1 INTRODUCTION

1.1 Ports and the Indian Economy

Ports play a pivotal role in stimulating economic activity in their surroundings and hinterland through the promotion of seaborne trade. In India, they handle 95 per cent of the country's international trade cargo by volume and 70 per cent by value. The sector is broadly categorised into major and non-major\textsuperscript{1a} ports. There are 12 major ports, out of which 11 function as autonomous bodies under the Ministry of Shipping\textsuperscript{1b} (Ministry), Government of India and are governed by the Major Port Trusts (MPT) Act, 1963. The twelfth major port, located at Ennore, is a corporatised one under the same Ministry. Apart from these, there are 187 notified non-major ports across 13 maritime States. The 12 major ports handle about three-fourths of the cargo traffic of the country. These ports handled 383.75 million tonnes (MT) of cargo in 2004-05. Anticipating a rapid rise in traffic along with robust growth of the economy, the Ministry drew up (2005-06) the National Maritime Development Programme (NMDP). The objective of NMDP was to increase the capacity of major ports to 650.90 MT by March 2009. During 2008-09, the actual handling by the ports rose to 530.37 MT against a reported capacity of 576.09 MT of cargo, registering a 38 per cent rise in volume in five years. The cargo-mix is shown in Fig 1.1.

1.2 Profiles of Major Ports

The 11 major ports are strategically located along the 7517 km coastline of India with six ports on the west and five on the east coast, having a shared hinterland. The first six autonomous port trusts set up under the MPT Act 1963 included the three legacy ports of Chennai, Kolkata and Mumbai along with the ports of Cochin, Tuticorin and Visakhapatnam. Subsequently, five other ports viz. Jawaharlal Nehru Port (JNPT), Kandla, Mormugao, New Mangalore and Paradip were added to the list. A brief profile of these ports is presented overleaf.

\textsuperscript{1a}Non-major ports include minor ports, notified under the Indian Ports Act, 1908 and managed by State Maritime Boards, intermediate ports developed under public-private partnerships and private ports. The cargo share of the non-major ports in Gujarat was 75 per cent of the total volume handled at all non-major ports in India in 2008-09.

\textsuperscript{1b}Erstwhile Ministry of Shipping Road Transport and Highways.
1.3 Recent Developments

Among the major ports, wide variations in performance and productivity were noticed due to differences in the nature of cargo handled, nautical access, economies of scale and frequency of ship calls. To transform Indian ports into world-class facilities suited to the requirements of the future, the Ministry mandated that each major port should develop its own long-term business plan. The Port of Rotterdam was appointed as an adviser to the Ministry to review the process of development of the business plans. Subsequently, each of the ports engaged consortia of national and international consultants to prepare their business plans. The exercise was completed in 2007. SWOT analyses done for the ports indicated, *inter alia*, that they were suffering from limited water depths, old infrastructure, inefficient handling systems, poor hinterland connectivity, overstaffing and poor quality of services. The study also indicated that the dominant market share of the huge Indian hinterland and locational advantages were among the primary strengths of these ports.

It is, however, important to note that the market share of the major ports have steadily declined over the last 10 years (see Fig 1.2) in the face of growing competition from the rapidly developing non-major ports. Keeping in view the prominence that the major ports have enjoyed in India’s economic development, the scenario of steady decline in cargo share at major ports and weaknesses in the implementation of capacity augmentation schemes, the Government formulated (2006) NMDP to facilitate enhanced private investment, improve service quality and promote competitiveness by identifying specific schemes/projects and other measures. The schemes were planned to be implemented in two overlapping phases: Phase I (2005-2009) and Phase II (2007-2012). Although most of the ports had drawn up ambitious long-term plans, there were a number of material issues that affected their service delivery. To analyse such issues, a performance audit of the functioning of these major ports was taken up in August 2008.

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\*In their vision statements included in their business plans, most ports aimed to develop themselves as hub ports in the South Asian region, handling trans-shipment cargo. However, big shipping lines do not prefer Indian ports as trans-shipment bases due to depth limitations and inefficiencies.\*
1.4 Layout of a Port

The layout of a typical major port (JNPT shown here) along with the main activity locations is given below:
1.5 Audit Objectives

The performance audit of major port trusts was conducted to assess whether

- marine services were delivered in an efficient and effective manner.
- cargo handling services were efficient, effective and economical.
- efficient port connectivity and storage infrastructure were available vis-à-vis the volume of business and future plans.
- performance benchmarks set by the Ministry induced improvements in operational efficiency and were reported and monitored correctly.
- capacity augmentation schemes taken up under the National Maritime Development Programme were implemented in an efficient and effective manner.

1.6 Scope

The performance audit covers the 11 major ports which function as autonomous bodies under the Ministry. The corporatised Ennore port has been kept out of the purview of this audit. The report covers performance issues relating to the period from 2004 to 2009. Matters relating to tariff fixation, financial management and estate management have not been included.

1.7 Audit Criteria

The following audit criteria were used in the preparation of the performance report:

- Operational targets specified by the Ministry in their annual MOUs with ports
- Targeted capacity additions and time schedules for schemes under NMDP
- Global efficiency benchmarks for handling major categories of cargo
- Depth targets set by ports in dredging contracts
- Best practices at select terminals and ports in India

1.8 Audit Methodology

The performance audit commenced with entry conferences with the Managements of all the major ports where the audit objectives and scope were explained and the audit criteria were agreed upon. The concerns of the users of each port were identified through surveys. During the field work, operational data was collected and audit memoranda were issued. Two months, viz.

\[\text{Every year, the Ministry enters into Memoranda of Understanding with ports, to fix operational and financial targets.}\]
July and December 2007 were selected for detailed test-checking of vessel-related data. The audit teams also conducted physical inspections of port facilities. Observations relating to each port were issued separately. Replies were received from the Managements of nine ports and have been suitably incorporated in the report. The draft report was issued to the Ministry and an exit conference was held in June 2009. The replies of the Ministry were received in August 2009 and have also been suitably incorporated in the report.

1.9 Acknowledgement

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