	129	3329	1748	118	1866	4948	247	5195
	1999-2000	1934	92	2026	3590	299	3879	5514	391	5905
Iron Ore	1998-1999	2358	23	2381	232	40	272	2590	63	2653
	1999-2000	847	-	847	2029	82	2111	2876	82	2958
Iron & Steel	1998-1999	-	106	106	-	76	76	-	182	182
	1999-2000	-	53	53	-	162	162	-	215	215
POL & Other Products	1998-1999	148	-	148	61	-	61	209	-	209
	1999-2000	473	-	473	218	8	226	691	8	699
Cement & Clinker	1998-1999	-	-	-	1446	-	1446	1446	-	1446
	1999-2000	31	-	31	1245	39	1284	1276	39	1315
Coal	1998-1999	529	-	529	-	-	-	529	-	529
	1999-2000	445	-	445	30	-	30	475	-	475
Others	1998-1999	165	-	165	9	2	11	174	2	176
	1999-2000	138	39	177	58	8	66	196	47	243

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise (Contd...)

(' 000 Tonnes)

State/ Commodity	Year	Overseas			Coastal			Overseas & Coastal			Trans- shipment	Total
		: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total		
<u>GOA</u>	1998-1999	104	1685	1789	102	283	385	206	1968	-	-	2174
	1999-2000	92	2242	2334	36	116	152	128	2359	-	-	2486
<u>Iron Ore</u>	1998-1999	-	1685	1685	98	282	380	98	1967	-	-	2065
	1999-2000	-	2242	2242	26	98	124	26	2340	-	-	2366
<u>Coal</u>	1998-1999	104	-	104	-	1	1	104	1	-	-	105
	1999-2000	92	-	92	-	6	6	92	6	-	-	98
<u>Others</u>	1998-1999	-	-	-	4	-	4	4	-	-	-	4
	1999-2000	-	-	-	10	12	22	10	12	-	-	22
<u>KARNATAKA</u>	1998-1999	68	88	156	119	129	248	187	217	-	-	404
	1999-2000	139	237	376	122	125	247	261	362	-	-	623
<u>Granite</u>	1998-1999	-	74	74	-	81	81	-	155	-	-	155
	1999-2000	-	105	105	-	81	81	-	186	-	-	186
<u>FRM</u>	1998-1999	36	11	47	-	-	-	36	11	-	-	47
	1999-2000	68	11	80	-	-	-	68	11	-	-	80
<u>Salt</u>	1998-1999	-	-	-	77	-	77	77	-	-	-	77
	1999-2000	8	-	8	80	-	80	88	-	-	-	88
<u>Others</u>	1998-1999	32	3	35	42	48	90	74	51	-	-	125
	1999-2000	62	121	183	42	44	86	104	165	-	-	269

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise (Contd...)

(' 000 Tonnes)

State/ Commodity	Year	Overseas			Coastal			Overseas & Coastal		
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
<u>TAMIL NADU</u>	1998-1999	76	-	76	-	394	394	76	394	470
	1999-2000	96	4	100	5	308	313	101	312	413
Chemicals	1998-1999	19	-	19	-	-	-	19	-	19
	1999-2000	19	-	19	5	40	45	24	40	64
Crude Oil	1998-1999	-	-	-	-	394	394	-	394	394
	1999-2000	18	-	18	-	76	76	18	76	94
Edible Oil	1998-1999	-	-	-	-	-	-	-	-	-
	1999-2000	36	-	36	-	116	116	36	116	152
Others	1998-1999	57	-	57	-	-	-	57	-	57
	1999-2000	23	4	27	-	76	76	23	80	103

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise (Contd...)

(' 000 Tonnes)

State/ Commodity	Year	Overseas			Coastal			Overseas & Coastal			Trans- shipment	Total
		: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total		
ANDHRA PRADESH	1998-1999	1138	1079	2217	414	1547	1961	1552	2626		-	4178
	1999-2000	2159	459	2618	403	2560	2963	2562	3019		-	5581
Crude Oil	1998-1999	-	-	-	338	1523	1861	338	1523		-	1861
	1999-2000	14	-	14	352	2534	2886	366	2534		-	2900
FRM	1998-1999	768	-	768	-	-	-	768	-		-	768
	1999-2000	1191	-	1191	-	-	-	1191	-		-	1191
Others	1998-1999	370	1079	1449	78	24	100	446	1103		-	1549
	1999-2000	954	459	1413	51	26	77	1005	485		-	1480
ORISSA	1998-1999	-	120	120	-	-	-	-	120		-	120
	1999-2000	-	154	154	-	-	-	-	154		-	154
Fertiliser	1998-1999	-	120	120	-	-	-	-	120		-	120
	1999-2000	-	154	154	-	-	-	-	154		-	154

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise (Contd...)

(' 000 Tonnes)

State/ Commodity	Year	Overseas			Coastal			Overseas & Coastal		
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
<u>KERALA</u>	1998-1999	-	54	54	20	30	50	20	84	-
	1999-2000(P)	-	54	54	20	30	50	20	84	-
<u>Ilmenite</u>	1998-1999	-	52	52	-	-	-	-	52	52
	1999-2000(P)	-	52	52	-	-	-	-	52	52
<u>Others</u>	1998-1999	-	2	2	20	30	50	20	32	52
	1999-2000(P)	-	2	2	20	30	50	20	32	52
<u>PONDICHERY</u>	1998-1999	23	-	23	-	-	-	23	-	23
	1999-2000	-	-	-	-	-	-	-	-	-
<u>Wheat</u>	1998-1999	23	-	23	-	-	-	23	-	23
	1999-2000	-	-	-	-	-	-	-	-	-
<u>ANDAMAN & NICOBAR</u>	1998-1999	22	-	22	422	249	671	444	249	693
	1999-2000(P)	14	-	14	423	227	650	437	227	664
<u>POL</u>	1998-1999	-	-	-	94	-	94	94	-	94
	1999-2000(P)	-	-	-	105	-	105	105	-	105
<u>Others</u>	1998-1999	22	-	22	328	249	577	350	249	599
	1999-2000(P)	14	-	14	318	227	545	332	227	559
<u>LAKSHADWEEP</u>	1998-1999	-	-	-	23	-	23	23	-	23
	1999-2000(P)	-	-	-	23	-	23	23	-	23
<u>Misc. Cargo</u>	1998-1999	-	-	-	23	-	23	23	-	23
	1999-2000(P)	-	-	-	23	-	23	23	-	23

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UTs Wise - Commoditywise (Contd...)

(' 000 Tonnes)

Commodity	Year	Overseas			Coastal			Overseas & Coastal			Trans-shipment	Total
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total		
Total	1998-1999	15017	8423	23440	6343	5616	11959	21360	14039	907		36306
	1999-2000 (P)	29445	7968	37413	10564	13690	24454	40009	21858	653		62520
POL & Other Products	1998-1999	2646	77	2725	676	1820	2596	3324	1997	370		5691
	1999-2000	15000	389	15389	2564	8629	11193	17564	9018	3		26585
Coal	1998-1999	4900	-	4900	90	1	91	4990	1	-		4991
	1999-2000	6479	-	6479	190	6	196	6669	6	-		6675
Cement & Clinker	1998-1999	-	2418	2418	2159	1946	4105	2159	4364	-		6523
	1999-2000	31	1771	1802	2131	3232	5363	2162	5003	-		7165
Fertiliser & FRM	1998-1999	2650	131	2781	-	-	-	2650	131	-		2781
	1999-2000	3953	169	4122	-	-	-	3953	169	-		4122
Chemical	1998-1999	156	1	157	119	60	179	275	61	63		399
	1999-2000	247	-	247	79	80	159	326	80	-		406
Iron Ore	1998-1999	2358	1708	4066	2496	667	3163	4854	2375	317		7546
	1999-2000	969	2242	3231	4530	436	4966	5519	2690	481		8890
Iron & Steel	1998-1999	268	512	780	136	379	515	404	891	39		1334
	1999-2000	171	544	715	88	305	393	259	849	141		1249

Table VII
Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Commoditywise (Contd....)

(' 000 Tonnes)

Commodity	Year	Overseas			Coastal			Overseas & Coastal		
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
Other Ores	1998-1999	-	414	414	-	-	-	-	414	-
	1999-2000	-	547	547	-	77	77	-	824	-
Salt	1998-1999	-	-	-	77	97	174	77	97	-
	1999-2000	8	32	40	75	83	158	83	115	-
Paraxylene	1998-1999	536	-	536	20	3	23	558	3	47
	1999-2000	286	152	438	320	296	616	606	448	4
Oil Cake	1998-1999	-	1324	1324	-	-	-	-	1324	-
	1999-2000	5	924	929	-	-	-	5	924	-
Granite	1998-1999	-	74	74	-	81	81	-	155	-
	1999-2000	-	105	105	-	-	-	-	105	-
Illmenite	1998-1999	-	52	52	-	-	-	-	52	-
	1999-2000	-	52	52	-	-	-	-	52	-
Others	1998-1999	1501	1712	3213	570	402	1032	2071	2174	71
	1999-2000	2276	1041	3317	587	744	1331	2863	1785	24

Table VIII
Cargo Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Port-Wise

(' 000 Tonnes)

State/ Port	Overseas			Coastal			Overseas & Coastal			Transhi- pment	Total
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total		
GUJARAT											
1998-1999	10386	5268	15654	3495	2866	6361	13881	8134	907	22922	
1999-2000	25011	4726	29737	5952	10225	16177	30963	14951	853	46567	
Beedi											
1998-1999	403	1092	1495	-	-	-	403	1092	-	1495	
1999-2000	828	699	1525	-	-	-	826	699	-	1525	
Bhavnagar											
1998-1999	506	164	670	-	1	1	506	165	427	1098	
1999-2000	544	51	595	-	-	-	544	51	634	1229	
Dabhel											
1998-1999	532	49	581	58	-	58	590	49	-	639	
1999-2000	1161	4	1165	214	-	214	1375	4	-	1379	
GAPL											
1998-1999	122	114	236	-	-	-	122	114	-	236	
1999-2000	744	401	1145	1	27	28	745	426	-	1173	
Gogha											
1998-1999	-	-	-	-	-	-	-	-	-	-	
1999-2000	-	-	-	5	-	5	5	-	-	5	
GPPL											
1998-1999	155	315	470	95	60	155	250	375	-	625	
1999-2000	490	62	552	4	108	112	494	170	-	664	

GPPL - Gujarat Pipavav Port Ltd.

GAPL - Gujarat Adani Port Ltd.

Note : * The traffic handled at Minor Ports in Gujarat State does not include L.D.T. of Ship beached for breaking at Alang & Sachana Shipyard (1998-99 - 3.07 Million Tonnes, 1999-2000 - 2.79 Million Tonnes).

Source: Annual returns for 1998-99 and Monthly returns for 1999-2000 received from Maritime States/UT's.

Table VIII
Cargo Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Port-Wise (Contd...)

(' 000 Tonnes)

State/ Port	Overseas			Coastal			Overseas & Coastal			Trans- shipment	Total
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total		
MAHARASHTRA											
1998-1999	3200	129	3329	1748	118	1866	4948	247	5195	-	-
1999-2000	1934	92	2026	3580	299	3879	5514	391	5905	-	-
Dabhol											
1998-1999	72	-	72	44	-	44	116	-	116	-	-
1999-2000	519	-	519	169	-	169	688	-	688	-	-
Dahanu											
1998-1999	452	-	452	-	-	-	452	-	452	-	-
1999-2000	445	-	445	-	-	-	445	-	445	-	-
Dharamtar											
1998-1999	1614	-	1614	Neg.	51	51	1614	51	1665	-	-
1999-2000	-	-	-	2130	54	2184	2130	54	2184	-	-
Ratnagiri											
1998-1999	211	-	211	784	-	784	985	-	985	-	-
1999-2000	123	-	123	415	53	468	538	53	591	-	-
Revdamda											
1998-1999	774	129	903	232	69	298	1006	195	1201	-	-
1999-2000	847	02	849	154	191	345	1001	283	1284	-	-
Trombay											
1998-1999	-	-	-	-	1	1	-	1	1	-	-
1999-2000	-	-	-	-	1	1	-	1	1	-	-
Ulwa-Belapur											
1998-1999	-	-	-	680	-	680	680	-	680	-	-
1999-2000	-	-	-	712	-	712	712	-	712	-	-
Mandwa											
1998-1999	77	-	77	6	-	6	83	-	83	-	-
1999-2000	-	-	-	-	-	-	-	-	-	-	-
Mora											
1998-1999	-	-	-	2	-	2	2	-	2	-	-
1999-2000	-	-	-	-	-	-	-	-	-	-	-

Table VIII
Cargo Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Port-Wise (Contd...)

(' 000 Tonnes)

State/ Port	Year	Overseas			Coastal			Overseas & Coastal			Transh- ipment	Total
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total		
<u>KARNATAKA</u>	1998-1999	68	88	156	119	129	248	187	217	404	-	404
	1999-2000	139	237	376	122	125	247	261	362	623	-	623
Karwar	1998-1999	68	86	154	73	-	73	141	86	227	-	227
	1999-2000	139	237	376	83	-	83	222	237	459	-	459
Malpe	1998-1999	-	-	-	1	18	19	1	18	19	-	19
	1999-2000	-	-	-	1	17	18	1	17	18	-	18
Old Mangalore	1998-1999	-	2	2	45	110	155	45	112	157	-	157
	1999-2000	-	-	-	38	107	145	38	107	145	-	145
Tadri	1998-1999	-	-	-	-	1	1	-	1	1	-	1
	1999-2000	-	-	-	-	1	1	-	1	1	-	1

Table VIII
Cargo Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Port-Wise (Contd...)

(' 000 Tonnes)												
State/ Port	Year	Overseas			Coastal			Overseas & Coastal			Trans- ipment	Total
		: Unloaded	Loaded	Total	: Unloaded	Loaded	Total	: Unloaded	Loaded	Total		
<u>KERALA</u>	1998-1999	-	54	54	20	30	50	20	84	-	-	104
	1999-2000(P)	-	54	54	20	30	50	20	84	-	-	104
Kozikode/Beypore	1998-1999	-	-	-	20	29	49	20	29	-	-	49
	1999-2000(P)	-	-	-	20	29	49	20	29	-	-	49
Neeendakara	1998-1999	-	52	52	-	-	-	-	52	-	-	52
	1999-2000(P)	-	52	52	-	-	-	-	52	-	-	52
Kovalam	1998-1999	-	2	2	-	-	-	-	2	-	-	2
	1999-2000(P)	-	2	2	-	-	-	-	2	-	-	2
Azhikkal	1998-1999	-	-	-	-	1	1	-	1	-	-	1
	1999-2000(P)	-	-	-	-	1	1	-	1	-	-	1
Total	1998-1999	15017	8423	23440	6343	5616	11959	21360	14039	907	-	36306
	1999-2000(P)	29445	7968	37413	10564	13890	24454	40009	21858	653	-	62520

Table VIII
Cargo Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Port-Wise (Contd....)

(' 000 Tonnes)

State/ Port	Year	Overseas			Coastal			Overseas & Coastal		
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
ANDHRA PRADESH										
Rawa	1998-1999	1138	1079	2217	414	1547	1961	1552	2626	4178
	1999-2000	2159	459	2618	403	2560	2963	2562	3019	5581
Kakinada Anchorage Port	1998-1999	-	-	-	-	1523	1523	-	1523	1523
	1999-2000	-	-	-	-	2534	2534	-	2534	2534
Deep Water Port	1998-1999	489	1007	1496	34	24	58	523	1031	1554
	1999-2000	826	367	1193	51	26	77	877	393	1270
TAMIL NADU	1998-1999	649	72	721	380	-	380	1029	72	1101
	1999-2000	1333	82	1425	352	-	352	1685	92	1777
PY - 3	1998-1999	76	-	76	-	394	394	76	394	470
	1999-2000	96	4	100	5	308	313	101	312	413
Nagapattinam	1998-1999	-	-	-	-	394	394	-	394	394
	1999-2000	18	-	18	-	76	76	18	76	94
Ennore	1998-1999	-	-	-	-	-	-	-	-	-
	1999-2000	36	-	36	-	116	116	36	116	152
Thirukkadaiyur	1998-1999	51	-	51	-	-	-	51	-	51
	1999-2000	23	-	23	5	116	121	28	116	144
Cuddalore	1998-1999	-	-	-	-	-	-	-	-	-
	1999-2000	19	4	23	-	-	-	19	4	23
	1998-1999	25	-	25	-	-	-	25	-	25
	1999-2000	-	-	-	-	-	-	-	-	-

Table VIII
Cargo Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Port-Wise (Contd...)

(' 000 Tonnes)

State/ Port	Year	Overseas			Coastal			Overseas & Coastal			Trans- shipment	Total
		: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total		
<u>GOA</u>	1998-1999	104	1685	1789	102	283	385	206	1968	2174	-	2174
	1999-2000	92	2242	2334	36	116	152	128	2356	2486	-	2486
Panaji	1998-1999	104	1685	1789	102	283	385	206	1968	2174	-	2174
	1999-2000	92	2242	2334	36	116	152	128	2356	2486	-	2486
<u>PONDICHERRY</u>	1998-1999	23	-	23	-	-	-	23	-	23	-	23
	1999-2000	-	-	-	-	-	-	-	-	-	-	-
Pondicherry	1998-1999	23	-	23	-	-	-	23	-	23	-	23
	1999-2000	-	-	-	-	-	-	-	-	-	-	-
<u>ORISSA</u>	1998-1999	-	120	120	-	-	-	-	120	120	-	120
	1999-2000	-	154	154	-	-	-	-	154	154	-	154
Gopalpur	1998-1999	-	120	120	-	-	-	-	120	120	-	120
	1999-2000	-	154	154	-	-	-	-	154	154	-	154

Table VIII
Cargo Traffic Handled at Minor/Intermediate Ports - State/UT's Wise - Port-Wise (Contd....)

(' 000 Tonnes)

State/ Port	Year	Overseas			Coastal			Overseas & Coastal		
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
LAKSHADWEEP	1998-1999	-	-	-	23	-	23	23	-	23
	1999-2000(P)	-	-	-	23	-	23	23	-	23
Kavaratti	1998-1999	-	-	-	5	-	5	5	-	5
	1999-2000(P)	-	-	-	5	-	5	5	-	5
Minicoy	1998-1999	-	-	-	4	-	4	4	-	4
	1999-2000(P)	-	-	-	4	-	4	4	-	4
Androt	1998-1999	-	-	-	3	-	3	3	-	3
	1999-2000(P)	-	-	-	3	-	3	3	-	3
Kalpeni	1998-1999	-	-	-	3	-	3	3	-	3
	1999-2000(P)	-	-	-	3	-	3	3	-	3
Amini	1998-1999	-	-	-	2	-	2	2	-	2
	1999-2000(P)	-	-	-	2	-	2	2	-	2
Other Port	1998-1999	-	-	-	6	-	6	6	-	6
	1999-2000(P)	-	-	-	6	-	6	6	-	6
ANDAMAN & NICOBAR	1998-1999	22	-	22	422	249	671	444	249	693
	1999-2000(P)	14	-	14	423	227	650	437	227	664
Port Blair	1998-1999	8	-	8	336	99	435	344	99	443
	1999-2000	-	-	-	337	77	414	337	77	414
Other Ports	1998-1999	14	-	14	88	150	238	100	150	250
	1999-2000(P)	14	-	14	88	150	238	100	150	250

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

Port	Unloaded		Loaded		Total	Unloaded		Loaded		Total	Unloaded		Loaded		Total
	1997-98 (%)						1998-99 (%)						1999-2000 (%) (P)		
	1	2	3	4		5	6	7		8	9	10			
MAJOR PORTS															
Kandla		44.2	8.8	31.8		43.3	7.1	32.1		46.6	8.0	35.7			
Mumbai		40.6	11.0	38.1		43.1	12.4	39.6		50.9	8.8	47.2			
J.N.P.T.		30.1	28.4	29.5		31.0	21.2	28.4		34.2	28.9	33.1			
Mormugao		10.3	9.2	9.9		8.4	7.0	7.9		14.5	9.1	12.6			
N. Mangalore		14.2	2.7	3.3		18.5	1.4	3.2		2.5	2.6	2.6			
Cochin		77.8	7.4	40.8		73.8	10.4	45.8		76.5	4.2	45.7			
Tuticorin		64.0	27.4	58.9		70.2	48.3	67.2		74.9	30.1	70.7			
Chennai		27.3	11.2	21.6		22.8	4.6	16.8		18.1	14.1	16.7			
Vizag		45.2	4.5	27.5		39.5	3.9	24.5		42.8	4.3	27.2			
Paradip		55.2	7.3	40.8		49.7	2.8	36.4		47.2	5.8	35.8			
Haldia		31.1	13.1	26.2		19.6	3.8	15.6		18.5	22.0	19.6			
Calcutta		54.9	5.3	52.0		57.9	3.6	55.1		58.9	4.3	56.2			
		39.5	4.8	30.4		46.2	2.0	39.9		40.6	2.3	35.7			
MINOR PORTS															
		13.6	22.6	16.8		14.0	25.0	17.9		7.9	22.1	10.9			
All Ports															
		40.6	10.4	30.0		40.2	9.4	30.5		39.6	9.9	31.5			

Source : Major Ports & Maritime States/UTs .
(P) : Provisional.

TABLE - X
Vessel-wise Selected Performance Indicators (Major Ports) - 1999-2000 (P)

Item / Port	Kandla	Mumbai	J.L.Nehru Mormugao	New Mangalore	Cochin	Tuticorin	Chennai	Vizag	Paradip	Haldia	Calcutta	All Ports
1. No. of vessels sailed												
i) Dry-bulk	219	133	88	268	205	40	237	560	645	410	327	8
ii) Liquid Bulk	1100	971	232	158	415	398	143	518	644	290	648	392
iii) Break-bulk	321	531	74*	34	127	176	393	364	225	12	107	269
iv) Container	215	598	942	52	2	359	298	381	123	-	203	268
v) All types	1855	2233	1336	512	749	973	1071	1823	1637	712	1295	937
2. Av. Pre-berthing detention (days)												
i) Dry-bulk	3.8	3.1	4.3	1.7	1.7	0.6	4.3	3.2	1.8	0.8	2.1	1.8
ii) Liquid Bulk	2.6	1.5	2.4	0.4	1.0	1.2	0.8	2.7	1.1	1.5	1.3	1.4
iii) Break-bulk	5.0	1.5	0.8	1.6	0.3	0.6	4.5	2.0	1.6	1.5	5.1	0.9
iv) Container	1.5	0.8	0.7	0.1	-	0.6	1.0	3.2	0.4	-	N	0.6
v) All types	3.0	1.4	1.4	1.1	1.1	0.9	3.0	2.8	1.4	1.1	1.6	1.0
3. Av. Turn round time (days)												
i) Dry-bulk	10.3	16.7	6.0	6.3	5.6	9.0	9.6	8.6	6.8	4.4	8.4	15.0
ii) Liquid Bulk	4.5	3.9	1.6	1.8	2.5	2.9	2.4	5.0	2.9	3.0	2.9	4.9
iii) Break-bulk	10.8	7.7	0.5	5.9	5.2	5.4	8.7	7.2	5.8	5.4	16.7	10.9
iv) Container	3.5	4.0	1.2	0.9	0.3	2.1	2.7	5.8	1.9	-	1.6	4.8
v) All types	6.2	5.6	1.7	4.3	3.8	3.2	6.4	6.8	4.8	3.9	5.2	6.6

* Includes coil, project cargo and vehicle carriers.

TABLE - X
Vessel-wise Selected Performance Indicators (Major Ports) - 1999-2000 (P) (Contd.)

Item / Port	Kandla	Mumbai	J.L.Nehru	Kormugao	New Mangalore	Cochin	Tuticorin	Chennai	Vizag	Paradip	Haldira	Calcutta	All Ports
4. % Idle time to total time at working berth													
i) Dry-bulk	12	28	7	16	45	24	29	32	25	22	39	54	28
ii) Liquid Bulk	29	28	6	30	25	25	30	24	37	3	77	33	29
iii) Break-bulk	11	34	17	21	50	39	40	42	28	23	40	55	37
iv) Container	19	21	8	23	21	27	33	39	38	-	33	30	29
v) All types	18	28	8	18	41	30	35	34	28	18	43	46	31
5. Output per ship berth day (tonnes)													
i) Dry-bulk	3827	959	3772	13470	9552	2060	4681	7399	7137	7129	4606	750	6166
ii) Liquid Bulk	19512	10819	5784	6195	16992	15356	4784	12739	15223	7492	15795	6196	12452
iii) Break-bulk	1978	1154	1525	2639	984	668	1051	770	1583	2647	901	438	1053
iv) Container	3120	3435	8387	1247	447	2489	3418	4262	1579	-	1895	2533	3252
v) All types	8740	3876	5905	11162	9000	5952	2891	5886	7579	7106	5599	2157	5500

TABLE - XI

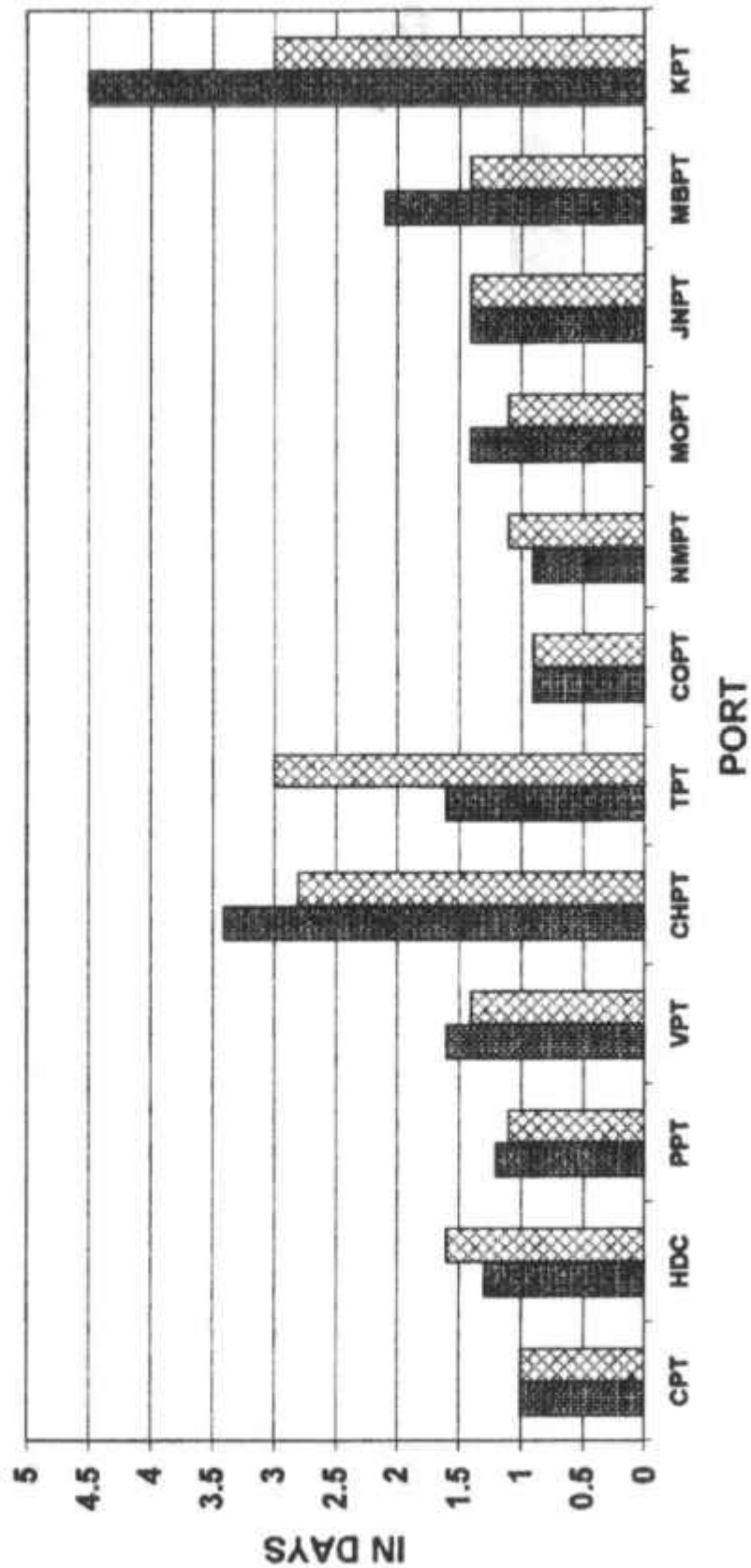
Commodity-wise Average Pre-Berthing Time (Major Ports) -1999-2000 (P)

Port ---> Commodity	Calcutta	Haldia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Mumbai*	Kandla	J.L.Nehru*	
											(In Days)	
P.O.L	1.67	1.32	1.85	1.09	3.00	0.51	1.40	1.05	0.33	0.36	1.52	0.96
Iron Ore	-	-	1.57	1.37	3.80	-	-	2.24	1.23	-	-	-
Coking Coal	-	2.38	0.64	1.49	-	-	0.71	0.15	1.04	-	1.05	-
Thermal Coal	-	0.34	0.56	0.27	2.70	1.22	-	-	1.10	-	-	-
Fertilisers	2.62	9.27	-	4.36	9.30	9.04	0.27	0.12	1.75	0.48	3.32	-
Raw Materials	1.80	4.60	1.16	2.32	3.80	7.88	0.54	0.92	-	0.37	3.81	-
Other Dry Bulk	-	4.26	1.06	1.79	2.00	6.14	0.74	0.72	0.10	0.40	4.40	2.01
Other Lqd. Bulk	1.83	1.19	0.49	0.94	2.30	1.04	0.53	0.89	0.53	0.42	3.89	-
General Cargo	0.91	4.43	1.52	1.61	1.90	4.49	0.62	0.28	2.39	0.24	5.05	0.47
Containers	0.56	0.05	-	0.41	2.20	0.96	0.55	-	0.10	0.19	1.47	0.41
Total	1.03	1.61	1.14	1.37	2.80	2.98	0.87	1.07	1.09	0.29	3.04	0.64

* : Average pre berthing relates to Port A/C.

Source: Indian Ports Association.

AVERAGE PRE BERTHING WAITING TIME (IN DAYS)



■ 1998-99 ▨ 1999-2000

TABLE - XII

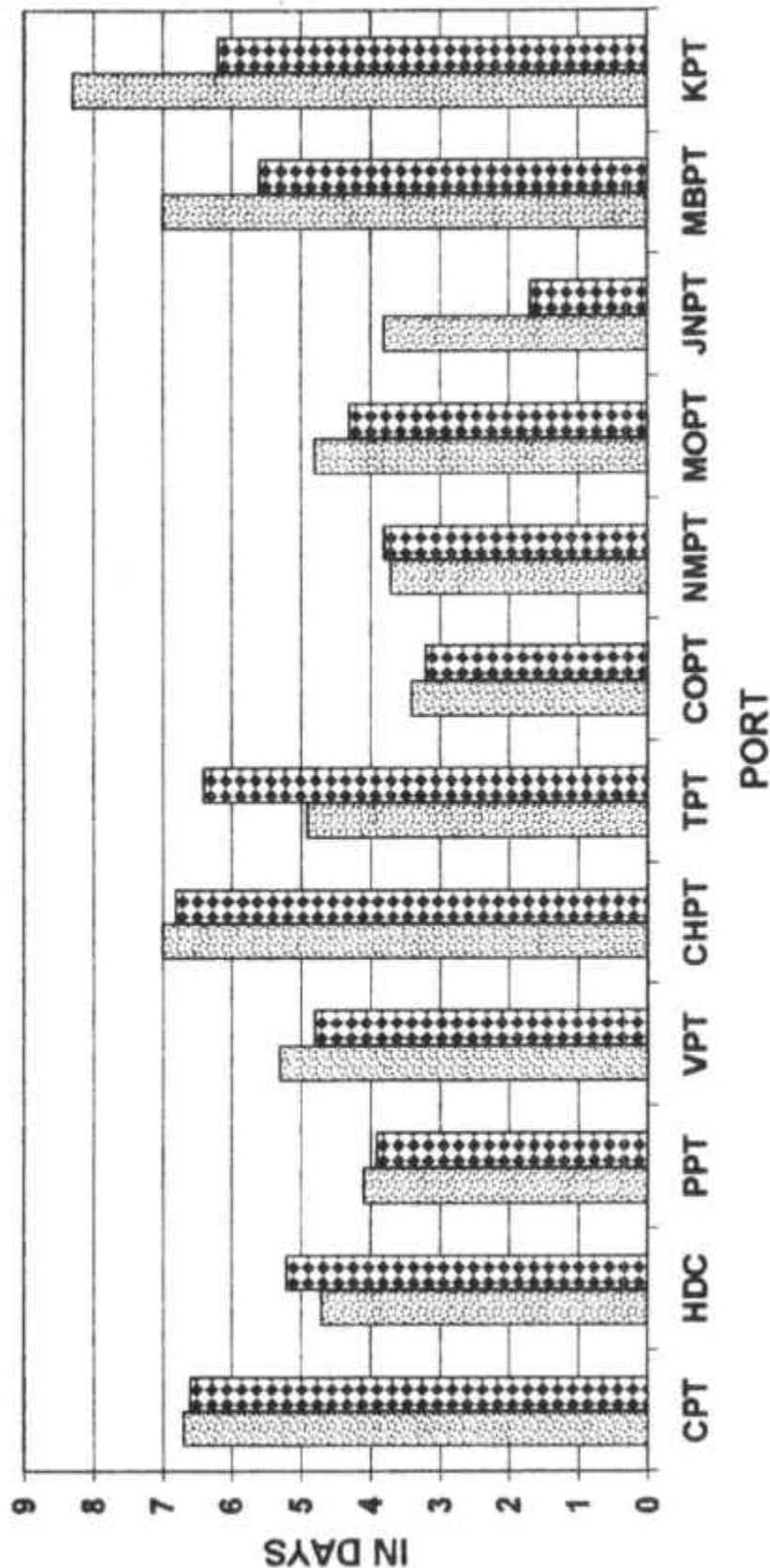
Commodity-wise Average Turn Round Time (Major Ports) -1999-2000 (P)

Port ---> Commodity	Calcutta	Haldia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Mumbai*	Kandla*	J.L.Nehru
	8.17	2.87	3.32	2.94	5.40	2.46	3.27	2.49	1.80	2.39	1.86
P.O.L	-	-	4.79	4.07	6.10	-	-	3.73	4.67	-	-
Iron Ore	-	8.58	4.33	5.39	-	-	7.03	6.41	13.48	-	6.98
Coking Coal	-	2.75	3.44	4.23	7.40	5.16	-	-	5.48	-	-
Thermal Coal	17.60	24.72	-	14.06	29.10	18.82	19.93	16.77	9.72	13.46	12.94
Fertilisers	14.96	18.92	4.62	7.76	11.20	15.15	8.41	6.57	-	11.76	7.14
Raw Materials	-	16.42	5.00	7.07	8.00	11.22	12.10	9.30	5.14	11.84	7.59
Other Dry Bulk	5.56	3.17	1.20	2.45	4.50	2.37	1.51	2.46	1.82	2.67	3.65
Other Lqd. Bulk	10.81	15.48	5.43	5.74	7.10	8.74	5.36	5.22	8.41	5.58	7.43
General Cargo	4.77	1.62	-	1.89	5.80	2.67	2.08	0.30	0.97	3.09	2.13
Containers											
Total	6.59	5.21	3.89	4.75	6.80	6.39	3.23	3.80	4.30	3.95	4.00
											1.72

* : Excluding pre berthing time due to non port A/C.

Source: Indian Ports Association.

AVERAGE TURN ROUND TIME (IN DAYS)



☐ 1998-99
 ☐ 1999-2000

TABLE - XIV
Commodity-wise Output per Ship Berth Day (Major Ports) -1999-2000 (P)
(In Tonnes)

Port ---> Commodity	Calcutta	Haldia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Mumbai	Kandla	J.L.Nehru	
P.O.L M	24239	19067	7272	16420	17493	4906	16511	25362	6376	16786	29339	5784
Iron Ore M	-	-	15444	32325	30265	-	-	32443	23091	-	-	-
Coking Coal	-	4644	6883	7736	7774	-	4235	3257	4186	-	10510	-
Thermal Coal	-	15816	10156	9154	-	8256	-	-	8657	-	-	-
Fertilisers	332	843	-	2979	1629	2439	1346	1505	1825	1172	3202	-
Raw Materials	750	1186	5345	3476	1870	1787	2209	1095	-	986	4255	-
Other Dry Bulk	-	1757	3336	4983	2701	2476	1440	1761	3405	850	2430	3772
Other Liquid Bulk ✓	1852	4971	1424	5637	3494	4638	5959	5416	5176	2454	5203	-
General Cargo	440	912	2647	1583	1018	1040	668	984	2207	1154	1978	1525
Containers	2533	1695	-	1579	4217	5410	2489	447	1199	3435	3120	9387
Total	2157	5599	7106	7579	5883	2891	5952	9000	11162	3876	8740	5905

Source: Indian Ports Association.

TABLE - XIII

Commodity-wise Average Non-Working Time at Berth (Major Ports) - 1999-2000 (P)

(In Days)

Port ---> Commodity	Calcutta	Haldia	Paradip	Vizag	Chennai	Tuticorin	Cochin	New Mangalore	Korumbagao	Mumbai	Randla	J.L.Nehru
P.O.L	1.73	0.43	...	0.66	0.60	0.69	0.48	0.32	0.41	0.58	0.43	0.10
Iron Ore	-	-	1.61	1.26	1.10	-	-	0.51	0.71	-	-	-
Coking Coal	-	2.06	0.72	0.96	-	-	1.74	2.83	2.75	-	0.44	-
Thermal Coal	-	1.07	0.78	0.83	1.20	0.76	-	-	0.39	-	-	-
Fertilizers	7.94	4.66	-	2.70	6.60	2.93	4.21	7.47	1.22	3.69	0.83	-
Raw Materials	3.92	6.65	1.40	1.59	2.60	2.96	2.06	3.03	-	3.60	0.42	-
Other Dry Bulk	-	4.52	0.78	1.29	1.90	1.78	5.31	4.06	1.19	5.86	0.47	0.39
Other Lqd. Bulk	0.98	0.49	...	0.47	0.40	0.37	0.24	0.27	0.30	0.76	0.51	-
Break Bulk	4.31	4.22	0.81	1.18	2.50	1.77	2.24	2.44	0.90	1.93	0.57	0.08
Containers	0.85	0.39	-	0.52	1.10	0.58	0.42	0.04	0.18	0.58	0.28	0.21
Total	1.88	1.24	0.99	0.98	1.40	1.23	0.81	1.05	0.61	1.11	0.46	0.13

Source: Indian Ports Association

OUT PUT PER SHIP BERTH-DAY (TONNES)

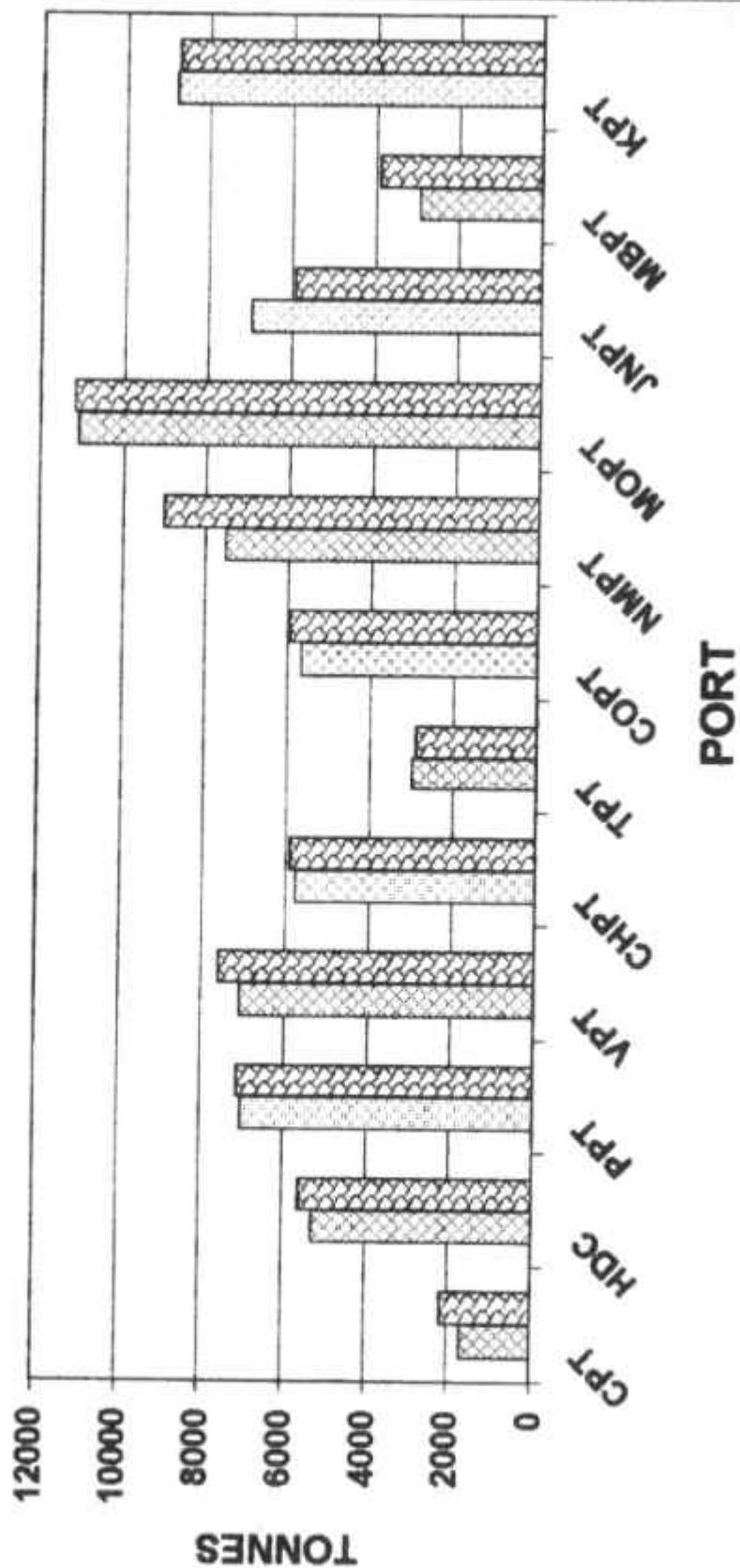


Table XV

Major ports-Average Pre-Berthing Detention(P)

Port	(In Days)				
	1998-99		1999-2000		
	Total	Port A/c	Non-Port A/c	Total	Port A/c Non-Port A/c
Calcutta	1.04	0.24	0.80	1.03	0.21 0.82
Haldia	1.32	0.46	0.86	1.61	0.61 1.00
Paradip	1.20	0.32	0.88	1.14	0.29 0.85
Visakhapatnam	1.59	0.73	0.86	1.37	0.69 0.68
Chennai	3.45	2.10	1.35	2.80	2.10 0.70
Tuticorin	1.60	1.07	0.53	2.98	2.55 0.43
Cochin	0.87	0.25	0.62	0.87	0.20 0.67
New Mangalore	0.92	0.39	0.53	1.07	0.21 0.86
Mormugao	1.40	0.44	0.96	1.09	0.36 0.73
J.L.Nehru	1.41	0.83	0.58	1.39	0.64 0.75
Mumbai	2.11	0.61	1.50	1.37	0.29 1.08
Kandla	4.50	2.87	1.63	3.04	1.13 1.91
All Ports	2.03	1.02	1.01	1.79	0.86 0.93

Table No. XVI
Major Ports - Operating Expenditure Under Various Heads

(Rs. in Crore)

Port	Salaries & Wages		Stores		Electricity		Depreciation		Other Exp*		Total	
	1999-2000	1998-1999	1999-2000	1998-1999	1999-2000	1998-1999	1999-2000	1998-1999	1999-2000	1998-1999	1999-2000	1998-1999
Calcutta	182.02 (29.4)	173.46 (26.2)	21.06 (3.4)	20.00 (3.0)	25.22 (4.1)	22.05 (3.3)	22.77 (3.7)	20.64 (3.1)	367.44 (59.4)	426.07 (64.3)	618.51 (100)	682.22 (100)
Paradip	46.79 (37.9)	43.75 (36.6)	14.58 (11.8)	12.45 (11.0)	14.72 (11.9)	16.51 (14.6)	10.98 (8.9)	10.31 (9.1)	36.27 (29.4)	30.40 (26.8)	123.34 (100)	113.42 (100)
Visakhapatnam	90.82 (45.1)	88.98 (49.1)	37.82 (18.8)	34.77 (19.2)	14.53 (7.2)	11.62 (6.4)	21.50 (10.7)	12.45 (6.9)	36.86 (18.3)	33.42 (18.4)	201.53 (100)	181.25 (100)
Chennai	129.79 (48.6)	111.73 (50.9)	39.46 (14.8)	33.80 (15.4)	11.71 (4.4)	11.13 (5.1)	22.47 (8.4)	14.23 (6.5)	63.85 (23.9)	48.47 (22.1)	267.28 (100)	219.36 (100)
Tuticorin	25.35 (48.5)	20.76 (46.5)	5.07 (9.7)	4.70 (10.5)	3.26 (6.2)	2.56 (5.8)	6.45 (12.3)	4.97 (11.1)	12.12 (23.2)	11.62 (26.0)	52.25 (100)	44.64 (100)
Cochin	53.52 (36.3)	49.07 (37.9)	12.11 (8.2)	13.52 (10.4)	4.33 (2.9)	2.96 (2.3)	12.37 (8.4)	10.76 (8.3)	64.93 (44.1)	53.18 (41.1)	147.26 (100)	129.49 (100)
New Mangalore	29.72 (31.4)	26.11 (31.6)	3.35 (3.5)	3.07 (3.7)	2.85 (3.0)	2.14 (2.6)	9.48 (10.0)	13.32 (16.1)	49.21 (52.0)	37.87 (45.9)	94.61 (100)	82.51 (100)
Mormugao#	46.09 (44.2)	44.25 (44.0)	9.03 (8.7)	13.36 (13.3)	9.79 (9.4)	6.63 (6.6)	7.99 (7.7)	5.85 (5.8)	31.26 (30.0)	30.35 (30.2)	104.16 (100)	100.46 (100)
Mumbai	272.17 (64.4)	285.66 (65.7)	18.25 (4.3)	20.09 (4.6)	13.04 (3.1)	12.64 (2.9)	30.07 (7.1)	27.58 (6.3)	80.25 (21.1)	88.40 (20.4)	422.78 (100)	434.40 (100)
J. L. Nehru	20.46 (9.0)	18.52 (9.9)	8.63 (3.8)	8.21 (4.4)	10.32 (4.5)	12.40 (6.6)	42.85 (18.9)	41.82 (22.4)	144.96 (63.8)	105.92 (56.7)	227.35 (100)	186.87 (100)
Kandla	41.15 (32.6)	36.60 (42.4)	5.54 (4.4)	4.67 (5.4)	8.87 (5.4)	5.27 (6.1)	5.86 (4.6)	4.51 (5.2)	67.00 (53.0)	35.20 (40.8)	126.42 (100)	86.25 (100)
Total	937.91 (39.3)	898.84 (40.1)	174.90 (7.3)	166.66 (7.5)	116.64 (4.9)	105.94 (4.7)	192.89 (8.1)	166.44 (7.4)	963.15 (40.4)	900.99 (40.2)	2385.49 (100)	2240.67 (100)

Note :- Figures in parenthesis are the percentage of heads.

* : Expenditure on dredging is also included.

: Additional depreciation due to change in the life span, 1999-2000 - 5.67 crores.

Source : IPA

Table No. XVII
Major Ports - Performance of Cargo/Container Handling Equipment During the Year 1999-2000

1. Kandla Port Trust

Type	Wharf Crane					Fork Lift Truck (FLT)		
	3T (9 Nos.)	6T (3 Nos.)	8-12T (1 No.)*	12-16T (1 No.)*	2.5T (2 Nos.)	3T (4 Nos.)	5T (3 Nos.)	
Capacity/Nos.	79.77	85.31	98.66	97.98	98.48	95.13	91.20	
Availability %	41.71	45.57	55.30	55.83	11.73	33.73	53.67	

* Commissioned in the month of February 2000.

2. Mumbai Port Trust

Type	Wharf Crane		Mobile Crane		Fork Lift Truck		Reach Stacker	RTGC	RMQC
	3-6T (50 Nos)	13T (4 Nos)	14T (25 Nos)	20T(2 Nos)	3T (40 Nos)	16T (4 Nos)	40T (4 Nos)	35.5T(3 Nos)	35.5T(2Nos)
Capacity/Nos.	92.05	92.84	90.19	73.08	89.15	95.93	78.61	83.46	92.83
Availability %	18.10	11.46	10.94	18.98	16.72	16.20	24.26	16.12	29.83

3. Jawahar Lal Nehru Port Trust

Type	RMQC		RTGC	RMGC
Capacity/Nos.	35.5T (3 Nos)	35.5T (8 Nos)	35.5T (1 No)	
Availability %	87.08	82.90	94.97	
Utilisation %	41.77	28.38	50.19	

Major Ports - Performance of Cargo/Container Handling Equipment During the Year 1999-2000(Contd...)

4. Mormugao Port Trust

Type	Wharf Crane	Mobile Crane	Fork Lift Truck (FLT)
Capacity/Nos.	6T (2 Nos)*	18T (1 No)	3T (7 Nos)
Availability %	97.60	96.89	91.65
Utilisation %	4.20	2.27	20.65
			5T (2 Nos)
			92.64
			5.36

* Wharf crane decommissioned from Sept., 1999.

5. Cochin Port Trust

Type	Wharf Crane	Mobile Crane	H.Duty Crane	FLT	RTGC	RMQC	Reach Stacker	TLT
Capacity/Nos.	3T (8Nos)	10T (6Nos)	6Nos (1No)	3T(45Nos) 2T(2 Nos)	35T(4Nos)	40T(2Nos)	40T(2Nos) 10T(2Nos)	35T(3Nos)
Availability %	72.33	67.53	73.73	84.85	68.30	88.10	81.55	62.35
Utilisation %	12.60	7.34	1.58	8.85	22.00	35.10	21.78	24.48

6. New Mangalore Port Trust

Type	Wharf Crane	Fork Lift Truck			Mobile Crane		
Capacity/Nos.	10T(3Nos)	3T(3Nos)(Volkas)	3T(2Nos)(Godrej)	5T(1No)	10T(1No)	31 RT(1No)	10T(1No)*
Availability %	86.27	50.64	86.55	96.77	94.95	99.44	100.00
Utilisation %	7.11	7.86	19.46	4.54	1.54	4.95	2.44

* Commissioned during November, 1899

Table No. XVII
Major Ports - Performance of Cargo/Container Handling Equipment During the Year 1999-2000 (Contd....)

