

**भारत के पत्तन क्षेत्र का अद्यतन**  
**UPDATE ON INDIAN PORT SECTOR**  
**(31.03.2021)**



**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**परिवहन अनुसंधान प्रभाग**  
**TRANSPORT RESEARCH WING**  
**पत्तन,पोत परिवहन और जलमार्ग मंत्रालय**  
**MINISTRY OF PORTS, SHIPPING & WATERWAYS**  
**नई दिल्ली**  
**NEW DELHI**



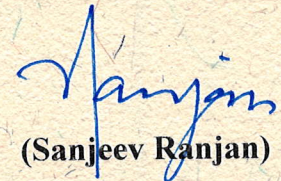


## PREFACE

As per the decision of the Maritime State Development Council (MSDC), the Transport Research Wing in the Ministry of Port, Shipping & Waterways has been bringing out the biannual publication "*Update on Indian Port Sector*". Present issue (up to 31.03.2021) is thirty Seventh in the series of the publication "*Update on Indian Port Sector*". The last issue contained data up to September, 2020.

The current issue of the "*Update on Indian Port Sector*" includes the information on the performance of Major and Non-Major Ports for the period up to end of March, 2021. The list of private sector/captive/joint sector port projects under implementation/consideration at Major Ports and Non-Major Ports have also been included.

The cooperation extended by the concerned source authorities is gratefully acknowledged. The Officer and staff of TRW deserve special mention for the committed effort put in by them for bringing out of the publication.

  
(Sanjeev Ranjan)

New Delhi  
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**UPDATE ON INDIAN PORT SECTOR**  
**(UP TO 31.03.2021)**

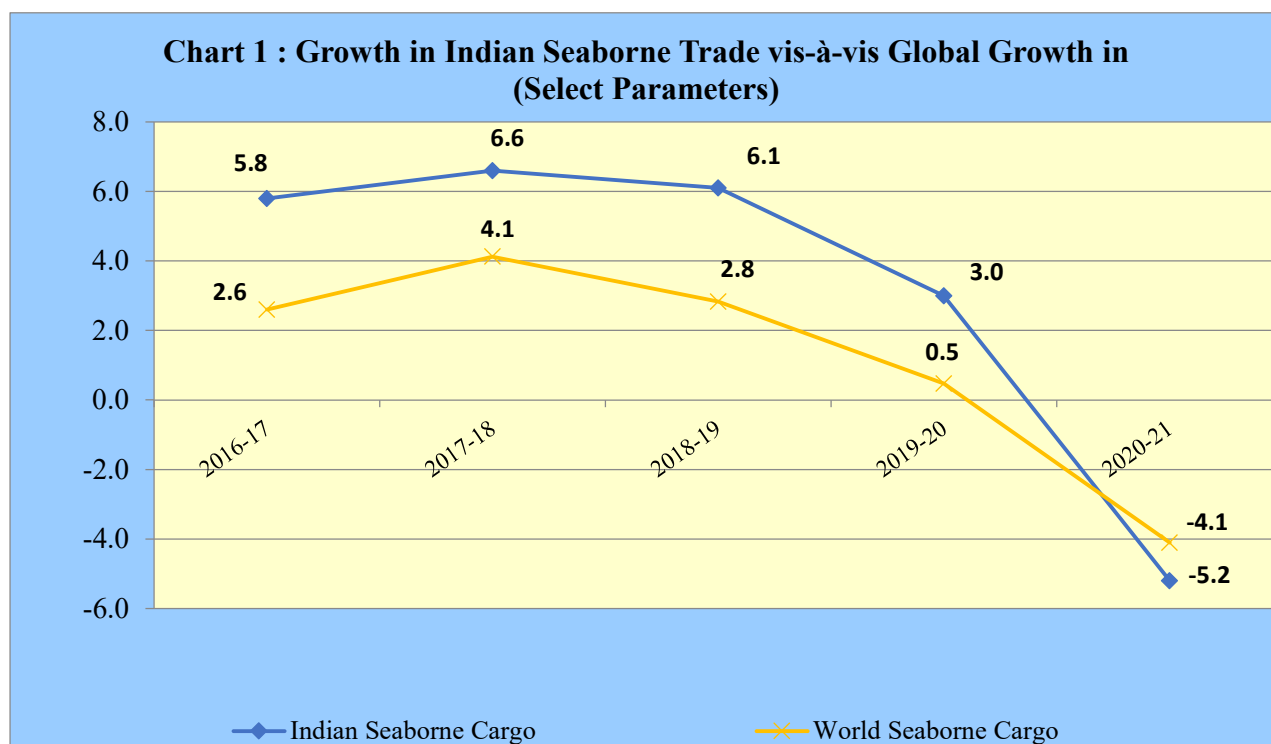
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## 1. RECENT TRENDS IN CARGO TRAFFIC

### 1.1 India: Seaborne Cargo Traffic

1.1.1 The growth in India's Port traffic and growth in world seaborne trade from 2016-17 to 2020-21(P) is given in **Chart I**.



Source: Review of Maritime Transport 2020 - UNCTAD Projections 2020-21(Published on 20.11.2020)  
(P): Provisional

### 1.2 Cargo Traffic at Indian Ports

1.2.1 During 2020-21, Major and Non-major Ports in India have accomplished a total cargo throughput of 1251.38 million tonnes reflecting a decrease of 5.2% over the corresponding period of the previous year 2019-20 (**Table 1**). During 2020-21 cargo handled at Major & Non Major ports registered negative growth of 4.6% and 5.9% respectively. The share of Non-major Port in the total traffic handled at Indian Port decreased from 46.6% in 2019-20 to 46.3% in the financial year 2020-21. Trend in traffic handled at Major and Non-major Ports is given below in **Table 1(a)**.

<b>Table 1(a)- Traffic Handled at Indian Ports</b>						
<b>(Million Tonnes)</b>						
<b>Major/Non-Major</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21(P)</b>
<b>Major Ports</b>	605.89	648.47	679.47	699.10	704.93	672.53
	4.2	7.0	4.8	2.9	0.8	-4.6
<b>Non-Major Ports</b>	465.87	485.21	529.1	582.6	615.0	578.9
	-1.1	4.2	9.0	10.1	5.6	-5.9
<b>All Ports</b>	1071.76	1133.69	1208.56	1281.71	1319.97	1251.38
	1.9	5.8	6.6	6.1	3.0	-5.2

Note: Figures in brackets indicate growth over previous year.

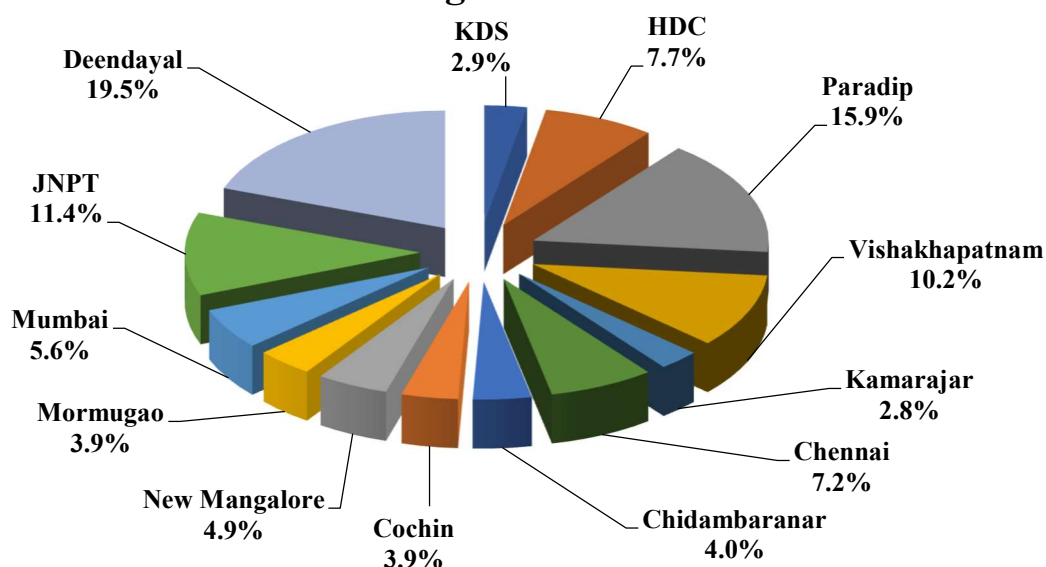
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### **Overseas and Coastal Cargo traffic handled at Indian Ports during 2019-20 & 2020-21**

1.2.2 The overseas cargo handled at Indian Ports decreased by 3.7 % during 2020-21 as compared to corresponding period of 2019-20. Coastal cargo handled at Indian Ports also decreased by 11.4% during the same period. The overseas cargo handled at Major Ports decreased by 3.6% from 545.16 million tonnes during 2019-20 to 525.48 million tonnes handled during 2020-21. The Coastal Cargo handled at Major port also decreased by 8% from 159.76 million tonnes during 2019-20 to 147.05 million tonnes handled during 2020-21. The overseas cargo handled at Non-Major Ports during 2020-21 decreased by 3.8% to 501.19 million tonnes from 521.07 million tonnes during 2019-20. The coastal cargo handled at Non-Major Ports during 2020-21 also decreased by 17.4% to 77.67 million tonnes from 93.97 million tonnes handled during the same period in 2019-20. The overseas-coastal cargo traffic handled at Indian Ports during of 2020-21 and 2019-20 is presented in **Table-1(b)**.

