



INFRASTRUCTURE
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Emerging Opportunities in Port Sector

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Present Status of Ports in India

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- **Major Ports – under Government of India**

- **12 Major Ports**
- **259 berths**
- **about 75% of total traffic**

Cargo handled – 423 MT (2005-06)

- **Non-Major Ports -under State Governments**

- **187 Non Major Ports (61 cargo handling);**
- **97 berths**
- **about 25% of total traffic**

Cargo handled – 150 MT (2005-06)

- **Total Cargo handled-573 MT (2005-06)**



Where do we go ?

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• Present Capacity	2005-06	: 660MT
• Projected Traffic	2011-12	: 1011MT
	2013-14	: 1225MT
• Required Capacity	2011-12	: 1300MT
	2013-14	: 1600MT
	2016-17	: 2000MT



Policy Framework for PPP

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- **Private sector participation and Joint Ventures permitted under Major Port Trusts Act**
- **Comprehensive Guidelines 1996**
- **Joint Venture Guidelines 1998**
- **Model Bidding Documents 2000**
(including Model Licence Agreement)
- **New Model Concession Agreement with further refinements on the anvil.**



Policy Framework for PPP

- **100% FDI**
- **Open Competitive Bidding**
- **Lease Period of BOT upto 30 years**
- **Independent Tariff Regulatory Authority**
- **All areas of port operation open for Private Sector Participation**



Private Investment

■ Present Status

- **Already Operational**

- **15 projects - Rs. 4,732 cr (\$ 1052 m)**
 - **7 Container terminals**
 - **4 Liquid cargo berths**
 - **4 Dry bulk cargo berths**

- **Under Implementation**

- **4 projects - Rs. 2,529 cr (\$ 562 m)**
 - **1 Container terminal**
 - **1 Liquid cargo berth**
 - **2 Dry bulk cargo berths**



Private Investment

- Present Status

Major International Players

- **Maersk A/S**
- **Port of Singapore Authority**
- **Dubai Ports International**
- **P&O Ports Australia Pty Ltd (now Dubai Ports World)**
- **M/s Portia Management Services Ltd. U.K.**
- **IQ Martrade Management & Holding GmbH, Germany**



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National Maritime Development Programme 2011-12

- Ports

- **Total 276 projects**
 - **Rs 55,800 cr (\$12.4 billion)**
- **Private Investment anticipated**
 - **Rs 34,515 cr (\$ 7.67 billion)**



National Maritime Development Programme 2011-12

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Berth Construction	76 projects	Rs.32,564 cr (\$7236 m)
Channel Deepening	25 projects	Rs.6,304cr (\$1400 m)
Equipment	52 projects	Rs.2,633 cr (\$585 m)
Connectivity	45 projects	Rs.5,956 cr (\$1324 m)
Others	78 projects	Rs.8,347 cr (\$1855 m)



PPP Projects-Berth Development

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- **2006-07**
 - **15 Projects - Rs 4,620 cr (\$ 1027m)**
Three Projects Awarded and Two under Award

- **2007-08**
 - **10 Projects - Rs 10,448 cr (\$ 2322m)**
One under Award

- **2008-12**
 - **33 Projects Identified**

PPP Projects on Offer

2006-07

1	Second Container Terminal, Tuticorin	Rs 150 cr	(\$ 33 m)
2	Offshore Container Terminal, Mumbai	Rs 1,228 cr	(\$ 273 m)
3	Dry bulk Terminal, Mumbai	Rs 35 cr	(\$ 8m)
4	Mechanised Iron Ore Handling Facilities , New Mangalore	Rs 132 cr	(\$ 29 m)
5	Deep Draught Iron Ore Berth, Paradip	Rs 504 cr	(\$ 112 m)

contd



PPP Projects on Offer

2006-07

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6	Cruise cum Container Berth, Mormugao	Rs 185 cr	(\$ 41m)
7	Bulk Cargo Berth, Mormugao	Rs 140 cr	(\$ 31 m)
8	Four Multipurpose Cargo Berths, Kandla	Rs 443 cr	(\$ 98 m)
9	Multi-purpose Berth, Visakhapatnam	Rs 45 cr	(\$ 10m)
10	Bulk Cargo Berth, Visakhapatnam	Rs 35 cr	(\$ 8m)



PPP Projects on Offer

2007-08

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11	Creation of Berthing & Allied Facilities Tekra (Tuna), Kandla	Rs 587 cr	(\$ 130 m)
12	Container Terminal, Ennore	Rs 1,000 cr	(\$ 222 m)
13	LNG Terminal, Ennore	Rs 2700 cr	(\$ 600 m)
14	Clean Cargo Berths, Paradip	Rs 138 cr	(\$ 31m)
15	Outer Harbour Berths, Tuticorin	Rs 3000 cr	(\$ 667m)

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PPP Projects on Offer

2007-08

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16	International Cruise Terminal, Cochin	Rs 55 cr	(\$ 12m)
17	International Bunkering Terminal, Cochin	Rs 195 cr	(\$ 43m)
18	Extension of Container Terminal, JNPT	Rs 453 cr	(\$ 101m)
19	Berths at Vasco Bay, Mormugao	Rs 120 cr	(\$ 27m)



PPP Projects on Offer

2008-12

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Fourth Container Terminal, JNPT	Rs 4,394 cr	(\$ 976m)
Marine Chemical Terminal, JNPT	Rs 4,213 cr	(\$ 936m)
Western Dock System (6 Berths), Paradip	Rs 430 cr	(\$ 96 m)
East Docks (4 Berths), Visakhapatnam	Rs 207 cr	(\$ 46 m)
Third Container Terminal, Tuticorin	Rs 150 cr	(\$ 33 m)
Additional Port Facilities - Outer Harbour, New Mangalore	Rs 1,200 cr	(\$ 267 m)
Modern Deep Sea Port, West Bengal – EOI invited for feasibility study		



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Development of Common Infrastructure

- **Capital Dredging**
- **Port connectivity**



Capital Dredging for Major Ports

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- **Target Draught : 14m to 17m**
- **Projects in JNPT, Paradip, Mumbai, Tuticorin, Ennore, and Vishakhapatnam are underway**



Port Connectivity

- **Road**

- Each Major Port to have minimum 4-lane road connectivity
- 9 projects – under implementation
- 299.42 kms
- Total cost of Rs.1859 cr.

- **Rail**

- Each Major Port to have double line rail connectivity
- 8 projects – under implementation
- 961.56 kms
- Total cost of Rs 2118.84 cr.

- **Dedicated High Axle Load Freight Corridor on Western and Eastern routes**



Non-Major Ports

- **Immense Potential**
- **Projects for Greenfield Ports, Captive Facilities, Expansion and Upgradation of Existing Facilities on the anvil**

Non-Major Ports - Some Important Projects

Gujarat	Simar, Mithivirdi, Vansi Borsi, Maroli and Bedi
Andhra Pradesh	Machilipatnam, Nizampatnam and Bhimunipatnam
Kerala	Vizhinjam and Azhikal
Tamil Nadu	Cuddalore, Colachel and Rameshwaram
Maharashtra	Rewas-Aware, Dighi, Jaigad, Vijaydurg and Redi
Orissa	Gopalpur, Dhamra and Jatadhari
Karnataka	Karwar, Tadri and Belekeri
Pondicherry	Pondicherry and Karaikal
Andaman and Nicobar Islands	Feasibility Study for Transhipment Port, Great Nicobar



Other Important Projects

- **Indian Maritime University**
- **Two International Size Shipyards to be set up**
- **Investment in Inland Water Transport Infrastructure**



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Thank You