7. Tuticorin Port Trust

Type	Wharf Crane				Mobile Crane		Top Lift Truck	
	3T(3Nos)	6T(2Nos)	10T(1No)	10T(4Nos)	75T(2Nos)	12T(1No)	35T(5Nos)	25T(1No)
Capacity/Nos.	98.58	78.17	97.19	80.78	85.37	65.66	78.50	56.08
Availability %	12.62	20.34	9.96	8.91	6.40	3.42	28.91	14.07

8. Chennai Port Trust

Type	Wharf Crane			Mobile Crane	DFLT	Heavy FLT	EFLT	RMQC	RTGC	Reach Stacker	TLT
	3/5T (5Nos)	S10/13T (19Nos)	50T (1No)								
Capacity/Nos.	93.07	85.93	86.10	90.54	82.75	83.85	84.64	91.77	89.94	60.11	90.10
Availability %	25.17	30.56	8.22	26.24	22.85	31.98	25.85	63.51	54.67	31.11	31.64

9. Visakhapatnam Port Trust

Type	Wharf Crane			Mobile Crane			FLT			TLT
	3T (4Nos)*	6T (4Nos)	10T (13Nos)	15T (1No)	40T(1No)	47T(2Nos)	75T(1No)	3T (28Nos)	10T(3Nos)	
Capacity/Nos.	98.69	96.29	97.34	99.99	89.53	81.47	98.30	68.63	71.64	53.37
Availability %	3.97	25.22	40.42	44.66	16.45	11.17	15.18	16.71	36.68	19.27
Utilisation %										36.86

* Decommissioned from February, 2000

10. Paradip Port Trust

Type	Wharf Crane		Mobile Crane		FLT
	13.4T (4 Nos)	93.67	12.5T (2 Nos)*	30T (1 No)	
Capacity/Nos.			84.58	38.94	2.5T (10 Nos)
Availability %			8.71	0.31	99.62
Utilisation %					3.45

* Decommissioned in December, 1999

** Commissioned in January, 2000.

Table No. XVII
Major Ports - Performance of Cargo/Container Handling Equipment During the Year 1999-2000 (Contd...)

11. Calcutta Port Trust

Type	Wharf Crane				Mobile Crane	FLT		TLT	RTGC	Reach Stacker
Capacity/Nos.	200T (1No)	5T (2 Nos)	3/5T (23 Nos)	3T (11 Nos)	21 Nos	2/3T (26 Nos)	6.5T (2 Nos)	35T (1 No)	35.5T (3 Nos)	45T (2 Nos)
Availability %	100	96.83	50.67	27	70.00	76.42	84.06	86.10	47.10	71.05
Utilisation %	31	19.25	8.42	Nil	36.75	42.42	8.58	14.98	20.01	25.30

12. Haldia Dock Complex

Type	Transfer Crane	FLT		Mobile Crane		TLT
Capacity/Nos.	30T (1No)	10T (1 No)	2/3T (8 Nos)	6T (1 No)	10T (1 No)	
Availability %	82.46	67.57	57.46	56.32	59.12	1 No
Utilisation %	60.25	36.88	7.07	10.40	23.28	87.22
						53.75

Source : Development Wing (MOST).

SECTION - I

PORT SECTOR (MAJOR & MINOR)

SUMMARY TABLES

1.1.0 Port Sector At a Glance

Item	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
I. No. of Ports							
i) Major	11	11	11	11	11	11	11
ii) Minor/Intermediate	163	163	163	179	179	181	184
iii) Total	174	174	174	190	190	192	195
Major Ports							
II. Cargo Handled (In Million Tonnes)							
i) POL	73.96	77.26	80.75	90.92	99.05	105.34	108.23
ii) Iron Ore	29.83	34.10	34.36	34.56	33.26	39.61	32.82
iii) Fertiliser & Raw Material	9.91	9.47	11.00	12.36	9.92	12.44	12.57
iv) Coal	24.49	26.81	30.80	33.79	37.53	42.30	42.87
Coke & Coking Coal	8.66	7.25	9.07	10.06	10.51	10.95	10.14
Other Coal	17.83	19.56	21.73	23.73	27.02	31.35	32.73
v) Others(Including Containers)	28.31	31.38	38.99	43.58	47.21	51.97	55.25
Total	166.50	179.02	195.89	215.21	226.97	251.66	251.74
III. Containers ('000 TEUs) (Million Tonnes)	797	1048	1258	1449	1699	1892	1933
	7.62	11.90	15.01	17.44	20.74	21.27	21.79
IV. Passenger Traffic Handled ('000 Nos.)	203	216	266	296	277	266	256

1.1.0 Port Sector At a Glance (Contd...)

V. Employment (Thousand Number)

	1993	1994	1995	1996	1997	1998	1999
	94	103	98	97	95	94	93

VI. Financial Performance

i) Total Revenue (Rs. Million)

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
	17865	20646	32173	27586	31716	36073	40095

ii) Total Expenditure (Rs. Million)

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
	12762	14445	16770	16772	21239	23907	29420

VII. Selected Performance Indicators

i) Total Vessels Sailed (Nos.)	10130	10608	11681	12300	13119	14077	14540
ii) Av. Turn round Time (days)	6.7	6.3	6.7	7.7	7.5	6.3	5.7
iii) Av. Pre-Berthing Detention (days)	2.0	1.9	2.4	3.6	3.1	2.3	2.0
iv) Output Per Ship Berthday (tonnes)	3575	3892	3968	4047	4497	4912	5167

1.1.0 Port Sector At a Glance (Contd...)

Item	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
Minor Ports							
I. Cargo Handled (In Million Tonnes)							
i) Fertiliser & Raw Material	3.01	2.28	1.65	2.61	1.94	3.93	2.78
ii) Iron & Other Ore	0.49	0.44	5.18	4.89	5.74	6.64	7.64
iii) Oil Cakes	2.37	2.48	2.15	2.04	2.20	2.14	1.32
iv) Building Material	1.53	1.55	4.04	4.10	4.14	3.40	6.52
v) Salt	0.17	0.25	0.18	0.17	0.26	0.11	0.17
vi) Others	7.84	12.47	9.08	12.10	13.55	22.39	17.88
Total	15.41	19.47	22.28	25.71	27.83	38.61	36.31
II. Passenger Traffic Handled (Million Nos.)							
	14.95	15.41	15.63	17.79	15.15	17.04	15.32
III. Ship Traffic (Nos.)							
i) Steamers	4146	4294	4938	8357	7873	8882	9236
ii) Sailing Vessels	22467	28516	26163	20960	23178	25396	20891

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									
1989-90	54.13	45.26	99.39	26.72	21.46	48.18	80.85	66.72	147.57
1990-91	59.02	43.63	102.65	26.07	22.95	49.02	85.09	66.58	151.67
1991-92	59.91	44.89	104.80	26.66	25.18	51.84	86.57	70.07	156.64
1992-93	74.09	43.28	117.37	24.35	24.78	49.13	98.44	68.06	166.50
1993-94	76.02	53.48	129.50	24.81	24.71	49.52	100.83	78.19	179.02
1994-95	83.60	52.18	135.78	29.60	30.51	60.11	113.20	82.69	195.89
1995-96	94.86	57.24	152.10	31.79	31.32	63.11	126.65	88.56	215.21
1996-97	102.57	57.31	159.88	36.64	30.45	67.09	139.21	87.76	226.97
1997-98	117.36	61.64	179.00	38.62	34.04	72.66	155.98	95.68	251.66
1998-99	125.10	54.97	180.07	39.43	32.24	71.67	164.53	87.21	251.74
MINOR PORTS									
1989-90	4.25	4.51	8.76	1.14	0.96	2.10	5.39	5.47	10.86
1990-91	5.71	3.85	9.56	1.97	1.25	3.22	7.68	5.10	12.78
1991-92	4.77	4.10	8.87	3.02	1.37	4.39	7.79	5.47	13.26
1992-93	6.24	4.74	10.98	3.09	1.34	4.43	9.33	6.08	15.41
1993-94	7.57	6.64	14.21	3.84	1.42	5.26	11.41	8.06	19.47
1994-95	8.62	6.43	15.05	5.37	1.88	7.25	13.99	8.31	22.30
1995-96	9.95	8.17	18.12	5.12	2.47	7.59	15.07	10.64	25.71
1996-97	10.77	7.67	18.44	6.11	3.20	9.39	16.88	10.95	27.83
1997-98	18.75	10.42	29.17	5.22	4.22	9.44	23.97	14.64	38.61
1998-99	15.93	8.42	24.35	6.34	5.62	11.96	22.27	14.04	36.31
ALL PORTS									
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	92.22	58.61	150.83	34.97	32.39	67.36	127.19	91.00	218.19
1995-96	104.81	65.41	170.22	36.91	33.79	70.70	141.72	99.20	240.92
1996-97	113.34	64.98	178.32	42.75	33.73	76.48	156.09	98.71	254.80
1997-98	136.11	72.06	208.17	43.84	38.26	82.10	179.95	110.32	290.27
1998-99	141.03	63.39	204.42	45.77	37.86	83.63	186.80	101.25	288.05

1.1.2 Cargo Handled At Ports - By State

Port/State/Type of Traffic	(In '000 Tonnes)										
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GUJARAT		25552	28998	31298	34794	40245	43445	48820	53588	66616	63559
Kandla		18925	19685	21002	22910	24500	26502	30339	33730	38901	40637
Other Ports		6627	9313	10296	11884	15745	16943	18481	19858	27715	22922
Overseas		16735	20615	21480	26975	33083	34650	40653	43794	55710	52210
Coastal		8817	8383	9818	7819	7162	8795	8167	9794	10906	11349
Loaded		5302	5734	6905	6957	9760	10475	12795	12804	14185	12314
Unloaded		20250	23264	24393	27837	30485	32970	36025	40784	52431	51245
MAHARASHTRA		29782	31849	29587	32256	34539	38127	44260	45752	45677	47888
Mumbai		27746	28899	26261	28946	30506	30673	33916	33439	32097	30970
J.L.Nehru		697	2022	2794	3007	3387	5008	6873	8069	8895	11723
Other Ports		1339	928	532	303	646	2446	3471	4244	4685	5195
Overseas		18223	18984	17328	21386	25432	25565	29944	32401	35008	36806
Coastal		11559	12865	12259	10870	9107	12562	14316	13351	10659	11082
Loaded		15880	16157	15715	14621	14391	16374	19250	18595	16682	16356
Unloaded		13902	15692	13872	17635	20148	21753	25010	27157	28995	31532

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

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

(In '000 Tonnes)

Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GOA	14168	14912	15111	16526	18929	19093	18202	17707	22167	20194
Mormugao	14168	14911	15099	16314	18717	18881	18095	17312	21182	18020
Other Ports	-	1	12	212	212	212	107	395	985	2174
Overseas	13511	14213	14175	15251	17567	17445	17482	16668	21094	18903
Coastal	657	699	936	1275	1362	1648	720	1039	1073	1291
Loaded	12685	13191	12709	14044	16306	16273	15376	15537	19900	17428
Unloaded	1483	1721	2402	2482	2623	2820	2826	2170	2267	2766
DAMAN & DIU	1	neg.	neg.	-	-	-	-	-	-	-
Other Ports	1	neg.	neg.	-	-	-	-	-	-	-
Overseas	-	-	-	-	-	-	-	-	-	-
Coastal	1	neg.	neg.	-	-	-	-	-	-	-
Loaded	-	-	-	-	-	-	-	-	-	-
Unloaded	1	neg.	neg.	-	-	-	-	-	-	-
KARNATAKA	8314	8633	8657	1558	8940	8460	9407	12977	15786	14610
New Mangalore	7661	8022	8274	7088	8630	8005	8884	12453	15282	14206
Other Ports	653	611	383	470	310	455	523	524	504	404
Overseas	7668	7702	7335	6785	7955	7218	7947	10381	12567	11857
Coastal	646	931	1322	773	985	1242	1460	2596	3219	2753
Loaded	6676	6999	7136	5744	7531	6533	7191	8284	9468	7494
Unloaded	1638	1634	1521	1614	1409	1927	2216	4693	6318	7116

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

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

Port/State/Type of Traffic		(In '000 Tonnes)										
	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
KERALA	7281	7405	7611	8103	7719	8828	11687	11813	12439	12785		
Cochin	7124	7275	7481	7978	7620	8631	11503	11742	12323	12681		
Other Ports	157	130	130	125	99	197	184	71	116	104		
Overseas	3085	2604	3106	3284	3107	4023	4842	5739	6567	7174		
Coastal	4196	4801	4505	4819	4612	4805	6845	6074	5872	5611		
Loaded	1188	1145	1169	1233	1367	1630	2547	2321	2644	2514		
Unloaded	6093	6260	6442	6870	6352	7198	9140	9492	9795	10271		
TAMIL NADU	29640	29820	31099	31806	33321	37629	40123	41056	45773	45822		
Tuticorin	5324	5075	5868	6215	6700	8041	9286	9174	9974	10150		
Chennai	23940	24518	25046	25331	26541	29464	30721	31848	35531	35202		
Other Ports	376	227	185	260	80	124	116	34	268	470		
Overseas	17736	17714	17849	18645	19428	21210	25168	23644	27580	26694		
Coastal	11904	12106	13250	13161	13893	16419	14955	17412	18193	19128		
Loaded	10317	10062	10754	9864	10774	11413	11621	11481	13268	12170		
Unloaded	19323	19758	20345	21942	22547	26216	28502	29575	32505	33652		

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

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

(In '000 Tonnes)

Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
PONDICHERY	229	70	53	47	22	26	56	45	N	23
Other Ports	229	70	53	47	22	26	56	45	N	23
Overseas	229	70	53	47	22	26	56	45	N	23
Coastal	-	-	-	-	-	-	-	-	-	-
Loaded	-	-	-	-	-	-	-	-	-	-
Unloaded	229	70	53	47	22	26	56	45	N	23
ANDHRA PRADESH	22491	20545	22702	24325	27402	31416	35120	36725	39552	39832
Visakhapatnam	21117	19421	21522	22765	25595	30029	32817	34498	36014	35654
Other Ports	1374	1124	1180	1560	1807	1387	2303	2227	3538	4178
Overseas	16301	14944	16014	19157	20327	21538	23518	24545	24359	24629
Coastal	6190	5601	6688	5168	7075	9878	11602	12180	15193	15203
Loaded	11439	9719	11869	10919	13927	15118	16838	14922	16534	16177
Unloaded	11052	10826	10833	13406	13475	16298	10202	21803	23018	23655
ORISSA	6252	6945	7447	7813	8539	10336	11429	11719	13503	13228
Paradip	6184	6884	7297	7606	8327	10121	11259	11580	13302	13108
Other Ports	68	61	150	207	212	215	170	139	201	120
Overseas	4960	5001	5078	4427	4853	5993	6505	5690	6256	5402
Coastal	1292	1944	2369	3386	3686	4343	4924	6029	7247	7826
Loaded	3766	4056	4449	5231	5827	6669	7125	7809	8959	8721
Unloaded	2486	2889	2998	2582	2712	3667	4304	3910	4544	4507

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

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

(In '000 Tonnes)

Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
WEST BENGAL	14689	14953	16000	18337	18496	20535	21515	23124	28157	29387
Calcutta	4339	3839	4157	5157	5169	5804	6124	6023	7952	9163
Haldia	10350	11114	11843	13180	13327	14731	15391	17101	20205	20224
Other Ports (No Minor Port)	-	-	-	-	-	-	-	-	-	-
Overseas	9698	10372	11248	12383	11937	13155	14105	15411	19004	20694
Coastal	4991	4581	4752	5954	6559	7380	7410	7713	9153	8693
Loaded	4933	4537	4747	5422	6279	6453	6400	6896	8498	7824
Unloaded	9756	10416	11253	12915	12217	14082	15115	16228	19659	21563
SEA-ISLANDS	32	317	337	337	337	292	295	295	595	716
Other Ports	32	317	337	337	337	292	295	295	595	716
Overseas	-	-	-	-	-	-	-	-	17	22
Coastal	32	317	337	337	337	292	295	295	578	694
Loaded	1	82	99	99	99	60	56	61	187	249
Unloaded	31	235	238	238	238	232	239	234	408	467
ALL INDIA	158431	164447	169902	181902	198489	218187	240914	254801	290265	288044
Major Ports	147575	151665	156644	166497	179019	195890	215208	226969	251658	251738
Other Ports	10856	12782	13258	15405	19470	22297	25706	27832	38607	36306
Overseas	108146	112219	113666	128340	143711	150823	170220	178318	208162	204414
Coastal	50285	52228	56236	53562	54778	67364	70694	76483	82103	83630
Loaded	72187	71682	75552	74134	86261	90998	99199	98710	110325	101247
Unloaded	86244	92765	94350	107768	112228	127189	141715	156091	179940	186797

Note: 1 'Other Ports' means Minor/Intermediate Ports.

2 Sea Islands include Lakshadweep and A&N Islands.

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

('000 Tonnes)

Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10	11
GUJARAT										
Kandla	16755	17271	18148	20503	20953	22651	25873	29267	35021	36457
Other Ports	3495	5993	6245	7334	9532	10319	10152	11517	17410	14788
Total	20250	23264	24393	27837	30485	32970	36025	40784	52431	51245
Overseas	12569	16080	15941	21197	24495	26450	30092	33272	43342	42919
Coastal	7681	7184	8452	6640	5990	6520	5933	7512	9089	8326
MAHARASHTRA										
Mumbai	13141	13719	11506	15232	17438	16162	17320	18370	19308	19166
Jawaharlal Nehru	507	1645	2061	2105	2088	3290	4314	4808	5373	7418
Other Ports	254	328	305	298	622	2301	3376	3979	4314	4948
Total	13902	15692	13872	17635	20148	21753	25010	27157	28995	31532
Overseas	13353	14770	13143	17221	19321	19245	21636	22874	26189	27417
Coastal	549	922	729	414	827	2508	3374	4283	2806	4115
GOA										
Mormugao	1483	1721	2396	2394	2535	2732	2819	1951	1978	2560
Other Ports	...	-	6	88	88	88	7	219	289	206
Total	1483	1721	2402	2482	2623	2820	2826	2170	2267	2766
Overseas	847	1058	1660	1720	1910	2024	2336	1323	1358	1883
Coastal	636	663	742	762	713	796	490	847	909	883
DAMAN & DIU										
Other Ports	1	neg	neg	neg	neg	neg	-	-	-	-
Total	1	neg	neg	neg	neg	neg	-	-	-	-
Overseas	-	-	-	-	-	-	-	-	-	-
Coastal	1	neg	neg	neg	neg	neg	-	-	-	-

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

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

		('000 Tonnes)									
Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	
1	2	3	4	5	6	7	8	9	10	11	
KARNATAKA											
New Mangalore	1294	1363	1298	1530	1245	1640	1883	4479	6098	6929	
Other Ports	344	271	223	284	164	287	333	214	220	187	
Total	1638	1634	1521	1814	1409	1927	2216	4693	6318	7116	
Overseas	1062	958	776	1127	718	1144	1319	4287	5957	6649	
Coastal	576	676	745	687	691	783	897	406	361	467	
KERALA											
Cochin	6053	6251	6433	6864	6351	7193	9125	9487	9781	10251	
Other Ports	40	9	9	6	1	5	15	5	14	20	
Total	6093	6260	6442	6870	6352	7198	9140	9492	9795	10271	
Overseas	2519	2138	2566	2601	2323	2952	3522	4497	5447	6168	
Coastal	3574	4122	3876	4269	4029	4246	5618	4995	4348	4103	
TAMIL NADU											
Tuticorin	4900	4541	5099	5408	5606	6876	7955	7611	8414	8485	
Chennai	14097	15000	15064	16286	16879	19247	20433	21933	24029	25091	
Other Port	326	217	182	248	62	93	114	31	62	76	
Total	19323	19758	20345	21942	22547	26216	28502	29575	32505	33652	
Overseas	8788	8978	8413	10187	9807	11591	14595	13368	15583	15848	
Coastal	10535	10780	11932	11755	12740	14625	13907	16207	16922	17804	

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

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

('000 Tonnes)

Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10	11
PONDICHERY										
Other Ports	229	70	53	47	22	26	56	45	N	23
Total	229	70	53	47	22	26	56	45	N	23
Overseas	229	70	53	47	22	26	56	45	N	23
Coastal	-	-	-	-	-	-	-	-	-	-
ANDHRA PRADESH										
Visakhapatnam	10410	10322	10431	12774	12930	15837	17611	21214	21826	22103
Other Ports	642	504	402	632	545	461	671	589	1192	1552
Total	11052	10826	10833	13406	13475	16298	18282	21803	23018	23655
Overseas	7824	8429	8999	12622	12018	13676	14731	16386	17018	17171
Coastal	3228	2397	1834	784	1457	2622	3551	5417	6000	6484
ORISSA										
Paradip	2460	2839	2880	2428	2501	3491	4200	3859	4488	4507
Other Ports	26	50	118	154	131	176	104	51	56	-
Total	2486	2889	2998	2582	2712	3667	4304	3910	4544	4507
Overseas	2486	2889	2998	2582	2708	3514	4239	3784	4435	3939
Coastal	-	-	-	-	4	153	65	126	109	568

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

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

		('000 Tonnes)										
Port/State/Type of Traffic		1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	
1	2	3	4	5	6	7	8	9	10	11		
WEST BENGAL												
Calcutta	3385	2972	2932	3677	3374	4106	4250	4235	6284	7963		
Haldia	6371	7444	8321	9238	8843	9976	10865	11993	13375	13600		
Other Ports												
(No Minor Port)												
Total	9756	10416	11253	12915	12217	14082	15115	16228	19659	21563		
Overseas	8701	9366	10125	11017	10261	11600	12283	13505	16757	18987		
Coastal	1055	1050	1128	1898	1956	2482	2632	2723	2902	2576		
SEA-ISLAND												
Other Ports	31	235	238	238	238	232	239	234	408	467		
Total	31	235	238	238	238	232	239	234	408	467		
Overseas	-	-	-	-	-	-	-	-	17	22		
Coastal	31	235	238	238	238	232	239	234	391	445		
ALL INDIA												
MAJOR PORTS	80856	85088	86569	98439	100823	113201	126648	139207	155975	164530		
Other Ports	5388	7677	7781	9329	11405	13988	15067	16884	23965	22267		
Total	86244	92765	94350	107768	112228	127189	141715	156091	179940	186797		
Overseas	58378	64736	64674	80321	83583	92222	104809	113341	136103	141026		
Coastal	27866	28029	29676	27447	28645	34967	36906	42750	43837	45771		

Note:1 'Other Ports' means Minor/Intermediate Ports.

2 Sea Islands include Lakshadweep & A & N Islands.

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

('000 Tonnes)

Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GUJARAT										
Kandla	2170	2414	2854	2407	3547	3851	4466	4463	3880	4180
Other Ports	3132	3320	4051	4550	6213	6624	8329	8341	10305	8134
Total	5302	5734	6905	6957	9760	10475	12795	12804	14185	12314
Overseas	4166	4535	5539	5778	8588	8200	10561	10522	12368	9291
Coastal	1136	1199	1366	1179	1172	2275	2234	2282	1817	3023
MAHARASHTRA										
Mumbai	14505	15180	14755	13714	13068	14511	16596	15069	12769	11804
Jawaharlal Nehru	190	377	733	902	1299	1718	2559	3261	3522	4305
Other Ports	1085	600	227	5	24	145	95	265	371	247
Total	15880	16157	15715	14621	14391	16374	19250	18595	16682	16356
Overseas	4870	4214	4185	4165	6111	6320	8308	9527	8819	9389
Coastal	11010	11943	11530	10456	8280	10054	10942	9068	7863	6967
GOA										
Mormugao	12685	13190	12703	13920	16182	16149	15276	15361	19204	15460
Other Ports	-	1	6	124	124	124	100	176	696	1968
Total	12685	13191	12709	14044	16306	16273	15376	15537	19900	17428
Overseas	12664	13155	12515	13531	15657	15421	15146	15345	19736	17020
Coastal	21	36	194	513	649	852	230	192	164	408
DAMAN & DIU										
Other Ports	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Overseas	-	-	-	-	-	-	-	-	-	-
Coastal	-	-	-	-	-	-	-	-	-	-

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

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

Port/State/Type of Traffic	('000 Tonnes)										
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
KARNATAKA											
New Mangalore	6367	6659	6976	5558	7385	6365	7001	7974	9184	7277	
Other Ports	309	340	160	186	146	168	190	310	284	217	
Total	6676	6999	7136	5744	7531	6533	7191	8284	9468	7494	
Overseas	6606	6744	6559	5658	7237	6074	6628	6094	6610	5208	
Coastal	70	255	577	86	294	459	563	2190	2858	2286	
KERALA											
Cochin	1071	1024	1048	1114	1269	1438	2378	2255	2542	2430	
Other Ports	117	121	121	119	98	192	169	66	102	84	
Total	1188	1145	1169	1233	1367	1630	2547	2321	2644	2514	
Overseas	566	466	540	683	784	1071	1320	1242	1120	1006	
Coastal	622	679	629	550	583	559	1227	1079	1524	1508	
TAMIL NADU											
Tuticorin	424	534	769	807	1094	1165	1331	1563	1560	1665	
Chennai	9943	9518	9982	9045	9662	10217	10288	9915	11502	10111	
Other Ports	50	10	3	12	18	31	2	3	206	394	
Total	10317	10062	10754	9864	10774	11413	11621	11481	13268	12170	
Overseas	8948	8736	9436	8458	9621	9619	10573	10276	11997	10846	
Coastal	1369	1326	1318	1406	1153	1794	1048	1205	1271	1324	

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

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

('000 Tonnes)

Port/State/Type of Traffic	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

PONDICHERY

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

ANDHRA PRADESH

Visakhapatnam	10707	9099	11091	9991	12665	14192	15206	13284	14188	13551
Other Ports	732	620	778	928	1262	926	1632	1638	2346	2626
Total	11439	9719	11869	10919	13927	15118	16838	14922	16534	16177
Overseas	8477	6515	7015	6535	8309	7862	8787	8159	7341	7456
Coastal	2962	3204	4854	4384	5618	7256	8051	6763	9193	8719

ORISSA

Paradip	3724	4045	4417	5178	5746	6630	7059	7721	8614	8601
Other Ports	42	11	32	53	81	39	66	68	145	120
Total	3766	4056	4449	5231	5827	6669	7125	7809	8959	8721
Overseas	2474	2112	2080	1845	2145	2479	2266	1906	1821	1463
Coastal	1292	1944	2369	3386	3682	4190	4859	5903	7138	7258

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

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

		('000 Tonnes)									
Port/State/Type of Traffic		1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
WEST BENGAL											
Calcutta	954	867	1225	1480	1795	1698	1874	1788	1668	1200	
Haladia	3979	3670	3522	3942	4484	4755	4526	5108	6830	6624	
Other Ports											
(No Minor Port)											
Total	4933	4537	4747	5422	6279	6453	6400	6896	8498	7824	
Overseas	997	1006	1123	1366	1676	1555	1822	1906	2247	1707	
Coastal	3936	3531	3624	4056	4603	4898	4578	4990	6251	6117	
SEA-ISLANDS											
Other Ports	1	82	99	99	99	60	56	61	187	249	
Total	1	82	99	99	99	60	56	61	187	249	
Overseas	-	-	-	-	-	-	-	-	-	-	
Coastal	1	82	99	99	99	60	56	61	187	249	
ALL INDIA											
Major Ports	66719	66577	70075	68058	78196	82689	88560	87762	95683	87208	
Other Ports	5468	5105	5477	6076	8065	8309	10639	10948	14642	14039	
Total	72187	71682	75552	74134	86261	90998	99199	98710	110325	101247	
Overseas	49768	47483	48992	48019	60128	58601	65411	64977	72059	63388	
Coastal	22419	24199	26560	26115	26133	32397	33788	33733	38266	37859	

Note:1 'Other Ports' means Minor/Intermediate Ports.

2 Sea Islands include Lakshadweep & A & N Islands.

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 FACILITIES**
- 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 entrance (Km)	Minimum Depth (Mtrs.)	Minimum Width (Mtrs.)	No.	Diameter : (In Mtrs.) : Type of Dock/Port
1	2	3	4	5	6	7	8
Kandla	23° 01' N	70° 13' E	25	4.6 below chart datum	200	No	Estuary Port
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	9.6	10.9	366	1	Natural Harbour and Impounded wet docks.
J.L.Nehru	18° 56.43' N*	72° 56.24' E*	17.0	11.0	350	1	All weather Tidal Port
Mormugao	15° 25' N	73° 48' E	4.5	13.0	250	1	Natural Harbour protected by a break-water. (At the mouth of River Zuari)
New Mangalore	12° 55' N	74° 48' E	7.5	15.4	245	1	Artificial lagoon port with open berth.
Cochin	9° 58' N	76° 14' E	10.5	11.7	200	3	Artificial 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 anchorage from Harbour entrance (Km)	Minimum Depth (Mtrs.)	Minimum Width (Mtrs.)	No. (In Mtrs.)		
1	2	3	4	5	6	7	8	9
Tuticorin	8°47' N	78°12' E	2.4	10.8	152	1	488	Artificial Harbour
Chennai	13°06' N	80°18' E	6.7	IH 18.6 OH 19.2	244	1	548	Artificial Harbour with wet docks.
Visakhapatnam	17°41' N	83°18' E						
- Inner Harbour			2.2	10.7	97.54	1	366	Natural Harbour.
- Outer Harbour			0.4	17.5	200	1	610	
Paradip	20°15' N	86°40' E	2.0	12.8	160	1	520	Wet Dock
Calcutta	22°32' 53" N	88°18' 05"E	233	2.9	100	2	183/250	Riverine with impounded wet docks and river side jetties.
Haldia	22°2' N	86°6' E	115	6.7	467	1	549	Impounded dock with riverine oil jetties.

IH - Inner Harbour

OH - Outer Harbour

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 : 1998-99 1999-2000 (P)
1	2	3	4	5	6 7
Kandla	General Cargo Jetties (8)	9.14	1987.34	55000	97 95
	Oil Jetty - I (1)	9.40	213.40	45000	99 95
	Oil Jetty - II (1)	7.50	153.00	45000	87 100
	Oil Jetty - III (1)	10.35	213.40	40000	98 98
	Oil Jetty - IV (1)	10.35	213.40	56000	97 96
	Oil Jetty - V (1)	9.50	213.00	45000	100 98
	S.B.M. (Vadinar) (2)	-	-	No restriction	49 54
Mumbai	Indira Dock (29*)	7.0-10.0	152-244	length overall 600 feet.	76 62
	Victoria Dock (12)	6.7	122-152	length overall 460 feet.	50 41
	Princess Dock (8)	6.1-6.4	100-212	length overall 500 feet.	67 74
	Jawahar Deep (4)	10.97-14.3	244-493	125000	65 53
	Pir Pau Oil Pier (1)	7.5	174	35000	14 28
	New Pir Pau Pier (1)	12.0	197	47000	74 67
J.L. Nehru	Container (3)	13.5	680	70000	70 76
	Dry Bulk (2)	13.5	500	70000	67 83
	Service: BBO3 (1)	13.5	212	70000	66 57
	BBO4 (1)	9.5	180	15000	26 38

* Includes 6 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		
					1998-99	1999-2000 (P)	
1	2	3	4	5	6	7	
Mormugao	General Cargo (B.No. 5)	8.5	175	18000	61	48	
	General Cargo (B.No. 6)	6.0	213	7000	98	23	
	Barge Berth (B.No. 7) (adjacent to berth No.6)	3.5	100	-	32	20	
	Oil Berth (B.No. 8)	13.0	116(298**)	125000	56	67	
	MOHP (B. No. 9)	13.0	222(375.5**)	275000	77	60	
New Mangalore	Multi purpose G.C. Berth (B. No. 10)	12.0	250	55000	98	88	
	Multi purpose G.C. Berth (B. No. 11)	12.0	270	55000	98	84	
	General (7)	6.5-10.5	125-198	4000-	18,73,67,47	8,68,49	
	Iron Ore Berth (1)	13.0	300	30000	58,55,18	40,45,66,53	
	Oil Jetty (1)	10.5	330	30000	44	54	
	MRPL Crude Jetty (1)	13.0	320	85000	60	60	

** : 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 (DWT)	Percentage occupancy during 1998-99	Percentage occupancy during 1999-2000 (P)
1	2	3	4	5	6	7
Cochin	Break Bulk (8)	9.1 (Each)	137-170	...	55,70,58,63, 68,55,46,20	53,92,60,49, 36,65,38,58
	Fertiliser (1)	10.7	207	86000	64	97
	Oil terminal (1)	11.7	250	115000	80	87
	Tanker Berth (2)	9.1	170-213	30000	57,49	48,55
	(North/South) Container (1) Terminal (Q8/Q9)	10.7	210	-	67	58
Tuticorin	General Cargo Berth (6)	8.2	168-240	35000	95	95
	Oil Jetty (1) Coal Jetty (2)	8.2 8.2	228 235	40000 50000	39 78	38 61
Chennai	Break Bulk/Neo Bulk (10)	7.92-10.40	170.60-246	...	74,69,74,82,82 84,75,88,88,83 89,86,87	75,77,78,78,84 89,85,86,90,87 89,86,85
	Container Terminal (3)	11.0-12.5	200 Each	20000 To 45000	77,69	60,60
	Liquid Bulk (2)	16.00-17.4	308 & 338.94	140000	88,81,80,74	85,78,85,78
	Dry Bulk (4)	11.00-17.4	218-222	Upto 130000	73,69,100,97,81	78,93,78,94,76
	Others (5)	7.92-8.53	157-198	...		

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 1998-99 1999-2000(E)
1	2	3	4	5	6 7

Visakhapatnam

Inner Harbour :					
Multi-purpose Berths*(12)		10.1-10.2	168-235	40000	88
Dry Bulk Berth (1)		10.1	168	35000	71
(Mech) Fertiliser Berth					
Oil Berth (2)					
Liquid Bulk Berth-1		10.1**	183	36000	76
Liquid Bulk Berth-2		9.8	183	36000	82
Outer Harbour :					
Ore Berth (2)					
Dry Bulk Berth(Iron-Ore)		16.0	263	150000	71
Dry Bulk Berth(Iron-Ore)		16.0	263	150000	70
General-cum-Bulk					
Cargo Berth (1)		13.2	232	100000	90
Off - Shore Tanker					
Terminal Berth (1)		15.0	270	100000	45
					51

* 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		
					1998-99	1999-2000 (P)	
1	2	3	4	5	6	7	
Paradip	General Cargo Berth						
	Dry & Break-Bulk-I	11.5	687	40000-60000	51	70	
	Dry & Break-Bulk-II	11.5	687	40000-60000	60	73	
	Dry & Break-Bulk-III	11.5	687	40000-60000	75	66	
	Iron Ore Berth (1)	13.2	155	60000-75000	50	57	
	(Mechanised Dry-Bulk)		(320m. between Dolphin)	(Depend on weather Conditions)			
	Fertiliser Berth (1)	13.0	252	60000-65000	67	52	
	(Mechanised Liquid Bulk)						
	Multipurpose Berth	13.0	290	60000-65000	68	37	
	South Quay	12.5	265	50000	70	68	
Calcutta	West Quay	13.0	497	60000-65000	65	74	
	Multi Purpose Berth (21)						
	1. Berth 1/KPD	7.7	133	475' Length 70' Breadth	53	48	
	2. Berth 5/7KPD	8.7	229	515' Length 70' Breadth*	26	33	
	3. Berth 9.KPD	8.9	108	-do-	34	31	
	4. Berth 11KPD	8.9	151	-do-	50	47	
	5. Berth 4KPD	8.1	136	-do-	31	37	

* LOA - 157 mtrs. and Beam 21.35 mtrs.

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

Port :	Type of Berth (No.) :	Draft (In Mtrs.) :	Length (In Mtrs.) :	Maximum size of ships that can be accommodated (DWT) :	Percentage occupancy during 1998-99 1999-2000 (P) :	
1	2	3	4	5	6	7
Calcutta						
(Contd.)						
6. Berth 8/KPD	8.3	128	515' Length 70' Breadth*	53	49	
7. Berth 10KPD	8.8	161	-do-	54	44	
8. Berth 12KPD	8.5	143	475' Length 70' Breadth	76	57	
9. Berth 22KPD	8.8	151	500' Length 70' Breadth	100	100	
10. Berth 23KPD	8.1	147	515' Length 70' Breadth*	39	85	
11. Berth 24KPD	8.6	152	-do-	57	89	
12. Berth 25KPD	8.7	169	-do-	41	84	
13. Berth 26KPD	8.1	185	-do-	28	32	
14. Berth 27KPD	8.4	195	-do-	61	52	
15. Berth 28KPD	7.6	195	-do-	37	60	
16. Berth 29KPD	8.4	185	-do-	51	48	
17. Berth 1NSD	8.3	200	565' Length 80' Breadth**	45	46	
18. Berth 2NSD	8.0	187	-do-	64	60	
19. Berth 3NSD	8.5	183	-do-	54	64	
20. Berth 13NSD	7.3	174	-do-	45	49	
21 Berth 14NSD	7.9	174	540' Length 80' Breadth	38	41	

* 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 1998-99 1999-2000 (P)
1	2	3	4	5	6
Calcutta (Contd.)	Containers (6)				
	1. Berth 3KPD	8.9	128	515' Length, 70' Breadth	37
	2. Berth 6KPD	8.7	118	-do-	43
	3. Berth 4NSD	8.5	181	565' Length, 80' Breadth	44
	4. Berth 5NSD	8.4	182	-do-	32
	5. Berth 7NSD	8.1	192	550' Length, 80' Breadth	62
	6. Berth 8NSD	6.8	225	-do-	20
	Liquid Bulk/Oil Berth (7)				
	1. Berth 12NSD	7.8	152	500' Length, 80' Breadth	38
	2. Berth 1 Budge Budge	Up to 9 mtrs.	189	139 to 189 mtrs.	62
	3. Berth 2 -do-	-do-	102	85 to 116 mtrs.	45
	4. Berth 3 -do-	-do-	163	106 to 141 mtrs.	46
	5. Berth 5 -do-	-do-	189	132 to 189 mtrs.	58
	6. Berth 7 -do-	-do-	189	106 to 141 mtrs.	51
	7. Berth 8 -do-	-do-	189	106 to 189 mtrs.	59
	1. Liquid Bulk	12.2	91.44	90000	67
	2. Liquid Bulk	12.2	145	150000	60
	3. Dry/Liquid Bulk	12.2	337	90000	73
	4. Dry Bulk	12.2	284	90000	77
	5. Dry Bulk	12.2	195	90000	68
	6. Dry Bulk/Liquid Bulk	12.2	234	90000	92
	7. Dry Bulk/Liquid Bulk	12.2	234	90000	92
	8. Dry Bulk/Break Bulk	12.2	218	4 or more vessels with in a total LOA of 800 mtrs. can be simultaneously accommodated from berth No. 8,9,10 & 11.	90
	9. Dry/Break Bulk/Container	12.2	218		92
	10. Dry/Break Bulk/Container	12.2	220		95
	11. Dry/Break Bulk/Container	12.2	206		95
Haldia					

(P): Provisional.

2.1.3 Storage Facilities at Major Ports.

Port	Type	Dry Storage Accommodation		Liquid Storage Tanks		Capacity	Type of Cargo
		No.	Area (Sq. mtrs.)	No.	Location		
1	2	3	4	5	6	7	8
Kandla	i) Transit Sheds	3	17567				
	ii) Ware-Houses (Double storage)	4	44622				
	iii) Other covered areas(Godowns)	14	50430				
	iv) Transit Shed at Bunder	2	2710				
	v) Container Freight Station	2	6336				
	vi) Bulk Storage	2	11720				
	vii) Open Area	-	578020				
Mumbai	i) Transit Sheds	26	133135			29000 Tonnes	Molasses/ Caster Oil
	ii) Ware-Houses	20	124951	4 P&V Docks			
	iii) Other covered area (Container freight station)	23 Sheds	50681+8011 ground slots for Containers	8(BPT) Jawahar Deep		Varies from 810-10222 KL	POL Products & Fresh Water
	iv) Open area (At various places)	-	141404+3496 ground slots for temporary stacking of containers	6(BPCL) Jawahar Deep		191500 Kls.	-do-
					6(STC) Camac Bunder 3(STC) Mallet Bunder 69(V.V.F. Ltd.) Hay Bunder 28 (Aegis) Pir Pau 2 (Aegis) Pir Pau 17 (CTTL) Pir Pau	11500 Tonnes 36000 Tonnes 47600 Tonnes 90000 Kls. 20000 Tonnes 35000 Kls.	Vegetable Oil, Liquid Chemicals, LPG Chemical/ lub. Oil

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	Kls.	Soda, F. Oil, 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)	Kls.	
	II. Open Storage			3	Outside (Installed	13354	Phosphoric acid
	i) Behind B. No. 6 & 7	-	13332		by Zuari Industries)	Kls.	
	ii) Behind B. No. 10	-	16000				
	iii) Behind B. No. 11	-	22200				
	iv) Stock yard at Mechanical ore handling plant.	-	80000				
New Mangalore	i) Transit/Overflow Sheds	4	19254	51	Inside and Outside	205800 KL	Naptha, Petroleum
	ii) Ware-Houses	9	19710		the Security wall	& 33500 (Tonnes)	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	Dry Storage Accomodation				Liquid Storage Tanks		
	Type	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	92	5.2 kms away from the port	619300 Tonnes	POL, POL Products Edible Oils, B & C Class Chemicals.
ii) Fertiliser Shed		2	21000 Each				
B. Open Paved Area							
iii) Sulphur Shed		1	24700				
iv) Bag storage Shed		1	11880				
v) Wagon Loading Shed		1	32850				
II. Container Terminal							
i) Dry Bulk Storage		1	159139				
ii) 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							
ii) Ware-Houses		7	28263	14	Near BTP	1340 Tonnes	Castlew Shell
iii) Over Flow Sheds		7	16246				
iv) Hazardous Sheds		7	13679	1	S C B	10000 Tonnes	Liquid Ammonia
v) Container Freight Station		2	202				
vi) Carbide Shed		1	10732	2	Q 10	13000 Tonnes	Phosphoric Acid
		1	96				

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
Tuticorin	i) Transit Sheds	2	10800	3	Inside the Security Wall Outside the Security Wall	15000 M3 10000 MT 2000 M3 5000 M3	Phosphoric Acid Liquid Ammonia Vinyl Chloride, Mono -do-
	ii) Ware - Houses	3	15550	3	-do-	3x6500 MT	Furnace Oil
	iii) Other covered area	14	42000	2	-do-	2x70 KL	LSHF/HSD
	iv) Open area		72000	3	-do-	1x13800 KL	Naptha
						1x13700 KL	-do-
						1x14100 KL	-do-
				2	-do-	1x600 MT	LDO
				2	-do-	1x938 MT	LDO
				2	-do-	7790 KL	Ethylene Di -Chloride
				1	-do-	10000 MT	LPG
Chennai	i) Transit Sheds ii) Ware-Houses iii) Container freight station iv) Open space v) Container parking yard	8 12 2 - -	36000 65686 12600 325000 130000	42	Inside Port	126200 Tonnes and 139733 Kls.	Phosphoric Acid Lub. Oil Black & White Oil Edible Oil & Other Liquid cargo
Visakhapatnam	i) Transit Sheds ii) Ware- Houses iii) Other covered area (S 2 & S 3 Sheds) iv) Open area	4 4 2 -	28111 13284 8113 998609 + 152319 for other cargoes	13	West Ore berths west jetty berths area	19098 M. Tonnes	Edible oils & Molasses, Caustic Soda, P. Acid & Ammonia

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

Port	Dry Storage Accomodation				Liquid Storage Tanks		
	Type	No.	Area (Sq. mtrs.)	No.	Location	Capacity	Type of Cargo
1	2	3	4	5	6	7	8
Paradip	i) Transit Sheds ii) Ware - Houses iii) Other covered area iv) Open area	5 4 5 -	15280 8969 15000 650000	12	Outside Port	167000 KL	H. S. D., S. K. O., FO LDO
Calcutta	i) Transit Sheds ii) Ware-Houses iii) Other covered area iv) Open area	27 2 - -	145624 ... - 155165	189	Near NS Dock/ Budge Budge	554662 KL	POL (product) veg. oil Other Liquid Cargo.
Haldia	i) Transit Sheds ii) Ware-Houses iii) Other covered area iv) Open area	2 - - 9	22070 - - 531676*		HDC does not have Liquid storage facilities		POL, product, Crude oil, Other Liquid Cargo.

* Includes storage area leased to the Port users inside the dock.

2.1.1.4 Performance Of Cargo Handling Equipments Of Major Ports
For The Years 1997-98, 1998-99 and 1999-2000

S.No.	Name Of The Port	Equipment	1997-98		1998-99		1999-2000 (P)	
			% Avail- ability	% Utili- sation	% Avail- ability	% Utili- sation	% Avail- ability	% Utili- sation
1	2	3	4	5	6	7	8	9
1.	Kandla	Wharf Crane	90	45	74	41	83	43
		Mobile Crane	100	-	-	-	-	-
		Forklift Truck	90	30	92	29	95	36
2.	Mumbai	Wharf Crane	90	30	89	27	92	18
		Mobile Crane	90	20	88	18	89	11
		Forklift Truck	88	20	91	21	89	17
3.	Mormugao	Wharf Crane	93	3	97	7	98	5
		Mobile Crane	96	3	97	4	97	2
		Forklift Truck	90	50	94	23	93	18
4.	N.Mangalore	Wharf Crane	86	-	59	2	88	8
		Mobile Crane	100	4	100	1	100	2
		Forklift Truck	90	5	88	5	68	9
5.	Cochin	Wharf Crane	88	10	66	10	70	10
		Mobile Crane	75	3	65	3	74	2
		Forklift Truck	75	13	82	10	85	9

**2.1.4 Performance Of Cargo Handling Equipments Of Major Ports
For The Years 1997-98, 1998-99 and 1999-2000 (Contd..)**

S.No.	Name Of The Port	Equipments	1997-98		1998-99		1999-2000 (P)	
			% Avail- ability	% Utili- sation	% Avail- ability	% Utili- sation	% Avail- ability	% Utili- sation
1	2	3	4	5	6	7	8	9
5.	Tuticorin	Wharf Crane	90	20	93	16	89	13
		Mobile Crane	60	10	62	5	72	5
		Forklift Truck	96	12	93	6	-	-
7.	Chennai	Wharf Crane	88	33	85	27	87	29
		Mobile Crane	90	44	88	44	91	26
		Forklift Truck	85	30	85	25	83	25
8.	Vishakhapatnam	Wharf Crane	90	35	94	39	97	32
		Mobile Crane	92	20	90	14	89	12
		Forklift Truck	76	26	68	20	70	21
9.	Paradip	Wharf Crane	80	32	82	13	94	18
		Mobile Crane	55	10	78	4	73	7
		Forklift Truck	87	10	99	5	100	4
10.	Calcutta	Wharf Crane	65	12	53	9	48	7
		Mobile Crane	40	20	48	22	70	37
		Forklift Truck	42	20	47	24	76	42
11	Baldia	Wharf Crane	-	-	-	-	-	-
		Mobile Crane	80	12	45	4	64	19
		Forklift Truck	70	20	74	15	59	9

Average Norms for :

1. Wharf Crane :

Availability 85 % to 90 %

2. Mobile Crane :

Utilisation 35 % and above

3. Forklift Truck :

Availability 82 % to 85 %

Utilisation 30 % and above

Availability 75 % to 80 %

Utilisation 35 % and above

Source : Development Wing, Ministry Of Surface Transport and IPA.

(P): Provisional

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)	(10)
1965-66	22.41	16.62	39.03	5.94	5.25	11.19	28.35	21.87	50.22
1970-71	21.50	26.58	48.08	4.06	3.44	7.50	25.56	30.02	55.58
1975-76	29.13	29.04	58.17	4.20	3.63	7.83	33.33	32.67	66.00
1980-81	39.09	28.50	67.59	7.73	4.95	12.68	46.82	33.45	80.27
1981-82	39.78	32.23	72.01	8.61	7.36	15.97	48.39	39.59	87.98
1982-83	41.08	29.16	70.24	10.57	12.89	23.46	51.65	42.05	93.70
1983-84	38.80	29.07	67.87	13.41	15.10	28.51	52.21	44.17	96.38
1984-85	39.62	33.97	73.59	15.71	16.52	32.23	55.33	50.49	105.82
1985-86	45.82	36.73	82.55	22.16	14.91	37.07	67.98	51.64	119.62
1986-87	43.58	39.79	83.37	23.36	17.64	41.00	66.94	57.43	124.37
1987-88	49.95	40.15	90.10	23.39	21.11	44.50	73.34	61.26	134.60
1988-89	55.40	43.79	99.19	25.91	21.96	47.87	81.31	65.75	147.06
1989-90	54.13	45.26	99.39	26.72	21.46	48.18	80.85	66.72	147.57
1990-91	59.02	43.63	102.65	26.07	22.95	49.02	85.09	66.58	151.67
1991-92	59.91	44.89	104.80	26.66	25.18	51.84	86.57	70.07	156.64
1992-93	74.09	43.28	117.37	24.35	24.78	49.13	98.44	68.06	166.50
1993-94	76.02	53.48	129.50	24.81	24.71	49.52	100.83	78.19	179.02
1994-95	83.60	52.18	135.78	29.60	30.51	60.11	113.20	82.69	195.89
1995-96	94.86	57.24	152.10	31.79	31.32	63.11	126.65	88.56	215.21
1996-97	102.57	57.31	159.88	36.64	30.45	67.09	139.21	87.76	226.97
1997-98	117.36	61.64	179.00	38.62	34.04	72.66	155.98	95.68	251.66
1998-99	125.10	54.97	180.07	39.43	32.24	71.67	164.53	87.21	251.74

2.2.2 Cargo Traffic Handled At Various Major Ports

(In Million Tonnes)

Year	Kandla	Mumbai	U.L. Nehru	P gao	O N.Manga- lore	R Cochin	T Tutic- corin	S Chennai	Visakha patnam	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	-	3.01	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	-	4.07	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	10.36	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	10.88	1.37	10.01	98.38
1984-85	15.74	26.94	-	14.30	3.38	4.07	3.77	14.13	11.08	2.14	10.27	105.82
1985-86	16.49	24.31	-	16.12	3.69	5.28	4.22	18.15	15.91	3.33	12.13	119.63
1986-87	16.19	25.08	-	14.92	5.43	6.86	4.12	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	0.70	15.39	7.09	7.82	5.13	23.86	20.37	6.03	14.22	147.06
1989-90	18.92	27.75	2.79	14.17	7.66	7.12	5.08	24.52	21.12	6.18	14.69	147.57
1990-91	19.69	28.90	2.02	15.10	8.02	7.29	5.87	25.05	21.52	6.88	14.95	151.67
1991-92	21.00	26.26	2.79	16.31	8.27	7.48	6.22	25.33	22.76	7.60	16.00	156.64
1992-93	22.91	28.95	3.01	16.31	7.09	7.98	6.70	26.54	25.59	8.33	18.34	166.50
1993-94	24.50	30.51	3.38	16.72	8.63	7.62	6.70	29.46	30.03	10.12	20.54	195.89
1994-95	26.50	30.67	5.01	18.88	8.01	8.63	6.04	30.72	32.92	11.26	21.52	215.21
1995-96	30.34	33.92	6.87	17.01	8.98	11.50	9.29	31.85	34.50	11.58	23.12	226.97
1996-97	33.73	33.44	8.07	17.31	12.45	11.74	9.18	35.53	36.01	13.30	28.16	251.66
1997-98	39.90	32.10	8.90	21.18	15.28	12.32	9.98	35.53	36.01	13.30	28.16	251.66
1998-99	40.64	30.97	11.72	18.02	14.21	12.68	10.15	35.20	35.65	13.11	29.39	251.74

2.2.3 Cargo Traffic (Commodity-Wise) Handled At Major Ports In India (In '000 Tonnes)										
Year	POL (Crude & Products)	Ferti- liser	Fertili- ser Raw Material	Iron Ore	Coal	Food- grains	Others	Total	Of which	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1960-61	12265	683	208	1333	2131	5157	11348	33125	22579	10546
1970-71	18893	1227	1040	19203	675	3193	11348	55579	25557	30022
1980-81	33578	4278	1933	22836	2110	975	14560	80270	46816	33454
1981-82	34154	2951	2142	25114	3148	2376	18095	87980	48391	39589
1982-83	45340	4023	*	22218	4875	2347	14894	93697	51648	42049
1983-84	49743	1893	2342	21952	4164	3417	12866	96377	52205	44172
1984-85	49004	4226	2915	26041	4422	1313	17902	105823	55334	50489
1985-86	54890	4106	2700	28841	7538	1133	20405	119613	67974	51639
1986-87	53070	2387	4075	30609	8551	1402	24272	124366	66940	57426
1987-88	58917	1417	4165	28748	12788	1672	26895	134602	73342	61260
1988-89	63166	1648	4738	32738	15468	3388	25915	147061	81310	65751
1989-90	61968	2921	5193	33186	17616	1493	25908	148285	80856	67429
1990-91	64004	2879	6064	31904	19659	1528	25627	151665	85088	66577
1991-92	67625	3153	6767	32101	22403	1539	23056	156644	86569	70075
1992-93	73959	3595	6318	29827	24488	2795	25515	166497	97922	68575
1993-94	77265	4183	5291	34096	26806	1964	29414	179019	100246	78773
1994-95	80753	4334	6667	34354	30798	1343	37641	195890	113201	82689
1995-96	90923	5727	6628	34562	33790	3852	39726	215208	126648	88560
1996-97	99050	3327	6588	33260	37530	4182	43032	226969	139207	87762
1997-98	105343	4825	7610	39611	42295	3996	47978	251658	155975	95683
1998-99	108231	4754	7812	32820	42869	4713	50539	251738	164530	87208

* Included in Fertilizer.