<b>Table 1(b)- Overseas &amp; Coastal traffic Handled at Indian Ports</b>						
<b>(Million Tonnes)</b>						
<b>Major/Non-Major</b>	<b>2019-20</b>			<b>2020-21(P)</b>		
	<b>Overseas</b>	<b>Coastal</b>	<b>Total</b>	<b>Overseas</b>	<b>Coastal</b>	<b>Total</b>
<b>Major Ports</b>	545.16	159.76	704.93	525.48	147.05	672.53
	2.3	-4.0	0.8	-3.6	-8.0	-4.6
<b>Non-Major Ports</b>	521.07	93.97	615.05	501.19	77.67	578.85
	7.2	-2.4	5.6	-3.8	-17.4	-5.9
<b>All Ports</b>	1066.2	253.7	1320.0	1026.7	224.7	1251.38
	4.6	-3.4	3.0	-3.7	-11.4	-5.2

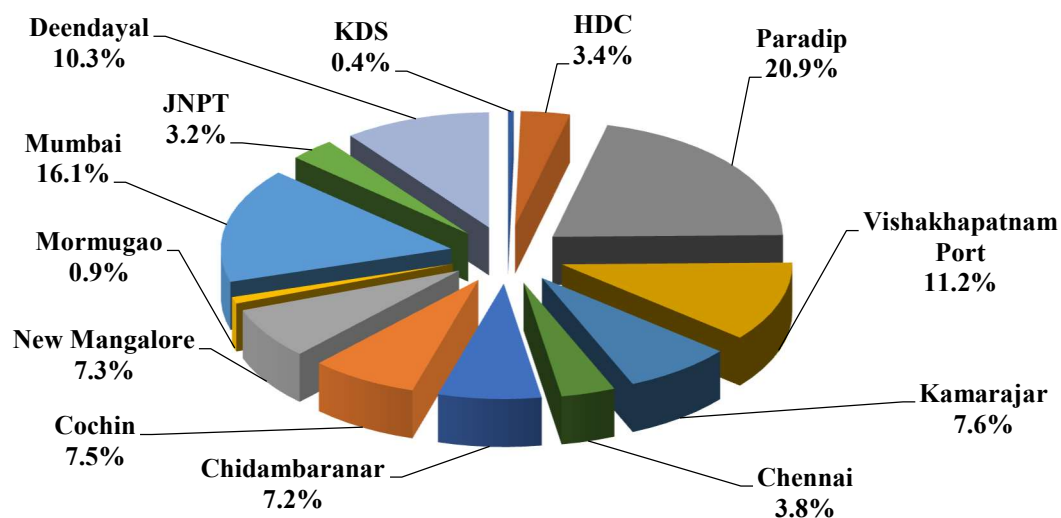
**Chart-II Share of overseas cargo traffic at Major Ports during 2020-21**



**1.2.3 Major Ports:** Among the Major Ports, Deendayal Port handled the maximum Overseas Cargo of 102.41 million tonnes with a share of 19.5% followed by Paradip Port (15.9%), JNPT (11.4%), Vishakhapatnam Port (10.2%), SMP Haldia Dock (7.7%), Chennai Port (7.2%), Mumbai Port (5.6%), New Mangalore Port (4.9%), V.O.Chidambaranar Port (4.0%), Cochin Port (3.9%), Mormugao Port (3.9%), SMP Kolkata Dock (2.9%) and Kamarajar Port (2.8%), during 2020-21 (Chart II above).

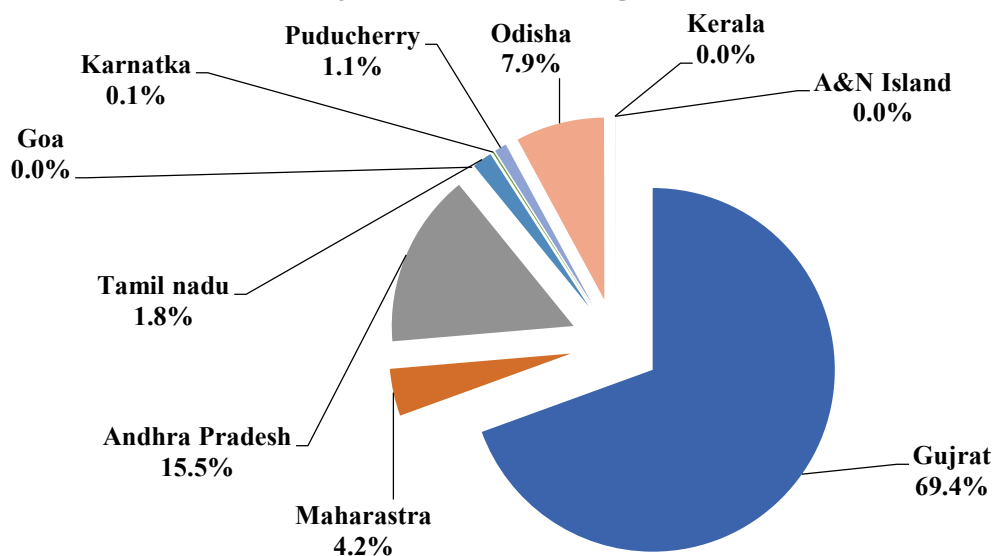
**1.2.4** Among the Major Ports, Paradip Port handled the maximum Coastal Cargo of 30.75 million tonnes with a share of 20.9% followed by Mumbai Port (16.1%), Vishakhapatnam Port (11.2%), Deendayal Port (10.3%), Kamarajar Port (7.6%), Cochin Port (7.5%), New Mangalore Port (7.3%), V.O.Chidambaranar Port (7.2%), Haldia Dock (3.4%), Chennai Port (3.8%), JNPT (3.2%), Mormugao Port (0.9%) and Kolkata Dock (0.4%) during 2020-21 (Chart III below).

**Chart-III Share of coastal cargo traffic at Major Ports during 2020-21**



**1.2.5 Non Major Ports:** Among the Non-Major Ports, Gujarat Maritime Board (GMB) handled the maximum overseas cargo of 348.06 million tonnes with a share of 69.4% followed by Andhra Pradesh Maritime Board (APMB) (15.5%), Directorate of Ports, Odisha (7.9%), MMB (4.2%), TNMB (1.8%) Puducherry (1.1%), and Karnataka (0.1%) during 2020-21 (**Chart IV below**).

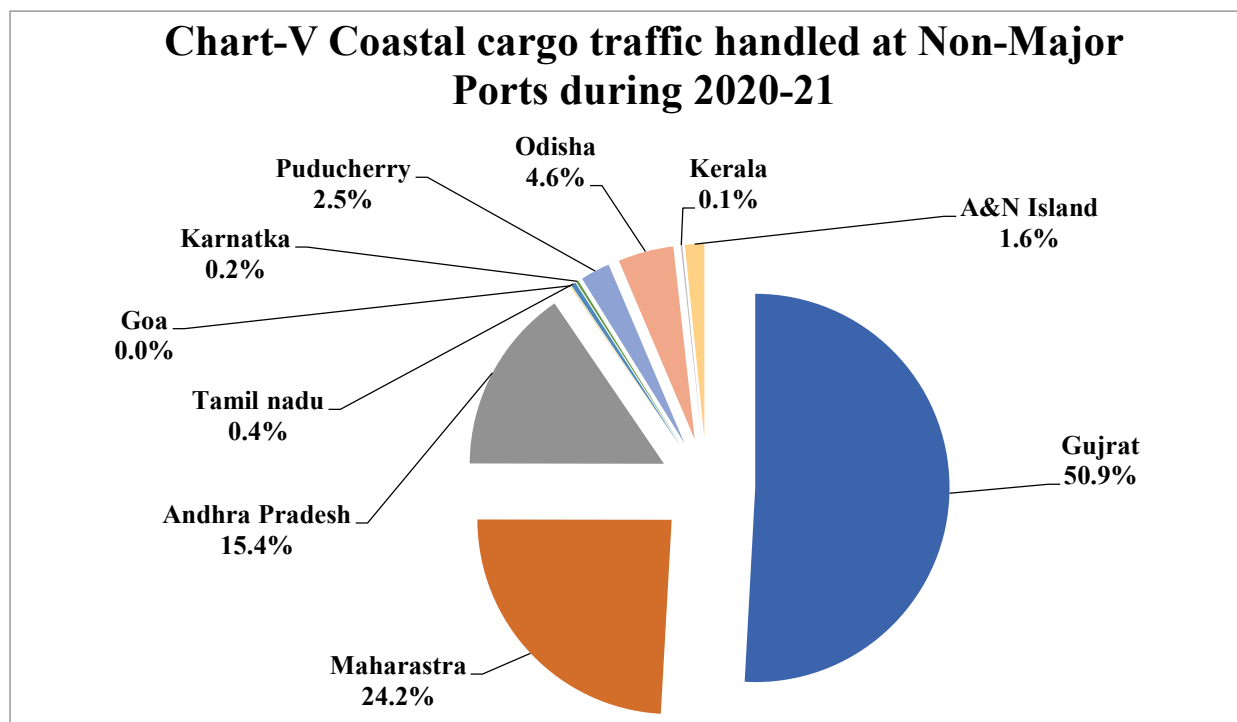
**Chart-IV Overseas cargo traffic handled at Non-Major Ports during 2020-21**



**1.2.6** Amongst the Non-Major Ports, GMB handled the maximum Coastal Cargo of 39.51 million tonnes with a share of 50.9% followed by MMB (24.2%), Andhra Pradesh Maritime Board (APMB) (15.4%), Directorate of Ports, Odisha (4.6%), Puducherry (2.5%), A&N Islands (1.6%), Tamil Nadu



Maritime Board (TNMB) (0.4%), Directorate of Ports, Karnataka (0.2%) and Kerala Maritime Board (KMB) (0.1%) during 2020-21 (**Chart V below**).



### 1.3 Cargo Traffic at Major Ports

1.3.1 Cargo traffic at India's 12 major ports during, 2020-21 was 672.53 million tonnes registering a decline in growth by 4.6% over the previous year.

1.3.2 During 2020-21, Mormugao Port recorded highest growth in traffic 37.1% followed by Paradip Port 1.7%. Major ports which recorded negative growth in traffic during 2020-21 were: Kamarajar Port (18.4), Mumbai (12.1%), V.O. Chidambaranar (11.9%) , SMP Kolkata Dock System (8.3%), Cochin Port (7.4%), Chennai Port (6.9%) followed by New Mangalore Port (6.8%), JNPT (5.4%), Deendayal (4.1%), Vizag (4.0%) and SMP Haldia (2.6%).