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

(In '000 Tonnes)

Year	POL (Crude & Products)	Ferti- liser	Fertili- 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	678	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
1997-98	29036	732	1550	1386	6197	38901	35021	3880
1998-99	30468	588	1629	1697	6255	40637	36457	4180

2.2.5 Cargo Traffic (Commodity-Wise) Handled At Mumbai Port
(In '000 Tonnes)

Year	POL (Crude & Products)	Ferti- liser	Fertili- ser Material	Food- grains	Coal	Others	Total	Of which	
								Unloaded	Loaded
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960-61	7311	208	67	2113	20	4630	14349	10720	3629
1970-71	8445	220	288	948	-	4469	14370	10973	3397
1980-81	8998	733	543	87	-	6617	16978	13209	3769
1981-82	9449	548	630	226	-	8543	19396	12794	6602
1982-83	17101	936	...	362	-	4810	23209	11744	11465
1983-84	16650	216	720	376	-	5927	23889	10372	13517
1984-85	16929	339	702	117	-	8849	26936	11365	15571
1985-86	15470	331	721	608	-	7180	24310	11947	12363
1986-87	16313	236	985	497	-	7043	25074	11839	13235
1987-88	19384	174	992	572	-	8446	29568	13570	15998
1988-89	19063	162	1266	860	-	7991	29342	13567	15775
1989-90	18210	141	1082	432	-	7781	27746	13141	14605
1990-91	19670	46	621	625	-	7937	28899	13719	15180
1991-92	19512	37	457	340	-	5915	26261	11506	14755
1992-93	20303	39	928	544	-	7232	28946	15232	13714
1993-94	20820	57	845	763	-	8021	30506	17438	13068
1994-95	18833	70	892	616	-	10262	30673	16162	14511
1995-96	21138	105	735	1209	-	10729	33916	17320	16596
1996-97	19908	79	628	1027	-	11797	33439	18370	15069
1997-98	17682	88	814	1116	-	12397	32097	19308	12789
1998-99	17328	133	781	1148	-	11580	30970	19166	11804

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

(In '000 Tonnes)

Year	POL (Crude & Products)	Fertl- liser	Fertill- ser Raw Material	Food- grains	Iron Ore	Others	Total	Of which	
								Unloaded	Loaded
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1989-90	-	102	132	-	-	406	697	507	190
1990-91	-	516	850	-	-	656	2022	1654	368
1991-92	-	623	820	-	-	1351	2794	2061	733
1992-93	-	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
1997-98	681	881	75	355	657	6246	8895	5373	3522
1998-99	1271	796	93	418	531	8614	11723	7418	4305

2.2.7 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	18095	2819	15276
1996-97	1218	39	214	14635	-	386	820	17312	1951	15361
1997-98	1134	43	225	18701	-	487	592	21182	1978	19204
1998-99	1047	86	155	15101	-	674	957	18020	2560	15460

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

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

('000 Tonnes)

Year	POL (Crude & Products)	Fertl- liser	Fertlil- 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	-	-	6639	927	8884	1883	7001
1996-97	5069	222	163	106	41	5945	929	12453	4479	7974
1997-98	6963	242	203	325	99	6536	914	15282	6098	9184
1998-99	7188	175	215	368	61	5334	865	14206	6929	7277

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

Year	POL (Crude & Products)	Ferti- liser	Fertili- ser Raw Material	Food- grains	Coal	Others	Total	Of which	
								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
1997-98	9613	160	688	164	141	1557	12323	9781	2542
1998-99	9665	72	683	297	157	1807	12681	10251	2430

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

('000 Tonnes)

Year	POL (Crude & Other Products)	Fertiliser	Fertiliser's Raw Material	Food- grains	Coal	Others	Total	Of which	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	
1997-98	459	512	711	146	5578	2566	9974	8414	1560	
1998-99	441	413	849	194	5204	3049	10150	8485	1665	

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

Year	POL (Crude & Liser 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)	
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	3159	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	5545	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	16679	9662	
1994-95	11942	834	403	10	5149	6448	4878	29464	19247	10217	
1995-96	11419	963	374	32	4951	7530	5452	30721	20433	10283	
1996-97	11762	520	343	107	4665	8796	5655	31848	21933	9915	
1997-98	11585	946	428	162	6232	10463	5715	35531	24029	11562	
1998-99	10565	712	441	131	5445	11944	5964	35202	25091	10111	

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

('000 Tonnes)

Year	POL (Crude & Other Products)	Fertiliser	Fertiliser'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
1997-98	12116	1039	1214	300	6050	9934	5361	36014	21826	14188
1998-99	12503	1634	1251	315	5612	9180	5159	35654	22103	13551

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

('000 Tonnes)										
Year	POL (Crude & Products)	Ferti- liser	Fertili- 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)
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	23	87	773	1	1524	3954	935	7297	2880	4417
1992-93	195	142	647	3	1345	4542	731	7606	2428	5178
1993-94	345	192	534	Neg.	1518	4845	893	8327	2581	5746
1994-95	380	125	691	-	1681	5830	1214	10121	3491	6630
1995-96	1066	134	956	20	1691	5909	1483	11259	4200	7059
1996-97	1693	102	699	26	1381	6513	1166	11580	3859	7721
1997-98	1737	116	1066	-	1435	7852	1096	13302	4488	8814
1998-99	2007	26	1127	12	797	8198	941	13108	4507	8601

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

('000 Tonnes)

Year	POL (Crude & Products)	Ferti- liser	Fertili- 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
1997-98	14337	66	636	42	-	7741	5335	28157	19659	8498
1998-99	15748	119	588	133	-	7451	5348	29387	21563	7824

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

('000 Tonnes)

	P O R T S												
Year	: Kandla : Mumbai : J.L. : Mormu- : N.Manga- : Cochin : Tutl- : Chennai : Visakha : Paradip : Calcutta : Total : Nehru : gao : lore : : corin : :patnam : :/Haldia :												
	1	2	3	4	5	6	7	8	9	10	11	12	13
OVERSEAS													
1986-87	8897	13626	-	14222	4885	2636	1069	15193	10625	4194	8018	83365	
1987-88	10314	16349	-	12718	5669	3554	964	16930	10866	4171	8565	90100	
1988-89	11078	16227	-	14865	6546	3639	1742	15789	14883	5052	9370	99191	
1989-90	11704	16455	697	13511	7179	2965	1935	15426	14927	4892	9698	99389	
1990-91	13634	16363	2022	14212	7284	2518	1969	15518	13820	4940	10372	102652	
1991-92	14683	14321	2794	14175	7130	3020	2225	15439	14834	4928	11248	104797	
1992-93	18487	18379	3007	15251	6465	3194	2544	15841	17597	4220	12383	117368	
1993-94	21182	22045	3387	17567	7792	3047	2351	16997	18555	4641	11937	129501	
1994-95	21822	20605	4933	17445	6937	3861	3202	17884	20156	5778	13155	135778	
1995-96	25982	22712	6873	17482	7605	4706	4100	20952	21249	6335	14105	152101	
1996-97	28691	23919	7446	16416	10097	5687	3279	20331	23050	5551	15411	159878	
1997-98	33457	22828	8470	20236	12264	6485	4333	23185	22682	6055	19004	178999	
1998-99	35649	22667	10810	17114	11701	7120	4970	21648	22412	5262	20694	180067	
COASTAL													
1986-87	7297	11446	-	697	546	4247	3061	4582	4410	659	4054	41001	
1987-88	7769	13219	-	614	439	3248	3297	5689	4505	1016	4506	44502	
1988-89	6729	13115	-	524	538	4185	3383	8074	5489	980	4853	47870	
1989-90	7221	11291	-	657	482	4159	3389	8514	6190	1292	4991	48186	
1990-91	6051	12536	-	699	738	4757	3106	9000	5601	1944	4581	49013	
1991-92	6319	11940	-	924	1144	4461	3643	9607	6688	2369	4752	51847	
1992-93	4423	10567	-	1063	623	4784	3671	9490	5168	3386	5954	49129	
1993-94	3318	8461	-	1150	838	4573	4349	9544	7040	3686	6559	49518	
1994-95	4680	10068	75	1436	1068	4770	4839	11580	9873	4343	7380	60112	
1995-96	4357	11204	-	613	1279	6797	5186	9769	11568	4924	7410	63107	
1996-97	5039	9520	623	896	2356	6055	5895	11517	11448	6029	7713	67091	
1997-98	5444	9269	425	946	3018	5838	5641	12346	13332	7247	9153	72659	
1998-99	4986	8303	913	906	2505	5561	5180	13554	13242	7826	8693	71671	

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

('000 Tonnes)

Year	P O R T S												
	Kandla	Mumbai	J.L.	Mormu	N.Manga-	Cochin	Tuti-	Chennai	Visakh	Paradip	Calcutta	Total	
	:	:	Nehru	gao	lore	:	corin	:	patnam	:	/Haldia	:	
1	2	3	4	5	6	7	8	9	10	11	12	13	
TOTAL													
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	7824	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	5666	25046	21522	7297	16000	156644	
1992-93	22910	28946	3007	16314	7998	7978	6215	25331	22765	7606	18337	166497	
1993-94	24500	30506	3387	18717	8630	7620	6700	26541	25595	8327	18496	179019	
1994-95	26502	30673	5008	18881	8005	8631	6041	29464	30029	10121	20535	195890	
1995-96	30339	33916	6873	18095	8884	11503	9286	30721	32817	11259	21515	215208	
1996-97	33730	33439	8069	17312	12453	11742	9174	31848	34498	11580	23124	226969	
1997-98	38901	32097	8895	21182	15282	12323	9974	35531	36014	13302	28157	251658	
1998-99	40637	30970	11723	18020	14206	12681	10150	35202	35654	13108	29387	251738	

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

('000 Tonnes)

	P			O			R			T			S		
Year	:Kandla :Mumbai			:J.L.:Mormu-			:N.Manga-:			:Cochin :			:Tuti-:		
	:Nehru : gao			:lore			:Chennai :Visakha-			:Paradip :Calcutta			:Total		
							:patnam :						:/Haldia :		
1	2	3	4	5	6	7	8	9	10	11	12	13			
UNLOADED															
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	1294	6053	4900	14097	10410	2460	9756	80856			
1990-91	17271	13719	1645	1721	1363	6251	4541	15000	10322	2839	10416	85088			
1991-92	18146	11506	2061	2396	1298	6433	5099	15064	10431	2880	11253	86569			
1992-93	20503	15232	2105	2394	1530	6864	5408	16286	12774	2428	12915	98439			
1993-94	20953	17438	2088	2535	1245	6351	5606	16879	12930	2581	12217	100823			
1994-95	22651	16162	3290	2732	1640	7193	6876	19247	15837	3491	14082	113201			
1995-96	25873	17320	4314	2819	1883	9125	7955	20433	17611	4200	15115	126648			
1996-97	29267	18370	4808	1951	4479	9487	7611	21933	21214	3859	16228	139207			
1997-98	35021	19308	5373	1978	6098	9781	8414	24029	21826	4488	19659	155975			
1998-99	36457	19166	7416	2560	6929	10251	8485	25091	22103	4507	21563	164530			
LOADED															
1986-87	1340	13235	-	13626	4234	1283	162	8974	7840	2652	3680	57426			
1987-88	1602	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	6367	1071	424	9843	10707	3724	4933	66719			
1990-91	2414	15180	377	13190	6659	1024	534	9518	9099	4045	4537	66577			
1991-92	2854	14755	733	12703	6976	1048	769	9982	11091	4417	4747	70075			
1992-93	2407	13714	902	13920	5558	1114	807	9045	9991	5178	5422	68058			
1993-94	3547	13068	1299	16182	7385	1269	1094	9662	12665	5746	6279	78196			
1994-95	3851	14511	1718	16149	6365	1438	1165	10217	14192	6630	6453	82689			
1995-96	4466	16596	2559	15276	7001	2378	1331	10288	15206	7059	6400	88560			
1996-97	4463	15069	3261	15361	7974	2255	1563	9915	13284	7721	6896	87762			
1997-98	3880	12762	3522	19204	9184	2542	1560	11502	14188	8814	8498	95683			
1998-99	4180	11804	4305	15460	7277	2430	1665	10111	13551	8601	7824	87208			

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

('000 Tonnes)

Year	Kandla	Mumbai	J.L. Nehru	Mormu	N.Manga-lore	Cochin	Puthi-corin	Chennai	Visakha	Paradip	Calcutta	Total	
	:	:	:	gao	:	:	:	:	patnam	:	/Haldia	:	
	1	2	3	4	5	6	7	8	9	10	11	12	13
TOTAL													
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	26899	2022	14911	8022	7275	5075	24518	19421	6884	14953	151665	
1991-92	21002	26261	2794	15099	8274	7481	5868	25046	21522	7297	16000	156644	
1992-93	22910	28946	3007	16314	7088	7978	6215	25331	22765	7606	18337	166497	
1993-94	24500	30506	3387	18717	8630	7620	6700	26541	25595	8327	18496	179019	
1994-95	26502	30673	5008	18881	8005	8631	8041	29464	30029	10121	20535	195890	
1995-96	30339	33916	6873	18095	8884	11503	9286	30721	32817	11259	21515	215208	
1996-97	33730	33439	8069	17312	12453	11742	9174	31848	34498	11580	23124	226969	
1997-98	38901	32097	8895	21182	15282	12323	9974	35531	36014	13302	28157	251658	
1998-99	40637	30970	11723	18020	14206	12681	10150	35202	35654	13108	29387	251738	

2.2.17 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)			
J. L. NEHRU												
1989-90	507	190	697	-	-	-	507	190	697			
1990-91	1654	368	2022	-	-	-	1654	368	2022			
1991-92	2061	733	2794	-	-	-	2061	733	2794			
1992-93	2105	902	3007	-	-	-	2105	902	3007			
1993-94	2088	1299	3387	-	-	-	2088	1299	3387			
1994-95	3215	1718	4933	75	-	75	3290	1718	5008			
1995-96	4314	2559	6873	-	-	-	4314	2559	6873			
1996-97	4185	3261	7446	623	-	623	4808	3261	8069			
1997-98	5052	3418	8470	321	104	425	5373	3522	8895			
1998-99	6553	4257	10810	865	48	913	7418	4305	11723			
MORMUGAO												
1975-76	216	12093	12309	459	-	459	675	12093	12768			
1980-81	621	12921	13542	222	-	222	843	12921	13764			
1985-86	1163	14494	15657	458	-	458	1621	14494	16115			
1988-89	1279	13586	14865	504	20	524	1783	13606	15389			
1989-90	847	12664	13511	636	21	657	1483	12685	14168			
1990-91	1058	13154	14212	663	36	699	1721	13190	14911			
1991-92	1660	12515	14175	736	188	924	2396	12703	15099			
1992-93	1720	13531	15251	674	389	1063	2394	13920	16314			
1993-94	1910	15657	17567	625	525	1150	2535	16182	18717			
1994-95	2024	15421	17445	708	728	1436	2732	16149	18881			
1995-96	2336	15146	17482	483	130	613	2819	15276	18095			
1996-97	1156	15260	16416	795	101	896	1951	15361	17312			
1997-98	1122	19114	20236	856	90	946	1978	19204	21182			
1998-99	1779	15335	17114	781	125	906	2560	15460	18020			

2.2.17 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						
1975-76	151	125	276	55	8	63
1980-81	332	319	651	307	5	312
1985-86	603	2622	3225	393	68	461
1988-89	1054	5492	6546	513	25	538
1989-90	812	6367	7179	482	0	482
1990-91	799	6485	7284	564	174	738
1991-92	660	6470	7130	638	506	1144
1992-93	935	5530	6465	595	28	623
1993-94	637	7155	7792	608	230	838
1994-95	958	5979	6937	682	386	1068
1995-96	1077	6528	7605	806	473	1279
1996-97	4202	5895	10097	277	2079	2356
1997-98	5823	6441	12264	275	2743	3018
1998-99	6581	5120	11701	348	2157	2505
COCHIN						
1975-76	2913	334	3247	408	603	1011
1980-81	3517	290	3807	595	831	1426
1985-86	1803	498	2301	2754	222	2976
1988-89	2959	600	3639	3582	603	4185
1989-90	2483	482	2965	3570	589	4159
1990-91	2138	380	2518	4113	644	4757
1991-92	2566	454	3020	3867	594	4461
1992-93	2601	593	3194	4263	521	4784
1993-94	2322	725	3047	4029	544	4573
1994-95	2947	914	3861	4246	524	4770
1995-96	3522	1184	4706	5603	1194	6797
1996-97	4497	1190	5687	4990	1065	6055
1997-98	5447	1038	6485	4334	1504	5838
1998-99	6168	952	7120	4083	1476	5561
					10251	2430
						12681

2.2.17 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)

('000 tonnes)

195-

2.2.18 Overseas Traffic (Principal Commodities) Handled At Major Ports

PORT/ YEAR	('000 tonnes)									
	1996-97	1997-78	1998-99							
	Unloaded : Loaded	Unloaded : Loaded	Unloaded : Loaded	Total	Total	Total	Total	Total	Total	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
KANDLA	24360	4331	28691	29755	3702	33457	31626	4023	35649	
POL- Crude	8524	-	8524	10330	-	10330	13155	-	13155	
POL- Products	11654	27	11681	13488	-	13488	12519	-	12519	
Fertilizer	366	-	366	732	-	732	588	-	588	
Fertilizer Raw										
Material (Dry)	651	-	651	660	-	660	594	-	594	
Fertilizer Raw										
Material (Liquid)	684	-	684	890	-	890	1035	-	1035	
Foodgrains	42	1909	1951	287	1099	1386	108	1589	1697	
Iron & Steel	205	44	249	386	54	440	165	54	219	
Iron Scrap	395	-	395	174	-	174	129	-	129	
Sugar	-	64	64	33	45	78	47	-	47	
Veg. Oil &										
Animal fats	194	122	316	148	134	282	322	144	466	
Salt	-	118	118	-	90	90	-	151	151	
Other Commodities	1645	2047	3692	2627	2280	4907	2964	2085	5049	

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

PORT/ YEAR	('000 tonnes)									
	1996-97	1997-98	1998-99							
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
MUMBAI	17790	6129	23919	17618	5210	22828	17664	5003	22667	
POL Crude	5877	-	5877	5595	-	5595	5139	120	5259	
POL- Products	3807	740	4547	2617	235	2852	3663	177	3840	
Fertilizer	79	-	79	88	-	88	133	-	133	
Fertilizer Raw	628	-	628	814	-	814	781	-	781	
Material (Dry)										
Foodgrains	582	445	1027	877	239	1116	841	307	1148	
Iron & Steel	1466	241	1707	1767	340	2107	1218	298	1516	
Veg. Oil & animal fats	725	85	810	611	76	687	1330	68	1398	
Iron Scrap	183	-	183	129	-	129	91	-	91	
Sugar	4	127	131	116	7	123	94	4	98	
Other Commodities	4439	4491	8930	5004	4313	9317	4374	4029	8403	

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

PORT/ YEAR	('000 tonnes)									
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
JAMSHEDPUR										
POL-Crude	-	-	-	-	514	-	514	-	-	-
POL-Product	252	252	-	252	167	-	167	1139	-	1139
Fertiliser	984	984	-	984	881	-	881	796	-	796
Fert. Raw										
Material (Dry)	302	-	-	302	-	-	-	93	-	93
Fert.Raw										
Material (Liquid)	61	61	-	61	75	-	75	-	-	-
Iron Ore	199	137	137	336	261	80	341	-	-	-
Foodgrains	232	148	148	380	355	-	355	418	-	418
Other Commodities	2155	2976	2976	5131	2799	3338	6137	4107	4257	8364
MORMUGAO										
POL-Product	1156	15260	15260	16416	1122	19114	20236	1779	15335	17114
Fertilizer	463	-	-	463	316	-	316	314	-	314
Fertilizer Raw	39	-	-	39	43	-	43	86	-	86
Material (Liquid)	214	214	-	214	225	-	225	155	-	155
Coal/Coke	359	25	25	384	442	41	483	626	47	673
Iron Ore/Pellets	-	14550	14550	14550	-	18625	18625	69	14910	14979
Other Ore	-	204	204	204	-	220	220	-	188	188
Other Commodities	81	481	481	562	96	228	324	529	190	719

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

PORT/ YEAR	('000 tonnes)									
	1	1996-97		1	1997-98		1	1998-99		
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
NEW MANGALORE	4202	5895	10097	5823	6441	12264	6581	5120	11701	
POL-Crude	2927	-	2927	3826	-	3826	4102	-	4102	
POL-Products	267	21	288	483	93	576	1115	-	1115	
Fertilizer	222	-	222	242	-	242	175	-	175	
Fertilizer Raw										
Material (Dry)	29	-	29	37	-	37	11	-	11	
Fertilizer Raw										
Material (Liquid)	134	-	134	166	-	166	204	-	204	
Foodgrains	106	-	106	325	-	325	368	-	368	
Iron scrap	22	-	22	-	-	-	-	-	-	
Coal	19	-	19	99	-	99	61	-	61	
Iron Ore &										
Pellets	-	5484	5484	-	6107	6107	-	4902	4902	
Other Commodities	476	390	866	645	241	886	545	218	763	

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

PORT/ YEAR	('000 tonnes)							
	1996-97	1997-98	1998-99					
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	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)
COCHIN	4497	1190	5687	5447	1038	6485	6168	952
POL- Crude	2532	-	2532	3280	-	3280	3990	-
POL- Products	294	388	682	300	283	583	189	155
Fertilizer	194	-	194	160	-	160	72	-
Fertilizer Raw-								
Material (Dry)	344	-	344	282	-	282	379	-
Fertilizer Raw-								
Material (Liq.)	442	-	442	406	-	406	304	-
Foodgrains	27	5	32	164	-	164	289	8
Iron & Steel	58	4	62	43	3	46	63	4
Tea	-	76	76	-	96	96	3	101
Coffee	-	122	122	-	105	105	-	127
Coal	119	-	119	141	-	141	157	-
Cashewnuts/Cashew								
Kernels	58	46	104	91	48	139	153	-
Other Commodities	429	549	978	580	503	1083	569	557
								1126

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

PORT/ YEAR	('000 tonnes)									
	1996-97	1997-98	1998-99							
	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	: Unloaded	: Loaded	: Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
TUTICORIN	1734	1545	3279	2791	1542	4333	3341	1629	4970	
POL Product	48	-	48	65	-	65	57	-	57	
Fertilizer	259	-	259	512	-	512	413	-	413	
Fertilizer Raw										
Material (Dry)	256	-	256	221	-	221	334	-	334	
Fertilizer Raw										
Material (Liquid)	108	-	108	490	-	490	515	-	515	
Iron Scrap	49	-	49	36	-	36	-	-	-	
Coal	72	-	72	391	-	391	462	-	462	
Tea/Coffee	-	20	20	-	11	11	-	-	-	
Salt	-	109	109	-	116	116	-	134	134	
Foodgrains	84	47	131	146	-	146	192	2	194	
Other Commodities	858	1369	2227	930	1415	2345	1368	1493	2861	

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

PORT/ YEAR	('000 tonnes)									
	1996-97		1997-98		1998-99					
	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
CHENNAI	11603	8728	20331	12730	10455	23185	12431	9217	21648	
POL- Crude	5908	510	6418	6758	675	7433	5823	778	6601	
POL- Products	42	505	547	25	514	539	23	155	178	
Fertilizer	520	-	520	946	-	946	712	-	712	
Fertilizer Raw										
Material (Dry)	343	-	343	428	-	428	441	-	441	
Foodgrains	27	73	100	82	72	154	98	28	126	
Iron & Steel	332	97	429	267	118	385	237	105	342	
Veg. Oil & animal fats	330	-	330	377	-	377	534	-	534	
Iron Ore	-	4665	4665	-	6232	6232	-	5445	5445	
Chemicals	431	100	531	450	117	567	519	95	614	
Iron Scrap	450	-	450	377	21	398	474	8	482	
Coal	1911	-	1911	1483	-	1483	2010	-	2010	
Coke	332	-	332	385	-	385	340	-	340	
Other Commodities	977	2778	3755	1152	2706	3858	1220	2603	3823	

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

('000 tonnes)

PORT/ YEAR	1996-97	1997-98	1998-99	
	Unloaded	:Loaded	:Total	:Unloaded
(1)	(2)	(3)	(4)	(5)
				(6)
				(7)
				(8)
				(9)
				(10)
VISAKHAPATNAM	15807	7243	23050	15885
				6797
				22682
				16033
				6379
				22412
POL- Crude	4479	-	4479	3226
POL- Products	3186	411	3597	3139
Fertilizers	489	-	489	1039
Fertilizer Raw				
Material (Dry)	789	-	789	947
Fertilizer Raw				
Material (Liquid)	345	-	345	267
Foodgrains	206	199	405	222
Iron & Steel	24	1314	1338	-
Coal	5196	-	5196	5523
Coke	151	-	151	433
Iron Ore	-	3988	3988	-
Chemicals	99	-	99	97
Veg. Oil & animal				
fats	247	-	247	159
Other Commodities	596	1331	1927	833
				2007
				2840
				159
				102
				941
				1821
				2762

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

PORT/ YEAR	('000 tonnes)									
	1996-97		1997-98		1998-99					
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
PARADIP	3733	1818	5551	4379	1676	6055	3939	1343	5282	
POL-Product	932	-	932	987	-	987	680	-	680	
Fertilizer	102	-	102	116	-	116	26	-	26	
Fertilizer Raw	172	-	172	377	-	377	395	-	395	
Material (Dry)	527	-	527	689	-	689	732	-	732	
Fertilizer Raw	-	26	26	-	-	-	-	12	12	
Material (Liquid)	-	-	-	-	19	19	-	18	18	
Foodgrains	1507	-	1507	1507	-	1507	1575	-	1575	
Iron & Steel	-	-	-	265	-	265	253	-	253	
Coal	-	-	-	-	-	-	-	-	-	
Coke	-	1119	1119	-	1018	1018	-	668	668	
Iron Ore	493	673	1166	438	639	1077	278	645	923	
Other Commodities	-	-	-	-	-	-	-	-	-	

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

PORT/ YEAR	('000 tonnes)									
	1996-97	1997-98	1998-99							
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
CALCUTTA	1773	1532	3305	4138	1471	5609	5826	979	6805	
POL- Crude	-	-	-	1650	-	1650	3079	-	3079	
POL- Products	58	-	58	82	-	82	172	-	172	
Fertilizer	42	-	42	45	-	45	1	-	1	
Fertilizer Raw	-	-	-	-	-	-	-	-	-	
Material (Dry)	50	-	50	65	-	65	46	-	46	
Foodgrains	-	8	8	8	25	33	30	23	53	
Iron & Steel	191	303	494	171	264	435	185	98	283	
Veg. Oil & animal fats	-	-	-	-	-	-	-	-	-	
Chemicals	176	-	176	248	5	253	402	-	402	
Tea	101	7	108	129	-	129	112	-	112	
Coal/Coke	-	73	73	-	57	57	-	38	38	
Sugar	-	-	-	44	-	44	38	-	38	
Jute & its products	-	226	226	109	-	109	195	-	195	
Other Commodities	1155	915	2070	-	270	270	-	258	258	
				1587	850	2437	1566	562	2128	

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

PORT/ YEAR	('000 tonnes)									
	1996-97		1997-98		1998-99		1998-99		1998-99	
	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
HAJDIA	11732	374	12106	12619	776	13395	13161	728	13889	
POL- Crude	3713	-	3713	5201	-	5201	5296	-	5296	
POL- Products	3421	-	3421	2632	65	2697	2908	-	2908	
Fertilizer	31	-	31	21	-	21	118	-	118	
Fertilizer Raw										
Material (Dry)	240	-	240	281	-	281	296	-	296	
Fertilizer Raw	269	-	269	290	-	290	246	-	246	
Material (Liquid)										
Foodgrains	-	9	9	-	9	9	24	56	80	
Iron & Steel	3	189	192	43	341	384	1	292	293	
Iron scrap (pig	8	-	8	-	90	90	-	44	44	
Iron)										
Coking Coal & Coke	3498	21	3519	3547	14	3561	3385	8	3393	
Tea	-	37	37	-	41	41	-	40	40	
Other Commodities	549	118	667	604	216	820	887	288	1175	

('000 tonnes)

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2.2.19 Coastal Traffic (Principal Commodities) Handled At Major Ports

PORT/ COMMODITY	('000 tonnes)									
	1996-97	1997-98	1998-99							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	:Unloaded :Loaded :Total			:Unloaded :Loaded :Total			:Unloaded :Loaded :Total			
KANDLA	4907	132	5039	5266	178	5444	4831	157	4988	
POL-Crude	3893	-	3893	3698	-	3698	3080	-	3080	
POL-Products	925	38	963	1520	-	1520	1714	-	1714	
Other Commodities	89	94	183	48	178	226	37	157	194	
MUMBAI	580	8940	9520	1690	7579	9269	1502	6801	8303	
POL-Crude	50	8115	8165	-	6723	6723	808	5754	6562	
POL-Products	498	821	1319	1658	854	2512	657	1010	1667	
Cement	14	-	14	8	-	8	9	-	9	
Salt	14	-	14	23	-	23	16	-	16	
Other commodities	4	4	8	1	2	3	12	37	49	
J. L. NEHRU	623	-	623	321	104	425	865	48	913	
POL-Products	-	-	-	-	-	-	118	14	132	
Iron Ore	350	-	350	316	-	316	507	24	531	
Other Commodities	273	-	273	5	104	109	240	10	250	

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

('000 tonnes)

PORT/ COMMODITY	1996-97	1997-98	1998-99	
	Unloaded : Loaded : Total	Unloaded : Loaded : Total	Unloaded : Loaded : Total	Total
(1)	(2)	(3)	(4)	(5)
(6)	(7)	(8)	(9)	(10)
MORMUGAO	795	101	896	856
			90	946
			781	125
				906
POL- Products	755	-	755	818
Iron Ore	-	85	85	-
Coal/Coke	-	2	2	2
Other Commodities	40	14	54	36
				48
				48
NEW MANGALORE	277	2079	2356	275
				2743
				3018
				348
				2157
				2505
POL-Crude	-	-	-	87
POL- Products	236	1618	1854	160
Iron Ore/Pallets	-	461	461	-
Other commodities	41	-	41	28
				28
COCHIN	4990	1065	6055	4334
				1504
				5838
				4083
				1478
				5561
POL- Crude	4787	-	4787	4131
POL- Products	179	1038	1217	128
Other commodities	24	27	51	75
				1491
				13
				4131
				1619
				88
				220
				3765
				98
				1468
				10
				3765
				1566
				230

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

PORT/ COMMODITY	('000 tonnes)									
	1996-97		1997-98		1998-99					
	Unloaded : Loaded	Total	Unloaded	: Loaded	Total	Unloaded	: Loaded	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
TUTICORIN	5877	18	5895	5623	18	5641	5144	36	5180	
POL- Products	418	-	418	394	-	394	384	-	384	
Coal	5421	-	5421	5187	-	5187	4742	-	4742	
Other commodities	38	18	56	42	18	60	18	36	54	
CHENNAI	10330	1187	11517	11299	1047	12346	12660	894	13554	
POL- Crude	3692	-	3692	2642	-	2642	3002	-	3002	
POL- Products	5	1100	1105	5	966	971	20	764	784	
Veg. Oil & Animal fats	1	-	1	1	-	1	-	-	-	
Coal	6553	-	6553	8595	-	8595	9594	-	9594	
Foodgrains	-	7	7	-	8	8	-	5	5	
Other commodities	79	80	159	56	73	129	44	125	169	

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

('000 tonnes)

PORT/ COMMODITY	1996-97	1997-98	1998-99
	(1)	(2)	(3)
	(4)	(5)	(6)
	(7)	(8)	(9)
	(10)	(11)	(12)
	(13)	(14)	(15)
	(16)	(17)	(18)
	(19)	(20)	(21)
	(22)	(23)	(24)
	(25)	(26)	(27)
	(28)	(29)	(30)
	(31)	(32)	(33)
	(34)	(35)	(36)
	(37)	(38)	(39)
	(40)	(41)	(42)
	(43)	(44)	(45)
	(46)	(47)	(48)
	(49)	(50)	(51)
	(52)	(53)	(54)
	(55)	(56)	(57)
	(58)	(59)	(60)
	(61)	(62)	(63)
	(64)	(65)	(66)
	(67)	(68)	(69)
	(70)	(71)	(72)
	(73)	(74)	(75)
	(76)	(77)	(78)
	(79)	(80)	(81)
	(82)	(83)	(84)
	(85)	(86)	(87)
	(88)	(89)	(90)
	(91)	(92)	(93)
	(94)	(95)	(96)
	(97)	(98)	(99)
	(100)	(101)	(102)
	(103)	(104)	(105)
	(106)	(107)	(108)
	(109)	(110)	(111)
	(112)	(113)	(114)
	(115)	(116)	(117)
	(118)	(119)	(120)
	(121)	(122)	(123)
	(124)	(125)	(126)
	(127)	(128)	(129)
	(130)	(131)	(132)
	(133)	(134)	(135)
	(136)	(137)	(138)
	(139)	(140)	(141)
	(142)	(143)	(144)
	(145)	(146)	(147)
	(148)	(149)	(150)
	(151)	(152)	(153)
	(154)	(155)	(156)
	(157)	(158)	(159)
	(160)	(161)	(162)
	(163)	(164)	(165)
	(166)	(167)	(168)
	(169)	(170)	(171)
	(172)	(173)	(174)
	(175)	(176)	(177)
	(178)	(179)	(180)
	(181)	(182)	(183)
	(184)	(185)	(186)
	(187)	(188)	(189)
	(190)	(191)	(192)
	(193)	(194)	(195)
	(196)	(197)	(198)
	(199)	(200)	(201)
	(202)	(203)	(204)
	(205)	(206)	(207)
	(208)	(209)	(210)
	(211)	(212)	(213)
	(214)	(215)	(216)
	(217)	(218)	(219)
	(220)	(221)	(222)
	(223)	(224)	(225)
	(226)	(227)	(228)
	(229)	(230)	(231)
	(232)	(233)	(234)
	(235)	(236)	(237)
	(238)	(239)	(240)
	(241)	(242)	(243)
	(244)	(245)	(246)
	(247)	(248)	(249)
	(250)	(251)	(252)
	(253)	(254)	(255)
	(256)	(257)	(258)
	(259)	(260)	(261)
	(262)	(263)	(264)
	(265)	(266)	(267)
	(268)	(269)	(270)
	(271)	(272)	(273)
	(274)	(275)	(276)
	(277)	(278)	(279)
	(280)	(281)	(282)
	(283)	(284)	(285)
	(286)	(287)	(288)
	(289)	(290)	(291)
	(292)	(293)	(294)
	(295)	(296)	(297)
	(298)	(299)	(300)
	(301)	(302)	(303)
	(304)	(305)	(306)
	(307)	(308)	(309)
	(310)	(311)	(312)
	(313)	(314)	(315)
	(316)	(317)	(318)
	(319)	(320)	(321)
	(322)	(323)	(324)
	(325)	(326)	(327)
	(328)	(329)	(330)
	(331)	(332)	(333)
	(334)	(335)	(336)
	(337)	(338)	(339)
	(340)	(341)	(342)
	(343)	(344)	(345)
	(346)	(347)	(348)
	(349)	(350)	(351)
	(352)	(353)	(354)
	(355)	(356)	(357)
	(358)	(359)	(360)
	(361)	(362)	(363)
	(364)	(365)	(366)
	(367)	(368)	(369)
	(370)	(371)	(372)
	(373)	(374)	(375)
	(376)	(377)	(378)
	(379)	(380)	(381)
	(382)	(383)	(384)
	(385)	(386)	(387)
	(388)	(389)	(390)
	(391)	(392)	(393)
	(394)	(395)	(396)
	(397)	(398)	(399)
	(400)	(401)	(402)
	(403)	(404)	(405)
	(406)	(407)	(408)
	(409)	(410)	(411)
	(412)	(413)	(414)
	(415)	(416)	(417)
	(418)	(419)	(420)
	(421)	(422)	(423)
	(424)	(425)	(426)
	(427)	(428)	(429)
	(430)	(431)	(432)
	(433)	(434)	(435)
	(436)	(437)	(438)
	(439)	(440)	(441)
	(442)	(443)	(444)
	(445)	(446)	(447)
	(448)	(449)	(450)
	(451)	(452)	(453)
	(454)	(455)	(456)
	(457)	(458)	(459)
	(460)	(461)	(462)
	(463)	(464)	(465)
	(466)	(467)	(468)
	(469)	(470)	(471)
	(472)	(473)	(474)
	(475)	(476)	(477)
	(478)	(479)	(480)
	(481)	(482)	(483)
	(484)	(485)	(486)
	(487)	(488)	(489)
	(490)	(491)	(492)
	(493)	(494)	(495)
	(496)	(497)	(498)
	(499)	(500)	(501)
	(502)	(503)	(504)
	(505)	(506)	(507)
	(508)	(509)	(510)
	(511)	(512)	(513)
	(514)	(515)	(516)
	(517)	(518)	(519)
	(520)	(521)	(522)
	(523)	(524)	(525)
	(526)	(527)	(528)
	(529)	(530)	(531)
	(532)	(533)	(534)
	(535)	(536)	(537)
	(538)	(539)	(540)
	(541)	(542)	(543)
	(544)	(545)	(546)
	(547)	(548)	(549)
	(550)	(551)	(552)
	(553)	(554)	(555)
	(556)	(557)	(558)
	(559)	(560)	(561)
	(562)	(563)	(564)
	(565)	(566)	(567)
	(568)	(569)	(570)
	(571)	(572)	(573)
	(574)	(575)	(576)
	(577)	(578)	(579)
	(580)	(581)	(582)
	(583)	(584)	(585)
	(586)	(587)	(588)
	(589)	(590)	(591)
	(592)	(593)	(594)
	(595)	(596)	(597)
	(598)	(599)	(600)
	(601)	(602)	(603)
	(604)	(605)	(606)
	(607)	(608)	(609)
	(610)	(611)	(612)
	(613)	(614)	(615)
	(616)	(617)	(618)
	(619)	(620)	(621)
	(622)	(623)	(624)
	(625)	(626)	(627)
	(628)	(629)	(630)
	(631)	(632)	(633)
	(634)	(635)	(636)
	(637)	(638)	(639)
	(640)	(641)	(642)
	(643)	(644)	(645)
	(646)	(647)	(648)
	(649)	(650)	(651)
	(652)	(653)	(654)
	(655)	(656)	(657)
	(658)	(659)	(660)
	(661)	(662)	(663)
	(664)	(665)	(666)
	(667)	(668)	(669)
	(670)	(671)	(672)
	(673)	(674)	(675)
	(676)	(677)	(678)
	(679)	(680)	(681)
	(682)	(683)	(684)
	(685)	(686)	(687)
	(688)	(689)	(690)
	(691)	(692)	(693)
	(694)	(695)	(696)
	(697)	(698)	(699)
	(700)	(701)	(702)
	(703)	(704)	(705)
	(706)	(707)	(708)
	(709)	(710)	(711)
	(712)	(713)	(714)
	(715)	(716)	(717)
	(718)	(719)	(720)
	(721)	(722)	(723)
	(724)	(725)	(726)
	(727)	(728)	(729)
	(730)	(731)	(732)
	(733)	(734)	(735)
	(736)	(737)	(738)
	(739)	(740)	(741)
	(742)	(743)	(744)
	(745)	(746)	(747)
	(748)	(749)	(750)
	(751)	(752)	(753)
	(754)	(755)	(756)
	(757)	(758)	(759)
	(760)	(761)	(762)
	(763)	(764)	(765)
	(766)	(767)	(768)
	(769)	(770)	(771)
	(772)	(773)	(774)
	(775)	(776)	(777)
	(778)	(779)	(780)
	(781)	(782)	(783)
	(784)	(785)	(786)
	(787)	(788)	(789)
	(790)	(791)	(792)
	(793)	(794)	(795)
	(796)	(797)	(798)
	(799)	(800)	(801)
	(802)	(803)	(804)
	(805)	(806)	(807)
	(808)	(809)	(810)
	(811)	(812)	(813)
	(814)	(815)	(816)
	(817)	(818)	(819)
	(820)	(821)	(822)
	(823)	(824)	(825)
	(826)	(827)	(828)
	(829)	(830)	(831)
	(832)	(833)	(834)
	(835)	(836)	(837)
	(838)	(839)	(840)
	(841)	(842)	(843)
	(844)	(845)	(846)
	(847)	(848)	(849)
	(850)	(851)	(852)
	(853)	(854)	(855)
	(856)	(857)	(858)
	(859)	(860)	(861)
	(862)	(863)	(864)
	(865)	(866)	(867)
	(868)	(869)	(870)
	(871)	(872)	(873)
	(874)	(875)	(876)
	(877)	(878)	(879)
	(880)	(881)	(882)
	(883)	(884)	(885)
	(886)	(887)	(888)
	(889)	(890)	(891)
	(892)	(893)	(894)
	(895)	(896)	(897)
	(898)	(899)	(900)
	(901)	(902)	(903)
	(904)	(905)	(906)
	(907)	(908)	(909)
	(910)	(911)	(912)
	(913)	(914)	(915)
	(916)	(917)	(918)
	(919)	(920)	(921)
	(922)	(923)	(924)
	(925)	(926)	(927)
	(928)	(929)	(930)
	(931)	(932)	(933)
	(934)	(935)	(936)
	(937)	(938)	(939)
	(940)	(941)	(942)
	(943)	(944)	(945)
	(946)	(947)	(948)
	(949)	(950)	(951)
	(952)	(953)	(954)
	(955)	(956)	(957)
	(958)	(959)	(960)
	(961)	(962)	(963)
	(964)	(965)	(966)
	(967)	(968)	(969)
	(970)	(971)	(972)
	(973)	(974)	(975)
	(976)	(977)	(978)
	(979)	(980)	(981)
	(982)	(983)	(984)
	(985)	(986)	(987)
	(988)	(989)	(990)
	(991)	(992)	(993)
	(994)	(995)	(996)
	(997)	(998)	(999)
	(1000)	(1001)	(1002)
	(1003)	(1004)	(1005)
	(1006)	(1007)	(1008)
	(1009)	(1010)	(1011)
	(1012)	(1013)	(1014)
	(1015)	(1016)	(1017)
	(1018)	(1019)	(1020)
	(1021)	(1022)	(1023)
	(1024)	(1025)	(1026)
	(1027)	(1028)	(1029)
	(1030)	(1031)	(1032)
	(1033)	(1034)	(1035)
	(1036)	(1037)	(1038)
	(1039)	(1040)	(1041)
	(1042)	(1043)	(1044)
	(1045)	(1046)	(1047)
	(1048)	(1049)	(1050)
	(1051)	(1052)	(1053)
	(1054)	(1055)	(1056)
	(1057)	(1058)	(1059)
	(1060)	(1061)	(1062)
	(1063)	(1064)	(1065)
	(1066)	(1067)	(1068)
	(1069)	(1070)	(1071)
	(1072)	(1073)	(1074)
	(1075)	(1076)	(1077)
	(1078		

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

PORT/ COMMODITY	('000 tonnes)									
	1996-97		1997-98		1998-99					
	Unloaded : Loaded	Total	Unloaded : Loaded	Total	Unloaded : Loaded	Total	Unloaded : Loaded	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
HALDIA	261	4734	4995	756	6054	6810	439	5896	6335	
POL- Crude	-	-	-	-	-	-	-	-	-	
POL- Products	255	1104	1359	756	1918	2674	416	1876	2292	
Coal	-	3628	3628	-	4136	4136	-	4020	4020	
Other commodities	6	2	8	-	-	-	23	-	23	
ALL MAJOR PORTS	36635	30456	67091	38616	34043	72659	39428	32243	71671	
POL- Crude	16952	8115	25067	13826	6723	20549	15048	5754	20802	
POL- Products	6411	6586	12997	9770	8354	18124	8041	8124	16165	
Foodgrains	-	7	7	-	8	8	-	5	5	
Coal	11974	12346	24320	13784	14196	27980	14336	14224	28560	
Iron & Steel	-	-	-	7	1	8	8	-	8	
Iron Ore	557	2561	3118	698	2850	3548	837	2197	3034	
Other commodities	741	841	1582	531	1911	2442	1158	1939	3097	

2.2.20 Overseas Traffic (Imports - 1998-99) By Country of Origin (Portwise-Commoditywise)

(In '000 Tonnes)

Country of Origin/ Commodities	Kandla	Mumbai	J. L. Nehru	Morm- ugao	N. Man- galore	Cochin	Tutic- corin	Chennai	Vishakha- patnam	Paradip	Calcutta	Haldia	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
ALL COMMODITIES	31626	17664	6553	1779	6581	6168	3341	12431	16033	3939	5826	13161	125102*
U.A.B.	15	966		131	470		483		1141	410			3616
Kuwait	9379	315		85	680				2139	111			12709
S. Arabia	1691	4545		53	860				373	15			7537
Iran	86	480		235	1246				161				2208
Iraq					79				149				228
Qatar	91	29			33				28				181
Russia	156	361		56	22				464	49			1232
U.S.A.	1031	381		36	7	47			845	62	330	982	3983
Behrain	860	795		214	73			206	142	26			2110
Jordan	146	106		86	21		610		327				1296
Senegal	453								263	69			785
Korea	189	385			3		13		89				679
Netherland Holland	183	116		2	5		12		742				1060
Italy	6	62			3				5				76
Singapore	508	215		8	35		93		1914	208			2981
Malaysia	628	532			213		170		623	77			2243
France	21	138			8		1					4	172
Canada	9	369			8	30	9	83	64	206			778
Japan	123	356		104	7	19	6	375	131	132	98		1351
Brazil	12	134											146
Germany	133	215		2			25	125	76		7		635
U.K.	168	601		1	5	15	5		9		189		989
Australia/N. Zealand	368	154		129	369	278	474		4737	1144	97	3125	10875
Other European Countries	49	138		1	5	38	36	366	70	21	98	18	840
Other Asian Countries	14401	1276		586	644	3952	740	3280	1049	448	4670	7241	38287
Other African Countries	887	636		50	1613	1610	212	698	184		30	56	5976
Others	33	4359			135	168	272	7298	308	961	307	1735	15576

* Total do not tally vertically due to non availability of country wise break up of total overseas for J. L. Nehru Port.

Break up not available

2.2.20 Overseas Traffic (Imports - 1998-99) By Country of Origin (Portwise-Commoditywise) (Contd.)

		(In '000 Tonnes)												
Country of Origin/ Commodities	1	2												
		Kandla	Mumbai	J.L. Nehru	Mormu	N.Man- galore	Cochin	Tuti- corin	Chennai	Visakha- patnam	Paradip	Calcutta	Haldia	Total
		2	3	4	5	6	7	8	9	10	11	12	13	14
POL CRUDE & PRODUCTS		25674	8802	1139	314	5217	4179	57	5846	6516	680	3251	8204	69879*
U.A.E.		-	747	-	65	415	-	-	-	721	161	-	-	2149
Kuwait	9289	310	-	-	43	673	-	40	-	2028	111	-	-	12454
S.Arabia	1691	4385	-	-	52	824	-	-	-	216	15	-	-	7183
Iran	-	107	-	-	3	1169	-	-	-	-	-	-	-	1279
Iraq	-	-	-	-	-	79	-	-	-	139	-	-	-	218
Qatar	11	-	-	-	-	-	-	-	-	28	-	-	-	39
Singapore	430	140	-	-	6	33	-	4	-	1855	174	-	-	2642
Malaysia	-	11	-	-	-	141	-	-	-	196	69	-	-	417
Russia	-	-	4	-	-	-	-	-	-	-	-	-	-	4
Behrain	860	768	-	-	145	62	-	-	-	120	62	-	-	2017
Yemen	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S.A.	268	100	-	-	-	-	-	-	-	-	-	-	700	1068
Panama	83	-	-	-	-	-	-	-	-	-	-	-	-	83
Oman	-	-	5	-	-	-	-	-	-	-	-	-	-	5
Other European Countries	227	641	-	-	-	-	-	13	-	742	-	-	-	1623
Other Asian Countries	11831	146	-	-	-	207	2931	-	1041	82	88	3251	5872	25449
Others	984	1438	-	-	-	1614	1248	-	4805	389	-	-	1632	12110
* Total do not tally vertically due to non availability of country wise break up of total overseas traffic for J. L. Nehru Port.														

2.2.20 Overseas Traffic (Imports - 1998-99) By Country of Origin (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Origin/ Commodities	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Kandla	Mumbai	J. L. Mehru	Morwa ugao	M. Man- galore	Cochin Coorin	Tut- corin	Chennai Petnam	Vizakha- petnam	Paradip	Calcutta	Haldia	Total
FERTILISERS & ITS RAW MATERIALS	2217	914	889	241	390	755	1262	1153	2885	1153	47	660	12566*	
Jordan	146	106	86	21	26	609	327	26	7	79	-	-	-	1321
Canada	-	21	-	-	-	-	7	-	106	-	-	-	-	107
S. Arabia	-	53	-	-	26	-	17	-	106	-	-	-	-	185
Morocco	-	-	-	107	155	-	17	645	58	-	-	-	-	924
Kuwait	90	2	-	-	7	-	17	-	17	-	-	-	-	157
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-	17
U.S.A.	751	15	29	-	-	15	-	227	706	23	-	-	-	1766
Russia	156	17	-	-	-	-	124	-	464	49	-	-	-	810
Germany	103	-	-	-	37	-	21	-	70	-	-	-	-	231
U.A.R.	-	139	-	-	-	-	350	-	-	-	-	-	-	489
Bahrain	-	27	-	-	11	-	-	-	22	-	-	-	-	60
Iran	24	80	-	-	69	-	-	-	98	-	-	-	-	271
Iraq	-	-	-	-	-	-	-	-	9	-	-	-	-	9
Belgium	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	95	-	-	-	-	96
Australia & New Zealand	-	-	-	-	-	-	-	-	22	-	-	-	-	22
Others	947	454	-	19	64	740	158	926	867	331	46	660	5212	

* Total do not tally vertically due to non availability of country wise break up of total overseas for J. L. Mehru Port.

2.2.20 Overseas Traffic (Imports - 1998-99) By Country of Origin (Portwise-Commoditywise) (Contd..)

		(In '000 Tonnes)													
Country of Origin/ Commodities		1	2	3	4	5	6	7	8	9	10	11	12	13	14
IRON & STEEL															
		165	1218					63		237	1		185	1	1870
Germany		-	101							23			1		125
France		-	26												26
Russia		-	155												155
U.K.		11	28										12		51
Japan		83	161							63			26		333
U.S.A.		-	22							8			2		32
Canada		-	6							3					9
Belgium		-	4												4
Czechoslovakia		-													
Brazil		-	16												16
Korea		54	156												210
Malaysia		-													
Others		17	543					63		140	1		144	1	909
IRON SCRAP															
		129	91							474					694
U.S.A.		-													
Russia		-	29							20					20
France		-													29
Singapore		-													
Netherlands		-													
Sri Lanka		-													
Malaysia		-													
U.K.		127	2												129
Others		2	60							454					516

2.2.20 Overseas Traffic (Imports - 1998-99) By Country of origin (Portwise-Commoditywise) (Contd...)

(In '000 Tonnes)

[illegible]

* Total do not tally vertically due to non availability of country wise break up of total overseas for J. L. Nehru Port.

2.2.20 Overseas Traffic (Imports - 1998-99) By Country of Origin (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Origin/ Commodities	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Kerala	Mumbai	J.L. Mehru	Morm- vegao	N.Man- galore	Cochin	Tutl- oorin	Chennai	Vizakha- patnam	Paradip	Calcutta	Haldis	Total
COAL	-	-	-	-	626	61	157	462	2350	5227	1828	38	3385	14134
U.S.A.	-	-	-	-	-	-	-	-	-	70	-	-	-	70
U.S.S.R.	-	-	-	-	35	20	-	-	-	-	-	-	-	55
Newzealand	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	79	41	-	404	-	39	-	-	-	563
Australia	-	-	-	-	-	-	-	-	-	4235	1112	-	3094	8441
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	512	-	157	58	2350	883	716	38	291	5005
WOOD	-	818	181	-	-	309	-	334	102	-	-	281	-	2025
Canada	-	-	57	-	-	-	-	-	22	-	-	-	-	79
Malaysia	-	521	-	-	-	10	-	162	-	-	-	-	-	693
Burma	-	3	-	-	-	151	-	32	-	-	-	25	-	211
Vietnam	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Newzealand	-	167	3	-	-	-	-	-	-	-	-	-	-	170
Singapore	-	8	-	-	-	-	-	51	-	-	-	-	-	59
Other European Countries	-	-	3	-	-	-	-	7	25	-	-	-	-	35
Other Asian Countries	-	4	52	-	-	22	-	-	19	-	-	253	-	350
Other African Countries	-	61	8	-	-	29	-	16	18	-	-	3	-	185
Others	-	53	58	-	-	97	-	66	18	-	-	-	-	292

2.2.20 Overseas Traffic (Imports - 1998-99) By Country of Origin (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)														
Country of Origin/ Commodities	Kandla	Mumbai	J.L. Nehru	5	6	7	8	9	10	11	12	13	14	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
MACHINERY	12	175	-	-	-	8	6	-	131	-	-	-	-	332
U.S.A.	-	13	-	-	-	-	-	-	11	-	-	-	-	24
Japan	11	26	-	-	-	3	-	-	16	-	-	-	-	56
France	-	5	-	-	-	-	-	-	-	-	-	-	-	5
Germany	-	20	-	-	-	-	-	-	19	-	-	-	-	39
U.S.S.R.	-	6	-	-	-	-	-	-	-	-	-	-	-	6
Canada	-	1	-	-	-	-	-	-	-	-	-	-	-	1
U.K.	-	5	-	-	-	-	-	-	-	-	-	-	-	5
Taiwan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	13	-	-	-	3	-	-	-	-	-	-	-	16
Czechoslovakia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Switzerland	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Other Asian Countries	-	27	-	-	-	-	-	-	13	-	-	-	-	40
Other European Countries	-	19	-	-	-	2	3	-	37	-	-	-	-	61
Others	1	38	-	-	-	-	3	-	35	-	-	-	-	77

2.2.21 Overseas Traffic (Exports - 1998-99) By Country of Destination (Portwise-Commoditywise)

(In '000 Tonnes)

Country of Destination/Commodities	Kandla	Mumbai	J. L.	Morm.	N. Man.	Cochin	Tutic.	Chennai	Vizakha	Paradip	Calcutta	Raidia	Total
			Nehru	ugao	galore	cochin		patnam					
1	2	3	4	5	6	7	8	9	10	11	12	13	14
ALL COMMODITIES	4023	5003	4257	15335	5120	952	1629	9217	6379	1343	979	728	54965+
U.S.A.	10	131		20	-	127	78	608	520	24	248	145	1911
Russia	103	22		42	-	-	17	-	208	-	21	-	413
U.K.	11	29		1	-	20	49	-	1	4	185	-	300
Holland	55	28		936	-	-	30	-	94	11	-	-	1154
France	22	31		509	4	-	28	-	-	-	-	-	594
Japan	113	245		8001	1468	35	35	2062	3523	474	23	-	15979
Germany	31	22		2	279	36	31	97	2	-	-	-	221
Australia/N.Zealand	37	52		13	-	9	16	-	41	-	37	23	507
Italy	83	59		343	115	-	279	-	153	1	-	-	1033
Romania	-	1		536	-	-	-	-	203	19	-	-	537
Belgium	4	-		213	22	-	77	-	3	-	-	-	538
Canada	-	10		1	-	9	17	27	31	-	-	-	67
Iran	179	40		66	781	-	-	-	-	-	-	-	1097
Iraq	-	7		-	-	-	-	-	-	-	-	-	7
Singapore	112	162		1	-	-	4	-	12	1	-	-	292
Indonesia	68	91		8	-	-	80	-	81	24	-	-	352
Turkey	9	7		55	-	-	8	-	99	50	-	-	79
Korea (S)	228	47		934	-	-	21	-	-	-	-	-	1379
Korea (N)	-	1		-	-	-	-	-	-	-	-	-	1
Taiwan	57	35		277	881	-	23	-	55	15	-	-	1343
S. Arabia	400	102		1	-	-	-	-	7	-	-	-	510
Pakistan	-	15		492	-	1	1	-	-	-	-	-	509
Hungry	-	1		-	-	-	-	-	-	-	-	-	2
Qatar	-	15		-	-	-	-	-	-	-	-	-	15
Czechoslovakia	-	-		-	-	-	2	-	-	-	-	-	2
U.A.E.	1	-		69	-	-	70	-	55	23	-	-	218
Jordan	24	49		12	-	-	1	-	-	-	-	-	86

* Total do not tally vertically due to non availability of country wise break up of total overseas for J. L. Nehru Port.

2.2.21 Overseas Traffic (Exports - 1998-99) By Country Of Destination (Portwise-Commoditywise) (Contd...)

(In '000 Tonnes)

Country of Destination/Commodities	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Kandla :	Mumbai :	J.L. : Nehru :	Morm- : ugao :	N Man- : galore :	Cochin : corin :	Tuti- : corin :	Chennai : patnam :	Visakha- : patnam :	Paradip :	Calcutta :	Haldia :	Total
Kuwait	34		61											95
Behrain	3		34											37
China	186		68							831	661			6101
Malaysia	101		108		2780	1569		6		49				338
Bangladesh	184		77		10			70		42	23	30		362
Philippines	113		25					5		12				152
Yugoslavia	-		-		1			1						
Dubai	48		441											489
Spain	47		11					22		7				87
Other European Countries	75		18		12		221	18	620	13		86	151	1214
Other American Countries	62		45				2	4	4	90		10		217
Other African Countries	585		461				14	6	56	33	9	23	4	1191
Other Asian Countries	405		465			1	424	449	527	141		193	356	2961
Others	633		1987				53	180	5216	73	4	123	49	8318

* Total do not tally vertically due to non availability of country wise break up of total overseas ^{figure} for J. L. Nehru Port.

2.2.21 Overseas Traffic (Exports - 1998-99) BY COUNTRY OF DESTINATION (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Destination/Commodities	Kandla	Mumbai	J.L.	Morm.	N.Man-	Cochin	Tutl-	Chennai	Vizhinjam	Paradip	Calcutta	Haldia	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
POL CRUDE & ITS PRODUCTS	-	297	-	-	-	155	-	933	-	-	-	-	1385
S. Arabia	-	6	-	-	-	-	-	-	-	-	-	-	6
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-
U.K.	-	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	31	-	-	-	-	-	-	-	-	-	-	31
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-
Holland	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia/N.Zealand	-	1	-	-	-	-	-	-	-	-	-	-	1
Belgium	-	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	63	-	-	-	-	-	-	-	-	-	-	63
Iran	-	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-	-
S. Korea	-	-	-	-	-	-	-	-	-	-	-	-	-
Other European Countries	-	1	-	-	-	-	-	-	-	-	-	-	1
Other African Countries	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Asian Countries	-	24	-	-	-	133	-	155	-	-	-	-	312
Other American Countries	-	-	-	-	-	22	-	-	-	-	-	-	22
Others	-	171	-	-	-	-	-	778	-	-	-	-	949

2.2.21 Overseas Traffic (Exports - 1988-89) By Country Of Destination (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Destination/Commodities	Kandla	Mumbai	J.L.	Mormugao	N. Man. galore	Cochin	Tuticorin	Chennai	Vizakha	Paradip	Calcutta	Haldisa	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
IRON & STEEL	54	298	-	-	-	4	-	105	543	18	98	292	1412
U.S.A.	-	13	-	-	-	1	-	24	178	-	-	30	246
U.K.	-	3	-	-	-	-	-	-	-	4	-	-	7
Belgium	-	4	-	-	-	-	-	-	41	-	-	-	45
Japan	-	-	-	-	-	-	-	1	45	-	-	-	46
Russia	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	4	-	-	-	-	-	3	-	-	-	-	7
Canada	-	1	-	-	-	-	-	3	-	-	-	-	4
Australia/N.Zealand	-	2	-	-	-	-	-	-	-	-	-	-	2
Kuwait	-	1	-	-	-	-	-	-	-	-	-	-	1
Other European countries	-	36	-	-	-	2	-	17	118	-	-	35	208
Other African countries	-	74	-	-	-	-	-	3	4	-	-	-	81
Other Asian countries	-	108	-	-	-	1	-	35	148	14	24	161	491
Others	54	52	-	-	-	-	-	19	9	-	74	66	274
MACHINERY	-	64	-	-	-	7	-	33	-	-	-	-	104
U.S.A.	-	4	-	-	-	-	-	6	-	-	-	-	10
Russia	-	4	-	-	-	-	-	-	-	-	-	-	4
Japan	-	1	-	-	-	-	-	-	-	-	-	-	1
Germany	-	1	-	-	-	-	-	4	-	-	-	-	5
Other African Countries	-	12	-	-	-	-	-	4	-	-	-	-	16
Other European Countries	-	4	-	-	-	5	-	6	-	-	-	-	15
Middle East	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Asian Countries	-	33	-	-	-	1	-	5	-	-	-	-	39
S. America	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	5	-	-	-	1	-	8	-	-	-	-	14

2.2.21 Overseas Traffic (Exports - 1998-99) By Country Of Destination (Portwise-Commoditywise) (Contd...)

		(In '000 Tonnes)													
Country of Destination/Commodities	1	Country of Destination													
		2	3	4	5	6	7	8	9	10	11	12	13	14	Total
		Kandla	Mumbai	J.L. : Nehru	Morm : ugao	N.Man- : galore	Cochin : corin	Tuti- : corin	Chennai : patnam	Visakha- : patnam	Paradip	Calcutta	Haldia	Total	
CHEMICALS		-	232	-	-	-	22	-	95	-	-	-	-	-	349
U.S.A.		-	7	-	-	-	1	-	7	-	-	-	-	-	15
U.S.S.R.		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Japan		-	6	-	-	-	-	-	5	-	-	-	-	-	11
Germany		-	3	-	-	-	-	-	4	-	-	-	-	-	7
Australia/N.Zealand		-	5	-	-	-	-	-	-	-	-	-	-	-	5
Africa		-	33	-	-	-	-	-	6	-	-	-	-	-	39
Other Asian Countries		-	138	-	-	-	16	-	32	-	-	-	-	-	186
Other European Countries		-	9	-	-	-	2	-	19	-	-	-	-	-	30
Others		-	31	-	-	-	3	-	22	-	-	-	-	-	56
TEA		-	8	-	-	-	101	-	-	-	-	38	40	-	187
U.S.A.		-	-	-	-	-	7	-	-	-	-	-	-	-	7
U.S.S.R.		-	1	-	-	-	-	-	-	-	-	-	-	-	1
U.K.		-	-	-	-	-	1	-	-	-	-	-	-	-	1
Japan		-	-	-	-	-	1	-	-	-	-	-	-	-	1
Canada		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany		-	-	-	-	-	1	-	-	-	-	-	-	-	1
Australia/N.Zealand		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Africa		-	-	-	-	-	1	-	-	-	-	-	-	-	1
Other Asian Countries		-	7	-	-	-	25	-	-	-	-	3	-	-	35
Other European Countries		-	-	-	-	-	28	-	-	-	-	-	40	-	68
Others		-	-	-	-	-	37	-	-	-	-	35	-	-	72

2.2.21 Overseas Traffic (Exports - 1998-99) By Country of Destination (Portwise-Commoditywise) (Contd.)

(In '000 Tonnes)

Country of Destination/Commodities	Kandla	Mumbai	J.L.	Morm.	N. Man.	Cochin	Tutli	Chennai	Visakh	Paradip	Calcutta	Haldia	Total
	:	:	:	:	:	:	:	:	:	:	:	:	:
1	2	3	4	5	6	7	8	9	10	11	12	13	14
IRON ORE													
Japan	-	-	-	14910	4902	-	-	5445	3792	668	-	-	29717
Korea (S)	-	-	-	7834	1467	-	-	1981	3423	317	-	-	15022
West Indies	-	-	-	934	-	-	-	-	-	-	-	-	934
Romania	-	-	-	534	-	-	-	-	-	-	-	-	534
Italy	-	-	-	343	-	-	-	-	-	-	-	-	343
Pakistan	-	-	-	468	-	-	-	-	-	-	-	-	468
U.A.E.	-	-	-	69	-	-	-	-	-	-	-	-	69
Holland	-	-	-	936	-	-	-	-	-	-	-	-	936
Belgium	-	-	-	213	-	-	-	-	-	-	-	-	213
Korea (N)	-	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	279	-	-	-	-	-	-	-	279
Iraq	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	55	-	-	-	-	-	-	-	-	55
Hungary	-	-	-	-	-	-	-	-	-	-	-	-	-
Czechoslovakia	-	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	2777	1569	-	-	-	369	351	-	-	5066
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	474	-	-	-	-	-	-	-	-	474
Jordan	-	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	781	-	-	-	-	-	-	-	781
Europe	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	273	806	-	-	3464	-	-	-	-	4543

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

2.3.1 Passenger Traffic At Major Ports In India

(In '000)

		Overseas		Coastal		Total			
Port/Year		: Embarked : Total		: Embarked : Total		: Embarked : Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
MUMBAI									
1985-86	6.3	6.2	12.5	121.9	124.1	246.0	128.2	130.3	258.5
1986-87	5.1	3.5	8.6	123.9	123.2	247.1	129.0	126.7	255.7
1987-88	6.3	7.3	13.6	117.5	119.9	237.4	123.8	127.2	251.0
1988-89	6.3	7.0	13.3	11.6	9.8	21.4	17.9	16.8	34.7
1989-90	8.7	9.1	17.8	-	-	-	8.7	9.1	17.8
1990-91	5.8	9.1	14.9	-	-	-	5.8	9.1	14.9
1991-92	6.9	7.3	14.2	-	-	-	6.9	7.3	14.2
1992-93	10.3	9.0	19.3	-	-	-	10.3	9.0	19.3
1993-94	7.2	8.6	15.8	-	-	-	7.2	8.6	15.8
1994-95	7.0	12.9	19.9	31.3	26.3	57.6	38.3	39.2	77.5
1995-96	9.0	12.9	21.9	31.4	34.4	65.8	40.4	47.3	87.7
1996-97	3.2	8.4	11.6	25.2	34.0	59.2	28.4	42.4	70.8
1997-98	4.8	12.5	17.3	22.9	28.4	51.3	27.7	40.9	68.6
1998-99	4.6	2.6	7.2	5.3	7.8	13.1	9.9	10.4	20.3
COCHIN									
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	-	-	-	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	1.4	1.3	2.7	21.1	19.3	40.4	22.5	20.6	43.1
1991-92	1.7	1.7	3.4	26.9	25.1	52.0	28.6	26.8	55.4
1992-93	4.3	4.4	8.7	27.4	28.1	55.5	31.7	32.5	64.2
1993-94	1.2	1.3	2.5	28.3	31.3	59.6	29.5	32.6	62.1
1994-95	1.7	1.8	3.5	26.5	30.7	57.2	28.2	32.5	60.7
1995-96	8.6	8.6	17.2	24.9	34.2	59.1	33.5	42.8	76.3
1996-97	4.6	4.7	9.3	23.5	32.8	56.3	28.1	37.5	65.6
1997-98	7.1	7.0	14.1	28.3	30.7	59.0	35.4	37.7	73.1
1998-99	4.9	4.8	9.7	33.2	34.3	67.5	38.1	39.1	77.2

(000, 000)

	Overseas		Coastal		Total				
Port/Year	Emarked	Disembarked	Total	Emarked	Disembarked	Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
CHENNAI									
1985-86	2.0	3.0	5.0	24.2	23.2	47.4	26.2	26.2	52.4
1986-87	2.3	3.7	6.0	27.0	24.3	51.3	29.3	28.0	57.3
1987-88	0.4	0.6	1.0	34.8	35.6	70.4	35.2	36.2	71.4
1988-89	0.6	0.5	1.1	37.2	34.2	71.4	37.8	34.7	72.5
1989-90	neg.	0.9	0.9	30.0	25.8	55.8	30.0	26.7	56.7
1990-91	neg.	0.1	0.1	31.3	27.6	58.9	31.3	27.7	59.0
1991-92	7.0	1.4	8.4	27.2	25.9	53.1	34.2	27.3	61.5
1992-93	6.4	0.9	7.3	34.3	32.6	66.9	40.7	33.5	74.2
1993-94	6.9	-	6.9	41.2	37.3	78.5	48.1	37.3	85.4
1994-95	10.1	-	10.1	38.2	32.4	70.6	48.3	32.4	80.7
1995-96	3.3	...	3.3	42.6	39.9	82.5	45.9	39.9	85.8
1996-97	3.9	...	3.9	40.1	38.1	78.2	44.0	38.1	82.1
1997-98	(a)	(a)	(a)	37.3	38.9	76.2	37.3	38.9	76.2
1998-99	(a)	(a)	(a)	47.6	44.6	92.2	47.6	44.6	92.2
VISAKHAPATNAM									
1985-86	-	-	-	1.8	2.0	3.8	1.8	2.0	3.8
1986-87	-	-	-	4.5	4.8	9.3	4.5	4.8	9.3
1987-88	-	-	-	3.0	1.4	4.4	3.0	1.4	4.4
1988-89	-	-	-	1.3	1.1	2.4	1.3	1.1	2.4
1989-90	-	-	-	2.2	4.2	6.4	2.2	4.2	6.4
1990-91	-	-	-	7.6	7.9	15.5	7.6	7.9	15.5
1991-92	-	-	-	2.7	3.3	6.0	2.7	3.3	6.0
1992-93	-	-	-	2.5	1.8	4.3	2.5	1.8	4.3
1993-94	-	-	-	4.6	7.4	12.0	4.6	7.4	12.0
1994-95	-	-	-	3.6	4.8	8.4	3.6	4.8	8.4
1995-96	-	-	-	3.7	4.0	7.7	3.7	4.0	7.7
1996-97	-	-	-	6.0	6.9	12.9	6.0	6.9	12.9
1997-98	-	-	-	6.1	5.6	11.7	6.1	5.6	11.7
1998-99	-	-	-	8.8	5.0	13.8	8.8	5.0	13.8

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

(In '000)									
: Overseas :		Coastal :		Total					
Port/Year	Embarked	Disembarked	Total	Embarked	Disembarked	Total	Embarked	Disembarked	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
PARADIP									
1997-98	0.7	0.7	1.4	-	-	-	0.7	0.7	1.4
1998-99	-	-	-	-	-	-	-	-	-
CALCUTTA/HAIDIA									
1985-86	-	-	-	25.7	22.6	48.3	25.7	22.6	48.3
1986-87	-	-	-	24.4	22.2	46.6	24.4	22.2	46.6
1987-88	-	-	-	27.3	21.1	48.4	27.3	21.1	48.4
1988-89	-	-	-	22.2	19.6	41.8	22.2	19.6	41.8
1989-90	-	-	-	20.3	16.6	36.9	20.3	16.6	36.9
1990-91	-	-	-	12.3	11.6	23.9	12.3	11.6	23.9
1991-92	-	-	-	13.8	11.5	25.3	13.8	11.5	25.3
1992-93	-	-	-	21.6	19.1	40.7	21.6	19.1	40.7
1993-94	-	-	-	22.8	17.5	40.3	22.8	17.5	40.3
1994-95	-	-	-	20.5	18.4	38.9	20.5	18.4	38.9
1995-96	-	-	-	21.7	16.7	38.4	21.7	16.7	38.4
1996-97	-	-	-	24.0	21.8	45.8	24.0	21.8	45.8
1997-98	-	-	-	19.9	15.1	35.0	19.9	15.1	35.0
1998-99	-	-	-	28.0	24.3	52.3	28.0	24.3	52.3

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

(In '000)

Port/Year	Overseas		Coastal		Total				
	Embarcked	Disembarcked	Total	Embarcked	Disembarcked	Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ALL MAJOR PORTS									
1985-86	8.6	9.6	18.2	190.0	191.7	381.7	198.6	201.3	399.9
1986-87	8.0	7.9	15.9	197.0	193.1	390.1	205.0	201.0	406.0
1987-88	7.1	8.8	15.9	198.8	199.0	397.8	205.9	207.8	413.7
1988-89	6.9	7.5	14.4	93.7	85.2	178.9	100.6	92.7	193.3
1989-90	9.4	10.7	20.1	72.8	66.9	139.7	82.2	77.6	159.8
1990-91	7.2	10.5	17.7	72.3	66.4	138.7	79.5	76.9	156.4
1991-92	15.6	10.4	26.0	70.6	65.8	136.4	86.2	76.2	162.4
1992-93	21.0	14.3	35.3	85.8	81.6	167.4	106.8	95.9	202.7
1993-94	15.3	9.9	25.2	102.9	87.5	190.4	118.2	97.4	215.6
1994-95	18.8	14.7	33.5	120.1	112.6	232.7	138.9	127.3	266.2
1995-96	20.9	21.5	42.4	124.3	129.2	253.5	145.2	150.7	295.9
1996-97	11.7	13.1	24.8	118.8	133.6	252.4	130.5	146.7	277.2
1997-98	12.6	20.2	32.8	114.5	118.7	233.2	127.1	138.9	266.0
1998-99	9.5	7.4	16.9	122.9	116.0	238.9	132.4	123.4	255.8

Note : There was no Passenger Traffic at Kandla, J. L. Nehru, Mormugao, New Mangalore and Tuticorin Ports for the period 1985-86 to 1998-99.

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

(GRT in '000)

Port	Year	Container		Break Bulk		Dry Bulk		Liquid Bulk		Lash		Ro-Ro		Total	
		No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT
Kandla	1992-93	79	617	208	1672	145	1779	611	16749	-	-	2	50	1045	20867
	1993-94	107	750	293	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
	1997-98	133	1495	330	2854	221	3096	1001	26062	-	-	-	-	1685	33507
	1998-99	113	1043	341	3401	209	3277	1045	27917	-	-	-	-	1708	35638
Mumbai	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
	1997-98	779	8360	681	6580	102	920	661	14570	10	270	-	-	2233	30700
	1998-99	696	7830	621	5810	100	1050	805	15870	11	310	-	-	2233	30870
J.L. Nehru	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
	1997-98	421	7931	1	3	54	1340	86	1144	-	-	68	2077	630	12495
	1998-99	656	11321	15	100	72	1515	160	2100	-	-	71#	1696	974	16732
Mormugao	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	7	23	285	10006	327	5638	-	-	-	-	636	15846
	1995-96	21	129	7	53	313	10113	296	5014	-	-	-	-	637	15309
	1996-97	30	159	12	98	268	9395	197	3468	-	-	-	-	507	13120
	1997-98	29	194	18	160	366	11608	195	3326	-	-	-	-	608	15288
	1998-99	30	244	33	507	302	9772	155	2428	-	-	-	-	520	12951

* Includes Naval And Other Ships.

\$ Includes car carrier & General ships.

Includes Car carriers, Navy and General & Other Ships.

@ Includes 11 Container Barges.

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

(GRT in '000)

Port	Year	Container		Break Bulk		Dry Bulk		Liquid Bulk		Tash		Ro-Ro		Total	
		No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT
New Mangalore	1992-93	18	53	143	1215	150	3700	142	1997	-	-	-	-	453	6965
	1993-94	20	59	114	967	174	4573	174	2359	-	-	-	-	482	7958
	1994-95	11	33	123	1068	179	4195	201	2816	-	-	-	-	514	8112
	1995-96	-	-	122	1115	175	4481	208	2617	-	-	-	-	505	8213
	1996-97	-	-	145	1486	163	4039	336	6797	-	-	-	-	644	12322
Cochin	1997-98	-	-	157	1648	184	4792	388	8608	-	-	-	-	729	15048
	1998-99	-	-	150	1590	152	4027	422	9446	-	-	-	-	724	15063
	1992-93	227	1050	90	753	33	541	289	7422	3	86	-	-	642	9852
	1993-94	267	1469	90	675	31	356	263	6812	5	115	-	-	656	9427
Rutlicorin	1994-95	275	1652	59	402	34	376	294	8065	-	-	-	-	662	10495
	1995-96	261	1747	105	782	43	962	388	9985	-	-	-	-	797	13476
	1996-97	278	2202	134	760	41	885	375	9928	-	-	-	-	826	13775
	1997-98	314	2259	120	504	55	830	383	11131	-	-	-	-	872	14724
	1998-99	377	2877	141	761	53	1161	398	10516	-	-	-	-	969	15315
Chennai	1992-93	145	561	300	1080	174	3687	129	1808	-	-	-	-	748	7136
	1993-94	171	734	336	1052	193	4371	104	1391	2	72	-	-	806	7620
	1994-95	165	873	352	1300	234	4950	125	1595	2	47	-	-	878	8765
	1995-96	181	797	333	1365	297	6252	128	1616	-	-	-	-	939	10030
	1996-97	182	951	294	1325	292	6214	137	1841	-	-	-	-	905	10331
Chennai	1997-98	238	1284	287	1468	313	6696	146	2217	-	-	-	-	984	11665
	1998-99	266	837	369	1651	302	6523	136	1656	-	-	-	-	1073	10667
	1992-93	322	2278	226	1724	364	9151	480	11344	16	685	-	-	1408	25182
	1993-94	306	2543	232	1718	358	8482	460	11225	14	400	-	-	1370	24368
	1994-95	327	3094	218	1639	378	9515	486	12663	15	429	-	-	1424	27340
Chennai	1995-96	423	3791	204	1614	443	10735	482	12206	15	428	-	-	1567	28774
	1996-97	461	4286	230	1797	422	10360	516	13298	15	428	-	-	1644	30169
	1997-98	482	4391	224	1706	542	13452	467	12354	16	457	-	-	1731	32360
	1998-99	457	4404	225	1669	534	13435	481	10906	15	438	-	-	1712	30852

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

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	
Visakhapatnam	1992-93	49	302	108	956	426	10063	353	8420	15	434	-	951	20175
	1993-94	50	334	186	1805	426	10421	370	9256	11	314	-	1043	22130
	1994-95	37	192	203	1990	484	11794	478	11611	7	200	-	1209	25787
	1995-96	40	271	280	2336	499	12417	490	12270	16	457	-	1325	27751
	1996-97	63	508	223	2256	530	13674	602	16399	19	543	-	1437	33380
	1997-98	68	535	212	2203	607	15286	618	15913	23	653	-	1528	34590
	1998-99	94	677	187	1676	599	15361	580	14616	17	505	-	1477	32835
Paradip	1992-93	-	-	14	106	263	5890	71	1222	15	428	-	363	7646
	1993-94	-	-	5	47	293	6216	89	1556	15	428	-	402	8247
	1994-95	-	-	13	91	335	7529	118	1785	13	371	-	479	9776
	1995-96	-	-	6	60	357	8184	160	2319	18	561	-	541	11124
	1996-97	-	-	11	75	358	8029	187	2647	21	630	-	577	11381
	1997-98	-	-	2	40	416	9243	225	3140	18	536	-	661	12959
	1998-99	1	6	4	44	387	9361	286	3611	11	334	-	689	13356
Calcutta	1992-93	135	724	363	2506	39	378	216	2214	15	428	-	768	6250
	1993-94	204	1222	315	2129	19	206	201	2060	14	400	-	753	6077
	1994-95	222	1215	298	2241	10	104	211	2171	15	429	-	756	6160
	1995-96	246	1339	222	1651	18	164	306	3128	14	400	-	806	6682
	1996-97	288	1634	222	1732	14	141	336	2765	17	486	-	877	6758
	1997-98	336	1984	251	1816	13	126	393	4772	17	486	-	1010	9184
	1998-99	310	1855	261	1806	17	168	438	5686	16	477	-	1042	9992
Maldia	1992-93	49	402	19	194	229	5462	412	9468	-	-	-	709	15526
	1993-94	57	463	35	375	236	5925	394	9693	-	-	-	722	16456
	1994-95	63	405	48	373	261	6533	412	11255	-	-	-	754	18566
	1995-96	44	259	42	358	273	6900	400	12900	-	-	-	839	20503
	1996-97	98	643	45	444	340	8628	467	13087	-	-	-	950	22802
	1997-98	234	1465	74	685	370	9523	597	16155	-	-	-	1275	27828
	1998-99	268	1638	108	1005	347	9258	598	14919	-	-	-	1321	26820

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

(GRT In '000)

Port	Year	Container		Break Bulk		Dry Bulk		Liquid Bulk		Tash		Ro-Ro		Total	
		No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT	No.	GRT
All Ports	1992-93	2006	16108	2115	15314	2305	51464	3646	80489	84	2711	58	1588	10214	167674
	1993-94	2157	19356	2239	16154	2435	53980	3710	83531	93	2789	78	2316	10712	178126
	1994-95	2420	19570	2422	17344	2563	58710	4028	92480	80	2526	89	1017	11602	191647
	1995-96	2455	23795	2199	17002	2766	64946	4488	99303	81	2396	94	3178	12083	210620
	1996-97	2801	28019	2275	18020	2826	66601	4836	110523	84	2367	94	3054	12916	228584
	1997-98	3034	29898	2357	19667	3243	76912	5160	119392	84	2402	68	2077	13946	250348
	1998-99	3268	32732	2455	20020	3074	74908	5504	119671	70	2064	71	1696	14442	251091

2.4.2 Major Port-Wise Commodity-Wise Capacity

(In Million Tonnes)												
Commodities	Calcutta	Haldia	Paradip	Visakhapatnam	Chennai	Tuticorin	Cochin	New Mangalore	Morajao	Mumbai	Kandla	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(14)												
POL												
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	-
As on 31.3.99	3.40	11.00	1.50	10.80	8.50	1.00	10.50	7.50	1.50	21.00	29.00	-
As on 31.3.2000	3.40	17.00	1.50	10.80	8.50	2.30	10.50	11.00	1.50	21.00	31.00	-
Iron Ore												
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	-	-	-
As on 31.3.99	-	-	3.00	8.00	8.00	-	-	7.50	16.50	-	-	-
As on 31.3.2000	-	-	3.00	8.00	8.00	-	-	7.50	16.50	-	-	-
Coal												
As on 31.3.97	-	5.00	-	-	-	4.00	-	-	-	-	-	-
As on 31.3.98	-	5.00	-	-	-	4.00	-	-	-	-	-	-
As on 31.3.99	-	6.80	4.80	-	-	4.00	-	-	-	-	-	-
As on 31.3.2000	-	6.80	4.80	-	-	5.20	-	-	-	-	-	-
Fertiliser												
As on 31.3.97	-	-	1.10	0.55	-	-	0.60	-	-	-	0.50	-
As on 31.3.98	-	-	1.10	0.55	-	-	0.60	-	-	-	0.50	-
As on 31.3.99	-	-	0.85	0.50	-	-	0.60	-	-	-	-	-
As on 31.3.2000	-	-	0.85	0.50	-	-	0.60	-	-	-	-	-
Break-Bulk Cargo												
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
As on 31.3.99	1.90	4.60	1.10	11.00	7.62	2.95	1.35	1.75	0.68	4.00	8.00	2.50
As on 31.3.2000	1.90	4.60	2.70	11.50	8.62	3.20	1.35	1.75	1.48	4.00	8.00	2.50
Container												
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
As on 31.3.99	3.00	0.30	-	-	2.50	-	1.00	-	-	5.50	-	10.60
As on 31.3.2000	3.00	0.30	-	-	2.50	1.80	1.00	-	-	5.50	-	10.60
TOTAL												
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
As on 31.3.99	8.30	22.70	11.25	30.30	26.62	7.95	13.45	16.75	18.68	30.50	37.00	16.00
As on 31.3.2000	8.30	28.70	12.85	30.80	27.62	12.50	13.45	20.25	19.48	30.50	39.00	14.60

Source : Development Wing - MOST

2.5.1 Container Handling Facilities - Major Portwise (1998-99)

Port	No. of Berths	Vessel Size (IN DWT)	Equipment				
			Quay Side Gantry Cranes	Yard Gantry Cranes	Toplift Trucks	Tractors	Forklift
CALCUTTA	6	16,000	-	3x35.5 T (RTG)	1x35 T 2**	21	2 (6.5 T)
HALDIA	1	40,000	-	1x30 T (RAIL MOUNTED)	1	5	7
CHENNAI	2	20,000 TO 40,000	2x35.5 T (RTG) 2x40 T	4x35.5 T 6x40T	9*	40	6
COCHIN	2	10,000 TO 20,000	2X40.0 T	4X35.5T (RTG)	7X40T\$	33	48
J.N.P.T.	4	85,000	3x35.5 T 3@x40 T	8+6@35.5 T (RTG) 1+2@ RAIL MOUNTED)	-	19+38@	3@
MUMBAI	8	42,000	2x35.5 T	3x35.5 T (RTG)	4x42T**	-	-

Source : All Major Ports/Administrative Reports
 * Includes 3 Reach stackers \$ Includes 4 Reach Stackers.
 @ Hired equipments.
 ** Reach Stackers.

2.5.2 Container Traffic Handled At Major Ports

(In Million Tonnes)

Item	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1. Export											
i) Indian Lines	0.32	0.34	0.36	0.36	0.35	0.57	0.76	0.89	0.52	0.89	0.84
ii) Foreign Lines	2.64	3.18	3.32	3.28	3.21	5.29	7.04	8.27	10.57	10.76	10.35
iii) Total	2.96	3.52	3.68	3.64	3.56	5.86	7.80	9.16	11.09	11.65	11.19
2. Import											
i) Indian Lines	0.45	0.44	0.46	0.35	0.46	0.69	0.82	0.94	0.65	0.75	0.76
ii) Foreign Lines	2.75	3.38	3.56	2.73	3.60	5.35	6.39	7.34	9.00	8.87	9.84
iii) Total	3.20	3.82	4.02	3.08	4.06	6.04	7.21	8.28	9.65	9.62	10.60
3. Total											
i) Indian Lines	0.77	0.78	0.82	0.71	0.81	1.26	1.58	1.83	1.17	1.64	1.60
ii) Foreign Lines	5.39	6.56	6.88	6.01	6.81	10.64	13.43	15.61	19.57	19.63	20.19
iii) Total	6.16	7.34	7.70	6.72	7.62	11.90	15.01	17.44	20.74	21.27	21.79
4. General Cargo (Break Bulk & Container)	14.50	16.66	16.92	15.58	17.69	23.16	27.87	30.84	33.24	37.14	37.33
% Of Container Cargo to general cargo	42.5	44.1	45.5	43.1	43.1	51.4	53.9	56.5	62.4	57.3	58.4

Note : From 1992-93 to 1995-96 separate figures by Indian Lines and Foreign Lines for Import and Export data are not available and the figures are estimated on previous year ratios and for 1996-97, 1997-98 and 1998-99 the figures for Indian/Foreign Lines are estimated on the basis of IPA figures.

**2.5.3 Container Cargo And Tare weight Of Containers
At Major Ports During 1998-99**

(000 'Tonnes)			
Port	Container cargo	Tare weight	Container traffic
Kandla	778	138	916
Mumbai	4753	1053	5806
J.L.Nehru	6621	1408	8029
Mormugao	37	9	46
Cochin	1068	262	1330
Tuticorin	994	219	1213
Chennai	2871	71	2942
Visakhapatnam	139	33	172
Paradip	1	Neg.	1
Calcutta	1678	293	1971
Halda	371	56	427
Total	19311	3542	22853

Note:- There was no container traffic at New Mangalore Port.

2.5.4 Reefer Container Traffic

Port	Year	Export				Import			
		: 20 ft Containers : : TEUs :	: Tonnes :	: 40 ft Containers : : TEUs :	: Tonnes :	: 20 ft Containers : : TEUs :	: Tonnes :	: 40 ft Containers : : TEUs :	: Tonnes :
Calcutta	1996-97	546	11302	1174	18585	22	400	4	76
	1997-98	381	6048	772	12213	6	89	-	-
	1998-99	524	10332	920	12325	19	293	12	132
	1996-97	1	15	8	68	-	-	20	35
Haldia	1997-98	-	-	146	446	-	-	600	1518
	1998-99	-	-	30	75	-	-	-	-
	1996-97	185	3081	2076	26717	-	-	-	-
	1997-98	115	2312	2598	33639	-	-	-	-
Visakhapatnam	1998-99	100	2178	2474	32925	-	-	-	-
	1996-97	...	...	...	...	...	...	...	...
	1997-98	759	9078	1974	21516	357	3074	1902	7080
	1998-99	802	9604	2044	22448	313	2356	1988	7066
Tuticorin	1996-97	340	4911	856	10104	-	-	-	-
	1997-98	345	5934	1064	11810	-	-	-	-
	1998-99	328	4991	762	10007	-	-	-	-
	1996-97	1865	23312	7596	86331	1903	4662	1460	13038
Cochin	1997-98	1186	14615	7690	88875	41	512	30	352
	1998-99	982	12714	5902	75928	977	30168	5684	170952
	1996-97	160	2007	726	8086	49	392	634	2345
	1997-98	72	998	620	7370	86	831	660	4283
Mormugao	1998-99	60	394	416	5166	92	730	438	3488
	1996-97	551	6612	7086	85032	880	10560	4	48
	1997-98	367	4404	6020	72240	214	2568	716	8592
	1998-99	350	4200	11830	141960	264	3168	864	10368
Mumbai	1996-97	1475	23160	13942	160055	1296	12845	9894	22366
	1997-98	1681	28430	15356	170130	1493	21336	15940	43050
	1998-99*	725	12499	11712	131936	462	9407	419	4889
	1996-97	215	5139	3554	46847	163	670	3228	9414
Kandla	1997-98	127	3186	2730	37064	149	596	2540	6685
	1998-99	69	1296	2100	24693	53	201	1844	4177
	1996-97	5338	79539	37018	441825	4313	29529	21244	47322
	1997-98	5033	75014	38970	390295	2346	27154	22388	71569
Total	1998-99	3940	58208	38190	457463	2180	46323	11242	201072

There is negligible Container Traffic at Paradip and no Container Traffic at New Mangalore Port.

* In 1998-99, data furnished by Mumbai Port does not include Empty Containers.

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

(In '000 Tonnes)

Item	Kandla	Mumbai	J. L.	Koruma	N. Manga	Cochin	Tuti	Chennai	Visakha	Paradip	Calcutta	Haldia	Total
:	:	:	:	:	:	:	:	:	:	:	:	:	:
1	2	3	4	5	6	7	8	9	10	11	12	13	14
:	:	:	:	:	:	:	:	:	:	:	:	:	:
1991-92	238	999	711	-	14	264	164	605	59	3	495	82	3634
1992-93	254	466	891	4	14	278	212	715	73	-	592	60	3559
1993-94	462	1750	1143	9	15	374	285	947	65	-	760	55	5865
1994-95	467	2605	1560	11	4	534	427	1097	77	-	928	59	7769
1995-96	595	2857	2208	13	-	641	478	1271	69	-	982	45	9159
1996-97	758	3328	2895	21	-	719	630	1459	111	-	1072	99	11092
1997-98	805	2788	3389	18	-	754	742	1651	95	-	1116	293	11651
1998-99	521	2086	4234	19	-	799	785	1471	84	1	812	376	11188

IMPORT

1991-92	95	1553	603	-	2	30	38	398	20	-	309	33	3081
1992-93	105	2030	821	1	1	38	65	536	12	-	417	35	4061
1993-94	268	3349	933	2	-	49	120	629	16	-	639	33	6038
1994-95	331	3285	1369	2	4	165	226	922	49	-	833	24	7210
1995-96	366	3708	1862	6	-	155	280	1038	25	-	832	6	8278
1996-97	421	4457	2183	13	-	248	271	1105	56	-	879	18	9651
1997-98	494	3280	2661	12	-	302	374	1351	51	-	1006	88	9619
1998-99	395	2667	3795	18	-	531	428	1471	86	-	1159	51	10603
TOTAL													

1991-92	333	2552	1314	-	16	294	202	1003	79	3	804	115	6715
1992-93	359	2496	1712	5	15	316	277	1251	85	-	1009	95	7620
1993-94	730	5099	2076	11	15	423	405	1576	81	-	1399	88	11903
1994-95	798	5920	2929	13	8	699	653	2019	126	-	1761	83	15009
1995-96	961	6565*	4070	19*	-	796	758	2309	94	-	1814	51	17437
1996-97	1179	7785*	5078	34*	-	967	901	2564	167	-	1951	117	20743
1997-98	1299	6068*	6050	30*	-	1056	1116	3002	146	-	2122	381	21270
1998-99	916	4753*	8029	37*	-	1330	1213	2942	172	1	1971	427	21791

* Exclude Tareweight

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

(Nos.)

Type	: KANDLA : MUMBAI : JAWAHARLAL NEHRU									
	: 1996-97 : 1997-98 : 1998-99 : 1996-97 : 1997-98 : 1998-99 : 1996-97 : 1997-98 : 1998-99									
	1	2	3	4	5	6	7	8	9	10
IMPORT										
20'	38473	42077	32682	316606	328330	273094	169881	213194	313075	
40'	30881	34043	22280	185596	188356	173470	86379	103502	145705	
	3796	4017	5201	65505	69987	49812	41751	54846	83685	
Stuffed										
20'	21033	24565	21738	230673	249940	220916	98730	142289	206788	
40'	17357	19627	13572	135401	143084	142242	52768	72097	92320	
	1838	2469	4083	47636	53428	39337	22971	35096	57234	
Empty										
20'	17440	17512	10944	85933	78390	52178	71151	70905	106287	
40'	13524	14416	8708	50195	45272	31228	33591	31405	53385	
	1958	1548	1118	17869	16559	10475	18780	19750	26451	
EXPORT										
20'	38964	42117	30754	264940	271101	234175	230574	274390	349924	
40'	32130	35583	22208	161068	160587	152323	122146	135768	166624	
	3417	3267	4273	51936	55257	40926	54214	69311	91650	
Stuffed										
20'	37430	40387	25877	242433	252095	203915	220768	265537	323508	
40'	31854	34987	21277	152371	155885	133547	120436	133273	159934	
	2788	2700	2300	45031	48105	35184	50166	66132	81787	
Empty										
20'	1534	1730	4877	22507	19006	30260	9806	8853	26416	
40'	276	596	931	8697	4702	18776	1710	2495	6690	
	629	567	1973	6905	7152	5742	4048	3179	9863	

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

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

(Nos.)

Type	KANDLA			MUMBAI			JAWAHARLAL NEHRU		
	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10
TRANSHIPMENT									
20'	-	-	-	1869	1858	2041	22693	16565	6109
40'	-	-	-	1345	1358	1647	11391	10437	3339
Stuffed	-	-	-	262	250	197	5651	3064	1385
20'	-	-	-	1869	1858	2041	22693	16309	5267
40'	-	-	-	1345	1358	1647	11391	10205	3189
Empty	-	-	-	262	250	197	5651	3052	1039
20'	-	-	-	-	-	-	-	256	842
40'	-	-	-	-	-	-	-	232	150
TOTAL	77437	84194	63436	583415	601289	509310	423148	504149	669108
20'	63011	69626	44488	348009	350301	327440	219916	249707	315668
40'	7213	7284	9474	117703	125494	90935	101616	127221	176720
Stuffed									
20'	58463	64952	47615	474975	503893	426872	342191	424135	535563
40'	49211	54614	34849	289117	300327	277436	184615	215575	255443
Empty	4626	5169	6383	92929	101783	74718	78788	104280	140060
20'	18974	19242	15821	108440	97396	82438	80957	80014	133545
40'	13800	15012	9639	58892	49974	50004	35301	34132	60225
TOTAL	2587	2115	3091	24774	23711	16217	22828	22941	36660

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

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

		(Nos.)									
Type	1	: MORMUGAO		: NEW MANGALORE		: COCHIN					
		: 1996-97		: 1996-97		: 1996-97					
		2	3	4	5	6	7	8	9	10	
IMPORT											
20'	1668	1750	2051	-	-	-	-	53879	58187	62358	
40'	810	700	1149	-	-	-	-	24111	24261	29568	
	429	525	451	-	-	-	-	14881	16963	16395	
Stuffed											
20'	1160	1378	1647	-	-	-	-	11725	15506	23254	
40'	722	630	955	-	-	-	-	6275	8264	15606	
	219	374	346	-	-	-	-	2725	3621	3824	
Empty											
20'	508	372	404	-	-	-	-	42154	42681	39104	
40'	88	70	194	-	-	-	-	17836	15997	13962	
	210	151	105	-	-	-	-	12159	13342	12571	
EXPORT											
20'	1715	1611	1996	-	-	-	-	57581	62445	65712	
40'	837	691	1024	-	-	-	-	26327	26697	31016	
	439	460	486	-	-	-	-	15627	17874	17348	
Stuffed											
20'	1405	1297	1468	-	-	-	-	56786	60838	60469	
40'	731	677	738	-	-	-	-	26096	25814	26739	
	337	310	365	-	-	-	-	15345	17512	16865	
Empty											
20'	310	314	528	-	-	-	-	795	1607	5243	
40'	106	14	286	-	-	-	-	231	883	4277	
	102	150	121	-	-	-	-	282	362	483	

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

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

(Nos.)

Type	MORMUGAO : NEW MANGALORE : COCHIN									
	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	
1	2	3	4	5	6	7	8	9	10	
TRANSHIPMENT										
20'	-	-	-	-	-	-	685	1017	842	
40'	-	-	-	-	-	-	441	543	672	
Stuffed	-	-	-	-	-	-	122	237	85	
20'	-	-	-	-	-	-	685	536	832	
40'	-	-	-	-	-	-	441	274	662	
Empty	-	-	-	-	-	-	122	131	85	
20'	-	-	-	-	-	-	-	481	10	
40'	-	-	-	-	-	-	-	269	10	
TOTAL	3383	3361	4047	-	-	-	112145	121649	128912	
20'	1647	1391	2173	-	-	-	50079	51501	61256	
40'	868	985	937	-	-	-	30633	35074	33828	
Stuffed	2565	2675	3115	-	-	-	69196	76880	84555	
20'	1453	1307	1693	-	-	-	32812	34352	43007	
40'	556	684	711	-	-	-	18192	21264	20774	
Empty	818	686	932	-	-	-	42949	44769	44357	
20'	194	84	480	-	-	-	18067	17149	18249	
40'	312	301	226	-	-	-	12441	13810	13054	

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

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

Type	(Nos.)									
	TUTICORIN		CHENNAI		VISA KHAPATNAM					
	1996-97	1997-98	1998-99	1996-97*	1997-98*	1998-99*	1996-97	1997-98	1998-99	
1	2	3	4	5	6	7	8	9	10	
IMPORT										
20'	43928	49788	47562	126936	145239	145394	6485	6227	7250	
40'	23048	25168	22760	73046	81401	86374	3735	2841	3240	
	10440	12310	12401	26945	31919	29510	1375	1693	2005	
Stuffed										
20'	12544	19767	21064	88917	110583	122844	2431	2382	4359	
40'	8748	12031	10592	56017	65053	75788	1647	1438	2813	
	1898	3868	5236	16450	22740	23528	392	472	773	
Empty										
20'	31384	30021	26498	38019	34706	22550	4054	3845	2891	
40'	14300	13137	12168	17029	16348	10586	2088	1403	427	
	8542	8442	7165	10495	9179	5982	983	1221	1232	
EXPORT										
20'	44841	52676	51950	129209	146622	137991	6632	6537	7057	
40'	21747	25734	25270	74647	83582	80615	3918	2949	3025	
	11547	13471	13340	27281	31520	28688	1357	1794	2016	
Stuffed										
20'	44191	51046	51169	126228	141858	124915	5871	5306	4613	
40'	21207	24242	24715	73872	82182	73975	3707	2464	1715	
	11492	13402	13227	26170	29838	25470	1082	1421	1449	
Empty										
20'	650	1630	781	2981	4764	13076	761	1231	2444	
40'	540	1492	555	775	1400	6640	211	485	1310	
	55	69	113	1103	1682	3218	275	373	567	

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

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

(Nos.)

Type	TUTICORIN			CHENNAI			VTSAKHAPATNAM		
	1996-97	1997-98	1998-99	1996-97*	1997-98*	1998-99*	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10
TRANSHIPMENT	-	-	-	340	204	-	-	-	-
20'	-	-	-	340	204	-	-	-	-
40'	-	-	-	-	-	-	-	-	-
Stuffed	-	-	-	340	204	-	-	-	-
20'	-	-	-	340	204	-	-	-	-
40'	-	-	-	-	-	-	-	-	-
Empty	-	-	-	-	-	-	-	-	-
20'	-	-	-	-	-	-	-	-	-
40'	-	-	-	-	-	-	-	-	-
TOTAL	68769	102464	99512	256503#	292593#	283796#	13117	12764	14307
20'	44795	50902	48030	148033	165187	166989	7653	5790	6265
40'	21987	25781	25741	54226	63439	58198	2732	3487	4021
Stuffed	56735	70813	72233	215485	252595	247759	8302	7688	8972
20'	29955	36273	35307	130229	147439	149763	5354	3902	4528
40'	13390	17270	18463	42628	52578	48998	1474	1893	2222
Empty	32034	31651	27279	41000	39470	35626	4815	5076	5335
20'	14840	14629	12723	17804	17748	17226	2299	1888	1737
40'	8597	8511	7278	11598	10861	9200	1258	1594	1799

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

Note:-* There were 228,540 and 723 containers of size 45' in Chennai Port in 1996-97, 1997-98 and 1998-99 respectively which have been converted into 20' containers.

Includes 18 TEUs of shifting in 96-97, 528 TEUs of Shifting in 1997-98 and 411 TEUs of shifting in 1998-99.

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

(Nos.)

Type	ALL PORTS												
	PARADIP				HAIDIA				CALCUTTA				
	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	
1	2	3	4	5	6	7	8	9	10	11	12	13	
IMPORT													
20'		NIL		1930	8865	4349	70289	77312	77054	830075	930969	964869	
40'				772	2169	247	45925	47454	48652	474303	509895	533445	
				579	3348	2051	12182	14929	14201	177886	210537	215712	
Stuffed				1388	7311	3930	50478	57272	65958	519079	630943	692498	
20'		NIL		428	1465	242	34728	36838	45380	314111	360527	399510	
40'				480	2923	1844	7875	10217	10289	102484	135208	146494	
Empty				542	1554	419	19811	20040	11096	310996	300026	272371	
20'		NIL		344	704	5	11197	10616	3272	160192	149368	133935	
40'				99	425	207	4307	4712	3912	75402	75329	69218	
EXPORT													
20'		NIL		6869	18834	23602	62406	63568	55237	843731	939901	958443	
40'				3379	9820	12662	40832	38428	33385	487031	519839	528197	
				1745	4507	5470	10787	12570	10926	178350	210031	215123	
Stuffed				6787	18495	23415	60152	60544	46015	802051	897403	865409	
20'		NIL		3357	9737	12577	40132	37790	27159	473763	507051	482421	
40'				1715	4379	5419	10010	11377	9478	164144	195176	191494	
Empty				82	339	187	2254	3024	9222	41680	42498	93034	
20'		NIL		22	83	85	700	638	6226	13268	12788	45776	
40'				30	128	51	777	1193	1498	14206	14855	23629	

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

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

(Nos.)