<b>Table 2 : Traffic Handled at Major Ports</b>							
							(000' Tonnes)
<b>Ports</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21(P)</b>	<b>% change 2020-21 w.r.t to 2019-20</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>5</b>	<b>6</b>	<b>7</b>
SMP Kolkata	50289	50951	57891	63763	63983	61337	-4.1
SMP Kolkata DS	16782	16810	17390	18551	17303	15869	-8.3
SMP Haldia DC	33507	34141	40501	45212	46680	45468	-2.6
Paradip	76397	88958	102028	109302	112689	114549	1.7
Vizag	57035	61020	63537	65301	72722	69843	-4.0
Kamarajar	32206	30020	30446	34498	31746	25889	-18.4
Chennai	50058	50214	51881	53012	46758	43550	-6.9
Chidambaranar	36849	38463	36583	34342	36076	31790	-11.9
Cochin	22095	25007	29143	32021	34038	31503	-7.4
New Mangalore	35582	39936	42059	42508	39145	36500	-6.8
Mormugao	20776	33181	26897	17683	16017	21953	37.1
Mumbai	61119	63129	62902	60634	60696	53324	-12.1
JNPT	64027	62152	66004	70706	68449	64725	-5.4
Deendayal	99458	105442	110099	115401	122606	117561	-4.1
<b>All Ports</b>	<b>605891</b>	<b>648473</b>	<b>679470</b>	<b>699171</b>	<b>704925</b>	<b>672525</b>	<b>-4.6</b>
Source: Major Port, (P): Provisional							

1.3.3 Amongst the Major Ports, Deendayal (Kandla) Port handled the maximum cargo traffic of 117.56 million tonnes with a share of 17.5% in total cargo handled at major ports during 2020-21 followed by Paradip Port (17.0%), Vishakhapatnam Port (10.4%), JNPT (9.6%), Mumbai Port (7.9%), SMP Haldia Dockyard Complex (6.8%), Chennai Port (6.5%), New Mangalore Port (5.4 %) , V.O. Chidambaranar Port & Cochin Port both (4.7%), Kamarajar Port (3.8%), Mormugao Port (3.3%) and SMP Kolkata Dock System (2.4%) (**Table 2**).

### Commodity-wise growth of cargo traffic at Major Ports

1.3.4 At a broad commodity level, during 2020-21, Food grain posted highest growth rate of 547.5% followed by Iron Ore (28.2%) FRM (Dry) (14.8%) and Fertilizer Finished (8.7%). The POL (19.8) recorded the highest negative growth of 13.9% during 2020-21 followed by Thermal Coal (11.3%), Coking coal (7.7%), Other Cargo (4.2%) and Container (2.2).

**Table 3** gives the details of Commodity wise traffic handled at Major Port from financial year 2015-16 to 2020-21.

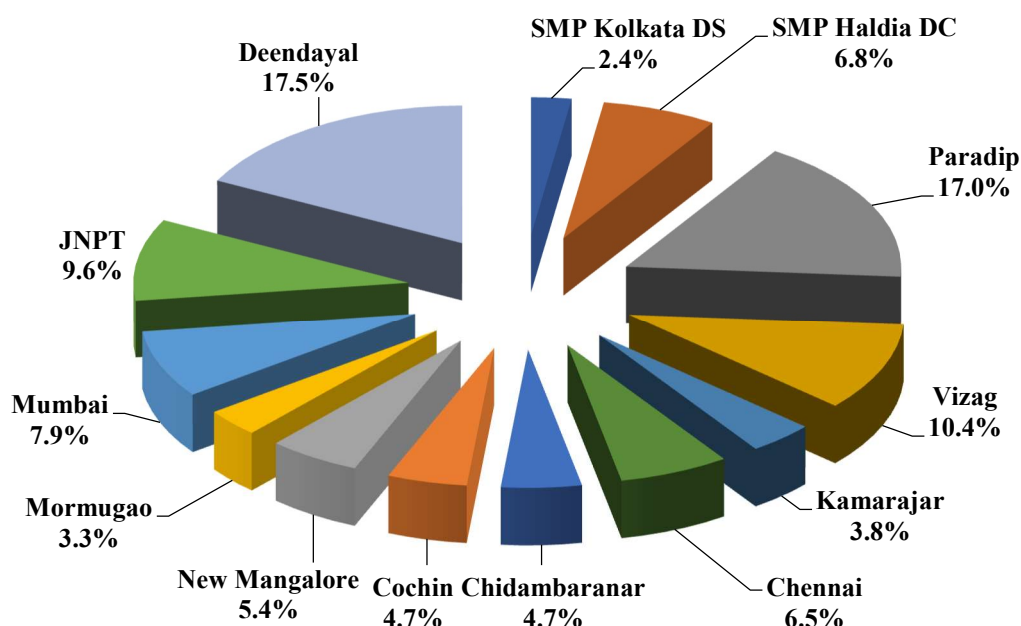
<b>Table 3 : Commodity wise Traffic Handled at Major Ports</b>							(000' Tonnes)
<b>Commodities</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21(P)</b>	<b>% change 2020-21 w.r.t to 2019-20</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
POL*	186360	200225	213261	220945	221634	190832	-13.9
Iron Ore @	15315	41765	41170	38814	55681	71390	28.2
<b>Fertiliser #</b>	<b>16023</b>	<b>14057</b>	<b>15052</b>	<b>15414</b>	<b>16154</b>	<b>17959</b>	11.2
1. Finished	8493	7043	7523	8428	9555	10387	8.7
2. Raw (DRY)	7530	7014	7529	6986	6599	7573	14.8
<b>Coal</b>	<b>134056</b>	<b>126177</b>	<b>126725</b>	<b>137481</b>	<b>118879</b>	<b>106874</b>	-10.1
1. Thermal Coal	100252	88733	87145	99600	78771	69839	-11.3
2. Coking Coal	33804	37444	39580	37881	40109	37036	-7.7
Food Grain %	2373	6504	2396	798	406	2627	547.5
Container (Tonnes)	123168	124663	133726	145522	146861	143656	-2.2
Others	128596	135082	147140	140197	145310	139186	-4.2
<b>Total</b>	<b>605891</b>	<b>648473</b>	<b>679470</b>	<b>699171</b>	<b>704925</b>	<b>672525</b>	-4.6
* Includes POL crude and POL Products only    @ includes iron ore fine and pellets only # includes Fertilizer finished and FRM-Dry only    % excludes pulses P : Provisional Source: Major Ports							

1.3.5 In terms of composition of cargo traffic handled during 2020-21 at Major Ports, the largest commodity group (with share in percent in total cargo handled) was POL (28.4%), Container traffic (21.4%), Others cargo (20.7%), Coal (15.9%), Iron ore (10.6%), Fertilizer & FRM (2.7%) and Food Grain (0.4%).

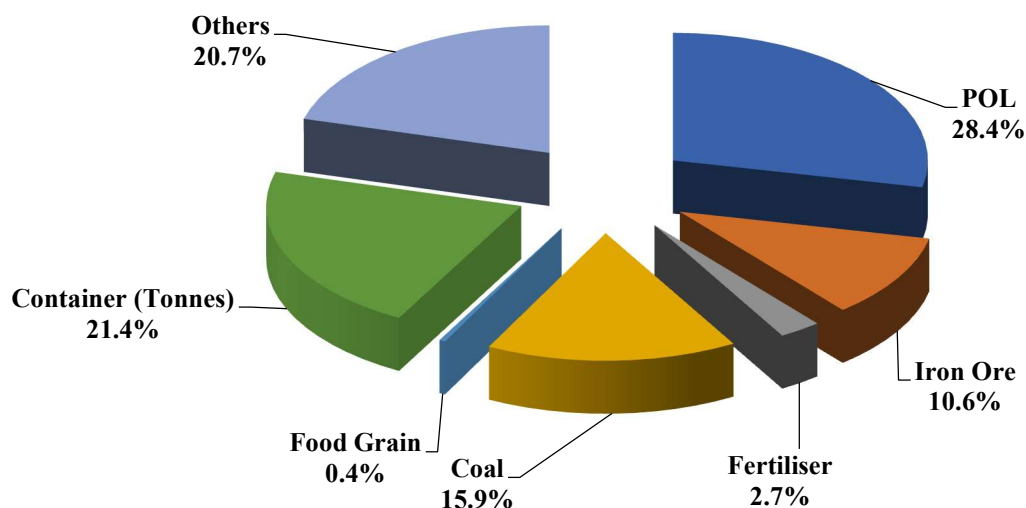
1.3.6 The Port-wise and Commodity-wise shares in total cargo traffic during 2020-21 are depicted in the **Charts VI and VII** respectively.



**Chart-VI Major Ports-Port-wise share in Traffic Handled during 2020-21**



**Chart-VII Major Ports-Commodity composition of Traffic Handled during 2020-21**



1.3.7 The Port-wise & commodity-wise traffic handled at Major Ports from financial year 2017-18 to 2020-21 is given at **Annexure-I** and port wise & commodity-wise traffic handled in Overseas and Coastal during financial year 2019-20 & 2020-21 is given at **Annexure-III**.