Type	PARADIP	HAIDIA	CALCUTTA	ALL PORTS								
1	2	3	4	5	6	7	8	9	10	11	12	13
TRANSHIPMENT												
20'	NIL	82	513	-	-	-	-	-	-	25669	20157	8992
40'	-	41	163	-	-	-	-	-	-	13517	12705	5658
Stuffed	-	-	175	-	-	-	-	-	-	6076	3726	1667
20'	NIL	82	286	-	-	-	-	-	-	25669	19193	8140
40'	-	41	96	-	-	-	-	-	-	13517	12137	5498
Empty	-	-	95	-	-	-	-	-	-	6076	3528	1321
20'	NIL	227	67	-	-	-	-	-	-	-	964	852
40'	-	-	80	-	-	-	-	-	-	-	568	160
TOTAL												
20'	NIL	45	8681	28212	27951	132695	140880	132291	1699493	1891555	1932715	1067300
40'	-	45	4151	12152	12909	86757	85882	82037	974851	1042439	1067300	432502
Stuffed	-	-	2365	8030	7521	22969	27499	25127	362312	424294	432502	1566047
20'	NIL	45	8257	26092	27345	110630	117816	111973	1346799	1547539	1566047	887429
40'	-	45	3785	11298	12819	74860	74628	72539	801391	879715	887429	339309
Empty	-	-	2236	7397	7263	17885	21594	19717	272704	333912	339309	366257
20'	NIL	-	624	2120	606	22065	23064	20318	352676	343488	366257	179871
40'	-	-	366	854	90	11897	11254	9498	173460	162724	179871	93193
TOTAL												
20'	NIL	-	129	633	258	5084	5905	5410	89608	90382	93193	

Includes 18 TEUs of shifting in 1996-97, 528 TEUs of shifting in 97-98 and 411 TEUs of shifting in 1998-99, in Chennai.
Note: Wherever size of the containers is not specified, the no. of containers is given in 20' Equivalent Units (TEU).
Twenty Equivalent Units (TEU). Total of Import, Export, Stuffed and Empty are given in 20' Equivalent Units (TEU).

2.5.7 Level of Containerisation in General Cargo
at various Major Ports 1997-98 and 1998-99

Ports		Container Cargo (000 tonnes)		General Cargo (Break Bulk + Container) (000 tonnes)		General Cargo (Break Bulk + Container) (000 tonnes)		Percentage of Container Cargo to General Cargo		Total	
		Export	Import	Export	Import	Export	Import	Export	Import	Export	Import
1		2	3	4	5	6	7	8	9	10	11
Kandla	1997-98	805	494	1299	2320	1762	4082	34.7	28.0	31.8	
	1998-99	521	395	916	2479	1549	4028	21.0	25.5	22.7	
Mumbai	1997-98	2788	3280	6068	3919	6872	10791	71.1	47.7	56.2	
	1998-99	2086	2667	4753	3398	5570	8968	61.4	47.9	53.0	
J.L.Nehru	1997-98	3389	2661	6050	3514	3244	6758	96.4	82.0	89.5	
	1998-99	4234	3795	8029	4296	4544	8840	98.6	83.5	90.8	
Mormugao	1997-98	18	12	30	72	81	153	25.0	14.8	19.6	
	1998-99	19	18	37	99	426	525	19.2	4.2	7.0	
New Mangalore	1997-98	-	-	-	227	432	659	-	-	-	
	1998-99	-	-	-	218	341	559	-	-	-	
Cochin	1997-98	754	302	1056	768	529	1297	98.2	57.1	81.4	
	1998-99	799	531	1330	807	800	1607	99.0	66.4	82.8	
Tuticorin	1997-98	742	374	1116	1511	768	2279	49.1	48.7	49.0	
	1998-99	785	428	1213	1566	939	2505	50.1	45.6	48.4	
Chennai	1997-98	1651	1351	3002	2429	1874	4303	68.0	72.1	69.8	
	1998-99	1471	1471	2942	2261	2082	4343	65.1	70.7	67.7	
Vishakapatnam	1997-98	95	51	146	1918	298	2216	4.9	17.1	6.6	
	1998-99	84	68	172	1263	279	1542	6.6	31.5	11.2	
Paradip	1997-98	-	-	-	-	-	-	-	-	-	
	1998-99	1	-	1	15	-	15	6.7	-	6.7	
Calcutta	1997-98	1116	1006	2122	1602	2163	3765	69.7	40.5	56.4	
	1998-99	812	1159	1971	1114	2242	3356	72.9	51.7	58.7	
Haldia	1997-98	293	88	381	607	230	837	48.3	38.3	45.5	
	1998-99	376	51	427	669	374	1043	56.2	13.6	40.9	
TOTAL	1997-98	11651	9619	21270	18887	18254	37141	61.7	52.7	57.3	
	1998-99	11188	10603	21791	18185	19146	37331	61.5	55.4	58.4	

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

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

Commodities	General Cargo (000T)					Level of Containerisation					
	Container		Total General Cargo		% Share of commodities in Total Container Cargo	% Share of commodities in Total General Cargo	% of container Cargo to General Cargo				
	Cargo	Cargo	Col.2	Col.3			Col.4	Col.5			
	1	2	3	4	5	6	7	8	9	10	11
Exports	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	
1. Textiles, Cotton, Yarn etc.	692	439	706	441	8.4	6.3	4.7	3.3	89.1	99.5	
2. Metal & Metal products	376	317	453	400	4.6	4.6	3.0	3.0	83.0	79.3	
3. Foodgrains & Other Products	262	245	1400	2005	3.2	3.5	9.3	14.8	18.7	12.2	
4. Tea & Coffee	336	332	339	336	4.1	4.8	2.2	2.5	99.1	98.8	
5. Granite & its other Material	326	256	770	689	3.9	3.7	5.1	5.1	42.3	37.2	
6. Fish and other Marine Products	219	182	219	182	2.6	2.6	1.5	1.3	100.0	100.0	
7. Padder	147	77	659	813	1.8	1.1	4.4	6.0	22.3	9.5	
8. Fruits & Vegetables	218	130	330	198	2.6	1.9	2.2	1.5	66.1	65.7	
9. Jute and Jute Products	257	291	302	312	3.1	4.2	2.0	2.3	85.1	93.3	
10. Spices	136	93	141	97	1.6	1.4	0.9	0.7	96.4	95.9	
11. Hosiery, Handkerdashry & Millinery	99	72	101	72	1.2	1.0	0.7	0.5	98.0	100.0	
12. Machinery/Instruments and Transport equipment	222	134	245	155	2.7	1.9	1.6	1.1	98.8	86.5	
13. Drugs and Medicine	78	49	79	49	0.9	0.7	0.5	0.4	98.7	100.0	
14. Cashew Kernels	87	82	87	82	1.1	1.2	0.6	0.6	100.0	100.0	
15. Dyes and Colours	74	23	75	23	0.9	0.3	0.5	0.2	98.7	100.0	
16. Cast Iron Goods	138	176	138	176	1.7	2.5	0.9	1.3	100.0	100.0	
17. Oilfats etc.	80	97	88	113	1.0	1.4	0.6	0.8	90.9	85.8	
18. Chemicals	335	345	346	352	4.1	5.0	2.3	2.5	96.8	98.0	
19. Others	4162	3594	8596	7062	50.5	51.9	57.0	52.1	48.4	50.9	
Total Export*	8244	6934	15074	13557	100.0	100.0	100.0	100.0	54.7	51.1	
ALL MAJOR PORTS	11651	11188	18887	18185					61.7	61.5	

* Total export figure includes data for 8 Major Ports of Mumbai, Chennai, Calcutta, Haldia, Kandla, Cochin, Tuticorin and Visakhapatnam. In JNPT and Mormugao the break up of Container traffic commodity wise is not available. In Paradip Port container traffic is not significant. In New Mangalore Port there is no container traffic.

Level of Containerisation	
% of container	
Cargo to General Cargo	
Col.2 Col.3	
----- x100 ----- x100	
Col.4 Col.5	

* Total Import figure includes data for 8 Major Ports of Mumbai, Chennai, Calcutta, Haldia, Kandla, Cochin, Tuticorin and Visakhapatnam. In JNPT and Mormugao the break up of Container traffic commodity wise is not available. In Paradip Port container traffic is not significant. In New Mangalore Port there is no container traffic.

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

PORT : KANDLA

Commodities	General Cargo (000T)										Level of Containerisation		
	Container Cargo	Total General Cargo	% Share of com- odities in Total		% Share of com- odities in Total		% Share of com- odities in Total		% of container Cargo to General Cargo				
			Container Cargo	General Cargo	Container Cargo	General Cargo	Container Cargo	General Cargo	Col.2	Col.3	Col.4	Col.5	
	1	2	3	4	5	6	7	8	9	10	11		
EXPORT													
1. Textiles, Cotton, Yarn etc.	42	1	42	1	5.2	0.2	1.8	Neg.	100.0	100.0			
2. Metal & Metal products	34	4	34	4	4.2	0.8	1.5	0.2	100.0	100.0			
3. Tea & Coffee	-	-	-	-	-	-	-	-	-	-			
4. Foodgrains and other Cereals.	123	115	1161	1697	15.3	22.1	50.0	68.5	10.6	6.8			
5. Fish, shrimps and other marine products	44	24	44	24	5.5	4.6	1.9	1.0	100.0	100.0			
6. Fodder	-	-	-	-	-	-	-	-	-	-			
7. Fruits & Vegetables.	-	1	-	1	-	0.2	-	Neg.	-	100.0			
8. Spices	28	-	28	-	3.5	-	1.2	-	100.0	100.0			
9. Hosiery, Handkerchief and Millinery.	18	8	18	8	2.2	1.5	0.8	0.3	100.0	100.0			
10. Machinery/Instruments civil	25	27	25	30	3.1	5.2	1.1	1.2	100.0	90.0			
Transport equipments.	-	-	-	-	-	-	-	-	-	-			
11. Drugs and Medicines.	10	1	10	1	1.2	0.2	0.4	Neg.	100.0	100.0			
12. Dyes and Colours.	21	2	21	2	2.6	0.4	0.9	0.1	100.0	100.0			
13. Oil seeds, fats etc.	-	61	-	74	-	11.7	-	3.0	-	82.4			
14. Chemicals	6	2	6	2	0.8	0.4	0.3	0.1	100.0	100.0			
15. Others	454	2758	931	6358	56.4	52.7	40.1	25.6	48.8	43.3			
Total Export	805	521	2320	2479	100.0	100.0	100.0	100.0	34.7	21.0			

Includes tareweight.

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

PORT : KANDLA

Commodities	General Cargo (000T)					% Share of commodities in Total				Level of Containerisation	
	Container Cargo		Total General Cargo		Container Cargo		General Cargo		% of container Cargo to General Cargo		
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	Col.2	Col.3	
1	2	3	4	5	6	7	8	9	10	11	
IMPORT											
1. Iron & Steel	49	36	442	201	9.9	9.1	25.1	13.0	11.1	17.9	
2. Metal & Metal Products.	38	56	38	56	7.7	14.2	2.2	3.6	100.0	100.0	
3. Chemicals	-	9	-	9	-	2.3	-	0.6	-	100.0	
4. Paper, Newsprints etc.	21	2	21	2	4.3	0.5	1.2	0.1	100.0	100.0	
5. Plastic & its products	58	27	67	30	11.8	6.8	3.8	1.9	86.6	90.0	
6. Machinery/Instrument ² and Transport equipments.	47	32	78	107	9.5	8.1	4.4	6.9	60.2	29.9	
7. Textiles,cotton,yarn etc.	13	1	13	1	2.6	0.3	0.7	0.1	100.0	100.0	
8. Hair and wool	-	-	-	-	-	-	-	-	-	-	
9. Rubber and its products.	9	-	9	-	1.8	-	0.5	-	100.0	-	
10.Oil, fats etc.	14	-	14	-	2.8	-	0.8	-	100.0	-	
11.Woodpulp.	3	-	3	-	0.6	-	0.2	-	100.0	-	
12.Foodgrains & other cereals	-	-	1	1	-	-	0.1	0.1	-	-	
13.Industrial alcohols & Spirits(non-potable)	8	-	8	-	1.6	-	0.4	-	100.0	-	
14.Drugs & Medicine.	13	-	13	-	2.6	-	0.7	-	100.0	-	
15.Fertilizers	-	-	-	-	-	-	-	-	-	-	
16.Fertilizer Raw Materials	-	-	-	-	-	-	-	-	-	-	
17.Others	221	232 ²	1055	1142 ²	44.8	58.7	59.9	73.7	20.9	20.3	
Total Import	494	395	1762	1549	100.0	100.0	100.0	100.0	28.0	25.5	

² Includes Tareweight.

PORT : MOMBAI

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		Col.4 1997-98	Col.5 1998-99	Col.2 1997-98	Col.3 1998-99		
									Col.1 1997-98					Col.1 1998-99	
	1	2	3	4	5	6	7	8	9	10	11				
EXPORT															
1. Textiles, Cotton, Yarn etc.	299	94	311	95	10.7	4.5	7.9	2.8	96.1	98.9					
2. Metal & Metal products	210	193	275	261	7.5	9.3	7.0	7.7	76.4	73.9					
3. Tea & Coffee	18	8	18	8	0.7	0.4	0.5	0.2	100.0	100.0					
4. Foodgrains and other Cereals.	139	130	239	308	5.0	6.2	6.1	9.1	58.2	42.2					
5. Fish, shrimps and other marine products	1	3	1	3	Neg.	0.1	Neg.	0.1	100.0	100.0					
6. Fodder	147	77	659	813	5.3	3.7	16.8	23.9	22.3	9.5					
7. Fruits & Vegetables.	183	99	282	157	6.6	4.8	7.2	4.6	64.9	63.1					
8. Spices	59	48	64	52	2.1	2.3	1.6	1.6	92.2	92.3					
9. Hosiery, Handkerchief and Millinery.	81	64	83	64	2.9	3.1	2.1	1.9	97.6	100.0					
10. Machinery/Instruments and Transport equipments.	135	53	151	64	4.8	2.5	3.9	1.9	89.4	82.8					
11. Drugs and Medicines.	68	48	69	48	2.4	2.3	1.8	1.4	98.5	100.0					
12. Dyes and Colours.	53	21	54	21	1.9	1.0	1.4	0.6	98.1	100.0					
13. Oil seeds, fats etc.	18	17	19	18	0.7	0.8	0.5	0.5	94.7	94.4					
14. Chemicals	200	231	204	232	7.2	11.1	5.2	6.8	98.0	99.6					
15. Others	1177	1000	1490	1254	42.2	47.9	38.0	36.9	30.0	79.7					
Total Export	2788	2086	3919	3398	100.0	100.0	100.0	100.0	71.1	61.4					

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 : 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
	1997-98	1998-99	1997-98	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	Col.4 Col.5	
1	2	3	4	5	6	7	8	9	10	11			
IMPORT													
1. Iron & Steel	196	72	1766	1218	6.0	2.7	25.7	21.9	11.1	5.9			
2. Metal & Metal Products.	178	107	280	168	5.4	4.0	4.1	3.0	63.6	63.7			
3. Chemicals	498	416	639	470	15.2	15.6	9.3	8.4	77.9	88.5			
4. Paper, Newsprints etc.	482	240	729	415	14.7	9.0	10.6	7.5	66.1	57.8			
5. Plastic & its products	225	302	235	315	6.9	11.3	3.4	5.7	95.7	95.9			
6. Machinery/Instruments and Transport equipments.	139	80	236	149	4.2	3.0	3.4	2.7	58.9	53.7			
7. Textiles, cotton, yarn etc.	122	111	125	111	3.7	4.2	1.8	2.0	97.6	100.0			
8. Hair and wool	1	-	1	-	Neg.	-	Neg.	-	100.0	-			
9. Rubber and its products.	73	66	75	67	2.2	2.5	1.1	1.2	97.3	98.5			
10. Oil, fats etc.	91	-	611	-	2.8	-	8.9	-	14.9	-			
11. Woodpulp.	65	53	251	181	2.0	2.0	3.6	3.2	25.9	29.3			
12. Foodgrains & other cereals	304	280	876	841	9.3	10.5	12.8	15.1	34.7	33.3			
13. Industrial alcohols & spirits (non-potable)	-	-	-	-	-	-	-	-	-	-			
14. Drugs & Medicine.	4	3	4	6	0.1	0.1	0.1	0.1	100.0	50.0			
15. Fertilizers	13	-	88	-	0.4	-	1.3	-	14.8	-			
16. Fertilizer Raw Materials	55	-	55	-	3.9	-	0.8	-	100.0	-			
17. Others	834	937	901	1629	25.4	35.1	13.1	29.2	92.6	57.5			
Total Import	3280	2667	6872	5570	100.0	100.0	100.0	100.0	47.7	47.9			

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)										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											
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99										
1	2	3	4	5	6	7	8	9	10	11										
EXPORT																				
1. Textiles, Cotton, Yarn etc.	37	38	37	38	4.9	4.8	4.8	4.7	100.0	100.0										
2. Tea & Coffee	200	228	203	228	26.5	28.5	26.4	28.2	98.5	100.0										
3. Fish, shrimps and other marine products.	92	74	92	74	12.2	9.3	12.0	9.2	100.0	100.0										
4. Spices	49	45	49	45	6.5	5.6	6.4	5.6	100.0	100.0										
5. Cashew kernels	48	50	48	50	6.4	6.2	6.3	6.2	100.0	100.0										
6. Chemicals	23	22	23	22	3.1	2.8	3.0	2.7	100.0	100.0										
7. Coir Products	47	53	47	53	6.2	6.6	6.1	6.6	100.0	100.0										
8. Others.	258	289	269	297	34.2	36.2	35.0	36.8	95.9	97.3										
Total Export	754	799	768	807	100.0	100.0	100.0	100.0	98.2	99.0										

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 : COCHIN

Commodities	General Cargo (000T)						Level of Containerisation	
	Container Cargo		Total General Cargo		% Share of commodities in Total Container Cargo		% of container Cargo to General Cargo	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	Col.2	Col.3
	2	3	4	5	6	7	Col.4	Col.5
1							100	100
							197-98	198-99
							10	11
IMPORT								
1. Iron & Steel, Metal & Metal Products.	88	64	90	96	29.1	12.1	17.0	12.0
2. Chemicals.	14	7	18	8	4.6	1.3	3.4	1.0
3. Paper, Newsprints etc.	10	17	15	18	3.3	3.2	2.8	2.2
4. Machinery	1	4	1	6	0.3	0.8	0.2	0.8
5. Rubber and its products.	11	14	11	14	3.7	2.6	2.1	1.8
6. Cashew nuts	-	101	73	153	-	19.0	13.8	19.1
7. Other	178	324	321	505	59.0	61.0	60.7	63.1
Total Import	302	531	529	800	100.0	100.0	100.0	100.0
							57.1	66.4
							97.8	66.7
							77.8	87.5
							66.7	94.4
							100.0	66.7
							100.0	100.0
							-	66.0
							55.4	64.2
							57.1	66.4

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 com-		% Share of com-		Level of Containerisation	
	Container	Total General	Cargo	Cargo	Cargo	odities in Total	odities in Total	General	Cargo	% of container	Cargo to General Cargo
	Cargo	Cargo	Cargo	Cargo	Cargo	Container	Container	Cargo	Cargo	Col.2	Col.3
1	2	3	4	5	6	7	8	9	10	11	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	
									Col.4	Col.5	
									----- <100	----- <100	

EXPORT

1. Cotton Yarn, etc.	-	-	-	-	-	-	-	-	-	-	-
2. Tea & Coffee	11	-	-	11	-	1.5	0.7	-	100.0	-	-
3. Frozen Cargo	17	12	17	12	17	2.3	1.5	0.9	100.0	100.0	100.0
4. Garnet Sand	39	17	56	17	32	5.3	3.7	1.1	69.6	100.0	100.0
5. Cashew Kernels	39	32	39	32	32	5.2	2.6	2.0	100.0	100.0	100.0
6. Others.	636	724	1388	1505	85.7	92.2	91.9	96.1	45.8	48.1	48.1
Total Export	742	785	1511	1566	100.0	100.0	100.0	100.0	49.1	50.1	

IMPORT

1. Iron & Steel, Metal & Metal Products	-	-	-	-	-	-	-	-	-	-	-
2. Raw Cashew	100	45	182	138	26.7	10.5	23.7	14.7	54.9	32.6	32.6
3. Others	274	383	586	801	73.3	89.5	76.3	85.3	46.8	47.8	47.8
Total Import	374	428	768	939	100.0	100.0	100.0	100.0	48.7	45.6	45.6

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

PORT : CHENNAI

Commodities	General Cargo (000T)										Level of Containerisation	
	Container Cargo		Total General Cargo		% Share of commodities in Total Container Cargo		% Share of commodities in Total General Cargo		% of container Cargo to General Cargo		Col.2	Col.3
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99		
1	2	3	4	5	6	7	8	9	10	11		
EXPORT												
1. Textiles, Cotton Yarn etc.	314	306	316	307	19.0	20.8	13.0	13.6	99.4	99.7		
2. Metal & Metal Products	132	120	144	135	8.0	8.2	5.9	6.0	91.7	88.9		
3. Tea & Coffee	9	21	9	22	0.5	1.4	0.4	1.0	100.0	95.4		
4. Granite blocks & its other materials	326	256	770	689	19.7	17.4	31.7	30.5	42.3	37.2		
5. Fish, shrimps and other marine products	46	46	46	46	2.8	3.1	1.9	2.0	100.0	100.0		
6. Fruits & Vegetables	35	30	48	40	2.1	2.0	2.0	1.8	72.9	75.0		
7. Machinery/ Instruments & Transport equipments	62	54	73	61	3.8	3.7	3.0	2.7	84.9	88.5		
8. Oil seeds, Fats etc.	62	19	69	21	3.8	1.3	2.8	0.9	89.8	90.5		
9. Chemicals	106	90	113	96	6.4	6.1	4.7	4.2	93.8	93.8		
10. Others	559	529	841	844	33.9	36.0	34.6	37.3	66.5	62.7		
Total Export	1651	1471	2429	2261	100.0	100.0	100.0	100.0	68.0	65.1		

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 : CHENNAI

Commodities	General Cargo (000T)					% Share of commodities in Total		% Share of commodities in Total		Level of Containerisation		
	Container Cargo	Total General Cargo				Container Cargo	General Cargo			% of container Cargo to General Cargo		
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	Col.2	Col.3	Col.4	Col.5
	2	3	4	5	6	7	8	9	10	11		
IMPORT												
1. Iron & Steel, Metal & Metal Products	192	195	412	360	14.2	13.2	22.0	17.3	46.6	54.2		
2. Chemicals	186	179	192	191	13.8	12.2	10.2	9.2	96.9	93.7		
3. Paper, Paper products etc.	230	209	257	226	17.0	14.2	13.7	10.8	89.5	92.5		
4. Wheat Flour, other cereals & products	67	86	67	88	5.0	5.8	3.6	4.2	100.0	97.7		
5. Plastic & its products	101	163	102	163	7.5	11.1	5.4	7.8	99.0	100.0		
6. Machinery/Instruments and Transport equipments	88	100	126	149	6.5	6.8	6.7	7.2	69.8	67.1		
7. Textiles, Cotton, Hair and Wool etc.	30	32	30	32	2.2	2.2	1.6	1.5	100.0	100.0		
8. Rubber and its products	41	38	42	39	3.0	2.6	2.3	1.9	97.6	97.4		
9. Wood Pulp	27	37	71	62	2.0	2.5	3.8	3.0	38.0	59.7		
10. Drugs & Medicines	10	10	10	10	0.8	0.7	0.5	0.5	100.0	100.0		
11. Plantation commodities	14	19	14	19	1.0	1.3	0.8	0.9	100.0	100.0		
12. Others	365	403	551	743	27.0	27.4	29.4	35.7	66.2	54.2		
Total Import	1351	1471	1874	2082	100.0	100.0	100.0	100.0	72.1	70.7		

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

PORT : VISAKHAPATNAM

Commodities	General Cargo (000T)					% Share of commodities in Total		% Share of commodities in Total		Level of Containerisation		
	Container Cargo		Total General Cargo		Container Cargo		General Cargo		Cargo to General Cargo			
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	Col.2	Col.3	Col.4	Col.5
	2	3	4	5	6	7	8	9	10	11		
EXPORT												
1. Shrimps/Reefer Cargo	36	35	36	35	37.9	41.7	1.9	2.8	100.0	100.0		
2. Alumina Ingots	29	6	36	31	30.5	7.1	1.9	2.4	80.6	19.4		
3. Others	30	43	1846	1197	31.6	51.2	96.2	94.8	1.6	3.6		
Total Export	95	84	1918	1263	100.0	100.0	100.0	100.0	4.9	6.6		
IMPORT												
Total Import	51	88	298	279	100.0	100.0	100.0	100.0	17.1	31.5		

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

PORT : CALCUTTA

Commodities	General Cargo (000T)										Level of Containerisation			
	Container Cargo		Total General Cargo		% Share of commodities in Total Container Cargo		% Share of commodities in Total General Cargo		% of container Cargo to General Cargo					
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	Col.2	Col.3	Col.4	Col.5		
	-----x100-----x100-----x100-----x100-----													
EXPORT														
1. Tea & Coffee	57	35	57	38	5.1	4.3	3.6	3.4	100.0	92.1				
2. Jute & Jute Products	225	237	270	258	20.2	29.2	16.8	23.1	83.3	91.9				
3. Cast Iron goods	84	86	84	86	7.5	10.6	5.3	7.7	100.0	100.0				
4. Mica	31	13	31	13	2.8	1.6	1.9	1.2	100.0	100.0				
5. Iron & Steel Machinery	184	104	312	131	16.5	12.8	19.5	11.8	59.0	79.4				
6. Others	535	337	848	586	47.9	41.5	52.9	52.8	63.1	57.3				
Total Export	1116	812	1602	1114	100.0	100.0	100.0	100.0	69.7	72.9				
IMPORT														
1. Iron & Steel Machinery	150	131	242	239	14.9	11.3	11.2	10.7	62.0	54.8				
2. Chemicals	129	112	129	112	12.8	9.7	6.0	5.0	100.0	100.0				
3. Others	727	916	1792	1891	72.3	79.0	82.8	84.3	40.6	48.4				
Total Import	1006	1159	2163	2242	100.0	100.0	100.0	100.0	46.5	51.7				

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

PORT : HALDIA

Commodities	General Cargo (000T)											Level of Containerisation	
	Container Cargo		Total General Cargo		% Share of commodities in Total Container Cargo		% Share of commodities in Total General Cargo		% of container Cargo to General Cargo				
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	Col.2	Col.3	
	2	3	4	5	6	7	8	9	10	11	Col.4	Col.5	
EXPORT													
1. Tea & Coffee	41	40	41	40	14.0	10.6	6.8	6.0	100.0	100.0	100.0	100.0	
2. Jute & Jute Products	32	54	32	54	10.9	14.4	5.3	8.1	100.0	100.0	100.0	100.0	
3. Cast Iron goods	54	90	54	90	18.4	23.9	8.9	13.4	100.0	100.0	100.0	100.0	
4. Mica	4	4	10	4	1.4	1.1	1.6	0.6	40.0	40.0	100.0	100.0	
5. Others	162	188	470	481	55.3	50.0	77.4	71.9	34.5	34.5	39.1	39.1	
Total Export	293	376	607	669	100.0	100.0	100.0	100.0	48.3	48.3	56.2	56.2	
IMPORT													
1. Iron & Steel, Metal & Metal Products	-	-	43	1	-	-	18.7	0.3	-	-	-	-	
2. Chemicals	-	-	-	-	-	-	-	-	-	-	-	-	
3. Machinery	1	-	3	-	1.1	-	1.3	-	33.3	33.3	-	-	
4. Others	87	51	184	373	98.9	100.0	80.0	99.7	47.3	47.3	13.7	13.7	
Total Import	88	51	230	374	100.0	100.0	100.0	100.0	38.3	38.3	13.6	13.6	

2.5.10 Inland Container Movement (Major Ports)

Port	Year	Incoming To Port				Outgoing From Port				Total
		By Rail : TEUs	By Road : Tonnes	By Rail : TEUs	By Road : Tonnes	By Rail : TEUs	By Road : Tonnes	By Rail : TEUs	By Road : Tonnes	
Calcutta#	1997-98	-	-	51981	563300	6	72	70279	847644	110051* 1283980*
	1998-99	-	-	-	-	-	-	-	-	1411016
Haldia	1997-98	5928	73967	12766	191761	6374	63502	1968	20607	349837
	1998-99	2428	33700	20460	304763	494	2480	3498	44351	27036 385294
Visakhapatnam#	1997-98	425	2969	1266	8148	247	767	1073	7489	3011 19373
	1998-99	80	160	322	1868	224	608	323	1404	949 4040
Chennai	1997-98	15426	167293	130927	1482136	9419	89524	135549	1260433	291321 2999386
	1998-99	11831	125056	125623	1345499	9421	87250	135587	1383946	282662 2941751
Tuticorin	1997-98	-	-	52676	741607	752	1591	49036	372164	102464 1115362
	1998-99	-	-	51950	784794	-	-	47562	428321	99512 1213115
Cochin	1997-98	12268	146777	50176	607223	592	7696	57594	294304	120630 1056000
	1998-99	10093	107370	55619	691630	788	8452	61570	522548	128070 1330000
Mormugao#	1997-98	-	-	1308	6486	-	-	1330	6032	2638 12518
	1998-99	-	-	1213	5953	-	-	1255	7244	2468 13197
J. L. Nehru#	1997-98	64863	778356	234133	2809596	71812	861744	117912	1088131	488720 5537827
	1998-99	99049	1188588	231643	2779716	104719	1256628	205021	1180752	640432 6405684
Mumbai**#	1997-98	33688	499102	125354	1844768	46788	624710	127899	1657315	333729 4625895
	1998-99	32142	500175	80738	1162670	37130	480645	94858	1201597	244868 3345087
Kandla#	1997-98	1879	15171	1205	6156	1445	11828	1280	14013	5809 47168
	1998-99	2141	18925	1280	7189	3498	15085	1210	10922	8129 52121
Total	1997-98	134477	1683635	609811	7697881	137429	1661362	493641	4720488	1485409 17047346
	1998-99	157764	1973974	621029	7647382	156280	1851220	621163	5628729	1556236 17101305

Source : Major Ports

Note : # Total Inland Container Movement may not tally with total

Container Traffic at port because in some ports stuffing and destuffing is done inside the port area and empty containers are also stacked inside the port premises.

There is negligible container traffic at Paradip Port and no container traffic at New Mangalore Port.

* Break up is not available
** Excludes Tare weight and empties
@ Exclude Tare weight.

2.5.11 Inland Container Depot Movement Of Containers At Major Ports

PORT	1997-98				1998-99				(TEUs)
	Moved in	ICD Moved out	Total	Moved in	Moved out	Total	Moved in	Moved out	
Calcutta	67	87	154	140880	-	14	14	132291	
Haldia	5918	6374	12292	282120	2510	558	3068	27951	
Paradip	-	-	-	-	-	-	-	45	
Visakhapatnam	1691	1350	3041	12764	402	547	949	14307	
Chennai	17210	8153	25363	2925930	14660	7751	22411	283796	
Tuticorin	-	514	514	102464	-	741	741	99512	
Cochin	12268	677	12945	1216490	11627	775	12402	1289120	
New Mangalore	-	-	-	-	-	-	-	-	
Mormugao	8	24	32	3361	29	19	48	4047	
J.L.Nehru	64863	71812	136675	5041490	99187	103821	203008	6691080	
Mumbai	36304	52259	88563	6012890	41495	35828	77323	5093100	
Kandla	2576	2072	4648	84194	2688	4017	6705	63436	
All Ports	140905	143322	284227	1891555	172598	154071	326669	1932715	

Source : Administrative Report
@ Includes transshipment.

2.5.12 Container Handling Rate

Port	Year	Quay Side Gantry Crane		Rail Mounted Gantry Crane		Output per hookshift Tonnes
		Age of Idle time	No of container handled per Worked hr : actual worked hr	Age of Idle time	No of container handled per Worked hr : actual worked hr	
Calcutta	1997-98	-	-	-	-	634
	1998-99	-	-	-	-	646
Haldia	1997-98	-	-	...	4.6	503
	1998-99*	-	-	...	3.1	381
Visakhapatnam	1997-98	-	-	86.9	0.4	175
	1998-99	-	-	97.4	0.3	256
Chennai	1997-98	47.4	9.1	17.3	-	880
	1998-99	35.5	11.0	17.0	-	851
Cochin	1997-98	63.1	5.0	13.5	-	798
	1998-99	63.2	5.8	15.8	-	665
J.L.Nehru	1997-98	27.5	12.2	16.2	5.7	-
	1998-99	24.9	14.5	19.4	7.1	10.4
Mumbai	1997-98	44.4	7.2	13.0	-	455
	1998-99	45.5	6.0	11.0	-	532

Note 1) : Number of Container per worked hour = Total Containers Handled/Total no. of equipment hours worked

2) No. of container per actual worked hour = Total container Handled/

Total No. of equipment hours actually worked (Total No. of equipment hrs. worked - idle time)

3) In case of Haldia & Visakhapatnam handling rate/Hour is given in TEUs.

4) In case of Paradip, Mormugao, Tuticorin and Calcutta the Port does not own

Quayside Gantry Crane or Rail Mounted Gantry Crane.

* Ships Crane

A. T. K. S.

2.5.13 Availability and Utilisation of Container Handling Equipments

PORT	Year	Quay Side Gantry Cranes			R.T. Gantry Crane			Rail Mounted G.Crane		
		No.	% availa- bility	%Utilisation of Available Hrs.	No.	% availa- bility	% Utilisation of Available Hrs.	No.	% availa- bility	% Utilisation of Available Hrs.
Calcutta	1997-98	-	-	-	3	81.2	31.7	25.7	-	-
	1998-99	-	-	-	3	50.4	36.2	18.2	-	-
Haldia	1997-98	-	-	-	-	-	-	-	1	88.2
	1998-99	-	-	-	-	-	-	-	1	92.9
Visakhapatnam	1997-98	-	-	-	-	-	-	-	2	88.4
	1998-99	-	-	-	-	-	-	-	2	91.8
Chennai	1997-98	4	89.2	55.3	49.4	10	88.5	45.9	-	-
	1998-99	4	90.4	65.3	59.0	10	87.3	55.1	-	-
Tuticorin	1997-98	-	-	-	-	-	-	-	-	-
	1998-99	-	-	-	-	-	-	-	-	-
Cochin	1997-98	2	85.0	36.9	31.4	3	68.0	32.4	-	-
	1998-99	2	93.6	36.8	34.4	4	59.3	30.0	-	-
J.L.Nehru	1997-98	3+3	91.2	42.0	38.4	8+6	87.5	47.9	41.8	1+2
	1998-99	3+3	78.8	61.4	48.4	8+6	70.1	70.9	49.7	1+2
Mumbai	1997-98	2	76.1	44.7	34.0	3	80.6	39.2	31.6	-
	1998-99	2	85.9	26.8	23.0	3	81.0	22.8	18.5	-

Note : (1) Possible hours are the maximum hours for which the equipment is available.

(No. of equipments x no of days x 24)

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

(2) % Availability = (Total Available Hours/Total Possible Hours) x 100

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

(4) + Hired equipments.

2.5.13 Availability And Utilisation Of Container Handling Equipments (Contd.)

PORT	Year	Tractor				Top Lift Trucks			
		No.	% availa- bility	%Utilisation of Available	No. % availa- bility	%Utilisation of Available	No.	% availa- bility	%Utilisation of Available
				Hrs.		Hrs.			Hrs.
Calcutta	1997-98	17	88.3	53.8	47.5	34*	41.4	46.8	19.3
	1998-99	21	90.5	44.7	40.4	1	37.8	9.6	3.6
Haldia	1997-98	5	78.1	44.9	35.1	1	88.8	61.0	54.2
	1998-99	5	74.5	35.8	26.7	1	81.6	55.0	44.9
Visakhapatnam	1997-98	4*	70.2	1.9	1.3	2	84.7	8.5	7.2
	1998-99	3*	65.3	1.6	1.0	1	95.6	7.8	7.5
Chennai	1997-98	30	63.7	52.8	33.7	98	86.3	28.8	24.8
	1998-99	40	94.9	39.0	37.0	98	88.2	32.6	28.8
Tuticorin	1997-98	-	-	-	-	5	81.5	32.0	26.1
	1998-99	-	-	-	-	5	82.4	29.3	24.1
Cochin	1997-98	19	74.9	40.0	30.0	3	70.4	34.6	24.4
	1998-99	33	96.9	39.0	37.8	3	70.2	42.3	29.7
J.L.Nehru	1997-98	19+19	75.4	59.6	45.0	-	-	-	-
	1998-99	19+38	53.2	81.1	43.1	-	-	-	-
Mumbai	1997-98	-	-	-	-	48	61.1	51.7	31.6
	1998-99	-	-	-	-	48	76.0	44.2	33.6

* Figures relates to Fork Lift Trucks.

@ Includes 3 Nos. Reach Trucks

\$ Reach stackers

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

Note: There is negligible Container Traffic at Paradip and no traffic at New Mangalore, Mormugao and Kandla do not own any Container handling equipment.

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

PORT	1991		1992		1993		1994		1995		1996		1997		1998		1999	
	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU	RANK	TEU
HONG KONG	2	6162	1	7972	1	9204	1	11050	1	12529	1	13280	1	14567	2	14582	1	16100*
SINGAPORE	1	6354	2	7560	2	9046	2	10400	2	11830	2	12950	2	14135	1	15100	2	15900
KANSUING	3	3913	4	3961	3	4636	3	4900	3	5053	3	5063	3	5693	3	6271	3	6985
ROTTERDAM	4	3766	3	4123	4	4161	4	4539	4	4789	4	5000	4	5495	4	6010	5	6400
BUSAN	5	2694	5	2751	5	3071	5	3825	5	4503	5	4684	5	5234	5	5946	4	6440
KOBE	6	2635	6	2608	6	2696	6	2787	6	2844	6	2855	6	2857	6	2857	18	2200*
HAMBURG	7	2189	8	2268	7	2486	7	2727	7	2844	7	3065	7	3337	7	3550	9	3750
LOS ANGELES	8	2038	7	2289	8	2376	8	2574	8	2740	8	2855	8	2960	8	3378	8	3829
LONG BEACH	13	1768	13	1829	10	2079	10	2317	9	2519	9	2683	9	2960	9	3378	8	3829
NEW YORK/NEW JERSEY	10	1865	9	2104	11	1973	13	2034	11	2219	13	2215	12	2457	13	2466	11	2863*
YOKOHAMA	11	1796	11	1887	9	2168	10	2317	8	2757	10	2400	13	2348	16	2091	18	2200*
KEELUNG	9	2005	10	1941	13	1856	12	2047	12	2165	14	2109	18	1981	-	-	-	-
ANTWERP	14	1761	12	1836	12	1876	11	2208	10	2340	9	2654	8	2969	9	3266	10	3614
SAN JUAN	15	1584	15	1577	16	1555	16	1598	17	1600	19	1641	19	1781	17	1990	-	-
DUBAI	18	1255	17	1482	14	1679	14	1882	13	2070	12	2247	10	2600	11	2804	12	2845
FELIXSTOWE	16	1434	16	1543	15	1639	15	1747	14	1924	15	2065	15	2251	12	2524	13	2700*
TOKYO	12	1784	14	1729	17	1538	17	1509	15	2178	11	2306	14	2322	14	2169	13	2700*
BREHEN	17	1277	18	1315	18	1355	18	1502	18	1532	-	-	-	-	-	-	20	2181
OAKLAND	19	1195	20	1287	19	1305	20	1491	19	1528	-	-	-	-	-	-	-	-
BANGKOK	20	1171	19	1303	20	1274	-	-	-	-	-	-	-	-	-	-	-	-
SEATTLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANILA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHANGHAI	-	-	-	-	-	-	19	1501	16	1691	18	1913	16	2121	-	-	-	-
TANJUNG PRIOK	-	-	-	-	-	-	-	-	20	1527	17	1930	11	2520	10	3066	7	4210
GIOIA TAURO	-	-	-	-	-	-	-	-	22	1520	20	1590	18	1909	19	1898	16	2273
ALGECIRAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	2126	17	2253
PORT KLANG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	1832	-	-
TOTAL : TOP 20	-	48646	-	53365	-	57973	-	65157	-	70179	-	74919	-	83832	-	87068	15	2550
GLOBAL	-	93646	-	102906	-	112430	-	124840	-	134460	-	143530	-	160610	-	171520	-	94401
PERCENT SHARE: TOP 20	-	51.95	-	51.86	-	51.56	-	52.19	-	52.19	-	52.20	-	52.20	-	50.76	-	47.96

* Estimates

2.5.15 Total Containers Handled By CONCOR

(TEUs)

REGION	Year	INTERNATIONAL				DOMESTIC				TOTAL HANDLING
		LOD	OUTWARD	KEY	TOTAL	LOD	INWARD	KEY	TOTAL	
NORTHERN	1998-99	112828	7736	120564	87896	39765	127661	248225	84644	332944
	1999-2000	126890	13083	139973	122564	33339	155903	295876	92496	388400
WESTERN	1998-99	48412	50118	98530	39564	49944	89508	188038	47454	235492
	1999-2000	53179	47396	100574	48647	50020	98667	199241	43699	242960
SOUTHERN	1998-99	31231	17315	48546	31011	22684	53695	102241	30237	132538
	1999-2000	39958	19845	59803	33134	27797	60931	120734	46962	167722
SOUTHCENTRAL	1998-99	5092	509	5601	2308	3543	5851	11452	6238	17690
	1999-2000	6173	1078	7251	3425	3865	7290	14541	7594	22138
EASTERN	1998-99	2801	2995	5796	2493	3715	6208	12004	35811	48108
	1999-2000	2780	3719	6499	2637	3794	6431	12930	43847	56777
CENTRAL	1998-99	3889	3784	7673	5965	1192	7157	14830	19968	35174
	1999-2000	8985	1664	10649	7452	3067	10519	21168	3986	25154
ALL REGION	1998-99	204253	82457	286710	169237	120843	290080	576790	224352	801946
	1999-2000	237965	86784	324749	217859	121882	339741	664490	238584	903151

MTY : Empty
 LDD : Loaded
 ISO : International Standard Organisation.
 IRS : Indian Railways Standard.
 Source : Container Corporation Of India

2.6.1 Selected Major Port Performance Indicators - By Type Of Vessels

Item/Year	Category of Vessels				
	Dry-Bulk (Mech.)	Dry-Bulk (Conv.)	Liquid Bulk	Break- Bulk	Container vessels
(1)	(2)	(3)	(4)	(5)	(6)
All Types					
(7)					
1. No. of vessels sailed					
1997-98	1197	2052	5276	2602	2991
1998-99	996	2047	5623	2678	3233
2. Av. pre-berthing waiting time(days)					
1997-98	2.0	3.3	2.2	3.4	1.2
1998-99	1.6	2.5	2.0	2.7	1.3
3. Av. turn round time (days)					
1997-98	6.1	10.5	4.1	10.5	3.9
1998-99	5.3	9.3	4.1	9.2	3.4
4. Percentage of idle time at berth to time at working berth					
1997-98	31	29	34	43	32
1998-99	33	30	30	39	28
5. Output per ship berth day (tonnes)					
1997-98	12275	3245	12772	919	3156
1998-99	13346	3798	11619	949	3612
					4912
					5167

Source:- Major Ports.

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

2.6.2 Selected Major Port Performance Indicators - By Port

Item	Kandla	Mumbai	Korai- gao	New Man- galore	Cochin	Tutli- corin	Chennai	Visakha- patnam	Paradip	Haldia	Cal- outta	J.L. Nehru	All Ports
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1. No. of vessels sailed													
1997-98	1685	2385	561	729	872	984	1771	1529	643	1275	1009	634	14077
1998-99	1708	2375	463	724	969	1073	1761	1482	678	1291	1041	955	14540
2. Av. pre-berthing waiting time(days)													
1997-98	5.2	3.0	1.9	1.1	1.1	1.7	2.9	2.0	1.7	2.0	1.1	1.7	2.3
1998-99	4.5	2.1	1.4	0.9	0.9	1.6	3.4	1.6	1.2	1.3	1.0	1.4	2.0
3. Av. turn round time (days)													
1997-98	8.4	8.5	5.6	4.1	3.9	5.2	6.5	6.0	5.1	5.3	7.4	5.6	6.3
1998-99	8.3	7.0	4.8	3.7	3.4	4.9	7.0	5.3	4.1	4.7	6.7	3.8	5.7
4. % of idle time at berth to time at working berth													
1997-98	17	35	24	48	42	40	37	24	30	46	48	10	35
1998-99	22	32	23	46	36	41	38	29	25	44	44	9	34
5. Output per ship berth day (tonnes)													
1997-98	7346	2746	10446	7248	5253	2970	5694	6383	6252	5590	1325	3737	4912
1998-99	8778	2940	11076	7507	5651	2984	5762	7057	7012	5282	1697	6957	5167

2.6.3 Number of Vessels Sailed by Type and Major Port.

Port	Container		Break Bulk		Dry Bulk		(Conv. Operation)		Liquid Bulk		All Types	
	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99
Calcutta	336	310	268	277	-	-	13	17	393	438	1009<a	1041<a
Haldia	234	268	74	108	233	209	166	138	597	598	1275<d	1291<e
Paradip	-	1	2	4	97	77	319	310	225	286	643	678
Visakhapatnam	68	93	236	207	149	113	458	487	618	582	1529	1482
Chennai	438	422	324*	324**	73	67	469	467	467	481	1771	1761
Tuticorin	238	266	287	369	196	166	117	136	146	136	984	1073
Cochin	314	377	120	141	17	19	38	34	383	398	872	969
New Mangalore	-	-	157	150	145	121	39	31	388	422	729	724
Mormugao	29	31	188	35	2428	185+	888	83	195	155	561	483
J.L.Nehru	422	656	69<b	67<c	33	38	24<g	34	86	160	634	955
Mumbai	779	696	717	655	-	-	112	102	777	922	2385	2375
Kandla	133	113	330	341	12	1	209	208	1001	1045	1685	1708
All Ports	2991	3233	2602	2678	1197	996	2052	2047	5276	5623	14077	14540

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

<b 68 Vehicles Carrier. <c Includes 60 Ro-Ro Vessels

<d 29 Dry bulk vessels worked both in Mechanical and Conventional methods.

<e 25 Dry bulk vessels worked both in Mechanical and Conventional method.

5 vessels carried both Dry bulk and Break bulk cargo.

<g Includes 4 other vessels

*Includes 16 lash vessels also. + six vessels are double counted.

** Includes 15 lash vessels also.

@ 11 vessels are double counted i.e. 9 for Dry Bulk Conventional/Mechanical and 2 for Dry Bulk Conventional/Break Bulk.

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

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

Port	Container		Break Bulk		Dry Bulk (Mech.)		Dry Bulk (conv.)		Liquid Bulk		All Types	
	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99
Calcutta	0.6	0.8	1.2	1.1	-	-	1.6	1.1	1.5	1.2	1.1	1.0
Haldia	0.1	0.1	3.1	2.9	1.1	0.7	3.1	2.2	2.4	1.5	2.0	1.3
Paradip	-	0.1	0.1	3.5	1.3	0.6	1.0	0.6	2.8	2.0	1.7	1.2
Visakhapatnam	1.4	0.7	2.9	2.0	2.4	2.2	3.3	1.8	0.7	1.3	2.0	1.6
Chennai	1.4	3.8	2.0	1.7	2.6	2.8	3.7	3.7	4.2	4.2	2.9	3.4
Tuticorin	0.7	0.6	3.0	2.4	1.2	1.7	2.3	2.0	1.0	1.1	1.7	1.6
Cochin	0.5	0.7	0.4	0.4	0.7	0.5	0.6	0.4	1.8	1.3	1.1	0.9
New Mangalore	-	-	0.6	0.7	1.4	1.1	1.1	1.2	1.2	0.9	1.1	0.9
Mormugao	0.1	0.1	1.7	0.6	3.4	2.4	0.7	0.8	0.7	0.8	1.9	1.4
J.L.Nehru	1.0	1.0	0.69	0.89	6.3	3.39	0.8	-	0.6	2.5	1.7	1.4
Mumbai *	1.9	1.3	3.8	2.6	-	-	8.0	4.5	2.7	2.1	3.0	2.1
Kandla	2.5	2.6	10.0	8.4	2.0	1.8	6.5	5.3	3.2	3.3	5.2	4.5
All Ports	1.2	1.3	3.4	2.7	2.0	1.6	3.3	2.5	2.2	2.0	2.3	2.0

* Vehicles Carrier. * Excludes stream vessels.

\$ Includes Conventional also.

2.6.5 - Average Pre-berthing Delay - Reason-Wise - 1998-99 (Major Ports)

Sl. No.	Category Of Ships	No. Of	Reason-wise average pre-berthing delay (in days)									
			Ships	Non-avail. Of Berth	Non-avail. Of Tug/Craft	Non-avail. Of Pilot	Night Navigation Restriction	Draft Restriction	Shippers/ Ships/ Agents Options	Others	Lack Of Cargo	Total
Calcutta												
1.	Container	310	-	-	Neg	0.04	-	-	0.35	0.38	-	0.77
2.	Break Bulk	277	0.03	0.01	0.01	0.24	-	-	0.24	0.58	-	1.10
3.	Dry Bulk	17	-	-	-	-	-	-	0.60	0.49	-	1.09
4.	Liquid Bulk	438	0.02	-	-	0.02	0.29+	-	0.28	0.58	-	1.19
	Total	1041*	0.02	-	Neg	0.08	0.12+	-	0.30	0.52	-	1.04
Haldia												
1.	Container	268	0.08	-	-	-	-	-	-	0.01	-	0.09
2.	Break Bulk	108	1.40	-	-	0.05	0.01	-	1.18	0.24	-	2.88
3.	Dry Bulk (M) (C)	209	0.42	-	-	0.04	-	-	-	0.27	-	0.73
	(C)	138	1.82	-	-	0.02	-	-	0.21	0.19	-	2.24
4.	Liquid Bulk	598	0.09	-	-	Neg	-	-	1.21	0.21	-	1.51
	Total	1291**	0.44	-	-	0.02	Neg	-	0.68	0.18	-	1.32
New Mangalore												
1.	Container	-	-	-	-	-	-	-	-	-	-	-
2.	Break Bulk	150	0.22	-	-	-	-	-	0.35	0.14	-	0.71
3.	Dry Bulk	152	0.19	-	-	-	-	-	0.78	0.13	-	1.10
4.	Liquid Bulk	422	0.50	-	-	-	-	-	0.35	0.08	-	0.93
	Total	724	0.38	-	-	-	-	-	0.44	0.10	-	0.92

* Vessel with dry bulk as import cargo and break bulk as export cargo have been counted once.

** 25 dry bulk vessels worked both in mechanical and conventional method. 5 vessels carried both Dry Bulk and Break Bulk cargo.

+ Operational/Navigation reasons.

2.6.5 - Average Pre-berthing Delay - Reason-Wise - 1998-99 (Major Ports) (Contd.)