### Container Traffic

1.3.8 Container traffic (in million tonnes), which reflects largely trade in manufactures and components decreased by 2.2% during 2020-21 as compared to 0.9% achieved in the same period 2019-20. In terms of Twenty Foot Equivalent Units (TEUs), containers handled by Major Ports during 2020-21 recorded 2.9 % decrease as compared to 0.1% increase in 2019-20. Amongst the major ports, Kamarajar Port recorded highest growth in container traffic (in terms of Tonnes) of 53.4% followed by Paradip Port (26.0%), Deendayal Port (18.8%), Cochin Port (10.7%), New Mangalore Port (0.6%) & Chennai Port (0.2%). Major Ports which witnessed highest fall in container traffic was Mormugao Port (26.6%) followed by SMP Kolkata Dock System (15.3%), Mumbai Port (12.3%), V.O.Chidambaranar Port (8.6%), JNPT & Vishakhapatnam Port (5.4%) each and SMP Haldia Dock Complex (3.5%). JNPT continues to be the leading container handling port in the country with a share of 40.1% in terms of tonnage and 48.7% in terms of TEUs in the total container traffic at major ports during 2020-21 followed by Chennai Port (18.6%), V.O.Chidambaranar Port (10.5%), Cochin Port (6.6%), SMP Kolkata Dockyard System & Deendayal Port both (5.8%) and Visakhapatnam Port (5.7%) during 2020-21 (Table 4).

**Table 4: Container Traffic at Major Ports (in thousand tonnes/TEUs)**

PORT	2017-18		2018-19		2019-20		2020-21(P)		% change 2020-21 w.r.t to 2019-20	
	Tn	TEU	Tn	TEU	Tn	TEU	Tn	TEU	Tn	TEU
1	2	3	4	5	6	7	8	9	10	11
SMP Kolkata DS	9760	640	9934	652	9767	675	8268	540	-15.3	-20.1
SMP Haldia DC	2672	156	3140	178	3032	169	2927	149	-3.5	-11.7
Paradip	113	7	221	13	222	12	279	16	26.0	37.8
Vizag	6835	389	7959	451	8649	409	8178	481	-5.4	17.6
Chennai	29905	1549	31263	1620	26710	1384	26768	1387	0.2	0.2
Kamarajar	52	3	1101	57	2524	128	3871	201	53.4	56.5
Chidambanar	14191	698	14955	739	16436	804	15023	762	-8.6	-5.2
Cochin	7694	556	8116	595	8628	620	9550	690	10.7	11.2
New Mangalore	1744	115	1920	132	2278	153	2291	150	0.6	-1.9
Mormugao	425	32	467	37	418	32	307	22	-26.6	-30.8
JNPT	57866	4833	62114	5133	60940	5031	57661	4677	-5.4	-7.0
Mumbai	630	42	375	27	291	27	255	25	-12.3	-9.4
Deendayal	1839	117	3958	244	6967	447	8278	510	18.8	14.1
<b>All Ports</b>	<b>133726</b>	<b>9137</b>	<b>145522</b>	<b>9877</b>	<b>146861</b>	<b>9892</b>	<b>143656</b>	<b>9610</b>	<b>-2.2</b>	<b>-2.9</b>

Note: (P) - Provisional; Tn - tonnes; TEU –twenty foot equivalent unit

Source: Major Ports

## 1.4 Cargo Traffic at Non-Major Ports

1.4.1 Non-Major ports handled 46.3% of total maritime freight traffic of the country during the year 2020-21.

1.4.2 The following table (**Table 5**) presents maritime State-wise share and growth of traffic handled at Non-Major Ports from 2016-17 and onwards.

Table 5 : Traffic Handled by Non-Major Ports by Maritime States/UTs							
(000'Tonnes)							
Maritime State/UT	2016-17	2017-18	2018-19	2019-20	2020-21(P)	% Change over previous year	
						2019-20	2020-21(P)
Gujarat	345739	370769	399197	411791	387572	3.2	-5.9
	(71.3)	(70.1)	(68.5)	(67.0)	(67.0)		
Maharashtra	34894	37906	45786	43661	39779	-4.6	-8.9
	(7.2)	(7.2)	(7.9)	(7.1)	(6.9)		
Andhra Pradesh	69603	86285	103334	99905	89637	-3.3	-10.3
	(14.3)	(16.3)	(17.7)	(16.2)	(15.5)		
Goa	117	72	15	8	35	-45.9	343.4
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)		
Tamil Nadu	1152	1103	960	11370	9134	1084.3	-19.7
	(0.2)	(0.2)	(0.2)	(1.8)	(1.6)		
Karnataka	707	681	1044	935	785	-10.5	-16.0
	(0.1)	(0.1)	(0.2)	(0.2)	(0.1)		
A&N	1276	1418	1495	1851	1432	23.8	-22.6
	(0.3)	(0.3)	(0.3)	(0.3)	(0.2)		
Odisha	22473	22595	22186	35269	43034	59.0	22.0
	(4.6)	(4.3)	(3.8)	(5.7)	(7.4)		
Kerala	140	138.6	222	156	113	-29.7	-27.8
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)		
Puducherry	9112	8121	8370	10101	7330	20.7	-27.4
	(1.9)	(1.5)	(1.4)	(1.6)	(1.3)		
All M.States/UTs	485213	529089	582609	615046	578851	5.6	-5.9
	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)		
Note: Figure in parenthesis is the percentage share of traffic handled by the maritime state to the total traffic handled by all the maritime states.							
P- Provisional							

1.4.3 The cargo handled by the non-major ports during the year 2020-21 reduced by 5.9% as compared to 5.6% increase recorded in the corresponding period of previous year. Gujarat accounted for 67.0% of the traffic handled by the non-major ports followed by Andhra Pradesh (15.5%), Odisha (7.4%) and Maharashtra (6.9%). Four maritime States, viz, Gujarat, Andhra Pradesh, Maharashtra and Odisha together accounted for 96.8% of the total cargo traffic handled by the non-major ports during 2020-21. Goa has highest growth of 343.4% during 2020-21 as compared to same period of the previous year followed by Odisha (22.0%). Non Major ports which recorded **negative growth** in traffic during 2020-21 were Kerala (27.8%), Puducherry (27.4%), Andaman and Nicobar (22.6%), Tamil Nadu (19.7%), Karnataka (16.0 %), Andhra Pradesh (10.3%), Maharashtra State (8.9%) and Gujarat (5.9%).

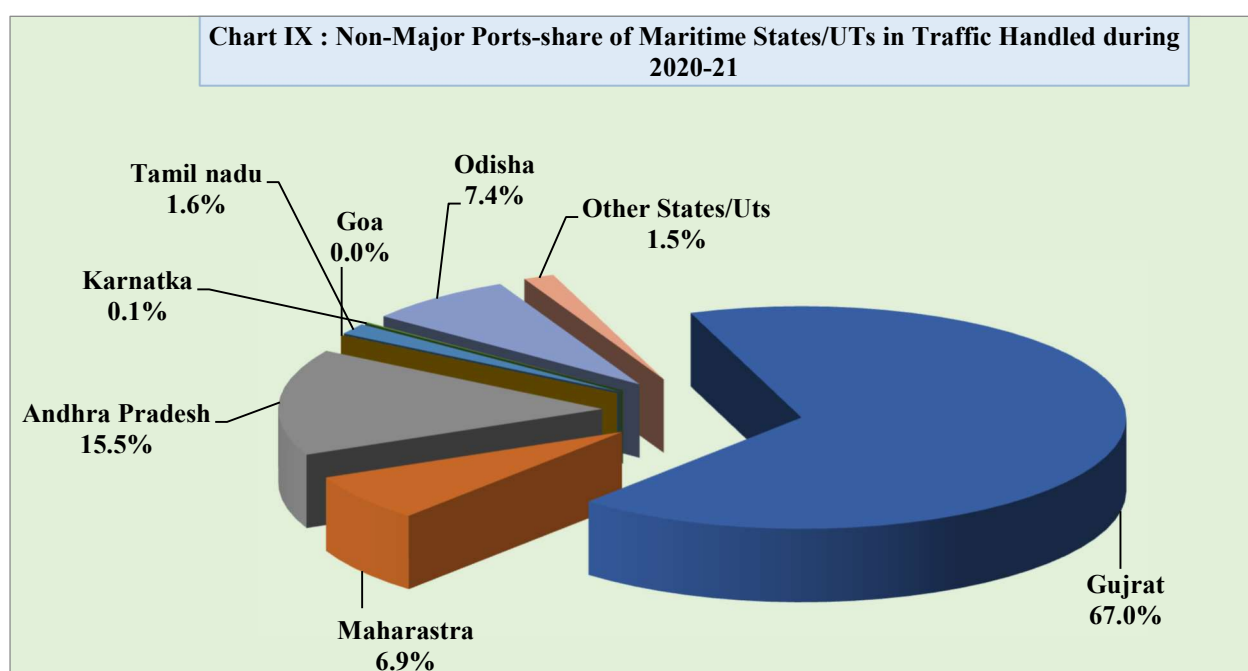
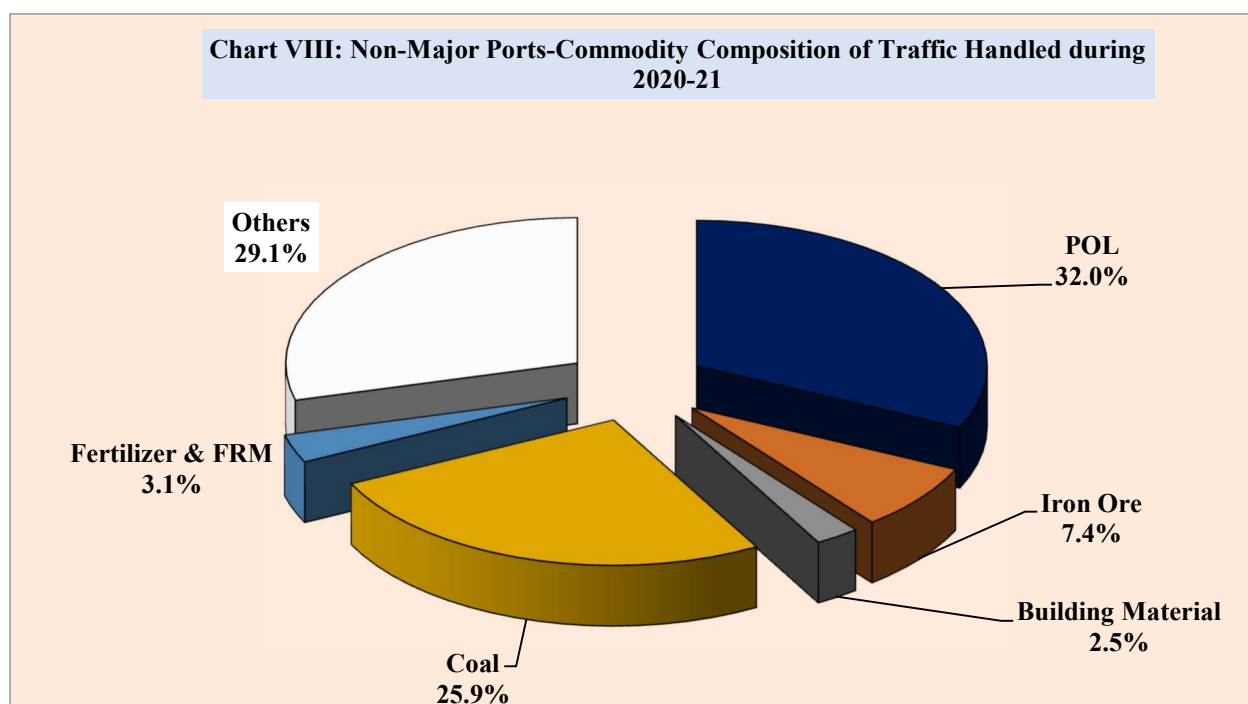


1.4.4 **Table 6** below gives the details of commodity-wise traffic handled at Non-Major Ports during 2020-21. The table shows that the two commodities, viz. POL and Coal accounted for 57.9% of the total cargo handled at the non-major ports during 2020-21 .

Table 6: Commodity-wise Traffic Handled by Non-Major Ports							
(000'Tonnes)							
Commodity	2016-17	2017-18	2018-19	2019-20	2020-21(P)	% Change over previous year	
						2019-20	2020-21 (P)
POL*	186070	193422	191749	197158	185132	-1.9	-10.2
	(38.3)	(36.6)	(32.9)	(32)	(32.0)		
Iron Ore ^	34454	36596	44823	39968	42938	-15.2	3.1
	(7.1)	(6.9)	(7.7)	(6.5)	(7.4)		
Building Material \$	15170	15588	16162	15004	14216	13.6	-35.0
	(3.1)	(2.9)	(2.8)	(2.4)	(2.5)		
Coal @	133755	146684	171096	178525	149877	11.5	-26.6
	(27.6)	(27.7)	(29.4)	(29.0)	(25.9)		
Fertilizer & FRM #	14237	11714	16224	15959	18183	1.8	16.8
	(2.9)	(2.2)	(2.8)	(2.6)	(3.1)		
Others	101527	125085	142555	168433	168506	11.4	-7.0
	(20.9)	(23.6)	(24.5)	(27.4)	(29.1)		
All	485213	529089	582609	615046	578851	4.5	-13.4
	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)		
Note: Figure in parenthesis is the percentage share of major commodity groups in the total traffic handled by the Non major ports							
* includes POL crude, POL products, LPG/LNG, Naphtha and Fuel oil. @ includes Thermal Coal, Coking coal, other coal and Pet coal							
\$ includes Building Material and Cement/Clinker ^ includes iron ore fines and Pellets							
# includes Fertilisers, FRM-Liquid, FRM Dry and Rock Phosphate							
Source: Non Major Ports/State Maritime Boards							

1.4.5 The percentage share of POL is maximum (32%) followed by Other Cargo (29.1%). The percentage share of Coal, Iron Ore, Fertilizer & FRM and Building materials are 25.9%, 7.4%, 3.1% and 2.5% respectively during 2020-21. Fertilizer & FRM registered the highest growth of 16.8% during 2020-21 as compared to same period of the previous year followed by Iron ore (3.1%). Building materials recorded the negative growth rate of 35% followed by Coal (26.6%), POL (10.2%) and other commodities (7.0%) during 2020-21.

1.4.6 The share of Maritime States/UTs in the total traffic and Commodity-wise composition of traffic during 2019-20 is depicted in the pie Charts **VIII and IX** respectively.



1.4.7 Maritime State-wise & commodity-wise traffic handled at Non-Major Ports from 2017-18 to 2020-21 is given at **Annexure-II** and port-wise/ commodity-wise traffic handled in Overseas & Coastal during 2019-20 and 2020-21 is given at **Annexure-IV**.

## 2. PERFORMANCE OF MARITIME STATES

2.1 Ports are economic and service provision units of a remarkable importance since they act as a place for the interchange of two transport modes, maritime and land, whether by rail or road. Therefore, the essential aspect of ports lies in their intermodal nature. India has a coast-line of over 7517 Kms with 12 major ports and 212 notified non-major (minor/intermediate) ports along the coast-line and sea-islands. These 212 Non-major ports are located in Gujarat (48), Maharashtra (48), Goa (5), Daman & Diu (2), Karnataka (12), Kerala (17), Lakshadweep (10), Tamil Nadu (15), Puducherry (3), Andhra Pradesh (13), Odisha (14), West Bengal (1) and Andaman & Nicobar Island (24). Out of these 212 Non-major ports, only some ports are well developed and provide all-weather berthing facilities for cargo handling. In 2020-21, only 66 Non-major Ports were reported to have handled cargo traffic. The Maritime Ports operate within the statutory framework of the Indian Ports Act 1908 which applies to all the ports. However, the Major Ports Act 1963 applies only to Major Ports. Each Major Port is administered by a 'Port Trust' except for the port of Kamarajar (Ennore) which is a corporatized entity.

2.2 The Major Ports are under the purview of the Centre while the Non-Major Ports are under the purview of the States. Port development in the Central Sector has emphasized additions to capacity as well as provision of commodity specific handling facilities (at Major Ports) as per the Plan Schemes. With the liberalization of the economy, private sector participation in development of Major Ports has been encouraged. The Maritime States are also actively pursuing the development of Non-Major Ports to meet the growing needs of the sea borne trade.

### 2.3 Maritime States Development Council (MSDC)

2.3.1 With a view to have an integrated approach for the development of both Major and Non-Major Ports, the **Maritime States Development Council (MSDC)** was constituted in May, 1997 under the Chairmanship of the Hon'ble Minister of Shipping. The Ministers in-charge of Ports in all Maritime States, Union Territories of Puducherry, Andaman's & Nicobar Administration, Daman & Diu and Lakshadweep are its members. The deliberations and decisions of the MSDC provide the institutional framework for coordinated development of Major and Non-Major ports. So far eighteen meetings of MSDC have been held. The 18<sup>th</sup> meeting of MSDC was held on 24.06.2021 at New Delhi under the chairmanship of Hon'ble Minister of State for Ports, Shipping and Waterways (Independent Charge) with Ministers and officials from various Maritime States and Government of India. In the meeting, draft Indian Port Bill, 2021 ("IP Bill, 2021") was discussed to replace the Indian Ports Act,



1908 along with progress on Nation Maritime Heritage Museum (NMHC) and review of Sagarmala projects.

## 2.4 Maritime States – Non-Major Ports

2.4.1 Non-major ports in India collectively handled 578.86 million tonnes of traffic during 2020-21 as compared to 615.05 million tonnes of cargo handled in 2019-20 recording negative growth of 5.9%.

### 2.4.2 GUJARAT

2.4.2.1 The state of Gujarat is endowed with 1215 km length of coastline which constitutes about one-sixth of the total Indian coastline. Out of 49 ports located along its coastline, 48 are non-major ports while one port, viz. Deendayal (Kandla) is a major port. Out of 48 non-major ports, 17 non-major ports in the State are handling cargo. The remaining 32 non-major ports are used for fishing activities and have negligible traffic. A snap view of the location of ports in Gujarat is given in **Chart –X**

**Chart – X: Gujarat: Major and Minor Ports**



Source : [https://gmbports.org/assets/downloads/35\\_administrative\\_report\\_2016\\_17\\_eng.pdf](https://gmbports.org/assets/downloads/35_administrative_report_2016_17_eng.pdf)

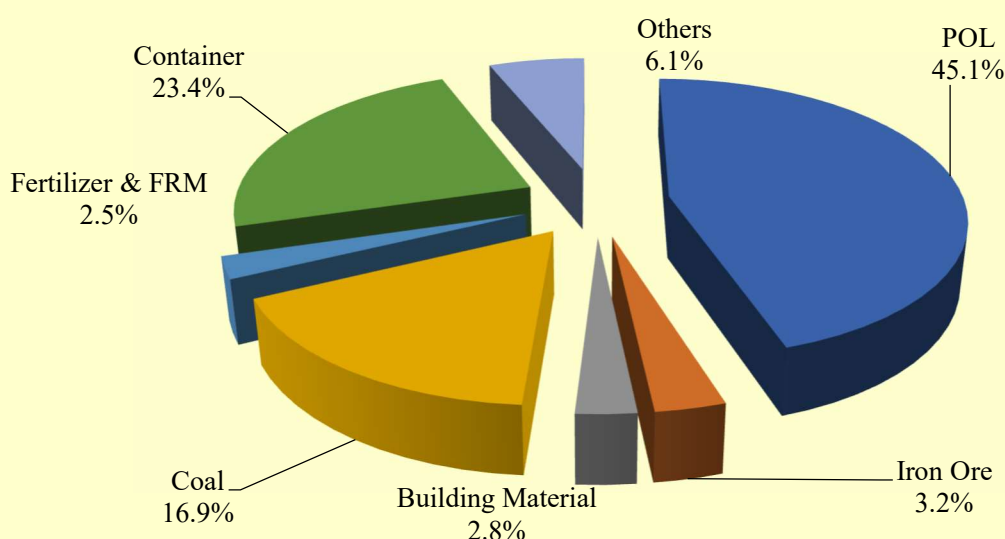
2.4.2.2 The trends in the cargo handled at both major and non-major ports of the State during last six year are given in **Table 7**.