Sl. No.	Category Of Ships	No. Of Ships	Non-avail. of Berth	Non-avail. of Tug/Craft	Reason-wise average pre-berthing delay (in days)							Total
					Non-avail. of Pilot	Night Navigation	Draft Restriction	Shippers/ Agents Option	Others	Lack Of Cargo		
Paradip												
1.	Container	1	-	-	-	0.12	-	-	-	-	-	0.12
2.	Break Bulk	4	0.54	-	-	-	-	2.96	0.02	-	-	3.52
3.	Dry Bulk (M)	77	0.32	-	-	0.06	-	0.09	0.09	-	-	0.56
	(C)	310	0.23	-	-	0.11	-	0.17	0.11	-	-	0.62
4.	Liquid Bulk	286	0.23	-	-	0.04	-	1.68	0.02	-	-	1.97
Total		678	0.24	-	-	0.07	-	neg	0.81	0.08	-	1.20
Mumbai												
1.	Container	696	0.39	-	-	-	-	0.90	0.02	-	-	1.31
2.	Break Bulk	655	0.63	-	-	-	-	1.95	0.02	-	-	2.60
3.	Dry Bulk	102	1.21	-	-	-	-	3.23	0.03	-	-	4.47
4.	Liquid Bulk	922	0.71	-	-	-	-	1.39	0.02	-	-	2.12
Total		2375	0.61	-	-	-	-	1.46	0.02	-	-	2.11
Chennai												
1.	Container	422	2.43	-	0.02	0.03	-	0.48	0.91	-	-	3.77
2.	Break Bulk	324	0.91	-	Neg.	0.03	-	0.45	0.30	-	-	1.69
3.	Dry Bulk (M)	67	1.74	-	-	0.05	-	0.54	0.50	-	-	2.83
	(C)	467	1.97	-	0.01	0.06	-	0.80	0.86	-	-	3.70
4.	Liquid Bulk	481	0.42	-	Neg.	0.05	-	3.30	0.47	-	-	4.24
Total		1761	1.46	-	0.01	0.04	-	1.34	0.60	-	-	3.45

2.6.5 - Average Pre-berthing Delay - Reason-Wise - 1998-99 (Major Ports) (Contd.)

Sl. No.	Category Of Ships	No. Of Ships	Reason-wise average pre-berthing delay (in days)							
			Non-avail. Of Berth	Non-avail. Of Tug/Craft	Non-avail. Of Pilot	Night Navigation Restriction	Draft Agents Option	Others Lack Of Cargo	Total	
Cochin										
1.	Container	377	0.02	-	-	-	0.56	0.10	-	0.68
2.	Break Bulk	141	Neg	-	-	-	0.36	0.06	-	0.42
3	Dry Bulk (M)	19	-	-	-	-	0.42	0.05	-	0.47
	(C)	34	-	-	-	-	0.35	0.09	-	0.44
4	Liquid Bulk	398	0.44	-	-	-	0.76	0.07	-	1.27
	Total	969	0.19	-	-	-	0.60	0.08	-	0.87
Tuticorin										
1.	Container	266	0.29	-	-	0.01	0.21	0.04	-	0.55
2.	Break Bulk	369	1.19	-	-	Neg	1.16	0.02	-	2.37
3.	Dry Bulk (M)	166	1.64	-	-	Neg	0.01	0.02	-	1.67
	(C)	136	1.85	-	-	-	0.10	0.02	-	1.97
4.	Liquid Bulk	136	0.50	-	0.06	-	0.46	0.09	-	1.11
	Total	1073	1.03	-	0.01	Neg	0.52	0.04	-	1.60
Mormugao										
1.	Container	31	0.01	-	-	-	0.04	-	-	0.13
2.	Break Bulk	35	0.47	-	-	0.08	0.06	-	-	0.60
3.	Dry Bulk (M)	1850	0.66	-	-	0.02	0.47	-	1.29	2.44
	(C)	830	0.42	-	-	0.05	0.31	-	0.02	0.80
4.	Liquid Bulk	155	0.18	-	-	0.04	0.25	0.37	-	0.84
	Total	483	0.42	-	0.04	-	0.32	0.12	0.50	1.40
6 vessels are double counted i.e. for Dry Bulk conventional / Dry Bulk Mechanical.										

0 6 vessels are double counted i.e. for Dry Bulk conventional / Dry Bulk Mechanical.

2.6.5 - Average Pre-berthing Delay - Reason-Wise - 1998-99 (Major Ports) (Contd.)

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	Shippers/ Ships/ Agents Option	Others Lack Of Cargo	
Visakhapatnam										
1.	Container	93	0.35	-	-	-	-	0.19	0.16	0.72
2.	Break Bulk	207	0.77	-	Neg	-	-	0.96	0.27	2.00
3.	Dry Bulk(M)	113	0.66	-	-	Neg	0.01	1.19	0.31	2.17
	(C)	487	1.02	-	Neg	0.03	0.02	0.56	0.16	1.79
4.	Liquid Bulk	582	0.15	Neg	Neg	0.03	Neg.	0.84	0.30	1.32
Total		1482	0.57	Neg	Neg	0.02	0.01	0.75	0.24	1.59
Kandla										
1.	Container	113	0.60	-	-	0.54	0.22	1.10	0.11	2.65
2.	Break Bulk	341	2.17	-	0.02	0.46	0.52	4.75	0.49	8.41
3.	Dry Bulk(M)	1	-	-	-	-	-	1.79	-	1.79
	(C)	208	1.95	-	0.04	0.36	0.26	2.06	0.62	5.29
4.	Liquid Bulk	1045	0.45	-	0.05	0.14	0.08	2.49	0.06	3.27
Total		1708	0.98	-	0.04	0.26	0.20	2.79	0.22	4.50
J.L.Nehru										
1.	Container	656	0.39	-	-	-	0.01	0.59	0.02	1.01
2.	Break Bulk	67+	0.37	-	-	-	0.03	0.44	-	0.84
3.	Dry Bulk	72	1.05	-	-	-	0.05	2.16	0.02	3.28
4.	Liquid Bulk	160	0.85	-	-	-	0.02	1.60	0.01	2.48
Total		955	0.52	-	-	-	0.02	0.86	0.01	1.41

60 Ro-Ro vessels

+ 60 Ro-Ro vessels

(M) = Mechanical (C) = Conventional

2.6.6 Average Turn Round Time - By Type Of Vessels And Major Port. (In Days)

Port	Container		Break Bulk		Dry Bulk (Mech.)		Dry Bulk (conv.)		Liquid Bulk		All Types	
	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99
Calcutta	4.5	4.3	14.4	11.8	-	-	17.2	14.8	4.7	4.5	7.4	6.7
Haldia	1.6	1.5	13.1	14.4	4.7	4.2	11.3	10.5	4.0	3.1	5.3	4.7
Paradip	-	0.6	1.4	18.7	5.6	4.5	5.6	4.4	4.3	3.5	5.1	4.1
Vizakhapatnam	2.3	2.1	8.3	6.6	7.6	7.5	9.8	7.4	2.3	3.1	6.0	5.3
Chennai	3.8	6.1	6.8	6.6	5.2	5.1	9.7	9.2	5.9	6.3	6.5	7.0
Tuticorin	3.1	2.6	7.2	5.9	4.2	5.1	9.2	8.2	2.6	3.0	5.2	4.9
Cochin	2.3	2.2	4.1	4.1	13.2	10.0	14.2	13.4	3.8	3.1	3.9	3.4
New Mangalore	-	-	5.6	5.9	3.0	2.8	17.2	15.1	2.5	2.4	4.1	3.7
Mormugao	0.8	0.9	7.2	5.0	7.6	6.2	8.6	7.7	2.0	2.2	5.6	4.8
J.L.Nehru	2.6	1.5	1.18	1.48	18.5	9.2	6.9	6.1	2.3	3.2	5.6	3.8
Mumbai	5.9	4.8	12.4	10.4	-	-	24.2	23.6	5.3	4.4	9.5	7.0
Kandla	5.3	5.6	17.5	16.3	14.9	9.7	13.2	13.6	4.5	5.4	8.4	8.3
All Ports	3.9	3.4	10.5	9.2	6.1	5.3	10.5	9.3	4.1	4.1	6.3	5.7

3 Ro- Ro Vessels.

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

Port	Container 97-98	Container 98-99	Break 97-98	Bulk 98-99	Dry Bulk (Mech.) 97-98	Dry Bulk (Mech.) 98-99	Dry Bulk (conv.) 97-98	Dry Bulk (conv.) 98-99	Liquid 97-98	Bulk 98-99	All 97-98	All Types 98-99
Calcutta	29	34	53	48	-	-	40	28	51	50	48	44
Haldia	48	45	48	46	60	60	39	35	42	37	46	44
Paradip	-	22	18	33	33	46	29	22	...	...	30	25
Visakhapatnam	20	38	20	26	33	38	21	24	29	38	24	29
Chennai	45	42	48	49	36	42	31	32	28	32	37	38
Tuticorin	41	42	48	48	19	21	45	44	32	31	40	41
Cochin	52	25	55	47	51	50	32	44	30	29	42	36
New Mangalore	-	-	57	58	36	37	52	52	31	27	48	46
Mormugao	26	12	12	17	24	26	19	19	40	32	24	23
J.L.Nehru	9	10	-	-	5	5	8	6	...	9	10	9
Mumbai*	28	22	39	38	-	-	31	31	35	32	35	32
Kandla	18	16	16	13	10	17	11	14	31	33	17	22
All Ports	32	28	43	39	31	33	29	30	34	35	35	34

* Excludes stream vessels.

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

Port	Container		Break Bulk		Dry Bulk (Mech.)		Dry Bulk (conv.)		Liquid Bulk		All Types	
	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99	97-98	98-99
Calcutta	2316	2089	385	395	-	-	555	592	3992	4949	1325	1697
Haldia	1499	1631	659	510	8579	9169	2496	2678	15451	16583	5590	5282
Paradip	-	1878	239	335	9578	9730	5143	6612	7512	6937	6252	7012
Visakhapatnam	1464	1439	1697	1688	12035	13025	4741	5269	13419	14103	6383	7057
Chennai	2899	3066	911	930	32634	36135	4541	5461	15632	12093	5694	5762
Tuticorin	2045	2367	897	965	8374	8303	2053	2437	4732	4698	2970	2984
Cochin	2026	2650	564	628	1347	2016	1017	1451	14831	15085	5253	5651
New Mangalore	-	-	816	747	29400	27411	1311	1522	15432	14421	7248	7507
Mormugao	1517	1727	1292	2977	18295	21344	2174	2869	5806	6351	10446	11076
J.L.Nehru	6587	10907	13840	13410	3068	3500	5415	4257	5840	4283	3737	6957
Mumbai*	2731	2983	664	894	-	-	759	852	10557	9431	2746	2940
Kandla*	3714	3366	1616	2090	3068	3030	1954	3085	17642	18129	7346	8778
All Ports	3156	3612	919	949	12275	13346	3245	3798	12772	11619	4912	5167

* Ro-Ro Vessels.

* Excludes stream vessels.

2.6.9 Average Berth Occupancy At Major Ports

(Percentage)

Port	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10	11
KANDLA	86.0	88.5	89.8	89.1	90.5	93.8	92.8	93.6	97.7	93.1
MUMBAI	81.6	77.0	62.6	71.2	72.4	78.4	81.6	77.7	78.7	68.1
J.L. NEHRU	...	...	...	65.8	71.7	80.5	78.8	70.0	53.6	59.8
MORMUGAO	69.0	66.0	67.0	83.8	80.7	70.6	55.7	59.6	74.3	78.3
NEW MANGALORE	69.0	55.9	57.3	64.9	49.6	52.9	49.3	45.5	59.4	56.2
COCHIN	52.3	49.7	45.3	53.2	49.7	50.8	51.7	48.0	55.5	58.4
TUTICORIN	73.3	72.6	76.1	84.5	25.1	84.9	86.2	83.0	85.5	85.2
CHENNAI	86.2	86.6	79.0	78.8	80.4	81.0	84.2	83.3	83.8	81.2
VISAKHAPATNAM	63.3	77.9	81.9	91.0	87.5	92.7	81.3	77.5	85.1	79.2
PARADIP	70.2	68.5	60.6	68.6	69.9	78.6	85.0	65.0	65.5	66.8
HALDIA	67.4	69.1	63.2	73.5	63.7	77.1	77.0	75.8	82.6	81.1
CALCUTTA	59.9	56.9	53.8	52.3	48.5	53.9	52.5	53.8	57.8	48.4

2.6.10 Utilisation Of Cargo Handling Equipment

Port/Year	Mechanised		Utilisation of General Cargo handling			
	: System	: Equipment (Average no. of hours worked per month per equipment.)	: Elect. Wharf Cranes	: Mobile Cranes	: Fork Lifts	
	Tonnes per worked day	Commodity	3-10 Tonnes	Above 10 Tonnes		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
KANDLA						
Norms (1983)	2300	Fertiliser	300	300	250	300
Performance						
1990-91	1538	"	226	-	8	220
1991-92	1415	"	217	-	21	196
1992-93	1785	"	159	-	5	156
1993-94	1937	"	256	-	5	253
1994-95	2021	"	273	-	3	176
1995-96	1916	"	294	-	4	219
1996-97	2408	"	296	-	2	196
1997-98	2063	"	305	-	-	232
1998-99	3057	"	294	-	-	211
1999-2000	-	"	313	-	-	264
MUMBAI						
Norms (1983)	-	-	300	300	250	300
Performance						
1990-91	-	-	164	68	153	191
1991-92	-	-	126	79	124	178
1992-93	-	-	156	110	163	220
1993-94	-	-	177	124	164	213
1994-95	-	-	194	114	169	159
1995-96	-	-	221	117	140	145
1996-97	-	-	205	124	137	147
1997-98	-	-	211	118	142	158
1998-99	-	-	249	131	136	156
1999-2000	-	-	133	84	79	122

2.6.10 Utilisation Of Cargo Handling Equipment (Contd..)

Port/Year	Mechanised System		Utilisation of General Cargo handling Equipment (Average no. of hours worked per month per equipment.)			
	Tonnes per worked day	Commo-dity	Elect. Wharf Cranes 3-10 Tonnes	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						
1990-91	43544	"	93	-	51	50
1991-92	53133	"	174	-	69	33
1992-93	47647	"	280	-	86	82
1993-94	47939	"	246	-	108	114
1994-95	37992	"	140	-	128	111
1995-96	45759	"	108	-	44	182
1996-97	39401	"	64	-	35	202
1997-98	43356	"	88	-	32	244
1998-99	40525	"	50	-	29	163
1999-2000	50038	"	38	-	20	135
NEW MANGALORE						
Norms (1983)	29700	"	300	300	250	300
Performance						
1990-91	24774	"	18	-	22	28
1991-92	24909	"	31	-	20	23
1992-93	26035	"	23	-	24	22
1993-94	27195	"	19	-	21	30
1994-95	21479	"	48	-	14	48
1995-96	25371	"	13	-	14	36
1996-97	26378	"	7	-	7	32
1997-98	32360	"	10	-	9	42
1998-99	32875	"	8	-	10	31
1999-2000	32444	"	21	-	12	45

2.6.10 Utilisation Of Cargo Handling Equipment (Contd...)

Port/Year	Mechanised System		Utilisation of General Cargo handling Equipment (Average no. of hours worked per month per equipment.)				Fork Lifts	
	Tonnes per worked day	Commodity	Elect. Wharf Cranes : 3-10 Tonnes	Wharf Cranes : Above 10 Tonnes	Mobile Cranes			
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
COCHIN								
Norms (1983) Performance	-	-	200	200	167	200		
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		
1998-99	-	-	79	-	26	77		
1999-2000	-	-	77	-	13	58		
TUTICORIN								
Norms (1983) Performance	-	-	300	300	250	300		
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		
1998-99	-	-	115	-	39	43		
1999-2000	-	-	92	-	40	-		

2.6.10 Utilisation of Cargo Handling Equipment (Contd..)

Port/Year	Mechanised : System	Commo- : dity	Utilisation of General Cargo handling : Equipment (Average no. of hours : worked per month per equipment.)				Mobile : Cranes	Fork : Lifts
	: Tonnes : per : worked : day		: 3-10 : Tonnes	: Above 10 : Tonnes	: Tonnes	: Tonnes		
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
CHENNAI								
Norms (1983)	\$ 37000	Iron Ore	300	300	250	300		
Performance								
1990-91	46299	"	404	358	350	309		
1991-92	44115	"	277	269	254	270		
1992-93	40942	"	250	243	241	238		
1993-94	25530	"	246	214	223	224		
1994-95	45605	"	222	231	206	214		
1995-96	44511	"	205	191	248	221		
1996-97	43212	"	173	133	275	221		
1997-98	42183	"	133	202	173	211		
1998-99	39368	"	206	195	319	195		
1999-2000	37834	"	185	216	192	186		
VISAKHAPATNAM								
Norms (1983)	50000	Iron Ore	300	300	250	300		
Performance								
1990-91	33515	"	168	-	146	130		
1991-92	28964	"	187	-	85	134		
1992-93	26790	"	313	-	107	233		
1993-94	39798	"	291	50	101	158		
1994-95	40765	"	268	87	141	201		
1995-96	31362	"	332	73	156	177		
1996-97	33328	"	224	66	142	147		
1997-98	25551	"	310	77	123	175		
1998-99	30344	"	283	67	98	158		
1999-2000	44491	"	235	-	89	152		

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

2.6.10 Utilisation Of Cargo Handling Equipment (Contd..)

Port/Year	Mechanised System		Utilisation of General Cargo handling Equipment (Average no. of hours worked per month per equipment.)				Fork Lifts	
	Tonnes per worked day	Commo-duty	Elect. Wharf Cranes	Mobile Cranes	Above 10 Tonnes			
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
PARADIP								
Norms (1983)	18700	Iron Ore	300	300	250	300		
Performance								
1990-91	20129	"	+	221	80	71		
1991-92	16728	"	+	276	127	137		
1992-93	21308	"	+	152	76	66		
1993-94	21029	"	+	154	44	76		
1994-95	23303	"	+	162	40	50		
1995-96	20331	"	+	165	59	46		
1996-97	20743	"	+	145	58	70		
1997-98	17968	"	+	170	41	29		
1998-99	20369	"	+	93	28	37		
1999-2000	20424	"	+	135	69	25		
CALCUTTA								
Norms (1983)			300	300	250	300		
Performance								
1990-91	-	-	1700	260	234	307		
1991-92	-	-	1610	245	219	259		
1992-93	-	-	1680	259	194	257		
1993-94	-	-	1250	255	174	197		
1994-95	-	-	1230	266	167	218		
1995-96	-	-	1040	267	132	175		
1996-97	-	-	830	293	123	158		
1997-98	-	-	800	195	136	141		
1998-99	-	-	990	247	153	168		
1999-2000	-	-	470	226	264	311		

* There are no 3-10 tonnes crane
 & 2-10 tonnes
 Source : Major Ports

2.7.1 Employment At Ports - Portwise As On 31st December

(In Numbers)

PORT	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1	2	3	4	5	6	7	8	9	10	11	12	13
Kandla	4537	4633	4603	4976	4927	4677	4740	4451	4107	4486	3860	4128
Mumbai	30987	30319	29349	28199	27327	25063	346960	328930	327890	321270	314160	310330
J.L.Nehru	-	-	1137	1187	1386	1507	1513	1549	1539	1550	1540	1557
Mormugao	3683	3646	3614	3582	3668	3257	3612	3607	3588	3535	42900	42810
New Mangalore	1314	1312	1328	1330	1337	2401	2311	2303	2275	2258	2293	2289
Cochin	5967	5868	5781	5533	5546	5546	5502	4872	4985	5021	53320	52130
Tuticorin	2286	2284	2270	2268	2250	2054	1998	2152	1941	1895	1875	1833
Chennai	11469	11489	11346	11361	10318	10271	10357	10399	10314	10314	10207	10274
Vishakhapatnam	11013	10986	10848	11314	10227	10082	9772	9626	9450	9307	9198	8773
Paradip	5590	5386	4841	4811	4834	4996	5241	4113	4229	4106	3892	3876
Calcutta	24673	24658	23643	23394	21292	19808	19296	13609	12873	11923	11570	10765
Halidia	}	}	}	}	}	}	}	4442	4484	4625	4695	4672
ALL MAJOR PORTS	101719	100583	98760	97955	93112	89662	99038	94016	92574	91147	90168	88694

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

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

PORT	(In Numbers)											
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1	2	3	4	5	6	7	8	9	10	11	12	13
KANDLA	871	869	875	913	897	984	953	960	943	891	932	946
MUMBAI	10121	9903	7848	8137	6849	7051	*	*	*	*	*	*
MORMUGAO	968	961	955	935	902	821	807	745	691	598	8	8
COCHIN	823	757	665	581	683	584	548	529	461	424	8	8
CHENNAI	1483	1394	1341	1306	1108	1890	1143	1092	1186	976	917	10568
VIZAG	685	665	641	611	706	739	732	610	563	717	909	928
CALCUTTA	6249	5941	5689	5272	4169	3907	3019	3304	2677	2408	2197	2038
TOTAL	21200	20490	18014	17755	15314	15976	7202	7240	6521	6014	4955	4968

* Mumbai Dock Labour Board merged with Mumbai Port

8 Dock Labour Board merged with Port Trust.

\$ Includes 184 casuals.

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

(In Numbers)

PORT	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1	2	3	4	5	6	7	8	9	10	11	12	13
KANDLA	-	-	-	-	-	-	-	-	-	-	-	-
MUMBAI	-	-	-	-	-	-	+	+	+	+	+	+
CHENNAI	1497	1479	1445	1376	289	275	260	237	210	182	154	135
VISAKHAPATNAM	1538	1516	1502	1487	1483	1006	1319	11740	15540	13120	903	742
TOTAL	3035	2995	2947	2863	1772	1281	1579	1411	1764	1494	1057	877

* Mumbai Dock Labour Board merged with Mumbai Port

@ Includes Casual Workers.

2.7.4 Employment At Major Ports - By Port & Classes As On 31st December, 1999

(In Numbers)										
Port	Number of Officers		Number of non-cargo handling workers		Number of cargo handling workers		Number of cargo handling workers other than shore workers		Number of cargo handling workers shore workers	
	Class : Class		Class : Class		Class : 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	106	80	1231	1754	242	71	214	568	48	4314
Mumbai	598	40	8748	13602	-	2510	436	5737	-	316710
J.L. Nehru	192	55	583	132	106	513	-	223	-	1804
Mormugao	155	89	1812	1608	-	416	445	-	-	45250
New Mangalore	80	130	936	387	-	319	385	262	-	24995
Cochin	157	132	3199	943	-	412	51	608	-	55020
Tuticorin	127	86	1041	792	-	-	-	-	-	2046
Chennai	401	278	2050	2406	3429	1311	125	931	22	10953
Visakhapatnam	223	157	1612	2356	930	2476	1023	54	322+	9153
Paradip	90	216	1352	1107	-	392	-	1025	-	4182
Calcutta	651	185	5354	4861	-	-	86	440	24	11601
Haldia	121	139	314	1540	849	910	1059	-	-	5032
Total	3001	1587	28232	31488	5556	9330	3824	9848	415	93282

* Pooled category workers.

0 Includes DLB employment also.

\$ Includes 1017 employees under a scheme known as "New Mangalore Port Cargo handling workers (Regulation of Employment) Scheme, 1990".

2.7.5 Employment At DLB'S Of Major Ports As On 31st December, 1999

(In Numbers)

Port / DLB	DLB Employment				Dock Workers				Grand Total	
	Class I	Class II	Class III	Class IV	Total : Registered	Listed	Others	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Kandla	2	4	67	29	102	946	-	-	946	1048
Chennai	30	15	346	102	493	10560	135	614	1805	2298
Visakhapatnam	19	8	272	113	412	928	742	-	1670	2082
Calcutta	26	19	397	236	678	2038	-	-	2038	2716
All DLBs	77	46	1082	480	1685	4968	877	614	6459	8144

0 Includes 184 casuals.

2.7.6 Mandays Lost Per Thousand Mandays Employed During 1995-99

PORT	1995			1996			1997			1998			1999		
	Man- days emplo- '000)	Mandays lost per 1000 mandays emplo- '000)	Man- days emplo- '000)	Man- days emplo- '000)	Mandays lost per 1000 mandays emplo- '000)	Man- days emplo- '000)	Man- days emplo- '000)	Mandays lost per 1000 mandays emplo- '000)	Man- days emplo- '000)	Man- days emplo- '000)	Mandays lost per 1000 mandays emplo- '000)	Man- days emplo- '000)	Man- days emplo- '000)	Mandays lost per 1000 mandays emplo- '000)	Man- days emplo- '000)
1.	2	3	4	5	6	7	8	9	10	11					
Kandla	1623	0.2	1515	0.8	1613	-	1438	0.9	1522	0.3					
Mumbai	9868	0.6	9837	2.9	9638	0.01	9425	4.1	9310	2.7					
Mormugao	1306	0.8	1284	8.6	1240	-	1287	2.6	1284	0.3					
N.Mangalore	691	-	683	-	677	7.3	688	23.8	687	-					
Cochin	1620	0.1	1620	0.2	1634	0.1	1600	2.4	1564	2.3					
Tuticorin	646	2.4	582	6.3	569	12.3	563	11.4	550	1.2					
Chennai	3731	0.6	3450	0.9	3387	0.3	3337	4.2	3399	0.5					
Visakhapatnam	3423	1.6	3004	0.1	3007	0.6	3032	11.1	2910	0.3					
Paradip	1234	-	1269	0.2	1232	-	1168	-	1163	0.3					
Calcutta/Haldia	6407	0.1	6010	0.6	5768	0.6	5539	0.1	5242	0.4					
J.N.P.T.	465	-	462	-	465	3.3	462	3.0	467	0.4					
TOTAL	31014	0.6	29716	1.7	29230	0.7	28539	4.2	28098	1.3					

Note : Mandays calculation includes Port Workers as well as Dock Workers.
Source: Ports Wing, MOST.

2.8.1 Revenue And Expenditure At Major Ports

(Rs. in Lakh)

Port / Year	Total : Revenue	Total : Expendi- ture	Port & Dock charges including Pilotage	Cargo handling and ware- housing	On account of Railways	Land and Building	Finance and Misc.	Manage- ment & General Admin.					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
KANDLA													
1986-87	4480	2361	1345	926	2113	571	-	6	160	149	862	276	433
1987-88	5072	2879	1458	1143	2377	556	-	8	155	204	1082	475	493
1988-89	6298	3252	1631	1542	3093	585	-	9	208	210	1366	339	567
1989-90	7431	3924	1922	1861	3683	729	-	8	241	242	1585	457	627
1990-91	8248	3931	2342	1817	3851	779	-	4	246	268	1809	332	731
1991-92	9553	4490	2535	2126	4411	835	-	4	259	293	2348	452	780
1992-93	11948	4812	3091	2244	5329	911	-	4	271	322	3257	460	871
1993-94	13996	6041	4071	2746	5365	1075	-	7	739	402	3821	873	938
1994-95	15797	6219	4820	2683	6352	1191	-	68	575	418	4050	778	1081
1995-96	20099	7491	5424	3428	7548	1443	-	18	856	508	6271	846	1248
1996-97	25496	9217	6126	4253	8646	1606	-	132	1244	611	9480	1278	1337
1997-98	28813	9793	7497	4858	10178	1788	-	31	1389	653	9749	824	1639
1998-99	34492	13382	10564	4029	11339	1853	-	18	1324	872	11265	4757	1853
MUMBAI													
1986-87	21955	14118	2713	2593	10893	5728	-	763	2624	688	5725	2438	1908
1987-88	23723	16761	3103	3251	12046	6421	189	844	2680	803	5705	3187	2255
1988-89	29228	18909	3720	3603	15047	6991	192	891	3322	951	6947	3991	2482
1989-90	28580	21150	3721	3323	17444	7600	226	1027	948	1298	6241	5018	2884
1990-91	26623	20490	3554	3736	18608	7739	230	1111	1087	1318	3144	3399	3187
1991-92	31718	26394	4280	4214	19349	8596	255	1184	1680	1705	6154	7010	3685
1992-93	43723	30526	8394	5497	26124	9216	327	1219	1607	1935	7271	8610	4045
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	68852	49660	13362	9973	43570	15598	491	1826	1835	3229	9594	12217	6817
1997-98	68520	51160	16311	9898	40237	16553	496	1801	3594	3608	7882	11637	7663
1998-99	68632	57868	16680	11068	39245	18056	771	1890	4035	3735	7901	14428	867

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in Lakh)

Port / Year	Total : Revenue : Exp. : Total : Revenue : Exp. :	Port & Dock : charges including : Pilotage : Exp. : Revenue : Exp. :	Cargo handling : and ware- housing : Revenue : Exp. : Revenue : Exp. :	On account of : Railways : Building : Revenue : Exp. : Revenue : Exp. :	Land and Building : Revenue : Exp. : Revenue : Exp. :	Finance and Misc. : Revenue : Exp. : Revenue : Exp. :	Manage- ment & General : Adm. : Revenue : Exp. : Revenue : Exp. :						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
JAWAHARLAL NEHRU													
1989-90	2917	2987	317	536	2084	606	-	10	150	40	366	91	1704
1990-91	5782	5226	682	802	4371	2780	-	14	257	167	472	625	838
1991-92	8494	6542	1019	833	5916	3206	-	14	376	244	1183	1099	1146
1992-93	10350	8743	1508	701	6661	4115	-	94	398	334	1783	2514	985
1993-94	12428	11298	2201	1265	7626	4711	-	97	442	440	2159	3489	1296
1994-95	17907	11688	3008	755	11591	5799	-	102	727	668	2581	2970	1394
1995-96	27883	15341	3579	1201	18390	7925	-	102	1398	728	4516	3777	1608
1996-97	31749	17497	4252	1779	18519	9234	-	119	1836	969	7142	3514	1882
1997-98	41731	21256	5618	2517	23466	11413	-	124	2919	1047	9728	4286	1869
1998-99	48230	24685	7492	3034	27586	12007	-	124	3231	1212	9921	5998	2310
MORMUGAO													
1986-87	4257	3672	900	978	2845	1311	30	74	70	78	412	725	506
1987-88	4058	3421	781	763	2713	1093	39	87	72	75	453	841	562
1988-89	5160	3836	934	793	3448	1246	46	95	99	83	633	918	701
1989-90	5339	3089	950	810	3560	1294	39	95	110	111	680	849	730
1990-91	5785	4472	1004	897	3712	1513	46	94	104	118	919	1043	807
1991-92	5993	4966	985	1070	3703	1556	42	104	107	139	1156	1125	972
1992-93	7913	5773	1323	1312	4898	1911	73	122	109	140	1510	1134	1154
1993-94	9896	6876	2083	1262	5837	2611	80	123	216	166	1680	1451	1263
1994-95	9741	6890	2199	1607	5445	2277	61	132	278	104	1758	1195	1575
1995-96	9867	7931	2198	2476	5454	1967	-	116	358	67	1857	1557	1748
1996-97	11055	8912	2263	2055	6287	2616	-	112	485	94	2020	2060	1975
1997-98	13317	10297	2522	2303	8188	3525	4	139	345	235	2258	1954	2141
1998-99	14849	12575	2884	2748	8460	4297	181	136	567	280	2757	2529	2585

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in lakh)

Port / Year	Total : Revenue	Total : Expenditure	Port & Dock charges including Pilotage	Cargo handling and ware- housing	On account of Railways	Land and Building	Finance and Misc.	Management & General	Admin.				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
NEW MANGALORE													
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	665
1992-93	4198	2853	954	1395	2072	271	neg	14	462	74	710	415	684
1993-94	4831	3476	1154	1840	2424	297	neg	10	482	76	771	447	806
1994-95	4821	3195	1190	1264	2367	335	6	18	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
1997-98	17852	10938	3085	3789	11264	1597	25	36	1122	138	2356	3744	1634
1998-99	16924	13009	3603	4390	10950	1801	22	23	917	180	1432	4758	1857
COCHIN													
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
1997-98	17748	13241	4034	4903	10490	2193	-	22	1021	427	2203	2115	3581
1998-99	19560	16435	4386	5778	10735	2710	-	25	1169	592	3270	3486	3844

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in Lakh)

Port / Year	Total : Revenue		Total : Exp.		Port & Dock : charges including Pilotage		Cargo handling : and warehousing		On account of : Railways		Land and : Building		Finance : and Misc.		Management : General : Adm.	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
TUTICORIN																
1986-87	1440	1284	220	261	999	229	41	33	38	70	142	390	301			
1987-88	1435	1444	227	306	960	252	38	37	45	79	165	427	343			
1988-89	1941	1511	337	326	1326	280	44	53	53	88	181	411	353			
1989-90	2274	2073	438	390	1507	335	65	49	80	96	184	799	404			
1990-91	2908	1880	468	439	1561	368	73	51	145	106	661	442	474			
1991-92	3046	2086	550	506	1936	447	72	68	147	123	341	407	535			
1992-93	3989	2250	861	545	2287	500	74	65	222	134	545	415	591			
1993-94	3908	2899	924	635	2201	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			
1997-98	8649	5025	2271	1193	4676	915	93	129	479	259	1130	1314	1215			
1998-99	9594	5957	2710	1308	5194	999	119	205	520	402	1051	1493	1550			
CHENNAI																
1986-87	10433	6896	1589	1043	7380	2425	704	453	32	66	728	1362	1547			
1987-88	11256	7622	1863	1016	7358	2749	896	458	45	60	1094	1621	1718			
1988-89	13525	8269	2072	1424	8935	2704	1108	478	54	76	1356	1648	1939			
1989-90	14832	8882	1977	1337	9794	3065	1184	527	146	92	1731	1561	2300			
1990-91	16964	9713	2184	1426	10714	3194	1295	614	166	93	2605	1778	2608			
1991-92	19947	11218	3055	1594	11172	3722	1630	719	208	98	3882	2157	2928			
1992-93	25664	13700	4003	1536	13135	4062	1576	924	201	121	6749	3694	3363			
1993-94	30029	15548	5087	1650	14721	4588	1501	815	219	143	8401	4860	3492			
1994-95	31007	16773	5429	2723	15416	5230	1741	849	276	169	8145	3671	4131			
1995-96	33879	20365	6826	2850	16313	6173	1987	1138	387	170	8366	5175	4859			
1996-97	38378	20933	7194	3113	17582	6816	2292	1081	328	187	10982	4452	5284			
1997-98	41676	24860	7913	3994	18954	7723	2887	1526	381	232	11541	4912	6473			
1998-99	43928	26834	8829	4284	19232	8453	3016	1701	337	276	12514	4898	7222			

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in Lakh)

Port / Year	Total : Revenue	Total : Expenditure	Port & Dock charges including Pilotsage	Cargo handling and ware- housing	On account of : Railways	Land and Building	Finance and Misc.	Manage- ment & General	Admin. Exp.				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
VISAKHAPATNAM													
1986-87	8272	7449	1469	1286	5308	2231	711	714	316	220	468	2011	987
1987-88	9280	8494	1514	1634	5277	2398	848	750	457	268	1184	2271	1173
1988-89	13546	9757	2169	1528	6974	2702	1234	955	352	269	2817	2475	1828
1989-90	13021	9054	2556	1809	8036	2280	1303	1139	350	333	776	2074	1419
1990-91	13955	10547	2531	1990	7300	2843	1427	1193	569	420	2128	2487	1614
1991-92	15713	11861	2682	2487	8442	3230	2025	1754	344	515	2220	2061	1814
1992-93	18956	13951	4030	2739	9621	3343	2387	1893	348	507	2570	3339	2130
1993-94	20226	14424	4676	2678	10434	3906	2451	1678	535	577	2130	3378	2207
1994-95	21940	17719	5870	3458	11548	4523	2806	1803	683	681	1033	4684	2570
1995-96	25802	19947	7000	4022	13241	4075	3473	2711	882	810	1406	5269	3060
1996-97	28349	20951	8063	4246	14413	4998	3756	3050	894	817	1223	4280	3560
1997-98	29441	21936	7773	3962	13776	5233	4749	3380	956	1021	2187	4263	4077
1998-99	29307	22424	8454	3416	13590	5895	4414	2847	917	1455	1932	4299	4512
PARADIP													
1986-87	4309	4568	793	782	2696	1088	324	240	95	233	401	1633	592
1987-88	4847	5015	842	927	2785	1061	397	258	124	228	699	1862	679
1988-89	5522	4992	905	666	3343	1312	420	312	160	301	694	1626	775
1989-90	6709	5906	1143	719	4068	1313	514	433	313	363	671	2224	854
1990-91	8782	7109	1632	852	5098	1446	732	386	163	420	1157	3003	1002
1991-92	9893	8347	1595	1084	5072	1823	764	486	526	504	1936	3346	1104
1992-93	10303	8910	1857	1412	5632	2075	994	832	355	770	1465	2460	1361
1993-94	13273	11804	2317	1240	6724	2273	1250	685	369	512	2043	5400	1694
1994-95	13837	10258	2752	1745	8039	2445	1538	437	949	792	1146	3126	1713
1995-96	16093	12139	3202	2221	9324	2901	1674	473	949	1031	944	3522	1991
1996-97	17972	13292	3488	2658	9347	3043	1780	557	1656	1116	1701	3381	2537
1997-98	18903	13832	4159	1936	10397	3320	2268	830	849	1555	1230	3500	2691
1998-99	19251	14450	4032	2032	10175	3339	2112	726	960	1888	1972	3109	3356

2.8.1 Revenue And Expenditure At Major Ports (Contd.)

(Rs. in Lakh)

Port / Year	Total : Revenue	Total : Expendi- ture	Port & Dock charges including Pilotsage	Cargo handling and ware- housing	On account of Railways	Land and Building	Finance and Misc.	Manage- ment & General	Admn.				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
ALL PORTS													
1986-87	77771	61665	15579	14978	43983	17334	2740	3468	4657	2043	10812	12970	10872
1987-88	82138	69403	17307	16344	44486	18595	3405	3885	4952	2295	11988	16030	12254
1988-89	105277	75729	19666	17442	59093	20352	3998	4198	5895	2589	14399	16809	14339
1989-90	114163	85197	21145	19517	69260	22078	4372	4820	4314	3302	15072	18401	17079
1990-91	125818	93042	23208	20881	75828	26120	5010	4934	5112	3729	16660	19159	18219
1991-92	144736	110022	26541	25103	80662	29040	6236	5831	6397	4630	24900	25097	20321
1992-93	178646	127618	38205	30153	96135	32290	7230	6890	6970	5365	30106	30223	22697
1993-94	206457	144453	48260	32769	109563	36476	7588	6423	8456	5689	32590	37466	25630
1994-95	231725	167700	55529	38225	125757	42030	9091	6811	8545	6960	32803	44791	28883
1995-96	275864	187719	62655	40187	151772	47203	10356	7939	11249	7894	39832	51272	33224
1996-97	317163	212390	71962	51318	168007	53641	11388	8801	14087	9074	51719	51894	37662
1997-98	360731	239072	89786	61484	184181	59942	13872	10318	17294	10663	55598	54092	42573
1998-99	400952	294202	119732	86558	189091	65696	13863	10345	18549	12727	59717	70116	48760

2.8.2 Operating Income, Operating Expenditure, Net & Operating Surplus At Major Ports

Item/Year	(Rs. In Lakh)													
	Kandla : :	Mumbai : :	J.L. : Nehru	Mormu : gao	N. Manga : lore	Cochin : :	Tuti- : corin	Chennai : patnam	Paradip : :	Haldia : :	Calcutta : :	All : Ports		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Operating Income														
1987-88	3990	18018	-	3605	1964	3477	1270	10162	8096	4148	6314	9106	70150	
1988-89	4932	22281	-	4527	2255	4523	1760	12169	10729	4828	9084	11564	88652	
1989-90	5846	22339	2551	4659	2360	5505	2090	13101	12245	6038	9806	12551	99091	
1990-91	6439	23479	5310	4866	3036	5538	2247	14359	11826	7626	11109	13324	109159	
1991-92	7205	25564	7311	4837	3209	5828	2706	16065	13493	7957	13077	12585	119837	
1992-93	8691	36452	8567	6403	3488	6635	3444	18915	16386	8838	16310	14411	148540	
1993-94	10175	41668	10269	8216	4060	6963	3356	21629	18096	11230	20943	17263	173868	
1994-95	11747	47514	15326	7983	4135	8205	4042	22862	20907	12691	24654	18856	198922	
1995-96	13828	58188	23367	8010	5461	10709	5405	25513	24396	15149	25112	20894	236032	
1996-97	16016	59258	24607	9035	11847	13776	5884	27396	27126	16271	31921	22307	265444	
1997-98	19064	60638	32003	11059	15496	15545	7519	30135	27254	17673	44175	24572	305133	
1998-99	23227	60731	38309	12092	15492	16290	8543	31414	27375	17279	64307	26176	341235	
1999-2000 (P)	22520	53267	36753	13448	17111	18041	9014	33904	30706	18500	82466*	335730		
Operating Expenditure														
1987-88	2404	13574	-	2580	1319	2812	1017	6001	6223	3153	5139	9151	53373	
1988-89	2913	14918	-	2918	1142	3418	1100	6621	7282	3366	5128	10114	58920	
1989-90	3467	16132	2896	3040	1711	3762	1274	7321	6980	3682	5856	10675	66796	
1990-91	3599	17091	4601	3429	1611	4068	1438	7935	8059	4106	6557	11388	73882	
1991-92	4038	19384	5448	3841	2264	4213	1680	9061	9800	5001	8787	11414	84931	
1992-93	4352	21916	6229	4639	2438	5201	1835	10006	10612	6450	11358	12359	97395	
1993-94	5168	23994	7809	5425	3029	5984	2210	10687	11046	6404	12560	12670	106986	
1994-95	5441	30061	8718	5695	2612	6225	2913	13102	13035	7132	13836	14139	122909	
1995-96	6645	31359	11564	6374	4023	8164	2818	15190	14678	8617	12045	14970	136447	
1996-97	7939	37443	13983	6852	5806	9458	3124	16481	16671	9911	16611	16217	160496	
1997-98	8969	39523	16970	8343	7194	11126	3711	19948	17673	10332	23764	17427	184980	
1998-99	8625	43440	18687	10046	8251	12949	4464	21936	18125	11341	46268	19954	224086	
1999-2000 (P)	12642	42278	22735	10416	9461	14726	5225	26728	20153	12334	61851*	238549		

(P) : Provisional

* : Includes both Haldia & Calcutta.

2.8.2 Operating Income, Operating Expenditure, Net & Operating Surplus At Major Ports

Item/Year	Kandla	Mumbai	J.L. Nehru	Mormu- gao	N.Manga- lore	Cochin	Tuti- corin	Chennai :patnam	Paradip	Haldia	Calcutta	(Rs. In Lakh)	
												11	12
Operating Income													
1987-88	3990	18018	-	3605	1964	3477	1270	10162	8096	4148	6314	9106	70150
1988-89	4932	22281	-	4527	2255	4523	1760	12169	10729	4828	9084	11564	88652
1989-90	5846	22339	2551	4659	2360	5505	2090	13101	12245	6038	9806	12551	99091
1990-91	6439	23479	5310	4866	3036	5538	2247	14359	11826	7626	11109	13324	109159
1991-92	7205	25564	7311	4837	3209	5828	2706	16065	13493	7957	13077	12585	119837
1992-93	8691	36452	8567	6403	3488	6635	3444	18915	16386	8838	16310	14411	148540
1993-94	10175	41668	10269	8216	4060	6963	3356	21629	18096	11230	20943	17263	173868
1994-95	11747	47514	15326	7983	4135	8205	4042	22862	20907	12691	24654	18856	198922
1995-96	13828	58188	23667	8010	5461	10709	5405	25513	24396	15149	25112	20894	236032
1996-97	16016	59258	24607	9035	11847	13776	5884	27396	27126	16271	31921	22307	265444
1997-98	19064	60638	32003	11059	15496	15545	7519	30135	27254	17673	44175	24572	305133
1998-99	23227	60731	38309	12092	15492	16290	8543	31414	27375	17279	64307	26176	341235
1999-2000 (P)	22520	53267	36753	13448	17111	18041	9014	33904	30706	18500	82466*		335730
Operating Expenditure													
1987-88	2404	13574	-	2580	1319	2812	1017	6001	6223	3153	5139	9151	53373
1988-89	2913	14918	-	2918	1142	3418	1100	6621	7282	3366	5128	10114	58920
1989-90	3467	16132	2896	3040	1711	3762	1274	7321	6980	3682	5856	10675	66796
1990-91	3599	17091	4601	3429	1611	4068	1438	7935	8059	4106	6557	11388	73882
1991-92	4038	19384	5448	3841	2264	4213	1680	9061	9800	5001	8787	11414	84931
1992-93	4352	21916	6229	4639	2438	5201	1835	10006	10612	6450	11358	12359	97395
1993-94	5168	23994	7809	5425	3029	5984	2210	10687	11046	6404	12560	12670	106986
1994-95	5441	30061	8718	5695	2612	6225	2913	13102	13035	7132	13836	14139	122909
1995-96	6645	31359	11564	6374	4023	8164	2818	15190	14678	8617	12045	14970	136447
1996-97	7939	37443	13983	6852	5806	9458	3124	16481	16671	9911	16611	16217	160496
1997-98	8969	39523	16970	8343	7194	11126	3711	19948	17673	10332	23764	17427	184980
1998-99	8625	43440	18687	10046	8251	12949	4464	21936	18125	11341	46268	19954	224086
1999-2000 (P)	12642	42278	22735	10416	9461	14726	5225	26728	20153	12334	61851*		238549

(P) : Provisional

* : Includes both Haldia & Calcutta.

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

(Rs. In Lakh)

Item/Year	Randla	Mumbai	J.L. : Nehru	Morwa : gao	N. Mangla : lore	Cochin : cochin	Tutic : corin	Chennai : patnam	Visakh : paradip	Haldia : calcutta	All : ports			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Operating Surplus														
1987-88	1586	4444	-	1025	645	665	253	4161	1873	995	1175	(-)45	16777	
1988-89	2019	7363	-	1609	1113	1105	660	5548	3447	1462	3956	1450	29732	
1989-90	2379	6207	(-)345	1619	649	1743	816	5780	5265	2356	3950	1876	32295	
1990-91	2840	6388	709	1437	1425	1470	809	6424	3767	3520	4552	1936	35277	
1991-92	3167	6180	1863	996	945	1615	1026	7004	3693	2956	4290	1171	34906	
1992-93	4339	14536	2338	1764	1050	1434	1609	8909	5774	2388	4952	2052	51145	
1993-94	5007	17674	2460	2791	1031	979	1146	10942	7050	4826	8383	4593	66882	
1994-95	6306	17453	6608	2288	1523	1980	1129	9760	7872	5559	10818	4717	76013	
1995-96	7183	26829	11803	1636	1438	2545	2587	10323	9718	6532	13067	5924	99585	
1996-97	8077	21815	10624	2183	6041	4318	2760	10915	10455	6360	15310	6090	104948	
1997-98	10095	21115	15033	2716	8302	4419	3808	10187	9581	7341	20411	7145	120153	
1998-99	14602	17291	19622	2046	7241	3341	4079	9478	9250	5938	18039	6222	117149	
1999-2000 (P)	9878	10989	14018	3032	7650	3315	3789	7176	10553	6166	20615*		97181	
Net Surplus														
1987-88	2193	6962	-	637	288	(-)282	(-)9	3634	786	(-)168	946	(-)2252	12735	
1988-89	3046	10319	-	1374	951	(-)67	430	5256	3789	530	3842	128	29548	
1989-90	3507	7430	(-)70	1450	386	497	201	5950	3967	803	4590	255	28966	
1990-91	4317	6133	556	1313	1106	1040	1028	7251	3408	1673	4732	219	32776	
1991-92	5063	5324	1952	1027	952	831	960	8729	3852	1546	4293	185	34714	
1992-93	7136	13197	1607	2140	1345	1034	1739	11964	5005	1393	3924	544	51028	
1993-94	7955	17825	1130	3020	1355	270	1009	14481	5802	1469	5952	1736	62004	
1994-95	9578	14338	6219	2851	1626	837	776	14234	4221	3579	6174	(-)408	64025	
1995-96	12608	25434	12542	1936	2057	(-)565	2345	13514	5855	3954	8240	225	88145	
1996-97	16279	19192	14252	2143	4147	2265	2646	17445	7398	4680	12907	1419	104773	
1997-98	19020	17360	20475	3020	6914	4507	3624	16816	7505	5071	17050	297	121659	
1998-99	21110	10764	23545	2274	3915	3125	3637	17094	6883	4801	11282	(-)1680	106750	
1999-2000 (P)	21492	8341	13305	2344	5573	271	3689	14526	2900	4670	4314*		81425	

(P) : Provisional

* : Includes both Haldia & Calcutta.

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	
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	
1997-98	47.05	65.18	53.03	75.44	46.42	71.57	49.35	66.20	64.84	58.46	53.80	70.92	60.62	
1998-99	37.13	71.53	48.78	83.08	53.26	79.49	52.25	69.83	66.21	65.63	71.95	76.23	65.67	
1999-2000 (P)	56.14	79.37	61.86	77.45	55.29	81.63	57.97	78.83	65.63	66.67	75.00*		71.05	

(P) : Provisional

* : Includes both Haldia & Calcutta.

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

(In Rs.)

Port	Operating Income			Operating Expenditure			Surplus/Deficit		
	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10
Kandla	47.48	49.01	57.16	23.54	23.06	21.23	23.95	25.95	35.93
Mumbai	177.21	188.92	196.10	111.97	123.14	140.27	65.24	65.78	55.83
J.L. Nehru	304.96	359.79	326.78	173.29	190.78	159.40	131.66	169.01	167.38
Mormugao	52.19	52.21	67.10	39.58	39.39	55.75	12.61	12.82	11.35
New Mangalore	95.13	101.40	109.05	46.62	47.07	58.08	48.51	54.32	50.97
Cochin	117.32	126.15	128.46	80.55	90.29	102.11	36.77	35.86	26.35
Tuticorin	64.14	75.39	84.17	34.05	37.21	43.98	30.08	38.18	40.19
Chennai	86.02	84.81	89.24	51.75	56.14	62.31	34.27	28.67	26.93
Visakhapatnam	78.63	75.68	76.78	48.32	49.07	50.84	30.31	26.61	25.94
Paradip	140.51	132.86	131.82	85.59	77.67	86.52	54.92	55.19	45.30
Calcutta*	234.51	244.16	307.90	141.96	146.29	225.34	92.54	97.87	82.56

* Includes Haldia.