<b>Table 7 - Gujarat: Trends in Cargo Handled at Major &amp; Non-Major Ports</b> (Million Tonnes)						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Major Ports	99.46	105.44	110.10	115.40	122.61	117.56
	(7.5)	(6.0)	(4.4)	(4.8)	(6.2)	-(4.1)
Non-Major Ports	339.78	345.74	370.77	399.20	411.79	387.57
	(1.1)	(1.8)	(1.8)	(7.2)	(3.2)	-(5.9)
All Ports	439.24	451.18	480.87	514.60	534.40	505.13
	(2.5)	(2.7)	(2.7)	(7.0)	(3.8)	-(5.5)
Figures in bracket represents percentage change over the previous year/period. (P) Provisional						

2.4.2.3 It is noteworthy that all ports (major and non-major) located along the coast of Gujarat handled 40.5% of the total cargo handled by Indian ports in 2020-21. The total cargo traffic handled at the major and non-major ports of Gujarat during 2020-21 was of the order of 505.13 million tonnes as against 534.40 million tonnes during the same period of 2019-20, reflecting a decrease of 5.5%. In particular, non-major ports of Gujarat alone handled around two-third of total cargo traffic at India's non-major ports during 2020-21.

2.4.2.4 Amongst the Maritime States of India, Gujarat is one of the States, which has played a proactive role in the development of non-major ports on its coastline. The share of commodity-wise traffic handled by non-major ports of Gujarat during 2020-21 is shown in **Chart XI**.

**Chart XI - Commodity Composition of Traffic Handled at Non-major ports of Gujarat 2020-21**



2.4.2.5 Recent trends in cargo handled and capacity creation in non-major ports of Gujarat are captured in the **Table 8**. It indicates sustained increase in cargo throughput and capacity addition. During the year 2020-21, total cargo handling capacity in the non- major port sector in Gujarat was 545 million tonnes. Gujarat Maritime Board (GMB) is the nodal agency for regulation and development of the State's maritime activities. The table indicates that from the year 2015-16 onwards the capacity of non-major ports is increased almost every year. However, the capacity utilization of non-major Ports in Gujarat decreased till 2016-17 and increased from 2017-18 onwards. In 2015-16, the capacity utilization was 72.9% which goes down to 69.0% in 2017-18. However, it increased to 75.9% during 2019-20, but again it declined to 71.2% in 2020-21.

<b>Table 8 - Gujarat: Non Major Ports - Capacity &amp; Utilization</b>						
<b>(Million Tonnes)</b>						
<b>Item</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21(P)</b>
Capacity*	466	501	523	543	543	545
	(10.4)	(7.5)	(4.4)	(3.8)	(0.0)	(0.3)
Cargo Handled	339.78	345.74	370.77	399.20	411.79	387.57
% Utilization	72.9	69.0	70.9	73.5	75.9	71.2
* Including Lighterage Port Capacity;						
Figures within parenthesis indicate capacity addition in % age during the year						

2.4.2.6 As per the port policy, Gujarat Maritime Board (GMB) has selected 11 Green Field sites for development of new ports as "All weather Deep Water Direct Berthing Ports". Amongst 11 ports, 6 ports are to be developed through private investment and remaining 5 ports in the joint sector.

## 2.4.3 MAHARASHTRA

2.4.3.1 The State has a coastline of around 653 km, with 2 major ports viz. Mumbai port and Jawahar Lal Nehru Port Trust (JNPT) and 48 non-major ports. Out of 48 non-major ports only 14 ports handled cargo in 2020-21. Maharashtra Maritime Board (MMB) is the nodal agency for regulation and development of the State's maritime activities. Total cargo handled during 2020-21 in the state was 157.83 Million Tonnes compared to 172.81 Million Tonnes handled during 2019-20 in the same period with the decline in growth by 8.7%. However, the share of the cargo handled at the two Major Ports of Maharashtra State in the total cargo was 74.8 % while share of non-major ports was only 25.3%.

2.4.3.2 The trend in the cargo handled at both major and non-major ports of the State during the last few years and current year is given in **Table 9**.

<b>Table 9 - Maharashtra: Cargo Handled at Major &amp; Non-Major Ports</b>						
<b>(Million Tonnes)</b>						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Major Ports	125.15	125.28	128.91	131.34	129.15	118.05
	-(0.3)	(0.1)	(2.9)	(1.9)	-(1.7)	(84.6)
Non-Major Ports	28.85	34.89	37.91	45.79	43.66	39.78
	(5.7)	(21.0)	(8.6)	(20.8)	-(4.6)	-(8.9)
All Ports	154.00	160.18	166.81	177.13	172.81	157.83
	(0.8)	(4.0)	(4.1)	(6.2)	-(2.4)	-(8.7)
Figures in bracket represent percentage change over the previous year/period.						
P- Provisional						

## 2.4.4 GOA

2.4.4.1 Goa with a coastline of about 118 kms is criss-crossed by 7 rivers. Apart from the major port at Mormugao, there are five non-major ports all of which are riverine ports with an average depth of about 2 meters except Panaji (which is the lone cargo handling non-major port) with a depth of 4 meters. In Goa State, the cargo handled at non-major Ports is too less as compared to Major Port. The percentage share of Major port in the total cargo handled in the Goa State was 99.8%.

2.4.4.2 The trend in the cargo handled at both major and non-major ports of the State during the last few years and current year is given in **Table 10**.



<b>Table 10: Goa : Trends in Cargo Handled at Major &amp; Non-Major Ports</b> (Million Tonnes)						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Major Ports	20.78	33.18	26.90	17.68	16.02	21.95
	(41.2)	(59.7)	-(18.9)	-(34.3)	-(09.4)	(37.1)
Non-Major Ports	0.43	0.12	0.07	0.02	0.01	0.04
	-(43.4)	-(72.8)	-(38.5)	-(79.2)	-(46.7)	(337.5)
All Ports	21.21	33.30	26.97	17.70	16.03	21.99
	(37.1)	(57.0)	-(19.0)	-(34.4)	-(09.5)	(37.2)
Figures in bracket represents percentage change over the previous year/period.						
(P) Provisional.						

## 2.4.5 KARNATAKA

2.4.5.1 Karnataka has a coastline of about 280 kms. At present, there is one major seaport, the New Mangalore Port and 12 non-major ports in Karnataka. Out of 12 non-major ports, 2 ports handle cargo in the State which is: Old Mangalore, Malpe, and Karwar port. During 2020-21, non-major ports in the state handled 0.79 million tonnes of cargo traffic as compared to 0.94 million tonnes handled in 2019-20 with the decline in growth by 37.29%. The cargo handled by major port in the Karnataka State was 36.50 million tonnes during 2020-21 as compared to 39.15 million tonnes during same period in 2019-20.

2.4.5.2 The trend in the cargo handled at both major and non-major ports of the State during the last few years and current year is given in **Table 11**.

<b>Table 11 - Karnataka: Trends in Cargo Handled at Major &amp; Non-Major Ports</b> (Million Tonnes)						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Major Ports	35.58	39.94	42.06	42.51	39.15	36.50
	-(02.7)	(12.2)	(05.3)	(01.1)	-(07.9)	-(06.8)
Non-Major Ports	0.84	0.71	0.68	1.04	0.94	0.79
	(28.3)	-(15.2)	-(03.9)	(53.5)	-(10.4)	-(16.0)
All Ports	36.42	40.64	42.74	43.55	40.08	37.29
	-(02.1)	(11.6)	(05.2)	(01.9)	-(08.0)	-(07.0)
Figures in bracket represents percentage change over the previous year/period.						
(P) Provisional.						

## 2.4.6 KERALA

2.4.6.1 Kerala has a coastline of 570 kms, with one major port at Cochin and 17 non-major ports. The Vallarpadam Container Terminal Project in Cochin has been promoted on BOT basis through public private participation. In Kerala, the four non-major ports handling cargo are: Kovalam /Vizhinjam, Kollam / Neendakara, Beypore and Azhikkal. The total cargo handled during 2020-21 in Kerala State was 31.62 million tonnes as compared to 34.19 million tonnes handled during 2019-20 reflecting decline in growth by 7.5%.

2.4.6.2 The trend in the cargo handled at both major and non-major ports of the State during the last few years and current year is given in **Table 12**.

<b>Table 12- Kerala : Trends in Cargo Handled at Major &amp; Non-Major Ports</b>						
	<b>(Million Tonnes)</b>					
Major/Non-Major	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21(P)</b>
Major Ports	22.10	25.01	29.14	32.02	34.04	31.50
	(02.3)	(13.2)	(16.5)	(09.9)	(06.3)	-(07.4)
Non-Major Ports	0.14	0.14	0.14	0.22	0.16	0.11
	-(09.4)	-(02.8)	-(01.4)	(60.9)	-(29.7)	-(27.6)
All Ports	22.24	25.15	29.28	32.24	34.19	31.62
	(02.2)	(13.1)	(16.4)	(10.1)	(06.1)	-(07.5)
Figures in bracket represents percentage change over the previous year/period.						
(P) Provisional.						

## 2.4.7 TAMIL NADU

2.4.7.1 Tamil Nadu has a coastline of about 906 km, with 3 major ports at Chennai, Kamarajar (Ennore) and V.O.Chidambaranar (Tuticorin) and 15 non-major ports. Out of 15 non-major ports, only 6 ports handled Cargo are Cuddalore, Nagapattinam, Kudankulam, Ennore, Kattupalli and Thirukkadaaiyur. A Port Policy for promoting private investment for the development of minor ports in Tamil Nadu has been formulated. Its main objectives are to provide exclusive port facilities for import of Coal/Naphtha/Oil/Natural Gas for shore based thermal power plants, promote export oriented and port based industries along the coastal districts of Tamil Nadu, encourage ship-repairing, ship-breaking and manufacture of cranes and floating cranes. In addition, leisure tourism and water sports along the coastline are also aimed.