Source: Major Ports

2.8.5 Net Capital Employed

(Rs. in Crore)

Port	1995-96	1996-97	1997-98	1998-99	1999-2000
Calcutta	701.20	826.02	1095.02	1094.82	1034.04
Paradip	132.79	158.76	344.73	479.67	556.77
Visakhapatnam	408.35	476.57	460.12	494.51	410.39
Chennai	344.49	400.28	391.46	409.85	382.06
Tuticorin	149.04	156.59	154.48	166.93	434.75
Cochin	135.56	135.76	192.19	246.42	243.87
New Mangalore	214.28	350.84	380.31	409.89	499.63
Mormugao	203.16	230.71	256.79	269.25	171.99
Mumbai	279.47	396.11	497.09	521.32	627.18
J. L. Nehru	878.25	886.51	992.93	997.51	970.17
Kandla	594.16	717.53	766.93	914.05	1014.42
Total	4040.75	4735.68	5532.05	6004.22	6345.27

Source : IPA

3.1.0 List Of Minor/Intermediate Ports

GUJARAT

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

ORISSA

1	Gopalpur
2	Behrabalpur (Balasore)

ANDHRA PRADESH

6	Honavar
7	Tadri
8	Belekeri
9	Karwar
1	Bhavanapadu
2	Calingapatnam
3	Bheemunipatnam
4	Kakinada
(a)	Anchorage
(b)	Deep Water
5	Narsapur
6	Machilipatnam
7	Vadarevu
8	Nizampatnam
9	Krishnapatnam
10	Gangavaram
11	Mutyalammapalem
12	Rawa

LAKSHADWEEP

1	Agatti
2	Amini
3	Andrott
4	Bitra
5	Chetlat

KARNATAKA

1	Mangalore
2	Malpe
3	Hangarkatta
4	Kundapur
5	Bhatkal

TAMIL NADU

6	Kavaratti
7	Kadmat
8	Kiltan
9	Kalpeni
10	Minicoy
1	Cuddalore
2	Nagapattinam
3	Rameswaram
4	Pamban
5	Colachel
6	Valinokkam
7	Kanyakumari
8	Ennore(C)
9	Punnakayal(C)
10	Thirukkadaiyur(C)
11	PY-3(Oil field)(C)
12	Kattupalli(C)
13	Thiruchopuram(C)
14	Manappad(C)

GOA

1	Panaji
2	Chapora
3	Betul
4	Talpona
5	Tiracol

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

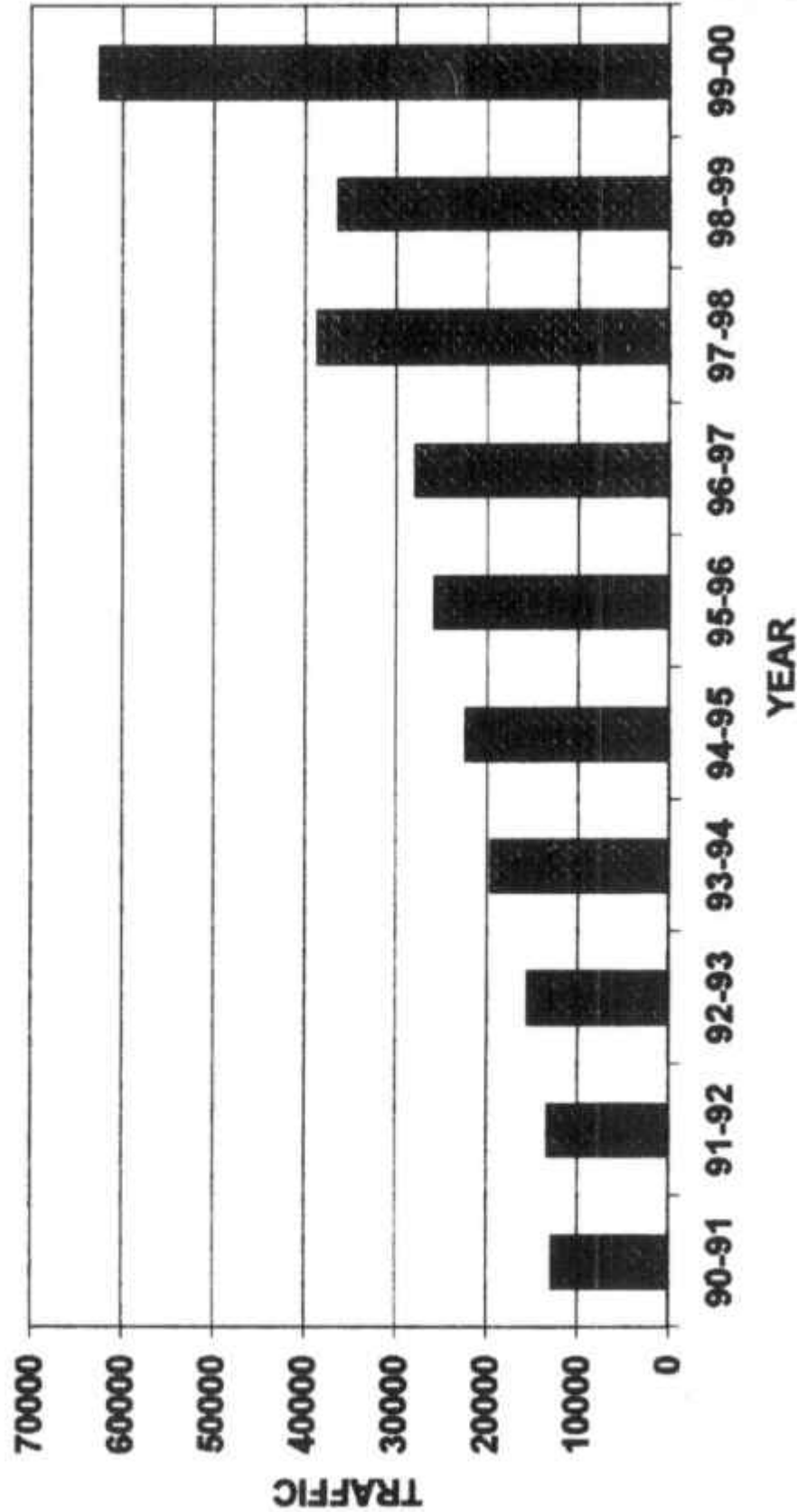
MAHARASHTRA			ANDAMAN & NICOBAR		DAMAN & DIU	
1	Dahanu	28	1	Port Blair	1	Daman
2	Tarapur	29	2	Mus	2	Diu
3	Nawapur	30	3	Car Nicobar		
4	Satpali	31	4	Havelock		
5	Kelwa-Mahim	32	5	Mayabunder		
6	Arnala	33	6	Diglipur	1	Alppuzha
7	Datiware	34	7	Rangat	2	Vadakara
8	Uttan	35	8	Hut Bay	3	Kannur
9	Bassein	36	9	Katchal	4	Kasargode
10	Bhiwandi	37	10	Campbell Bay	5	Kodungallore
11	Manori	38	11	Nell Havelock	6	Ponnani
12	Kalyan	39	12	Dugong Creek	7	Thalassery
13	Thane	40	13	Nancowry	8	Thiruvananthapuram
14	Versova	41	14	Chowra	9	Qullon)
15	Bandra	42	15	Teresa	10	Kozhikode/Beyapore
16	Trombay	43	16	Kondul	11	Neendakara
17	Ulwa-Belapur	44	17	Pillow Millow	12	Azhikkal
18	Panvel	45	18	East Island	13	Koavalam/Vizhinjam
19	Mora	46	19	Cinque Island		
20	Mandwa	47	20	Jolly Bouy Island		
21	Karanja	48	21	Tillonchong		
22	Thal	49	22	Castle Bay		
23	Rewas	50	23	South Bay	1	Pondicherry
24	Alibag	51				
25	Dharamtar	52				
26	Revdanda	53				
27	Borli/Mandla					
(c) Captive Ports						

3.1.1 Growth Of Cargo Traffic Handled At Minor/Intermediate Ports

('000 Tonnes)

Year	: Overseas : : Coastal : Overseas & Coastal : Transhipment : Overseas : Coastal & : Transhipment :											
	: Unloaded : Loaded : Transhi- : Total : Unloaded : Loaded : Total : Unloaded : Loaded : Total : Unloaded : Loaded : Total :											
	: present :											
1	2	3	4	5	6	7	8	9	10	11	12	
1988-89	4263	2890	-	7153	967	955	1922	5230	3845	-	-	9075
1989-90	4244	4513	-	8757	1144	955	2099	5388	5468	-	-	10856
1990-91	5713	3854	-	9567	1964	1251	3215	7677	5105	-	-	12782
1991-92	4765	4104	-	8869	3016	1373	4389	7781	5477	-	-	13258
1992-93	3908	4737	2325	10970	3094	1339	4433	7002	6076	2325	15403	
1993-94	3637	6625	3948	14210	3839	1421	5260	7476	8046	3948	19470	
1994-95	5397	6424	3209	15030	5367	1885	7252	10764	8309	3209	22282	
1995-96	7064	8172	2887	18123	5116	2471	7587	12180	10643	2887	25710	
1996-97	7376	7671	3393	18440	6115	3277	9392	13491	10948	3393	27832	
1997-98	14246	10419	4498	29163	5221	4223	9444	19467	14642	4498	38607	
1998-99	15017	8423	907	24347	6343	5616	11959	21360	14039	907	36306	
1999-00(P)	29445	7968	653	38066	10564	13890	24454	40009	21858	653	62520	

TRAFFIC HANDLED AT MINOR PORTS (IN THOUSAND TONNES)



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**

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

(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)
OVERSEAS*												
1988-89	3878	620	-	-	504	272	306	413	1138	22	-	7153
1989-90	5031	1071	-	-	489	120	375	229	1374	68	-	8757
1990-91	6981	599	1	-	418	86	227	70	1124	61	-	9567
1991-92	6797	213	-	-	205	86	185	53	1180	150	-	8869
1992-93	8488	-	-	-	320	90	260	47	1560	205	-	10970
1993-94	11901	-	-	-	163	60	80	22	1772	212	-	14210
1994-95	12828	27	-	-	281	162	124	26	1382	200	-	15030
1995-96	14671	359	-	-	342	136	116	56	2269	174	-	18123
1996-97	15103	1036	252	-	284	52	34	45	1495	139	-	18440
1997-98	22253	3710	858	-	303	82	62	Neg	1677	201	17	29163
1998-99	16561	3329	1789	-	156	54	76	23	2217	120	22	24347
1999-00 (P)	30390	2026	2334	-	376	54	100	-	2618	154	14	38066
COASTAL												
1988-89	1469	242	-	1	151	32	-	-	-	-	27 @	1922
1989-90	1596	268	-	1	164	37	1	-	-	-	32 @	2099
1990-91	2332	329	-	Neg.	193	44	Neg.	-	-	-	317	3215
1991-92	3499	319	12	Neg.	178	44	-	-	-	-	337	4389
1992-93	3396	303	212	-	150	35	-	-	-	-	337	4433
1993-94	3844	646	212	Neg.	147	39	-	-	35	-	337	5260
1994-95	4115	2419	212	Neg.	174	35	-	-	5	-	292	7252
1995-96	3810	3112	107	-	181	48	-	-	34	-	295	7587
1996-97	4755	3208	143	-	240	19	-	-	732	-	295	9392
1997-98	5462	975	127	-	201	34	206	-	1861	-	578	9444
1998-99	6361	1866	385	-	248	50	394	-	1961	-	694	11959
1999-00 (P)	16177	3879	152	-	247	50	313	-	2963	-	673	24454

* Includes Transshipment figures. For details see Table 3.1.5

@ Figures pertain to only Lakshadweep.

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

(In '000 Tonnes)

Year	Gujarat	Mahara- shtra	Goa	Daman & Diu	Karna- taka	Kerala	Tamil- Nadu	Pondl- cherry	Andhra- Pradesh	Orissa	Sea- Islands	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
TOTAL												
1988-89	5347	862	-	1	655	304	306	413	1138	22	27	9075
1989-90	6627	1339	-	1	653	157	376	229	1374	68	32	10856
1990-91	9313	928	1	-	611	130	227	70	1124	61	317	12782
1991-92	10296	532	12	-	383	130	185	53	1180	150	337	13258
1992-93	11884	303	212	-	470	125	260	47	1560	205	337	15403
1993-94	15745	646	212	-	310	99	80	22	1807	212	337	19470
1994-95	16943	2446	212	-	455	197	124	26	1387	200	292	22282
1995-96	18481	3471	107	-	523	184	116	56	2303	174	295	25710
1996-97	19858	4244	395	-	524	71	34	45	2227	139	295	27832
1997-98	27715	4685	985	-	504	116	268	-	3538	201	595	38607
1998-99	22922	5195	2174	-	404	104	470	23	4178	120	716	36306
1999-00(P)	46567	5905	2486	-	623	104	413	-	5581	154	687	62520

Figures pertain to only Lakshadweep.
Note: Sea Islands include Lakshadweep & A & N Islands.

3.1.3 State-Wise Cargo Traffic (Unloaded & Loaded) Handled 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												
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	-	284	6	248	47	632	152	238	9327
1993-94	9532	622	88	Neg.	164	1	62	22	545	150	238	11424
1994-95	10319	2301	88	Neg.	287	5	93	26	461	161	232	13973
1995-96	10152	3376	7	-	333	15	114	56	671	104	239	15067
1996-97	11517	3979	219	-	214	5	31	45	589	51	234	16884
1997-98	17410	4314	289	-	220	14	62	Neg.	1192	56	408	23965
1998-99	14788	4948	206	-	187	20	76	23	1552	-	467	22267
1999-00 (P)	31616	5514	128	-	261	20	101	-	2562	-	460	40662
LOADED												
1988-89	2245	623	-	-	299	129	48	-	479	22	Neg.	3845
1989-90	3132	1085	-	-	309	117	50	-	732	42	1	5468
1990-91	3320	600	1	-	340	121	10	-	620	11	82	5105
1991-92	4051	227	6	-	160	121	3	-	778	32	99	5477
1992-93	4550	5	124	-	186	119	12	-	928	53	99	6076
1993-94	6213	24	124	-	146	98	18	-	1262	62	99	8046
1994-95	6624	145	124	-	168	192	31	-	926	39	60	8309
1995-96	8329	95	100	-	190	169	2	-	1632	70	56	10643
1996-97	8341	265	176	-	310	66	3	-	1638	88	61	10948
1997-98	10305	371	696	-	284	102	206	-	2346	145	187	14642
1998-99	8134	247	1968	-	217	84	394	-	2626	120	249	14039
1999-00 (P)	14951	391	2358	-	362	84	312	-	3019	154	227	21858

* Includes Transshipment figures in unloaded cargo from 1992-93 onwards. For details see Table 3.1.5

3.1.3 State-Wise Cargo Traffic (Unloaded & Loaded) Handled 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												
1988-89	5347	862	-	1	655	304	306	413	1138	22	27	9075
1989-90	6627	1339	-	1	653	157	376	229	1374	68	32	10856
1990-91	9313	928	1	-	611	130	227	70	1124	61	317	12782
1991-92	10296	532	12	-	383	130	185	53	1180	150	337	13258
1992-93	11884	303	212	-	470	125	260	47	1560	205	337	15403
1993-94	15745	646	212	-	310	99	80	22	1807	212	337	19470
1994-95	16943	2446	212	-	455	197	124	26	1387	200	292	22282
1995-96	18481	3471	107	-	523	184	116	56	2303	174	295	25710
1996-97	19858	4244	395	-	524	71	34	45	2227	139	295	27832
1997-98	27715	4685	985	-	504	116	268	-	3538	201	595	38607
1998-99	22922	5195	2174	-	404	104	470	23	4178	120	716	36306
1999-00 (P)	46567	5905	2486	-	623	104	413	-	5581	154	687	62520

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

(In '000 Tonnes)

States/ U.T.	Overseas		Coastal		Overseas & Coastal					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
GUJARAT										
1988-89	2477	1401	3878	625	844	1469	3102	2245	5347	
1989-90	2735	2296	5031	760	836	1596	3495	3132	6627	
1990-91	4713	2268	6981	1280	1052	2332	5993	3320	9313	
1991-92	3894	2903	6797	2351	1148	3499	6245	4051	10296	
1992-93	4962	3526	8488	2372	1024	3396	7334	4550	11884	
1993-94	6759	5142	11901	2773	1071	3844	9532	6213	15745	
1994-95	7679	5149	12828	2640	1475	4115	10319	6624	16943	
1995-96	8466	6205	14671	1686	2124	3810	10152	8329	18481	
1996-97	8912	6191	15103	2605	2150	4755	11517	8341	19858	
1997-98	13587	8666	22253	3823	1639	5462	17410	10305	27715	
1998-99	11293	5268	16561	3495	2866	6361	14788	8134	22922	
1999-00	25664	4726	30390	5952	10225	16177	31616	14951	46567	
MAHARASHTRA										
1988-89	-	620	620	239	3	242	239	623	862	
1989-90	-	1071	1071	254	14	268	254	1085	1339	
1990-91	-	599	599	328	1	329	328	600	928	
1991-92	-	213	213	305	14	319	305	227	532	
1992-93	-	-	-	298	5	303	298	5	303	
1993-94	-	-	-	622	24	646	622	24	646	
1994-95	-	27	27	2301	118	2419	2301	145	2446	
1995-96	332	27	359	3044	68	3112	3376	95	3471	
1996-97	899	137	1036	3080	128	3208	3979	265	4244	
1997-98	3519	191	3710	795	180	975	4314	371	4685	
1998-99	3200	129	3329	1748	118	1866	4948	247	5195	
1999-00	1934	92	2026	3580	299	3879	5514	391	5905	

(In '000 Tonnes)

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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	: Unloaded	: Loaded	: Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
KARNATAKA									
1988-89	285	219	504	71	80	151	356	299	655
1989-90	250	239	489	94	70	164	344	309	653
1990-91	159	259	418	112	81	193	271	340	611
1991-92	116	89	205	107	71	178	223	160	383
1992-93	192	128	320	92	58	150	284	186	470
1993-94	81	82	163	83	64	147	164	146	310
1994-95	186	95	281	101	73	174	287	168	455
1995-96	242	100	342	91	90	181	333	190	523
1996-97	85	199	284	129	111	240	214	310	524
1997-98	134	169	303	86	115	201	220	284	504
1998-99	68	88	156	119	129	248	187	217	404
1999-00	139	237	376	122	125	247	261	362	623
KERALA									
1988-89	171	101	272	4	28	32	175	129	304
1989-90	36	84	120	4	33	37	40	117	157
1990-91	Neg.	86	86	9	35	44	9	121	130
1991-92	Neg.	86	86	9	35	44	9	121	130
1992-93	-	90	90	6	29	35	6	119	125
1993-94	1	59	60	-	39	39	1	98	99
1994-95	5	157	162	-	35	35	5	192	197
1995-96	-	136	136	15	33	48	15	169	184
1996-97	-	52	52	5	14	19	5	66	71
1997-98	-	82	82	14	20	34	14	102	116
1998-99	-	54	54	20	30	50	20	84	104
1999-00 (P)	-	54	54	20	30	50	20	84	104

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

(In '000 Tonnes)

States : U.T.	Overseas	Total	Unloaded	Loaded	Coastal	Total	Unloaded	Loaded	Overseas & Coastal	Total
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
TAMIL NADU										
1988-89	258	48	306	-	-	-	258	48	306	
1989-90	326	49	375	-	1	1	326	50	376	
1990-91	217	10	227	Neg.	-	Neg.	217	10	227	
1991-92	182	3	185	-	-	-	182	3	185	
1992-93	248	12	260	-	-	-	248	12	260	
1993-94	62	18	80	-	-	-	62	18	80	
1994-95	93	31	124	-	-	-	93	31	124	
1995-96	114	2	116	-	-	-	114	2	116	
1996-97	31	3	34	-	-	-	31	3	34	
1997-98	62	-	62	-	206	206	62	206	268	
1998-99	76	-	76	-	394	394	76	394	470	
1999-00	96	4	100	5	308	313	101	312	413	
PONDICHERY										
1988-89	413	-	413	-	-	-	413	-	413	
1989-90	229	-	229	-	-	-	229	-	229	
1990-91	70	-	70	-	-	-	70	-	70	
1991-92	53	-	53	-	-	-	53	-	53	
1992-93	47	-	47	-	-	-	47	-	47	
1993-94	22	-	22	-	-	-	22	-	22	
1994-95	26	-	26	-	-	-	26	-	26	
1995-96	56	-	56	-	-	-	56	-	56	
1996-97	45	-	45	-	-	-	45	-	45	
1997-98	-	-	-	-	-	-	-	-	-	
1998-99	23	-	23	-	-	-	23	-	23	
1999-00	-	-	-	-	-	-	-	-	-	

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	Unloaded	:Loaded	: Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ANDHRA PRADESH									
1988-89	659	479	1138	-	-	-	659	479	1138
1989-90	642	732	1374	-	-	-	642	732	1374
1990-91	504	620	1124	-	-	-	504	620	1124
1991-92	402	778	1180	-	-	-	402	778	1180
1992-93	632	928	1560	-	-	-	632	928	1560
1993-94	510	1262	1772	35	-	35	545	1262	1807
1994-95	456	926	1382	5	-	5	461	926	1387
1995-96	637	1632	2269	34	-	34	671	1632	2303
1996-97	579	916	1495	10	722	732	589	1638	2227
1997-98	1133	544	1677	59	1802	1861	1192	2346	3538
1998-99	1138	1079	2217	414	1547	1961	1552	2626	4178
1999-00	2159	459	2618	403	2560	2963	2562	3019	5581
ORISSA									
1988-89	-	22	22	-	-	-	-	22	22
1989-90	26	42	68	-	-	-	26	42	68
1990-91	50	11	61	-	-	-	50	11	61
1991-92	118	32	150	-	-	-	118	32	150
1992-93	152	53	205	-	-	-	152	53	205
1993-94	150	62	212	-	-	-	150	62	212
1994-95	161	39	200	-	-	-	161	39	200
1995-96	104	70	174	-	-	-	104	70	174
1996-97	51	88	139	-	-	-	51	88	139
1997-98	56	145	201	-	-	-	56	145	201
1998-99	-	120	120	-	-	-	-	120	120
1999-00	-	154	154	-	-	-	-	154	154

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

(In '000 Tonnes)

States/ U.T.	Overseas	Coastal	Overseas & Coastal	Total					
: Unloaded : Loaded	: Total : Unloaded : Loaded	: Total : Unloaded : Loaded	: Total : Unloaded : Loaded	: Total					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ANDAMAN & NICOBAR ISLANDS									
1988-89	...	...	...	...	...	...	...	...	...
1989-90	...	...	...	...	...	...	...	...	...
1990-91	-	202	77	279	202	77	279	279	279
1991-92	-	205	94	299	205	94	299	299	299
1992-93	-	205	94	299	205	94	299	299	299
1993-94	-	205	94	299	205	94	299	299	299
1994-95	-	232	60	292	232	60	292	292	292
1995-96	-	239	56	295	239	56	295	295	295
1996-97	-	234	61	295	234	61	295	295	295
1997-98	17	368	187	555	385	187	572	572	572
1998-99	22	422	249	671	444	249	693	693	693
1999-00 (P)	14	423	227	650	437	227	664	664	664
LAKSHADWEEP									
1988-89	-	27	Neg.	27	27	27	27	27	27
1989-90	-	31	1	32	31	1	32	32	32
1990-91	-	33	5	38	33	5	38	38	38
1991-92	-	33	5	38	33	5	38	38	38
1992-93	-	33	5	38	33	5	38	38	38
1993-94	-	33	5	38	33	5	38	38	38
1994-95	...	...	...	...	...	...	...	...	...
1995-96	...	...	...	...	...	...	...	...	...
1996-97	...	...	...	...	...	...	...	...	...
1997-98	-	23	-	23	23	-	23	23	23
1998-99	-	23	-	23	23	-	23	23	23
1999-00 (P)	-	23	-	23	23	-	23	23	23

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

(In '000 Tonnes)

States/ U.Ts	Overseas	Coastal	Overseas & Coastal						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	
TOTAL									
1988-89	4263	2890	7153	967	955	1922	5230	3845	9075
1989-90	4244	4513	8757	1144	955	2099	5388	5468	10856
1990-91	5713	3854	9567	1964	1251	3215	7677	5105	12782
1991-92	4765	4104	8869	3016	1373	4389	7781	5477	13258
1992-93	6233	4737	10970	3094	1339	4433	9327	6076	15403
1993-94	7585	6625	14210	3839	1421	5260	11424	8046	19470
1994-95	8606	6424	15030	5367	1885	7252	13973	8309	22282
1995-96	9951	8172	18123	5116	2471	7587	15067	10643	25710
1996-97	10769	7671	18440	6115	3277	9392	16884	10948	27832
1997-98	18744	10419	29163	5221	4223	9444	23965	14642	38607
1998-99	15924	8423	24347	6343	5616	11959	22267	14039	36306
1999-00 (P)	30098	7968	38066	10564	13890	24454	40662	21858	62520

3.1.5 Transshipment Traffic

(In '000 Tonnes)

State/Port	Commodity	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
GUJARAT	Silka	1909	3603	2522	2663	3348	3668	370	3
	Crude Oil	-	-	-	-	-	-	-	4
	Propylene	-	-	60	-	-	-	-	-
	Iron Ore	24	-	-	-	-	-	-	-
	Coal Cargo	-	-	-	-	-	-	-	-
Bhavnagar	Iron Ore	269	334	476	78	-	-	317	481
	Clinker	-	-	57	57	-	609+	-	-
	Iron&steel	-	8	94	88	-	-	39	141
	Lime stone	-	-	-	-	-	-	71	12
	EDC	-	-	-	-	-	221+	63	-
Magdalla	Paraxylene	-	-	-	-	-	-	47	-
	Copper	-	-	-	-	-	-	-	12
	Wheat	123	-	-	-	-	-	-	-
ANDHRA PRADESH	Kakinada	-	-	-	-	-	-	-	-
MAHARASHTRA	General cargo	-	3	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
TAMIL NADU	Cuddalore	-	-	-	1	-	-	-	-
PONDICHERY	Black Feed Oil	-	-	-	-	45	-	-	-
	Total Transshipment	2325	3948	3209	2887	3393	4498	907	653

* Commoditywise details are not available.

3.1.1.6 Overseas Cargo Traffic Handled in Principal Commodities

		(In '000 Tonnes)											
Commodity		1996-97					1997-98					1998-99	
		Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total	Unloaded	Loaded	Total
1	2	3	4	5	6	7	8	9	10				
GUJARAT													
Fertilizer & FRM	8912	6191	15103	13587	8666	22253	11293	5268	16561				
Iron Ore	1393	-	1393	1933	-	1933	1846	-	1846				
Cement & Clinker	500	-	500	201	-	201	-	-	-				
Oil Cakes	1	1460	1461	-	3353	3353	-	2418	2418				
Coal	-	2149	2149	-	2201	2201	-	1325	1325				
POL&Other Products	1912	-	1912	3415	-	3415	4267	-	4267				
Transshipment	254	-	254	1954	641	2595	2500	77	2577				
Others	3348	-	3348	4498	-	4498	907	-	907				
	1504	2582	4086	1586	2471	4057	1773	1448	3221				
MAHARASHTRA													
Ethylene	899	137	1036	3519	191	3710	3200	129	3329				
Iron Ore +	88	-	88	31	-	31	132	-	132				
Coal	792	-	792	2468	-	2468	2358	23	2381				
POL&Other Products	-	-	-	851	-	851	529	-	529				
Iron & Steel	-	-	-	16	-	16	148	-	148				
Others	19	76	76	-	177	177	-	106	106				
		61	80	153	14	167	33	-	33				
GOA													
Coal	167	85	252	236	622	858	104	1685	1789				
Iron ore	122	63	185	236	-	236	104	-	104				
Others	45	-	45	-	622	622	-	1685	1685				
	-	22	22	-	-	-	-	-	-				
KARNATAKA													
Fertilizer &FRM	85	199	284	134	169	303	68	88	156				
Foodgrains	38	2	40	92	5	97	36	11	47				
Granite	47	-	47	22	2	24	23	-	23				
Others	-	94	94	-	159	159	-	74	74				
	-	103	103	20	3	23	9	3	12				

*Includes Iron ore, Pallets.

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

(In '000 Tonnes)

Commodity	1996-97		1997-98		1998-99				
	Unloaded	Loaded	Total	Unloaded	Loaded	Total			
1	2	3	4	5	6	7	8	9	10
KERALA									
Ilmenite	-	52	52	-	82	82	-	54	54
Others	-	51	51	-	81	81	-	52	52
	-	1	1	-	1	1	-	2	2
TAMILNADU									
Fertilizer &FRM	31	3	34	62	-	62	76	-	76
Chemicals	8	-	8	51	-	51	51	-	51
Others	-	-	-	5	-	5	19	-	19
	23	3	26	6	-	6	6	-	6
ANDHRA PRADESH									
Fertilizer &FRM	579	916	1495	1133	544	1677	1138	1079	2217
Foodgrains	360	-	360	584	-	584	768	-	768
Others	86	139	225	118	257	375	182	1001	1183
	133	777	910	431	287	718	188	78	266
PONDICHERY									
Wheat	45	-	45	N	-	N	23	-	23
Black Feed oil	-	-	-	N	-	N	-	-	-
	45	-	45	N	-	N	-	-	-

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

		(In '000 Tonnes)									
		1996-97					1997-98				
		:					:				
Commodity		1996-97					1997-98				
		:Unloaded Loaded Total					:Unloaded Loaded Total				
1	2	3	4	5	6	7	8	9	10		
ORISSA	51	88	139	56	145	201	-	120	120		
Fertiliser & FRM	51	88	139	56	-	56	-	120	120		
Illmenite	-	-	-	-	145	145	-	-	-		
ANDAMAN & NICOBAR ISLANDS	-	-	-	17	-	17	22	-	22		
TOTAL	10769	7671	18440	18744	10419	29163	15924	8423	24347		
Fertilizer & FRM	1850	90	1940	2716	5	2721	2701	131	2832		
Iron Ore	1337	-	1337	2669	622	3291	2358	1708	4066		
Foodgrains	133	139	272	140	259	399	228	1001	1229		
Oil Cakes	-	2149	2149	-	2201	2201	-	1325	1325		
Cement & Clinker	1	1460	1461	-	3353	3353	-	2418	2418		
Granite	-	94	94	-	159	159	-	74	74		
Coal	2034	63	2097	4502	-	4502	4900	-	4900		
Ethylene	88	-	88	31	-	31	132	-	132		
POL&Other Products	254	-	254	1970	641	2611	2648	77	2725		
Chemicals	-	-	-	5	-	5	19	-	19		
Illmenite	-	51	51	-	226	226	-	52	52		
Iron & Steel	-	76	76	-	177	177	-	106	106		
Others	1724	3549	5273	2213	2776	4989	2031	1531	3562		
Transshipment	3348	-	3348	4498	-	4498	907	-	907		

3.1.7 Coastal Cargo Traffic Handled in Principal Commodities

(In '000 Tonnes)

Commodity	1996-97				1997-98				1998-99			
	Unloaded		Loaded		Unloaded		Loaded		Unloaded		Loaded	
	1	2	3	4	5	6	7	8	9	10	Total	Total
GUJARAT												
1. Building Material	500	1275	1775	692	870	1562	713	1946	2659			
2. Iron Ore	1747	272	2019	2616	391	3007	2166	345	2511			
3. Salt	-	150	150	-	56	56	-	97	97			
4. Coal	150	-	150	239	-	239	90	-	90			
5. POL & Other Products	170	-	170	154	15	169	183	3	186			
6. Others	38	453	491	122	307	429	343	475	818			
MAHARASHTRA	3080	128	3208	795	180	975	1748	118	1866			
1. Building Material*	717	6	723	795	1	796	1446	-	1446			
2. Iron ore & Pallet	1984	69	2053	-	20	20	232	40	272			
3. Thermal Coal	379	-	379	-	-	-	-	-	-			
4. POL & Other Products	-	-	-	-	-	-	61	-	61			
5. Iron & Steel	-	52	52	-	159	159	-	76	76			
6. Others	-	1	1	-	-	-	9	2	11			
GOA	52	91	143	53	74	127	102	283	385			
1. Iron ore	52	88	140	48	61	109	98	282	380			
2. Others	-	3	3	5	13	18	4	1	5			

* Include Clinkers

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

(In'000 Tonnes)												
Commodity	1996-97				1997-98				1998-99			
	: Unloaded		Loaded		Total : Unloaded		Loaded		Total : Unloaded		Loaded	
	1	2	3	4	5	6	7	8	9	10		
KARNATAKA												
1.Granite	129		111	240	86	115	201	119	129	248		
2.Other ores	-		58	58	-	48	48	-	81	81		
3.Salt	-		24	24	-	27	27	-	18	18		
4.Others	109		-	109	59	-	59	77	-	77		
	20		29	49	27	40	67	42	30	72		
ANDHRA PRADESH												
1. Salt	10		722	732	59	1802	1861	414	1547	1961		
2.POL&Other Products	-		-	-	29	-	29	76	-	76		
3.Building Material	-		722	722	30	1769	1799	338	1523	1861		
4.Others	-		-	-	-	33	33	-	24	24		
	10		-	10	-	-	-	-	-	-		
KERALA												
1.Building Material	5		14	19	14	20	34	20	30	50		
2.Others	5		5	10	1	14	15	-	-	-		
	-		9	9	13	6	19	20	30	50		
TAMIL NADU												
POL & Other Products	-		-	-	-	206	206	-	394	394		
	-		-	-	-	206	206	-	394	394		
LAKSHADWEEP												
Misc.Cargo	...		...	...	23	-	23	23	-	23		
	...		...	...	23	-	23	23	-	23		

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

(In '000 Tonnes)

Commodity	1996-97		1997-98		1998-99				
	: Unloaded	: Loaded	Total	: Unloaded	: Loaded	Total			
(1)	2	3	4	5	6	7	8	9	10
ANDAMAN & NICOBAR ISLANDS									
1. Building Material	45	45	90	55	32	87	71	38	109
2. Food Grain	46	-	46	51	-	51	77	-	77
3. POL & other Products	74	-	74	76	-	76	94	-	94
4. Others	69	16	85	186	155	341	180	211	391
TOTAL	6115	3277	9392	5221	4223	9444	6343	5616	11959
1. Building Material	1267	1331	2598	1543	950	2493	2230	2008	4238
2. Salt	109	150	259	88	56	144	153	97	250
3. Iron ore & Pellets	3783	429	4212	2664	472	3136	2496	667	3163
4. Food Grains	46	-	46	51	-	51	77	-	77
5. POL & other Products	244	722	966	260	1990	2250	676	1920	2596
6. Coal	529	-	529	239	-	239	90	-	90
7. Iron & Steel	-	52	52	-	159	159	-	76	76
8. Other Ores	-	24	24	-	27	27	-	18	18
9. Granite	-	58	58	-	48	48	-	81	81
7. Others	137	511	648	376	521	897	621	749	1370

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports
During 1997-98 and 1998-99**

(In '000 Tonnes)

Port/Commodity	Unloaded			Loaded			Total
	1997-98	1998-99	1997-98	1997-98	1998-99	1997-98	1998-99
1	2	3	4	5	6	7	
GUJARAT							
1. Bedi							
a) Foodgrains	582	403	2039	1092	2621	1495	
b) Other Fertilizers	93	27	9	69	102	96	
c) Oil Cakes	461	354	-	-	461	354	
d) Others	-	-	2023	1018	2023	1018	
	28	22	7	5	35	27	
2. Okha							
a) Foodgrains	878	689	548	494	1426	1183	
b) Building Material	-	-	12	6	12	6	
c) Chemicals	-	-	195	34	195	34	
d) Coke & Coal	-	-	31	16	31	16	
e) Ore	876	679	-	-	876	679	
f) Others	-	-	310	413	310	413	
	2	10	-	25	2	35	
3. Bhavnagar							
a) Fertilizer & FRM	1181	933	281	165	1462	1098	
b) Other fertilizers	262	224	-	-	262	224	
c) Food grains	250	259	-	-	250	259	
d) Others	59	-	-	-	59	-	
e) Transhipment	1	23	281	165	282	188	
	609	427	-	-	609	427	
4. Navalakh							
a) Foodgrains	611	1065	141	37	752	1102	
b) Fertilizer finished	-	-	12	-	12	-	
c) Salt	122	-	-	-	122	-	
d) Coal	-	-	129	-	129	-	
e) Others	457	1006	-	-	457	1006	
	32	59	-	37	32	96	

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports
During 1997-98 and 1998-99 (Contd.)**

(In '000 Tonnes)

Port/Commodity	Unloaded			Loaded		Total		
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
	1	2	3	4	5	6	7	
5. Silka								
a) Fertiliser & FRM	4462	1431	210	28	4672	1459		
b) Building Material	627	578	-	-	627	578		
c) Coal	-	-	210	26	210	26		
d) Others	120	244	-	-	120	244		
e) Transhipment	47	239	-	2	47	241		
	3668	370	-	-	3668	370		
6. Magdalla								
a) Fertiliser & FRM	4099	4629	1008	571	5107	5200		
b) POL&Other Products	198	202	-	-	198	202		
c) Iron Ore	1874	2263	641	77	2515	2340		
d) Iron & Steel	198	-	-	-	198	-		
e) Coal	335	266	273	312	608	578		
f) Others	622	944	-	-	622	944		
g) Transhipment	651	844	94	182	745	1026		
	221	110	-	-	221	110		
7. Jafarabad								
a) Coal	495	524	1766	1746	2261	2270		
b) Building Material	495	524	-	-	495	524		
	-	-	1766	1746	1766	1746		
8. Veraval								
a) Coal	494	610	822	439	1316	1049		
b) Building Material	453	610	-	-	453	610		
c) Others	-	-	816	439	816	439		
	41	-	6	-	47	-		
9. Porbandar								
a) Coal	392	197	686	115	1078	312		
b) Building Material	392	193	-	-	392	193		
c) Others	-	-	334	21	334	21		
	-	4	352	94	352	98		

3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports
During 1997-98 and 1998-99 (Contd..)

		(In '000 Tonnes)					
Port/Commodity		Unloaded			Loaded		Total
		1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
1		2	3	4	5	6	7
MAHARASHTRA							
1. Revdanda		781	774	167	129	948	903
a) Iron Ore		781	744	-	23	781	767
b) Iron & Steel		-	30	167	106	167	136
2. Ratnagiri		183	212	-	-	183	212
a) Ethylene		167	132	-	-	167	132
b) POL&Other Products		16	80	-	-	16	80
3) Dharatar		1687	1614	8	-	1695	1614
a) Iron ore		1687	1614	-	-	1687	1614
b) Others		-	-	8	-	8	-
4) Dahenu		712	452	13	-	725	452
a) Coal		712	452	-	-	712	452
b) Other		-	-	13	-	13	-

**3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports
During 1997-98 and 1998-99 (Contd..)**

(In '000 Tonnes)

Port/Commodity	Unloaded			Loaded			Total	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
1	2	3	4	5	6	7		
KARNATAKA								
1. Karwar	118	68	168	86	286	154		
a) Foodgrains	22	23	-	-	22	23		
b) Rock Phosphate	70	36	-	-	70	36		
c) Fertilizer finished	22	-	-	-	22	-		
d) Granite	-	-	158	74	158	74		
e) P.Acid	-	-	5	12	5	12		
g) Others	4	9	5	-	9	9		
2. Mangalore	16	-	1	2	17	2		
a) Fertilizer finished	16	-	-	-	16	-		
b) Others	-	-	1	2	1	2		
KERALA								
Neendakara	-	-	81	52	81	52		
a) Ilmenite	-	-	81	52	81	52		
PUNITPADO								
1. Cuddalore	26	25	-	-	26	25		
a) Fertilizer finished	15	-	-	-	15	-		
b) Chemicals	5	17	-	-	5	17		
c) Others	6	8	-	-	6	8		
GOA								
Panaji	236	104	622	1685	858	1789		
a) Iron ore	-	-	622	1685	622	1685		
b) Coal	236	104	-	-	236	104		

3.1.8 Overseas Cargo Traffic At Selected Minor/Intermediate Ports
During 1997-98 and 1998-99 (Contd...)

(In '000 Tonnes)

Port/Commodity	Unloaded		Loaded		Total	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
1	2	3	4	5	6	7
ANDHRA PRADESH						
1 Kakinada Anchorage Port						
a) Foodgrains	681	489	512	1007	1193	1496
b) Fertiliser & FRM	96	118	257	1001	353	1119
c) Others	551	322	-	-	551	322
	34	49	255	6	289	55
2 Kakinada Deep Water Port						
a) Foodgrains	452	649	32	72	484	721
b) Fertiliser & FRM	22	64	-	-	22	64
c) Iron & steel	362	446	-	-	362	446
d) Others	-	-	32	51	32	51
	68	139	-	21	68	160
ORISSA						
1. Gopalpur						
a) Illmenite	56	-	145	120*	201	120*
b) Fertiliser & FRM	-	-	145	...	145	...
	56	-	-	...	56	...
Total (above Ports)	18142	14868	9250	7840	27392	22708
Total for all Minor/Intermediate Ports	18744	15924	10419	8423	29163	24347

* Commodity-wise details are not available.

**3.1.9 Coastal Cargo Traffic Handled At Selected Minor/Intermediate Ports
During 1997-98 And 1998-99**

(In '000 Tonnes)

Port/Commodity	Unloaded			Loaded			Total	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99		
1	2	3	4	5	6	7		
GUJARAT								
1. Okha								
a) POL&Other Products	308	180	65	93	373	273		
b) Bauxite	150	120	-	-	150	120		
c) Coal	-	-	11	-	11	-		
d) Building Material	154	60	-	-	154	60		
e) Others	2	-	40	82	42	82		
	2	-	14	11	16	11		
2. Magdalla								
a) Cement Clinkers	3374	3077	600	702	3974	3779		
b) Iron Ore	691	713	-	-	691	713		
c) Iron & Steel	2616	2166	391	345	3007	2511		
d) Others	37	-	86	24	123	24		
	30	198	123	333	153	531		
3. Jafarabad								
a) Cement Clinkers	-	-	-	602	-	602		
	-	-	-	602	-	602		
4. Silka								
a) Salt	11	58	54	77	65	135		
b) Coal	-	-	54	73	54	73		
c) Machinery	11	-	-	-	11	-		
d) Others	-	57	-	-	-	57		
	-	1	-	4	-	5		
MAHARASHTRA								
1. Ratnagiri								
a) Cement Clinkers	269	784	1	-	270	784		
b) POL&Other Products	269	766	1	-	270	766		
	-	18	-	-	-	18		

3.1.9 Coastal Cargo Traffic Handled At Selected Minor/Intermediate Ports
During 1997-98 And 1998-99 (Contd..)

Port/Commodity	(In '000 Tonnes)						
	Unloaded			Loaded			Total
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1998-99
1	2	3	4	5	6	7	
2. Revdanda	-	232	178	66	178	298	
a) Iron Ore Pellet	-	232	19	8	19	240	
b) Iron & Steel	-	-	159	58	159	58	
3. Ulwa-Belapur	524	680	-	-	524	680	
a) Cement	524	680	-	-	524	680	
GOA							
Panaji	53	102	74	283	127	385	
a) Iron ore	48	99	61	282	109	381	
b) Others	5	3	13	1	18	4	
KARNATAKA							
1. Karwar	58	73	-	-	58	73	
a) Salt	54	73	-	-	54	73	
b) Cement	4	-	-	-	4	-	
KERALA							
1. Kozhikode/Beyypore	13	20	19	29	32	49	
a) Building material	-	-	15	-	15	-	
b) Rice/Wheat	8	-	-	-	8	-	
c) Others	5	20	4	29	9	49	
ANDHRA PRADESH							
1. Rawa Port	-	-	1769	1523	1769	1523	
a) Crude Oil	-	-	1769	1523	1769	1523	

**3.1.9 Coastal Cargo Traffic Handled At Selected Minor/Intermediate Ports
During 1997-98 And 1998-99 (Contd.)**

(In '000 Tonnes)

Port/Commodity	Unloaded			Loaded			Total	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99		
	1	2	3	4	5	6	7	
TAMIL NADU								
py-03	-	-	-	206	394	206	394	
Crude Oil	-	-	-	206	394	206	394	
ANDAMAN & NICOBAR ISLANDS								
a) Building Material	368	422	187	249	555	671		
b) POL&Other Products	55	71	32	38	87	109		
c) Foodgrains	76	94	-	-	76	94		
c) Others	51	77	-	-	51	77		
	186	180	155	211	341	391		
TOTAL FOR ABOVE PORTS								
a) POL&Other Products	4978	5628	3153	4018	8131	9646		
b) Other Ore	226	232	1975	1917	2201	2149		
c) Salt	-	-	11	-	11	-		
d) Iron Ore & Pellets	54	73	54	73	108	146		
e) Building material	2664	2497	471	635	3135	3132		
f) Foodgrains	1545	2230	88	722	1633	2952		
g) Coal	59	77	-	-	59	77		
h) Iron & steel	165	60	-	-	165	60		
i) Others	37	-	245	82	282	82		
	228	459	309	589	537	1048		
Total All Minor/ Intermediate Ports	5221	6343	4223	5616	9444	11959		

3.1.10 Cargo Traffic Handled At Selected Minor /Intermediate Ports (Portwise) in 1997-98 & 1998-99

(In '000 Tonnes)

State/Port	Overseas										Coastal				Total			
	1997-98		1998-99		1997-98		1998-99		1997-98		1998-99		1997-98		1998-99		1997-98	
	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	11	12	13						
GUJARAT	13587	11293	8666	5268	3923	3495	1639	2866	17410	14788	10305	8134						
Mandvi	-	-	164	25	-	-	24	16	-	-	188	41						
Navlekhl	611	1064	141	37	-	-	-	-	611	1064	141	37						
Bedi	582	403	2038	1092	50	-	-	-	632	403	2038	1092						
Sikka	795	1061	210	28	11	58	54	77	806	1119	264	105						
Okha	878	689	548	493	308	180	65	93	1186	869	613	596						
Porbandar	392	197	686	115	78	27	10	7	470	224	696	122						
Veraval	494	610	822	439	2	-	836	1253	496	610	1658	1692						
Bhavnagar	572	506	281	164	-	-	-	1	572	506	281	165						
Magdalla	3878	4519	1008	571	3374	3077	600	702	7252	7596	1608	1273						
Mundra (Old)	1	4	106	80	-	-	-	31	1	4	106	111						
Jafrabad	495	524	1766	1746	-	-	-	602	495	524	1766	2348						
Dahej	202	532	-	49	-	58	-	-	202	590	-	49						
Jakhau	-	-	-	-	-	-	23	4	-	-	23	4						
GPPL (Pipavav)	189	155	895	315	-	95	23	80	189	250	918	395						
GAPL (Mundra)	-	122	-	114	-	-	-	-	-	122	-	114						
Transshipment	4498	907	-	-	-	-	-	-	4498	907	-	-						
Others	-	-	1	-	-	-	4	-	-	-	5	-						

3.1.10 Cargo Traffic Handled At Selected Minor/Intermediate Ports (Portwise) In 1997-98 & 1998-99 (Contd.)

(In '000 Tonnes)

State/Port	Overseas				Coastal				Total			
	Unloaded		Loaded		Unloaded		Loaded		Unloaded		Loaded	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10	11	12	13
MAHARASHTRA	3519	3200	191	129	795	1748	180	118	4314	4948	371	247
Ratnagiri	183	212	-	-	269	784	1	-	452	996	1	-
Revanda	781	774	167	129	-	232	178	66	781	1006	345	195
Ulwa-Belapur	-	-	-	-	524	680	-	-	524	680	-	-
Dharamtar	1687	1614	10	-	1	-	-	50	1688	1614	10	50
Dahanu	712	452	13	-	-	-	-	-	712	452	13	-
Mandwa	139	77	-	-	-	6	-	-	139	83	-	-
Dabhol	17	71	1	-	1	44	1	-	18	115	2	-
Others	-	-	-	-	-	2	-	2	-	-	-	2
GOA	236	104	622	1685	53	102	74	283	289	206	696	1968
Panaji	236	104	622	1685	53	102	74	283	289	206	696	1968
DAMAN & DIU	-	-	-	-	-	-	-	-	-	-	-	-
Daman	-	-	-	-	-	-	-	-	-	-	-	-
KARNATAKA	134	68	169	88	86	119	115	129	220	187	284	217
Karwar	118	68	168	86	58	73	-	-	176	141	168	86
Mangalore	16	-	1	2	26	45	82	110	42	45	83	112
Tadri	-	-	-	-	-	-	6	1	-	-	6	1
Malpe	-	-	-	-	2	1	27	18	2	1	27	18

3.1.10 Cargo Traffic Handled At Selected Minor/Intermediate Ports (Portwise) in 1997-98 & 1998-99 (Contd.)

(In '000 Tonnes)																
State/Port	Overseas												Coastal		Total	
	Unloaded		Loaded		Unloaded		Loaded		Unloaded		Loaded		Unloaded		Loaded	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
	2	3	4	5	6	7	8	9	10	11	12	13				
1																
KERALA																
Kozhikode	-	-	82	54	14	20	20	30	14	20	102	84				
/Beypore	-	-	-	-	13	20	19	29	13	20	19	29				
Neendakara	-	-	81	52	-	-	-	-	-	-	91	52				
Others	-	-	1	2	1	-	1	1	1	-	2	3				
TAMIL NADU																
Cuddalore	62	76	-	-	-	-	206	394	62	76	206	394				
Ennore	26	25	-	-	-	-	-	-	26	25	-	-				
Py-3	36	51	-	-	-	-	-	-	36	51	-	-				
PONDICHERY	-	-	-	-	-	-	206	394	-	-	206	394				
ANDHRA PRADESH																
Kakinada Anchorage	1133	1138	544	1079	59	414	1802	1547	1192	1552	2346	2626				
Kakinada Deep Water	681	489	512	1007	10	34	33	24	691	523	545	1031				
Rawa	452	649	32	72	49	380	-	-	501	1029	32	72				
ORISSA	-	-	-	-	-	-	1769	1523	-	-	1769	1523				
Gopalpur	56	-	145	120	-	-	-	-	56	-	145	120				
SEA ISLANDS	17	22	-	-	391	445	187	249	408	467	187	249				
A & N Islands	17	22	-	-	368	422	187	249	385	444	187	249				
Lakshadweep	-	-	-	-	23	23	-	-	23	23	-	-				
Total all Minor /Intermediate Ports	18744	15924	10419	8423	5221	6343	4223	5616	23965	22267	14642	14039				

**3.1.11 State-Wise Cargo Handled At Minor /Intermediate Ports (1997-98 & 1998-99)
By Steamers And Sailing Vessels**

(In '000 Tonnes)

State / Port	Overseas					Coastal					Total	
	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Overseas & Coastal	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99		
1	2	3	4	5	6	7	8	9	10	11		
GOA	13587	11293	8666	5268	3823	3495	1639	2866	27715	22922		
Steamers	9075	10363	8618	5219	3823	3495	1576	2822	23092	21899		
Sailing Vessels	14	23	48	49	-	-	63	44	125	116		
Transshipment	4498	907	-	-	-	-	-	-	4498	907		
MAHARASHTRA	3519	3200	191	129	795	1748	180	118	4685	5195		
Steamers	3519	3200	191	129	795	1748	180	118	4685	5195		
Sailing Vessels	-	-	-	-	-	-	-	-	-	-		
GOA	236	104	622	1685	53	102	74	283	985	2174		
Steamers	236	104	622	1685	53	102	74	283	985	2174		
Sailing Vessels	-	-	-	-	-	-	-	-	-	-		
DAMAN & DIU	-	-	-	-	-	-	-	-	-	-		
Steamers	-	-	-	-	-	-	-	-	-	-		
Sailing Vessels	-	-	-	-	-	-	-	-	-	-		
KARNATAKA	134	687	169	88	86	119	115	129	504	404		
Steamers	134	68	168	87	76	108	2	-	380	263		
Sailing Vessels	-	-	1	1	10	11	113	129	124	141		
KERALA	-	-	82	54	14	20	20	30	116	104		
Steamers	-	-	81	54	13	20	19	30	113	104		
Sailing Vessels	-	-	1	-	1	-	1	-	3	-		

3.1.11 State-Wise Cargo Handled At Minor /Intermediate Ports (1997-98 & 1998-99)
By Steamers And Sailing Vessels (Contd..)

(In '000 Tonnes)												
State / Port		Overseas					Coastal					Total
		Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded	Loaded	
1997-98		1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10	11		
TAMILNADU												
Steamers	62	76	-	-	-	-	206	394	268	470		
Sailing Vessels	62	76	-	-	-	-	206	394	268	470		
PONDICHERY												
Steamers	N	23	-	-	-	-	-	-	-	N	23	
Sailing Vessels	N	23	-	-	-	-	-	-	-	N	23	
ANDHRA PRADESH												
Steamers	1133	1138	544	1079	59	414	1802	1547	3538	4178		
Sailing Vessels	1133	1138	544	1079	59	414	1802	1547	3538	4178		
ORISSA												
Steamers	56	-	145	120	-	-	-	-	201	120		
Sailing Vessels	56	-	145	120	-	-	-	-	201	120		
SEA ISLANDS												
Steamers	17	22	-	-	391	445	187	249	595	716		
Sailing Vessels	17	22	-	-	391	445	187	249	595	716		
Total												
Steamers	18744	15924	10419	8423	5221	6343	4223	5616	38607	36306		
Sailing Vessels	14232	14994	10369	8373	5208	6332	4046	5443	33857	35142		
Transshipment	14	23	50	50	13	11	177	173	252	257		
	4498	907	-	-	-	-	-	-	4498	907		

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers/Sailing Vessels-1998-99.