2.4.7.2 During 2020-21, the non-major ports in Tamil Nadu collectively handled 9.13 million tonnes of cargo traffic as compared to 11.37 million tonnes in 2019-20 showing decline of 11.7%. However, the total cargo in Tamil Nadu State has been decreased to 110.36 million tonnes in 2020-21 from 125.95 million tonnes in 2019-20 reflecting decline in growth by 12.4%. The trend in the cargo

handled at both major and non-major ports of the State during the last few years and current year is given in **Table 13**.

<b>Table 13 - Tamil Nadu: Trends in Cargo Handled at Major &amp; Non-Major Ports</b> (Million Tonnes)						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Major Ports	119.11	118.70	118.91	121.85	114.58	101.23
	(03.4)	-(00.3)	(00.2)	(02.5)	-(06.0)	-(11.7)
Non-Major Ports	0.86	1.15	1.10	0.96	11.37	9.13
	(03.8)	(34.6)	-(04.3)	-(13.0)	(1084.3)	-(19.7)
All Ports	119.97	119.85	120.01	122.81	125.95	110.36
	(03.4)	-(00.1)	(00.1)	(02.3)	(02.6)	-(12.4)
Figures in bracket represents percentage change over the previous year/period. (P) Provisional.						

## 2.4.8 ANDHRA PRADESH

2.4.8.1 Andhra Pradesh has one major port at Visakhapatnam besides 13 non-major ports located at Bhavanapadu, Meghavaram, Bheemunipatnam, Gangavaram, Kakinada SEZ, Kakinada Deep Water, Rawa, Narsapur, Machilipatnam, Nizamapatnam, Vodarevu, Mutyalammappalem and Krishnapatnam. Out of 13 non-major Ports; only 5 Ports handled cargo in the State which are: Kakinada Deep Water, Krishnapatnam, Gangavaram, Rawa and Kakinada Anchorage Port.

2.4.8.2 Ports in Andhra Pradesh collectively handled 159.5 million tonnes of cargo during 2020-21 as compared to 172.6 million tonnes in 2019-20 thus registering decrease of 7.6 % in traffic handled by major and non-major ports of Andhra Pradesh. Non-major ports in Andhra Pradesh posted negative growth of 10.3% in 2020-21.

2.4.8.3 The trend in the cargo handled at both major and non-major ports of the state during the last few years and current year is given in **Table- 14**.

<b>Table 14 - Andhra Pradesh: Trends in Cargo Handled at Major &amp; Non-Major Ports</b> (Million Tonnes)						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Major Ports	57.04	61.02	63.54	65.30	72.72	69.84
	-(01.7)	(07.0)	(04.1)	(02.8)	(11.4)	-(04.0)
Non-Major Ports	72.73	69.60	86.29	103.33	99.91	89.64
	-(12.8)	-(04.3)	(24.0)	(19.8)	-(03.3)	-(10.3)
All Ports	129.8	130.6	149.8	168.6	172.6	159.5
	-(08.2)	(00.7)	(14.7)	(12.6)	(02.4)	-(07.6)
Figures in bracket represents percentage change over the previous year/period. (P) Provisional.						

## 2.4.9 ODISHA

2.4.9.1 Odisha has a Coast line of 480 Kms. from Andhra Pradesh border in Ganjam District to West Bengal border in Balasore District. It is endowed with conducive, unique, natural and strategic port locations. The Government of Orissa identified 14 potential sites for development of Minor Ports. To facilitate developers for development of Minor Ports, Government of Odisha framed the Port Policy during the year 2004.

2.4.9.2 The advantages for development of sea ports in Odisha includes availability of a vast hinterland generating cargo, comprising of other developing Eastern and Central Indian States, mineral rich hinterland which offers long term potential for cargo which need seaport facility in Odisha. Paradip port is the only major port in the State under the control of Government of India. Out of 14 non-major Ports; only two ports handled cargo traffic in Odisha which are Gopalpur and Dhamra Port.

2.4.9.3 Non-major ports in Odisha collectively handled 43.03 million tonnes of cargo during 2020-21 as compared to 35.27 million tonnes in the corresponding period of 2019-20 registering increase of 22.0% in traffic. However, the total cargo handled during 2020-21 was 157.58 million tonnes compared to 147.96 million tonnes in 2019-20 registering an increase of 6.5% in traffic. The cargo handled at Major port has registered growth of 1.7% during 2020-21 as compared to 2019-20.

2.4.9.4 The trends in the cargo handled at both major and non-major ports of the State during the last few years and current year are given in **Table 15**.

<b>Table 15 - Odisha : Trends in Cargo Handled at Major &amp; Non-Major Ports</b>						
	<b>(Million Tonnes)</b>					
Major/Non-Major	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21(P)</b>
Major Ports	76.40	88.96	102.03	109.30	112.69	114.55
	(07.6)	(16.4)	(14.7)	(07.1)	(03.1)	(01.7)
Non-Major Ports	14.95	22.47	22.60	22.19	35.27	43.03
	-(03.3)	(50.3)	(00.5)	-(01.8)	(59.0)	(22.0)
All Ports	91.35	111.43	124.62	131.49	147.96	157.58
	(05.6)	(22.0)	(11.8)	(05.5)	(12.5)	(06.5)
Figures in bracket represents percentage change over the previous year/period. (P) Provisional.						

## 2.4.10 WEST BENGAL

2.4.10.1 The State of West Bengal has a coastline of about 158 kms which has two Docks at SMP Kolkata Dock System (KDS) and SMP Haldia Dock Complex (HDC) under a single major port and

one non- major port. The trends in the cargo handled at major ports of the State during the last few years and current year are given in **Table 16**.

<b>Table 16 - West Bengal :Trends in Cargo Handled at Major &amp; Non-Major Ports</b> (Million Tonnes)						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Major Ports	50.29	50.95	57.89	63.76	63.98	61.34
	(08.6)	(01.3)	(13.6)	(10.1)	(00.3)	-(04.1)
All Ports	50.29	50.95	57.89	63.76	63.98	61.34
	(08.6)	(01.3)	(13.6)	(10.1)	(00.3)	-(04.1)
Figures in bracket represents percentage change over the previous year/period. P- Provisional						

## 2.4.11 OTHER NON-MAJOR PORTS

2.4.11.1 The other non-major ports are spread across the Union Territories (UTs) of Daman & Diu, Puducherry, Lakshadweep and Andaman & Nicobar Islands. These ports in the UTs are administered through their respective Departments. Andaman & Nicobar Islands administration has constituted a 'Port Management Board' for the development of ports in the Islands. The three non-major ports of Daman & Diu and Lakshadweep are not handling any cargo traffic for the last few years.

2.4.11.2 The trends in the cargo handled at non-major ports of the Andaman & Nicobar Islands during the last few years and current year are given in **Table 17**.

<b>Table 17 - Union Territory: Trends in Cargo Handled at A &amp; N Islands Port</b> (Million Tonnes)						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Andaman & Nicobar Islands	1.32	1.28	1.42	1.50	1.85	1.43
	(14.4)	-(03.6)	(11.1)	(05.4)	(23.8)	-(22.6)
Figures in bracket represents percentage change over the previous year/period. P- Provisional						

2.4.11.3 In January 2006, the Government of Puducherry entered into a concession agreement with private developers for the development of deep water ports on BOT basis at Puducherry and Karaikal. The commercial operations started in April 2009.

2.4.11.4 The trends in the cargo handled at non-major ports of the UTs during the last few years and current year are given in **Table 18**.

<b>Table 18 - Union Territories: Trends in Cargo Handled at Non-Major Ports</b> (Million Tonnes )						
Major/Non-Major	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21(P)
Puducherry	5.97	9.11	8.12	8.37	10.10	7.33
	(20.5)	(52.5)	-(10.9)	(03.1)	(20.7)	-(27.4)
Figures in bracket represents percentage change over the previous year/period. P- Provisional						



### 3. PERFORMANCE INDICATORS

#### 3.1 Capacity Utilization for Major and Non-Major Ports

3.1.1 Over the years, cargo handling capacity of major ports has steadily increased to cater to the growing volume of internal and external trade. The capacity of the ports which was 172.59 million tonnes at the end of 1993-94 increased to a level of 1534.91 million tonnes in 2020-21. The provisional port-wise capacity and traffic handled at Major Ports during 2020-21 are given in **Table 19**.

Table 19 -Major Port-wise Capacity Utilisation during 2020-21 (MillionTonnes)				
S.No.	Name of Ports	Capacity	Traffic**	Capacity Utilisation (%)
1	Kolkata Ports of Trust*	82.57	61.34	74.3
2	Paradip Port Trust	249.00	114.55	46.0
3	Visakhapatnam Port Trust	134.18	69.84	52.1
4	Kamarajar Ports Limited	91.00	25.89	28.4
5	Chennai Port Trust	135.00	43.55	32.3
6	V.O.Chidambaranar Port Trust	111.46	31.79	28.5
7	Cochin Port Trust	78.60	31.50	40.1
8	New Mangalore Port Trust	104.73	36.50	34.9
9	Mormugao Port Trust	63.40	21.95	34.6
10	Mumbai Port Trust	79.00	53.32	67.5
11	Jawaharlal Nehru Port Trust	138.87	64.72	46.6
12	Deendayal Port Trust	267.10	117.56	44.0
	<b>Total</b>	<b>1534.91</b>	<b>672.52</b>	<b>43.8</b>
Note: *Haldia Dock Complex included				
**Provisional				
Source: Port Wing of M/o Ports, Shipping and Waterways for Capacity and Major Ports for Traffic				

3.1.2 The above table shows that around 43.8% capacity has been utilized at Major Ports during 2020-21. The highest capacity utilization i.e. 74.3% is achieved at SMP Kolkata Port Trust (including Haldia Dock Complex) followed Mumbai Port by (67.5%), Visakhapatnam Port Trust (52.1%), JNPT (46.6%), Paradip Port Trust (46.0%), Deendayal Port Trust (44.0%) and Cochin Port Trust (40.1%) during 2020-21. The least capacity utilization was at Kamarajar Port which was 28.4% only during 2020-21.