(In '000 Tonnes)

State / Selected Port	Steamers				Sailing Vessels				Total	
	Overseas		Coastal		Overseas		Coastal		Steamers	Sailing Vessels
	UL	L	UL	L	UL	L	UL	L		
1	2	3	4	5	6	7	8	9	10	11
GUJARAT										
Magdalla	11270	5219	3495	2822	23	49	-	44	22806	116
Bedi	4519	571	3077	702	-	-	-	-	9869	-
Jafarabad	385	1092	-	-	18	-	-	-	1477	18
Veraval	524	1746	-	602	-	-	-	-	2872	-
Okha	610	439	-	1236	-	-	-	17	2285	17
Porbandar	689	485	180	92	-	7	-	1	1446	6
Sikka	196	115	27	2	1	-	-	5	340	6
Navlakhi	1061	28	58	77	-	-	-	-	1224	-
Bhavnagar	1064	37	-	-	-	-	-	-	1101	-
Mundra (Old)	506	165	-	1	-	-	-	-	672	-
Mandvi	-	38	-	30	4	42	-	1	68	47
Dahaj	-	25	-	16	-	-	-	-	41	-
GPPL (Elpavav)	532	49	58	-	-	-	-	-	639	-
Jakhau	155	315	95	60	-	-	-	20	625	20
GAPL (Mundra)	-	-	-	4	-	-	-	-	4	-
Transshipment	122	114	-	-	-	-	-	-	236	-
	907	-	-	-	-	-	-	-	907	-
MHARASHTRA										
Ratnagiri	3200	129	1748	118	-	-	-	-	5195	-
Ulwa Belapur	212	-	784	-	-	-	-	-	996	-
Revdamda	-	-	680	-	-	-	-	-	680	-
Dharmtar	774	129	232	66	-	-	-	-	1201	-
Dahanu	1614	-	-	50	-	-	-	-	1664	-
Mandwa	452	-	-	-	-	-	-	-	452	-
Dabhol	77	-	6	-	-	-	-	-	83	-
Others	71	-	44	-	-	-	-	-	115	-
	-	-	2	2	-	-	-	-	4	-

Note : UL - Unloaded; L - Loaded.

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers/Sailing Vessels-1998-99. (Contd..)

State / Selected Port	(In '000 Tonnes)										
	Steamers				Sailing Vessels				Total		
	Overseas		Coastal		Overseas		Coastal		Steamers		Sailing Vessels
	UL	L	UL	L	UL	L	UL	L			
1	2	3	4	5	6	7	8	9	10	11	
KERALA											
Neendakara	-	54	20	30	-	-	-	-	-	104	-
Kozhikode/Beyppore	-	52	-	-	-	-	-	-	-	52	-
Others	-	-	29	29	-	-	-	-	-	49	-
	-	2	1	1	-	-	-	-	-	3	-
GOA (Panaji)	104	1685	102	283	-	-	-	-	-	2174	-
DAMAN & DIU	-	-	-	-	-	-	-	-	-	-	-
Daman	-	-	-	-	-	-	-	-	-	-	-
KARNATAKA											
Malpe	68	87	108	-	-	1	11	129	263	141	-
Karwar	-	-	-	-	-	-	1	18	-	19	-
Mangalore	68	86	73	-	-	-	-	-	227	-	-
Others	-	1	35	-	-	1	10	110	36	121	-
	-	-	-	-	-	-	-	1	-	1	-
TAMILNADU											
Cuddalore	76	-	-	394	-	-	-	-	470	-	-
Ennore	25	-	-	-	-	-	-	-	25	-	-
PY-03	51	-	-	-	-	-	-	-	51	-	-
	-	-	-	394	-	-	-	-	394	-	-

Note : UL - Unloaded; L - Loaded.

3.1.12 - Port-Wise Cargo Traffic Handled By Steamers/Sailing Vessels-1998-99. (Contd..)

(In '000 Tonnes)

State / Selected Port	Steamers				Sailing Vessels				Total	
	Overseas		Coastal		Overseas		Coastal		Steamers	Sailing Vessels
	UL	L	UL	L	UL	L	UL	L		
1	2	3	4	5	6	7	8	9	10	11
PONDICHERY	23	-	-	-	-	-	-	-	23	-
ANDHRA PRADESH	1138	1079	414	1547	-	-	-	-	4178	-
Kakinada Anchorage	489	1007	34	24	-	-	-	-	1554	-
Kakinada Deep Water Raws	649	72	380	-	-	-	-	-	1101	-
	-	-	-	1523	-	-	-	-	1523	-
ORISSA	-	120	-	-	-	-	-	-	120	-
Gopalpur	-	120	-	-	-	-	-	-	120	-
LAKSHADWEEP	-	-	23	-	-	-	-	-	23	-
ANDAMAN & NICOBAR ISLANDS	22	-	422	249	-	-	-	-	693	-
TOTAL	15901	8373	6332	5443	23	50	11	173	36049	257

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
1988-89	-	-	86371	86427	86371	86427
1989-90	-	-	84842	84421	84842	84421
1990-91	-	-	72050	69561	72050	69561
1991-92	-	-	78033	77826	78033	77826
1992-93	41	-	75958	73473	75999	73473
1993-94	-	-	77489	76639	77489	76639
1994-95	-	-	79752	76590	79752	76590
1995-96	-	-	91487	86343	91487	86343
1996-97	15	1	77568	73937	77583	73938
1997-98	24	25	86098	84280	86122	84305
1998-99	-	-	76901	76306	76901	76306

3.2.2-State wise Passenger Traffic(Overseas And Coastal)

(In '00 Numbers)

State/UT/Port	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8	9	10	11	12
GUJARAT	596	10697	1056	1056	1602	1037	325	309	486	376	2
Embarked	311	5329	531	531	827	551	163	158	243	188	1
Disembarked	285	5368	525	525	775	486	162	151	243	188	1
MAHARASHTRA	155919	139701	121817	135137	128146	132928	139669	160532	134077	154348	136278
Embarked	77968	70199	62236	67790	65396	66964	71437	82900	68871	78119	68490
Disembarked	77951	69502	59581	67347	62750	65964	68232	77632	65206	76229	67788
GOA	-	-	-	-	-	-	-	-	-	437	61
Embarked	-	-	-	-	-	-	-	-	-	239	26
Disembarked	-	-	-	-	-	-	-	-	-	198	35
KERALA	20	36	33	33	39	50	87	46	46	86	86
Embarked	10	11	4	4	21	26	43	14	14	51	51
Disembarked	10	25	29	29	18	24	44	32	32	35	35

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

		(In '00 Numbers)											
State/UT/Port	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99		
1	2	3	4	5	6	7	8	9	10	11	12		
TAMILNADU	14380	14494	14020	14800	14852	15280	15172	15690	15543	13772	15286		
Embarked	7190	7247	7010	7400	7447	7640	7586	7845	7772	6886	7643		
Disembarked	7190	7247	7010	7400	7405	7640	7586	7845	7771	6886	7643		
ANDAMAN & NICOBAR ISLANDS	854	3288	4685	4833	4833	4833	1089	1253	1369	1408	1494		
Embarked	375	1547	2269	2308	2308	2308	523	570	683	639	690		
Disembarked	479	1741	2416	2525	2525	2525	566	683	686	769	804		
LAKSHADWEEP	1029	1047	...	...	...	...	...	...	...	...	...		
Embarked	517	509	...	...	...	...	...	...	...	...	...		
Disembarked	512	538	...	...	...	...	...	...	...	...	...		
ALL MINOR/ INTERMEDIATE PORTS	172798	169263	141611	155859	149472	154128	156342	177830	151521	170427	153207		
Embarked	86371	84842	72050	78033	75999	77489	79752	91487	77583	86122	76901		
Disembarked	86427	84421	69561	77826	73473	76639	76590	86343	73938	84305	76306		

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

(In Number)

Type of Vessel/ Year	Gujarat	Madhya	Goa	Daman	Karnataka	Kerala	Tamil	Pondicherry	Andhra	Orissa	Sea
	shtra			Diu	Goa		Madu	cherry	Pradesh		Island
1	2	3	4	5	6	7	8	9	10	11	12
STEAMERS											
1992-93	2030	117	104	-	83	45	31	2	153	10	1571
1993-94	2109	132	104	-	65	55	20	2	184	11	1612
1994-95	2313	433	104	-	73	65	27	2	126	9	1786
1995-96	2559	500	104	-	63	71	19	4	216	9	4812
1996-97	2494	418	104	-	74	54	16	3	180	9	4507
1997-98	3401	540	74	-	74	78	23	1	236	9	4447
1998-99	3139	588	174	-	178	78	30	1	323	9	4716
SAILING VESSELS											
1992-93	2186	18390	11	255	1162	402	33	-	-	-	7
1993-94	6716	20053	11	255	813	389	68	-	-	-	27
1994-95	5613	18990	11	212	847	410	22	-	-	-	58
1995-96	4829	14484	11	120	993	378	28	-	-	-	17
1996-97	7518	14077	11	-	1057	321	14	-	-	-	-
1997-98	7608	16282	-	-	1069	283	31	-	-	-	-
1998-99	6896	12496	-	-	1081	283	15	-	-	-	120
TOTAL											
1992-93	4216	18507	115	255	1245	447	64	2	153	10	1578
1993-94	8825	20185	115	255	878	444	88	2	184	11	1639
1994-95	7926	19423	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	0	1131	375	30	3	180	9	4507
1997-98	11009	16822	74	0	1143	361	54	1	236	9	4447
1998-99	10035	13084	174	0	1259	361	45	1	323	9	4836

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

3.4.1 Employment At Minor/Intermediate Ports (1998-99)

States/UTs	(In Number)			
	Sanctioned	Officers Actual	Regular Workers Sanctioned	Casual Workers Actual
Gujarat	144	123	2386	1991
Maharashtra	67	53	176	149
Goa	9	8	148	130
Daman & Diu	2	2	21	18
Karnataka	146	73	29	17
Kerala	157	98	321	268
Tamil Nadu	58	43	129	117
Pondicherry	8	5	96	87
Andhra Pradesh	8	7	124	110
Orissa #	237	144	50	50
Andaman & Nicobar Islands	21	15	860	798
Lakshadweep	256	217	-	-
Total	1113	788	4340	3735
				2653

@ Data relates to 1994-95.

In Karwar Port in Karnataka cargo handling operation is done by stevedors and by Private Operators.

3.5.1 Physical Performance At Minor Ports (1997-98 & 1998-99)

Maritime State/UT	No. of Vessels		Average Waiting	
	Left		Time (In Days)	
	1997-98	1998-99	1997-98	1998-99
GUJARAT				
Porbandar	123	62	4.6	2.0
Okha	105	72	1.0	1.0
Veraval	14	8	0.9	1.0
Bedi	232	131	Neg	Neg
Sikka	120	179	Neg	Neg
Mahuva	14	-	Neg	-
Navalakhli	35	34	Neg	Neg
Jafarabad*	526	441	Neg	Neg
Bhavnagar @	59	49	Neg	Neg
Pipavav	241	221	Neg	Neg
Mul-Dwarka	65	60	0.1	1.0
GAPL	..	24	..	2.1

* Jafarabad 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 (1997-98 & 1998-99) (Contd...)

Maritime State/UT

Port	No. of Vessels Left		Average Waiting Time (in Days)	
	1997-98	1998-99	1997-98	1998-99
KARNATAKA				
Karwar	59	51	Neg	2.0
Tadri	37	10	Neg	Neg
Kundapura	20	14	Neg	Neg
Malpe	--	86	--	Neg
Old Mangalore	859	959	Neg	Neg
TAMIL NADU				
Cuddalore	24	17	0.4	0.8
PY-3	24	10	0.8	0.8
MAHARASHTRA				
Ratnagiri	120	144	0.4	0.4
Ranpar (Sub-port)	31	37	0.6	0.6
Dabhol	23	9	0.2	5.3

3.5.1 Physical Performance At Minor Ports (1997-98 & 1998-99) (Contd..)

Maritime State/UT	No. of Vessels Left		Average Waiting Time (In Days)	
Port	1997-98	1998-99	1997-98	1998-99
ANDHRA PRADESH				
Rawa port	29	29	Neg	Neg
Kakinada, Deep Water Port	82	131	Neg	Neg
GOA				
Panaji	74	175	5.1	4.5
KERALA				
Kozhikode/Bey pore	319	...	2.5	...
Neendakara	5	...	1.0	...
Azhikkal	23	...	...	...
Koavalam/ Vizhinjam	38	...	3.3	...
ANJ ISLANDS				
Berthing space is provided immediately .				

3.5.2 Equipments Available At Various Minor Ports

Maritime State/UT : GUJARAT										
Equipment/Port	Magdalla		Porbander		Okha		Bedi		GAPL	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
1. Dredgers	-	-	1	1	1	1	-	-	-	-
2. Cranes										
(a) upto 5 tons	-	-	1	1	1	1	1	1	-	-
(b) 6-10 tons	-	-	-	-	-	-	-	-	-	-
(c) above 10 tons	2	2	2	2	3	3	9	10	-	-
3. Barges										
(a) Dumb	1	-	2	2	-	-	4	1	-	-
(b) Self-propelled	2	2	-	-	3	3	2	1	-	-
4. Launches	1	1	1	1	2	2	3	3	-	2
5. Tugs	1	1	5	5	4	4	6	6	-	2

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

Maritime State/UT : GUJARAT		(Numbers)									
Equipment/Port	Veraval	Navalachi	Bhavnagar	Mandvi	Jafarabad						
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	
1. Dredgers	-	-	-	-	3	3	1	-	1	1	
2. Cranes											
(a) upto 5 tons	2	2	-	-	-	-	-	1	-	-	
(b) 6-10 tons	-	-	-	-	-	-	-	-	-	-	
(c) above 10 tons	5	5	9	9	-	-	-	-	-	-	
3. Barges											
(a) Dumb	16	16	13	10	5	7	6	11	1	1	
(b) Self Propelled	-	-	-	-	2	6	-	-	-	-	
4. Launches	-	-	-	-	1	1	1	1	-	-	
5. Tugs	5	5	-	-	3	3	3	2	1	-	

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

Maritime State/UT : KARNATAKA		(Numbers)		
Equipment/Port		Karwar		
		1997-98	1998-99	Old Mangalore 1997-98 1998-99
1. Dredgers		1	1	-
2. Cranes				
(a) upto 5 tons		-	-	-
(b) 6-10 tons		-	-	-
(c) above 10 tons		3	3	-
3. Barges				
(a) Dumb		-	-	1
(b) Self-propelled		-	-	-
(c) Water barges		-	-	-
4. Launches		-	-	-
5. Tugs		1	1	2

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

Maritime State/UT : TAMIL NADU						(Numbers)	
Equipment/Port	Cuddalore		Rameshwaram		Nagapattinam		
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	
1. Dredgers	2	2	-	-	-	-	
2. Cranes							
(a) upto 5 tons	-	-	-	-	1	1	
(b) 6-10 tons	1	2	-	-	-	-	
(c) above 10 tons	-	-	-	-	-	-	
3. Barges							
(a) Dumb	-	-	1	1	-	-	
(b) Self-propelled	1	1	-	-	-	-	
4. Launches	2	2	1	1	1	1	
5. Tugs	-	-	-	-	-	-	

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

Maritime State/UT : ANDHRA PRADESH		(Numbers)			
Equipment/Port	Kakinada Anchorage Port 1997-98	Kakinada, Deep Water Port 1997-98	1998-99	1997-98	1998-99
1. Dredgers	5	2	-	-	1
2. Cranes					
(a) upto 5 tons	1	-	-	-	1
(b) 6-10 tons	1	-	-	-	-
(c) above 10 tons	1	3	2	2	-
3. Barges					
(a) Dumb (Hopper barge)	7	-	-	-	-
(b) Self-propelled	2	2	-	-	-
(c) Water barges	-	-	-	-	-
4. Launches	8	8	-	-	1
5. Tugs	8	8	-	-	-
6. Pablos	-	-	3	3	-
7. Fork lifts	-	-	12	12	-

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

Maritime State/UT :		(Numbers)							
Equipment/Port		ORISSA (Gopal Pur)		MAHARASHTRA*		LAKSHADWEEP*			
		1997-98	1998-99	1997-98	1998-99	1997-98	1998-99		
1. Dredgers		2	...	3	3	-	-	-	-
2. Cranes									
(a) upto 5 tons		4	...	-	-	-	-	-	-
(b) 6-10 tons		2	...	-	-	-	-	-	-
(c) above 10 tons		-	...	-	-	-	-	-	-
3. Barges									
(a) Dumb		6	...	1	1	11	11	11	11
(b) Self-propelled		4	...	4	4	3	3	3	3
4. Launches		3	...	6	6	34	34	34	34
5. Tugs		1	...	8	8	9	9	9	9

* Port-wise break up is not available.

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

Maritime State/UT :		(Numbers)					
Equipment/Port		DAMAN		PONDICHERRY		GOA (Panaji)	
		1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
1. Dredgers		-	-	2	2	1	1
2. Cranes							
(a) upto 5 tons		-	-	-	-	-	-
(b) 6-10 tons		-	-	1	1	-	-
(c) above 10 tons		-	-	2	2	-	-
3. Barges							
(a) Dumb		-	-	@	@	-	-
(b) Self-propelled		-	-	-	-	1	1
4. Launches		2	2	1	2	3	2
5. Tugs		-	-	-	-	1	1

@ 35 No. of wooden barges are available owned by private owners.

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

Maritime State/UT : A & N ISLANDS							(Numbers)
Equipment/Port	Port Blair		Mayabunder		Diglipur		
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	
1. Dredgers	-	-	-	-	-	-	
2. Cranes							
(a) upto 5 tons	18	18	1	1	1	1	
(b) 6-10 tons	8	8	2	2	-	-	
(c) above 10 tons	5	5	-	-	-	-	
3. Barges							
(a) Dumb	-	-	-	-	-	-	
(b) Self-propelled	-	-	-	-	-	-	
4. Launches	5	5	-	-	-	-	
5. Tugs	2	2	-	-	-	-	

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

Maritime State/UT : A & N ISLANDS		(Numbers)							
Equipment/Port	Rut Bay		Nancowry		Campbell		Rangat		
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	
1. Dredgers	-	-	-	-	-	-	-	-	-
2. Cranes									
(a) upto 5 tons	3	3	1	1	1	1	-	-	1
(b) 6-10 tons	1	1	1	1	1	2	-	-	-
(c) above 10 tons	1	1	-	-	1	1	-	-	1
3. Barges									
(a) Dumb	-	-	-	-	-	-	-	-	-
(b) Self-propelled	-	-	-	-	-	-	-	-	-
4. Launches	-	-	-	-	-	-	-	-	-
5. Tugs	-	-	-	-	-	-	-	-	-

3.5.2 Equipments Available At Various Minor Ports (Contd.)

Maritime state/UT : KERALA		(Numbers)							
Equipment/Port		Neendakara		Kozhikode/Bey pore		Azhikkal			
		1997-98	1998-99	1997-98	1998-99	1997-98	1998-99		
1. Dredgers		1	...	-	...	-	...		...
2. Cranes									
(a) upto 5 tons		-	...	5	...	1	...		...
(b) 6-10 tons		-	...	-	...	-	...		...
(c) above 10 tons		-	...	-	...	-	...		...
3. Barges		-	...	-	...	-	...		...
(a) Dumb		-	...	-	...	-	...		...
(b) Self propelled		4	...	-	...	-	...		...
4. Launches		-	...	-	...	-	...		...
5. Tugs		2	...	2	...	-	...		...

3.5.3 Draft At Ports as On 31st March, 1999

Maritime State/UT: GUJARAT

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

3.5.3 Draft At Ports as On 31st March, 1999 (Contd...)

Maritime State/UT : GUJARAT

Name of the Port	Intermediate/Minor	Max. Depth available at anchorage	Berth Type	No. of Berths by existing Draft					Total
				Below 2 meters	2-4 meters	4-6 meters	6 meters & above		
1	2	3	4	5	6	7	8	9	
Mul-Dwarka	Primary/Intermediate Fair Weather Port	13-14 mtrs.	Direct berth for small coaster	-	2	-	-	2	
Okha	Intermediate	42 feet	Sayajipler	-	Out of commission & under repairs.				
			Dry Bulk (East)	-		-	1	1	
			Sheet piled	-		1	-	1	
			Wharf						
			Lighter Cargo	-		1	-	-	1
Valsad	Minor	No anchorage fixed	Passenger Jetty	-	1	-	-	1	
			RCC jetty	1	-	-	-	1	

3.5.3 Draft At Ports as On 31st March, 1999 (Contd...)

Maritime State UT:GUJARAT

Name of the Port	Intermediate/Minor	Max.Depth available at anchorage	Berth Type	No. of Berth by existing Draft			
				Below 2 meters	2-4 meters	4-6 meters	Total 6 meters above
1	2	3	4	5	6	7	8
Magdalla	Intermediate	11 mtrs.	RCC Jetty	-	4	-	4
Kolak	Minor	No Anchorage fixed	Fishing Jetty	1	-	-	1
Vansi Borsi	Minor	11 mtrs.	RCC Fishing Jetty	1	-	-	1
Onjal	Minor	11 mtrs.	RCC Fishing Jetty	1	-	-	1
Umergaon	Minor	No Anchorage fixed	RCC Fishing Jetty	2	-	-	2
Umarsadi	Minor	No Anchorage fixed	Fishing Jetty	1	-	-	1
Billimora	Minor	No Anchorage fixed	Wodden jetty RCC Jetty	3 1	- -	- -	3 1

3.5.3 Draft At Ports as On 31st March, 1999 (Contd..)

Maritime State/UT: GUJARAT										
Name of the Port	Intermediate/ Minor	Max. Depth available at anchorage	Berth Type	No. of Berths by existing Draft						
				Below 2 meters	2-4 meters	4-6 meters	6 meters	Total		
1	2	3	4	5	6	7	8	9		
Bhavnagar	Intermediate	10 mtrs.	1) Concrete Jetty RCC piles with slab with docking 2) Akwada wharf RCC wall 3) North Quay RCC with Well foundation	-	-	1	-	1		1
				1	-	-	-	-		1
Jafarabad	Intermediate	14 mtrs.	Clinkers jetty T Shape jetty	1	-	1	-	-		1
				-	-	-	-	-		1
Pipavav	Minor	3 mtrs.	Along side wharf (east) Along side wharf (west)	2	-	-	-	-		2
				1	-	-	-	-		1
Navalakhli	Intermediate	-	Stead pile wharf	-	1	-	-	-		1
GAPL (Mundra)	Intermediate	28 mtrs.	T Shape jetty	-	-	-	-	4		4

3.5.3 Draft At Ports as On 31st March, 1999 (Contd.)

Matitime State/UT: MAHARASHTRA

Name of the Port	Intermediate/Minor	Max.Depth available at anchorage	Berth Type	No. of Berths by existing Draft					Total
				Below 2 meters	2-4 meters	4-6 meters	6 meters	labove	
1	2	3	4	5	6	7	8		9
Dahanu	Minor	18 mtrs	jetty	-	-	-	1		1
Satpati	Minor	4 mtrs	Slopping jetty	1	-	-	-		1
Arnala	Minor	6 mtrs	Slopping jetty	-	-	-	-		-
Datiware	Minor	4 mtrs	Slopping jetty	1	-	-	-		1
Manori	Minor	4 mtrs	Slopping jetty	3	2	-	-		5
Versova	Minor	6.8 mtrs	Slopping jetty	1	-	-	-		1
Bandra	Minor	4 mtrs	Slopping jetty	1	-	-	-		1
Bassein	Minor	4 mtrs	Slopping jetty	2	-	-	-		2
Bhiwandi	Minor	6 mtrs	Slopping jetty	-	-	-	-		-
Kalyan	Minor	6.8 mtrs	Slopping jetty	1	-	-	-		1
Thane	Minor	-	Slopping jetty	3	-	-	-		3
Uttan	Minor	2 mtrs	-	-	-	-	-		-
Trombay	Minor	2 mtrs	No Berth	-	-	-	-		-

3.5.3 Draft At Ports as On 31st March, 1999 (Contd.)

Matitime State/UT: MAHARASHTRA (Contd.)

Name of the Port	Intermediate/ Minor	Max.Depth available at anchorage	Berth Type	No. of Berths by existing Draft					Total
				Below 2 meters	2-4 meters	4-6 meters	6 meters	Above 1 above	
1	2	3	4	5	6	7	8	9	
Ulwa Belapur	Minor	4 mtrs	Cargo jetty	1	-	-	-	-	1
Mora	Minor	2 mtrs	Slopping jetty	1	-	-	-	-	1
Karanja	Minor	2 mtrs	Slopping jetty	1	-	-	-	-	1
Rewas	Minor	1 mtr	T Type Jetty	1	-	-	-	-	1
Mandwa	Minor	7 mtrs	L Type Jetty	1	-	-	-	-	1
Dharantur	Minor	3 mtrs	I Type Jetty	1	-	-	-	-	1
Murud	Minor	3 mtrs	T Type Jetty	1	-	-	-	-	1
Rajpuri	Minor	2 mtrs	Cargo jetty	1	-	-	-	-	1
Dighi	Minor	2.6 mtrs	Cargo jetty	1	-	-	-	-	1
Shriwardhan	Minor	3 mtrs	Cargo jetty	1	-	-	-	-	1
Revdanda	Minor	14.24 mtrs	Slopping cargo jetty	1	-	-	-	-	1
Thal	Minor	3 mtrs	Pakli	1	-	-	-	-	1
Alibag	Minor	3 mtrs	Pakli	1	-	-	-	-	1
Kumbharu	Minor	2.3 mtrs	-	-	-	-	-	-	-

3.5.3 Draft At Ports as On 31st March, 1999 (Contd...)

Matitime State/UT: MAHARASHTRA (Contd...)

Name of the Port	Intermediate/ Minor	Max.Depth available at anchorage	Berth Type	No. of Berths by existing Draft					Total
				Below 2 meters	2-4 meters	4-6 meters	6 meters & above		
1	2	3	4	5	6	7	8	9	
Bankot	Minor	6 mtrs	L Type jetty	-	1	-	-	-	1
Harnai	Minor	4.5 mtrs	jetty	1	-	-	-	-	1
Dabhol	Minor	4.7 mtrs	jetty	1	-	1	-	-	2
Palshet	Minor	4.5 mtrs	jetty	1	-	-	-	-	1
Borya	Minor	6 mtrs	jetty	1	-	-	-	-	1
Jaigad	Minor	6.12 mtrs	T Type Jetty	-	-	-	-	1	1
Ratnagiri	Minor	5.7 mtrs	T&I Type jetty	-	-	-	1	1	2
Jaitapur	Minor	2.4 mtrs	I Type jetty	-	2	-	-	-	2
Vijaydurg	Minor	5 mtrs	T Type Jetty	-	-	1	-	-	1
Varoda	Minor	4 mtrs	Small Pakli	1	-	-	-	-	1
Acharya	Minor	4 mtrs	-	-	-	-	-	-	-

3.5.3 Draft At Ports as on 31st March, 1999 (Contd..)

Maritime State/UT: MAHARASHTRA (Contd..)

Name of the Port	Intermediate/Minor	Max.Depth available at anchorage	Berth Type	No. of Berths by existing Draft					Total
				Below 2 meters	2-4 meters	4-6 meters	6 meters & above		
1	2	3	4	5	6	7	8	9	
Deogad	Minor	4.5 mtrs	T Type jetty	-	1	-	-	-	1
Malvan	Minor	4 mtrs	L Type jetty	1	-	-	-	-	1
Vengurla	Minor	5.6 mtrs	jetty	1	-	-	-	-	1
Tarapur	Minor	4 mtrs	-	-	-	-	-	-	-
Redi	Minor	12.14 mtrs	Jetty	-	2	-	-	-	2
Kiranpani	Minor	2 mtrs	Jetty	1	-	-	-	-	1
Nawapur	Minor	4 mtrs	-	-	-	-	-	-	-
Mandad	Minor	3 mtrs	Pakli	1	-	-	-	-	1
Nandgaon	Minor	2 mtrs	-	-	-	-	-	-	-

ORISSA

Gopalpur	Minor	18 mtrs.	Open Road Stead Port	-	-	-	-	1	1
							(above 9 mtrs.)		

3.5.3 Draft At Ports as On 31st March, 1999 (Contd..)

Maritime State/UT: TAMIL NADU

Name of the Port	Intermediate/ Minor	Max. Depth available at anchorage	Berth Type	No. of Berths by existing Draft			
				Below 2 meters	2-4 meters	4-6 meters	Total 6 meters & above
1	2	3	4	5	6	7	8
1. Cuddalore	Intermediate	"	Open Road Stead Port	Any size of vessel can be anchored in the mid stream.			
2. Nagapattinam	Intermediate	"	Open Road Stead Port. Depth available according to draft of the vessel	-	-	-	-
3. Rameswaram	Minor	5 mtrs	Open Road Stead Port	-	-	-	-
4. Pamban	Minor	3.4 mtrs.	-	-	-	-	-
5. Colachel	Minor	12.8 mtrs.	Open Road Stead Port	-	-	-	-
7. Kanyakumari	Minor	3 mtrs	Small Boat Jetty	1	-	-	1
8. Ennore	Minor	15 mtrs.	Open Road Stead Port	-	-	-	-

3.5.3 Draft At Ports as On 31st March, 1999 Contd..)

Maritime State/UT : ANDHRA PRADESH

Name of the Port	Intermediate/Minor	Max. Depth available at anchorage	Berth Type	No. of Berths by existing Draft					Total
				Below 2 meters	2-4 meters	4-6 meters	6 meters & above		
1	2	3	4	5	6	7	8	9	
1. Kakinada Anchorage	Intermediate	2. mtrs working depth available	Open roadstead port	-	-	-	-	-	-
2. Kakinada, Deep water	Intermediate	8.5 Mts	Three Shore connected berth of 620 mtrs length	-	-	-	3	3	3
3. Nizampatnam	Minor	10 Mts	-	-	-	-	-	-	-
DIU									
----- Diu	Minor	10 Fathom	RCC Jetty	-	1	-	-	-	1
Vanakbara(sub port)	Minor	10 Fathom	RCC Jetty	1	-	-	-	-	1
Malala (sub port)	Minor	10 Fathom	Natural Rock	-	1	-	-	-	1
Daman	Minor	5 Fathom	1. RCC jetty at Nani Daman 2. RCC jetty at Moti Daman	-	-	1	-	-	1
				-	1	-	-	-	1

3.5.3 Draft At Ports as On 31st March, 1999 (Contd..)

Maritime State/UT : KARNATAKA									
Name of the Port	Intermediate/Minor	Max.Depth available at anchorage	Berth Type	No. of Berths by existing Draft				Total	
				Below 2 meters	2-4 meters	4-6 meters	6 meters & above		
1	2	3	4	5	6	7	8	9	
Karwar	Intermediate	8 mtrs & above	RCC (Built-up wharf)	-	-	-	2	2	
Honavar	Minor	6 mtrs	Mooring berth jetty	-	-	-	-	-	
Bhatkal	Minor	1.5 mtrs	sailing vessel & fishing vessel	1	-	-	-	1	
Tadri	Minor	7 mtrs	T Shape Jetty	-	-	-	-	-	
Kundapur	Intermediate	Anchorage Over 9 mtrs	No Berth available	-	-	-	-	-	

3.5.3 Draft At Ports as On 31st March, 1999 (Contd..)

Maritime State/UT : KARNATAKA (Contd.)

Name of the Port	Intermediate/ Minor	Max. Depth available at anchorage	Berth Type	No. of Berths by existing Draft				
				Below 2 meters	2-4 meters	4-6 meters	6 meters above	Total
1	2	3	4	5	6	7	8	9
Malpe	Minor	6 mtrs.	Along side to wooden jetty and near passenger jetty	-	-	-	-	-
Hangarkatta	Minor	6 mtrs.	jetty/wharf	-	1	-	-	1
Mangalore	Intermediate	3.50 mtrs.	1. Open Road Stead 2. Back water for sailing vessel of 3 mtrs. Draft 3 below	-	5 (New South Wharf) 8 (South Wharf) 4 (Central Wharf) 6 (North Wharf)	-	-	5 8 4 6
PONDICHERY								
Pondicherry	Minor	13-14 mtrs	RCC pier	-	-	-	-	-
New Ariyankuppam port projects 2 mtrs. depth could be maintained at Ariyankuppam river channel for cargo Import operation through the wooden barges.								

3.5.3 Draft At Ports as On 31st March, 1999 (Contd...)

Maritime State/UT : GOA

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. Panaji	Minor	6.18 mtrs.	Anchorage Jetty Jetty (Fisheries)	- - -	- 1 1	- - -	1 - -	1 1 1
2. Betul	Minor	-	Jetty (Fisheries)	1	-	-	-	1
3.Chapora	Minor	-	Jetty (Fisheries)	1	-	-	-	1
4.Talpona	Minor	-	Jetty (Fisheries)	1	-	-	-	1

3.5.3 Draft At Ports as On 31st March, 1999 (Contd.)

Maritime State/UT : KERALA

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. Koavalam/ Vizhinjam	Minor	8 mtrs.	Wharf	-	-	1	-	-	1
2. Neendakara	Intermediate	3 mtrs.	One concrete wharf & two temporary jetties	-	1	-	-	-	1
3. Azhikkal	Minor	5 mtrs.	Wharf	-	-	1	-	-	1
4. Kozhikode/ Bey pore	Intermediate	8 mtrs.	R.C. Wharf	-	-	1	-	-	1

SECTION - IV
GENERAL TABLES

4.1.1 State-Wise Navigational Aids Maintained By Department of
Light-Houses and Light-Ships On 31.3.99

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

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						
	1994	1995	1996	1997	1998	1999 (P)	1994	1995	1996	1997	1998	1999 (P)		
Argentina	1.18	1.26	1.39	1.59	1.63	...	3.34	4.04	4.34	4.88	5.78	...		
Australia	1.55	1.76	1.99	35.92	...	...	1.01	1.06	1.13	4.31	...	...		
Belgium	23.41	24.37	24.80	27.81	30.08	...	23.53	24.30	24.81	28.16	30.64	...		
Bangladesh	0.75	0.94	0.88	0.92	0.87	...	0.15	0.16	0.15	0.13	0.08	...		
China	12.16	9	8	...	...	...	10.39	70.96	75.69	...	...	...		
Colombia	1.94	2.19	3.17	3.96	1.65	1.27	1.13	1.15	1.11	2.26	3.61	4.11		
Egypt	1.97	2.30	3.13	3.06	2.60	1.84	1.34	1.20	1.05	0.89	1.90	1.25		
Finland	3.22	3.09	3.08	3.25	3.23	3.17	2.97	2.84	2.78	3.01	3.13	3.28		
France	14.80	14.80	14.81	15.40	16.48	15.79	4.80	4.60	4.61	4.90	5.19	5.39		
Germany (FR)	10.40	10.59	10.79	11.35	11.74	11.57	5.42	5.59	5.76	5.76	5.76	6.21		
Greece	2.75	3.21	3.21	3.75	...	...	1.76	1.83	1.82	1.37	...	...		
Hongkong	6.39	7.25	7.23	7.66	7.51	6.73	2.86	3.34	3.26	3.45	3.12	3.01		
India	7.68	8.73	9.44	11.34	11.75	13.91	4.86	5.45	5.42	6.01	5.28	5.37		
Indonesia	3.90	4.69	5.39	...	...	...	18.92	20.66	18.03	...	...	...		
Italy	18.85	19.51	...	...	...	...	4.21	4.02	...	...	...	...		
Japan	62.62	62.79	65.24	66.18	63.60	62.87	9.27	9.57	9.56	9.94	9.85	10.38		
Korea (Rep. Of)	32.80	36.96	40.09	42.90	37.37	...	16.08	18.00	19.81	21.62	21.32	...		
Malaysia	3.51	3.84	4.50	5.20	4.03	4.57	1.98	2.10	2.34	2.81	2.93	3.31		
Mexico	4.39	4.44	5.16	5.17	5.63	...	10.81	10.82	11.65	11.29	11.20	...		
Netherlands	23.92	24.66	24.44	26.07	26.64	25.44	7.34	7.01	7.07	7.39	7.10	7.66		
Norway	1.84	1.96	1.90	2.12	2.27	2.15	10.43	11.29	12.72	13.17	12.84	12.59		

1 Included In Loaded.

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

(In Million Tonnes)

Country	Unloaded												Loaded		
	1994	1995	1996	1997	1998	1999(P)	1994	1995	1996	1997	1998	1999(P)	1994	1995	1996
1	2	3	4	5	6	7	8	9	10	11	12	13			
Panama	5.88	5.89	7.03	6.40	6.70	6.40	8.81	10.55	9.74	9.92	9.35	9.83			
Portugal	2.84	3.11	2.78	3.03	2.99	3.15	0.85	0.81	0.69	0.71	0.68	0.63			
Poland	1.13	1.24	1.30	1.30	1.52	1.32	2.83	2.39	2.36	2.31	2.63	2.78			
Singapore	13.71	14.58	12.50	12.75	14.15	12.75	10.47	10.83	26.18	27.29	26.03	27.17			
Spain	11.19	12.73	12.50	12.75	14.15	12.75	4.02	3.94	4.31	4.25	4.65	...			
Sweden	5.21	5.33	5.39	5.70	6.29	5.70	4.26	4.40	4.67	5.09	5.11	...			
Russian Federation	0.16	0.14	0.12	...	...	...	2.12	1.87	1.18	...	5.11	...			
United Kingdom	15.03	14.88	...	...	...	...	14.53	14.77	...	...	...	...			
United States	49.84	48.50	50.20	59.49	...	...	28.36	33.65	32.39	32.67	...	...			
Ukraine	0.28	0.36	0.27	0.48	0.59	0.59	2.10	1.83	1.80	4.60	5.39	6.42			

§ Included in loaded.

(P) = Provisional

Source : Monthly Bulletin Of Statistics (U.N.) - September, 2000 (Except India)

**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 1999-2000**

(Value In Rs. Crore)					
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	130101	64.4	154176	74.7	70.0
1998-99 (P)	139752	62.2	178332	67.9	65.4
1999-2000 (P)	162925	58.9	204583	67.9	63.9

Source : 1) Ministry Of Commerce (DGCISS) (March, 2000 Issue)
 11) RBI Publication, Report on currency and finance
 P) : Provisional

4.1.1.4 Value Of India's Foreign Trade 1998-99 & 1999-2000
Commodity wise Exports

Commodities	(Rs. in Crore)		
	1998-99	1999-2000 (P)	% Change
Tea	2254.9	1765.8	-22.0
Coffee	1727.9	1364.1	-21.1
Pulses	223.0	404.9	81.6
Basmati Rice	1876.9	1735.9	-7.5
Tobacco Mnfg & Unmnfg	761.6	992.9	30.3
Spices	1632.5	1701.9	4.3
Cashew	1627.5	2451.4	50.6
Sesame & Niger Seeds	328.5	371.7	13.2
Spirit & Beverages	70.7	70.2	-0.7
Guargum meal	727.7	818.6	12.5
Oil meals	1941.7	1603.2	-17.4
Castor oil	672.1	1061.9	58.0
Processed Vegetables	167.3	165.2	-1.3
Sugar & Molasses	24.4	37.8	54.9
Fruits & fresh vegetables	540.3	641.5	18.7
Processed fruits & juices	290.9	490.3	68.5
Non-Basmati Rice	4403.8	1369.4	-68.9
Meat & Preparation	788.1	781.0	-0.9
Marine Products	4368.6	5113.7	17.1
Cotton raw incl. waste	206.9	80.7	-61.0
Wheat	1.4	Neg.	-
Iron Ore	1615.5	1150.7	-28.8
Coal	141.0	110.2	-21.8
Processed minerals	1065.0	1004.0	-5.7
Mica	43.3	40.9	-5.5
Other ores & minerals	893.9	1622.4	81.5
Leather & Manufactures	1129.3	1034.8	-8.4
Footwear of leather	1366.5	1433.4	4.9
Leather	1729.8	1667.3	-3.6
Gems & jewellery	24945.1	33089.0	32.6
Drugs, Pharmaceuticals & fine chemicals	6256.1	6631.4	6.0
Dyes Intermotes & coartar chemicals	1972.4	2515.1	27.5

4.1.4 Value of India's Foreign Trade 1998-99 & 1999-2000
Commodity wise Exports (Contd..)

Commodities	(Rs. in Crore)	
	1998-99	1999-2000 (P)
		% Change
Inorganic/organic chemicals	2233.5	2629.3
Cosmetic/toiletries	706.1	788.6
Rubber manufactured products	1244.8	1201.4
Glass/glassware/ceramic/refractories/cement	697.8	1012.8
Paper/wood products	654.9	968.4
Plastic & linoleum products	1984.4	2543.7
Ferro alloys	351.7	254.8
Manufacture of metals	4375.4	5384.9
Machinery & Instruments	4858.5	5009.7
Transport equipments	3204.8	3347.6
Groundnuts	139.7	183.2
Iron & Steel bar/rods	349.2	444.5
Primary & semifinished iron & steel	2086.9	3263.3
Electronic goods	2115.1	2454.4
Cotton yarn fabrics madeups etc.	11661.5	13601.9
Silk yarn fabrics madeups	749.7	1000.4
Manmade yarn fabrics madeups	2945.0	3554.7
Woolen yarn, fabrics, madeups etc.	313.9	248.7
Ready-made garments cotton incl. accessories	13241.4	15254.4
Ready-made garments silk	249.8	677.6
Ready-made garments manmade fibres	3885.4	3012.4
Ready-made garments wool	357.4	1150.7
Ready-made garments of other textile material	629.5	713.4
Colr & colr manufactures	316.6	190.3
Jute mufg excl. floor carvings	149.6	116.6
Carpets (Excl. Silk Manmade)	1721.7	2204.7
Floor covering of jute	53.6	33.1
Others	12669.1	18158.1
Grand Total	139751.8	162924.9
		16.6

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

(P) = Provisional

4.1.5 Value of India's Foreign trade 1998-99 and 1999-2000
Commodity-wise Imports

Commodities	(Rs. in Crore)	
	1998-99	1999-2000 (P)
Petroleum and Products	26919.1	45421.3
Non-electrical machinery	12808.5	11960.5
Project goods	11309.0	3831.6
Pearls and Precious Stones	15819.6	23295.6
Electronic goods	9352.4	11505.6
Organic chemicals	5912.1	6822.5
Fertiliser manufactured	3413.8	4673.1
Iron and Steel	4293.7	4074.0
Transport Equipment	3358.2	2932.0
Non-ferrous metals	2513.5	2356.7
Edible Oil	7588.9	7983.9
Metal ferrous ores and metal scrap	3045.6	3321.7
Coal, coke and briquettes	4121.4	4293.5
Inorganic chemicals	5378.4	5653.1
Artificial resins, plastic materials	2842.9	3060.4
Gold & Silver	21338.7	19087.2
Professionals Instrument, etc. except Electronic	3450.5	3531.7
Cashewnut	968.8	953.5
Pulp and waste paper	990.8	1069.0
Wood & wood products	1574.2	1936.1
Textile yarn fabrics, madeups	1921.9	1995.3
Medicinal & pharma products	1615.2	1502.3
News Print	1071.6	879.1
Manufactures of metals	1599.1	1828.6
Machine tools	1459.3	1126.4
Electrical machinery	1771.1	1718.5
Others	21893.4	27769.4
Total	176331.7	204582.6
		14.7

Source: DGI&S, Calcutta (Ministry Of Commerce)
(P) = Provisional

4.1.6 India's Overseas Trade During 1999-2000 (P)

(In Million Tonnes)

Type of Cargo	Indian Lines	Foreign Lines	Total
General Cargo			
Loaded	1.54 (8.4%)	16.80 (91.6%)	18.34 (100.0%)
Unloaded	1.40 (6.4%)	20.41 (93.6%)	21.81 (100.0%)
Total	2.94 (7.3%)	37.21 (92.7%)	40.15 (100.0%)
Dry Bulk			
Loaded	2.85 (7.2%)	36.67 (92.8%)	39.52 (100.0%)
Unloaded	9.10 (21.0%)	34.15 (79.0%)	43.25 (100.0%)
Total	11.95 (14.4%)	70.82 (85.6%)	82.77 (100.0%)
POL/Product & Other Liquid			
Loaded	1.64 (50.6%)	1.60 (49.4%)	3.24 (100.0%)
Unloaded	54.32 (55.2%)	44.14 (44.8%)	98.46 (100.0%)
Total	55.96 (55.0%)	45.74 (45.0%)	101.70 (100.0%)
Grand Total			
Loaded	6.03 (9.9%)	55.07 (90.1%)	61.10 (100.0%)
Unloaded	64.82 (39.6%)	98.70 (60.4%)	163.52 (100.0%)
Total	70.85 (31.5%)	153.77 (68.5%)	224.62 (100.0%)

Major & Minor

Source : Ports & IPA

(P) - Provisional

4.1.7 - Outlay And Expenditure - Port Sector(Central)

Port	(Rs. In Crore)									
	VIII Plan (1992-1997)		9th Plan (1997-2002)		Annual Plan (1997-98)		Annual Plan (1998-99)		Annual Plan (1999-2000)	
	Outlay	Expenditure	Approved Outlay	Approved Outlay	Actual Expenditure	Approved Outlay	Actual Expenditure	Approved Outlay	Actual Expenditure	Approved Outlay
Calcutta *	421.00	175.71\$	545.00	45.22	28.11	30.10	61.36	30.00	82.28	279.14
Mumbai	413.00	252.69	1208.00	158.24	75.61	110.90	55.48	223.10	211.21	217.99
J.L. Nehru	215.00	158.13	700.00	94.86	106.75	70.50	21.16	50.00	50.51	101.70
Chennai	570.00	222.88	1500.00	228.38	123.10	170.00	225.86	379.00	302.10	228.50
Cochin	117.00	89.59	380.00	16.21	10.04	10.00	19.93	20.00	22.76	26.00
Visakhapatnam	250.00	197.41	900.00	70.50	55.29	50.00	51.30	51.80	91.25	138.40
Kandla	226.00	99.95	580.00	85.08	50.90	65.50	50.19	71.80	63.38	109.93
Mormugao	123.00	84.86	360.00	15.42	7.78	15.00	31.05	30.00	25.50	50.21
Paradip	486.00	233.95	1200.00	224.84	117.62	120.00	199.73	344.00	235.96	275.52
New Mangalore	98.00	218.90	640.00	31.44	20.58	30.00	14.31	44.00	44.55	90.00
Tuticorin	85.00	76.54	550.00	34.18	16.07	55.00	48.36	170.00	194.38	72.60
Others @	232.00	169.83	885.00	339.85	95.35	227.00	126.87	190.00	151.46	367.18
Survey Vessels	-	-	-	30.00	30.00	30.00	84.77	20.00	20.00	50.00
Total	3216.00	1980.44	9428.00**	1372.22	737.20	984.00	987.85	1623.70	1495.34	2007.17#

* Includes Haldia and RR Schemes.

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

** Excluding provision for survey vessels (Rs. 880.38 crore)

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

Out of this, Rs.52.99 crore was transferred for the Pool of N.E.States leaving the outlay at Rs.1954.18 crore.

Source: Annual Plan - Port Sector (MOST)

4.1.8 Outlay And Expenditure On Minor Ports

(Rs. In Crores)

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

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

Plan/Year	(Rs. In Crore)			
	Central Scheme	State/Union Territories	Total	
	1	2	3	4
1990-91 Outlay Expenditure	-	40.73	40.73	40.73
	-	50.26	50.26	50.26
1991-92 Outlay Expenditure	-	40.57	40.57	40.57
	-	38.42	38.42	38.42
VIII Plan Outlay				
1992-97 Expenditure	-	340.58	340.58	340.58
	-	394.63	394.63	394.63
1992-93 Outlay Expenditure	-	59.79	59.79	59.79
	-	42.82	42.82	42.82
1993-94 Outlay Expenditure	-	54.94	54.94	54.94
	-	99.18	99.18	99.18
1994-95 Outlay Expenditure	-	78.58	78.58	78.58
	-	66.89	66.89	66.89
1995-96 Outlay Expenditure	-	67.27	67.27	67.27
	-	126.24	126.24	126.24
1996-97 Outlay Expenditure	-	67.58	67.58	67.58
	-	59.50	59.50	59.50
1997-98 Outlay Expenditure	-	49.64	49.64	49.64
	-	32.95	32.95	32.95
1998-99 Outlay Anticipated Exp.	-	40.06	40.06	40.06
	-	41.83	41.83	41.83
1999-2000 Outlay Anticipated Exp.	-	42.36	42.36	42.36
	-	42.91	42.91	42.91

4.1.9 Transport Sector - Outlay And Expenditure Under The Plans

(Rs. In Crores)

Sector	Sixth Plan (1980-85)		Seventh Plan (1985-90)		Eighth Plan (1992-97)		Annual Plan (1997-98)		Annual Plan (1998-99)		Annual Plan (1999-2000)	
	Out- lay	Expen- diture	Out- lay	Expen- diture	Out- lay	Expen- diture	Out- lay	Expen- diture	Out- lay	Expen- diture	Out- lay	Expen- diture
1	2	3	4	5	6	7	8	9	10	11	12	13
1. Railway	5100	6585	12334	16549	27202	32302	8300	8239	9500	8857	9700	8965
2. Roads	3439	3887	5200	6335	12833	16140	6028	5588	9785	7783	10227	10419
3. Road Transport	1196	1276	1990	2151	4119	3538	1243	1451	1246	931	1235	942
4. Ports (including minor ports)	647	725	1230	1513	3557	2302	1404	781	1000	1053	1656	1586
5. Shipping	755	468	827	720	3669	3033	978	379	1294	963	1638	768
6. I.W.T.	72	63	226	188	331	152	74	50	86	60	48	56
7. Light Houses & Light ships	12	*	30	*	57	25	*	*	*	*	*	*
8. Civil Air Transport	859	957	758	1948	4083	7249	2568	1444	2265	1453	1884	1762
9. Other Transport	-	-	49	72	239	244	80	188	255	315	716	724
10. Total Transport	12080	13961	22644	29476	56090	64985	20675	18120	25431	21415	27104	25222
11. Share of Ports & LH & LS in the transport sector (%)	5.5	5.2	5.6	5.1	6.4	3.6	6.8	4.3	3.9	4.9	6.1	6.3

* : Included in Ports
 @ : Farakka Barrage & Hooghly River Training Projects

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

4.1.10 Countrywise Important International Ports Handling All Types of Traffic

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

4.1.11. Countrywise Important International Ports Handling Container Traffic

COUNTRY	PORT	COUNTRY	PORT	COUNTRY	PORT
SOUTH AFRICA	DURBAN	SAUDIA ARABIA	JEDDAH	BRAZIL	SANTOS
SINGAPORE	SINGAPORE	CANADA	MONTREAL VANCOUVER	TAIWAN	KAOSHIUNG KEELUNG
PURETO 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 BREITEN PORTS	PHILIPPINES	MANILA
UNITED KINGDOM	FELIXSTOWE LONDON	ITALY	LA SPEZIA	JAPAN	KOBE YOKOHAMA TOKYO NAGOYA OSAKA
AUSTRALIA	MELBOURNE BRISBANE	SPAIN	ALGECIRAS-LA LINEA 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 vessels 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 there by 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 for which a ship waits before getting entry into a berth.
18. Berth Occupancy The time for 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/disenbarked 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 shift.
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.