3.1.3 The **Table 20** below shows that around 58.2% capacity has been utilized at Non-major Ports during 2020-21. The highest capacity utilization i.e. 71.2% is achieved at Gujarat Maritime Board (GMB) followed by Odisha (61.5%), Puducherry (43.2%), Andhra Pradesh Maritime Board (46.3%), Tamil Nadu Maritime Board (TNMB) (36.5%), Port Management Board, A&N Islands (34.8%),

Maharashtra Maritime Board (MMB) (31.8%), Karnataka Maritime Board (15.7%), Kerala Maritime Board (10.5%) and Goa (0.4%) during 2020-21.

<b>Table 20-Non-Major Port-wise Capacity Utilisation during 2020-21</b>				
<b>(Million Tonnes)</b>				
<b>S.No.</b>	<b>Name of Ports</b>	<b>Capacity</b>	<b>Traffic</b>	<b>Capacity Utilisation (%)</b>
1	Gujarat	544.62	387.57	71.2
2	Maharashtra	125.00	39.78	31.8
3	Tamil Nadu	25.05	9.13	36.5
4	Goa	9.00	0.04	0.4
5	Kerala	1.07	0.11	10.5
6	Karnataka	5.00	0.79	15.7
7	Andhra Pradesh	193.40	89.64	46.3
8	Odisha	70.00	43.03	61.5
9	Puducherry	16.96	7.33	43.2
10	Andaman & Nicobar Islands	4.11	1.43	34.8
	<b>Total</b>	<b>994.21</b>	<b>578.85</b>	<b>58.2</b>

Source: State Maritime Board/ Directorate of Ports

## **3.2 Cargo Traffic Targets & achievement during 2020-21 for Major ports.**

3.2.1 Total cargo handled at Major Ports during 2020-21 was 672.53 million tonnes against the target of 650 million tonnes, achieving 103.5% of the target during 2020-21.

## **3.3 Port Efficiency**

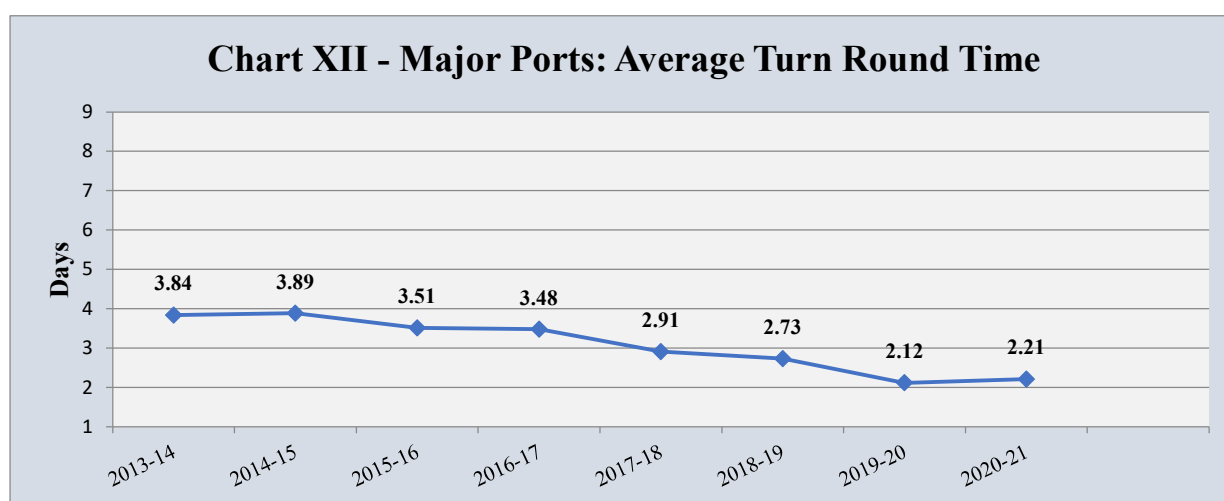
3.3.1 Efficiency at ports has an impact on transaction cost of shipping lines. Major Ports have improved their efficiency of operations as reflected in select physical performance indicators over the last several years. Some key operational indicators of physical performance pertaining to major ports for the select years are elaborated below.

### **Average Turn-Round Time (TRT)**

3.3.2 This parameter has improved significantly since the past one and half decades for all the major ports. Average TRT for all major ports improved from 8.10 days in 1990-91 to 3.63 days in 2005-06. Thereafter the TRT has decreased steadily to 3.51 days in 2015-16. The average TRT improved in 2019-20 to 2.12 days, but it increased slightly to 2.21 days during 2020-21. The average TRT varied in the range between 1.19 days at JNPT to 2.91 days at SMP Haldia Dock during 2020-21. Among the 12 major ports, Average TRT has been improved at SMP Kolkata Dock, JNPT & Mormugao Port during 2020-21. Port-wise TRT for selected years is given in **Table 21**.

<b>Table 21: Average Turn Round Time (days)</b>						
<b>Port</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20 *</b>	<b>2020-21(P)*</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
SMP Kolkata D.S	4.78	4.43	3.77	3.35	3.17	2.37
SMP Haldia D.C	3.27	5.47	3.75	3.03	2.75	2.91
Paradip	4.50	4.99	3.31	2.51	2.34	2.42
Vishakhapatnam	3.84	3.75	2.58	2.51	2.43	2.75
Kamarajar (Ennore)	6.87	2.68	2.19	1.96	1.73	1.79
Chennai	2.53	2.51	2.21	1.98	2.00	2.14
Chidambaranar	3.53	4.00	2.40	1.76	1.67	1.70
Cochin	2.18	1.99	1.87	1.94	1.45	1.49
New Mangalore	2.63	2.35	2.04	1.93	1.90	1.98
Mormugao	3.37	3.43	3.15	3.48	2.33	2.13
J.L.Nehru	2.31	1.96	2.23	2.13	1.23	1.19
Mumbai	3.29	2.48	2.76	2.69	1.70	1.96
Deendayal	4.28	4.51	4.25	4.68	2.54	2.80
<b>All Ports</b>	<b>3.51</b>	<b>3.48</b>	<b>2.91</b>	<b>2.73</b>	<b>2.12</b>	<b>2.21</b>
* As per revised TRT definition, from Pilot boarding to de-boarding.						
Source: Major Ports, P: Provisional						

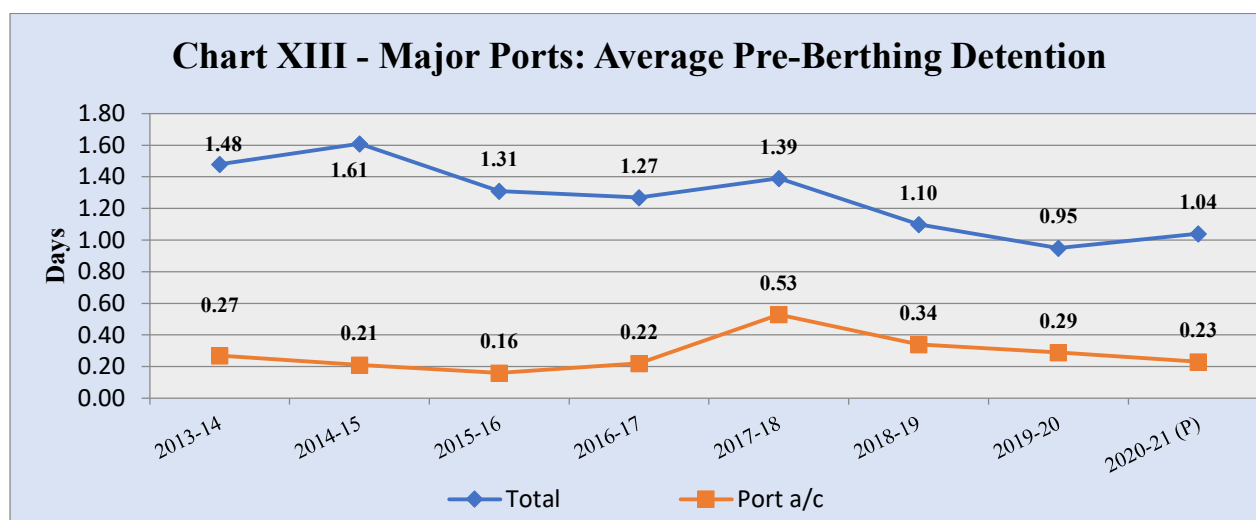
Average Turn Round Time at major ports for selected years from 2013-14 to 2020-21 is presented in the **Chart XII** below.



Source: Major Ports  
Turn Round Time- From Pilot Boarding to de-boarding only.

### Average Pre Berthing Detention Time (PBDT)

3.3.3 The average overall pre berthing detention time of all major ports declined from 2.16 days in 1990-91 to 2.05 days in 2011-12 and in during 2019-20 and 2020-21, average PBDT edged up to 0.95 days and 1.04 days respectively. The trajectory of weighted average of pre-berthing detention time at Major Ports – total and on Port account since 2013-14 to 2020-21 is shown in the **Chart XIII** below.



3.3.4 Average PBDT on port account has seen a sharper decline from 2.10 days in 1990-91 to 0.50 days in 2011-12. Average PBDT on port account were at 0.27 days and 0.21 days in 2013-14 and 2014-15 respectively. In 2018-19, the Average PBDT on port account increased to 0.34 days. However, it decreases to 0.29 days in 2019-20 and further declined to 0.23 days in 2020-21 Port-wise PBDT for selected years is indicated in **Table 22**.

<b>Table 22 : Average Pre-Berthing Detention(Days)</b>							
<b>Port</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21(P)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
SMP Kolkata D.S	0.71	0.50	0.57	0.62	0.46	0.70	0.51
SMP Haldia D.C	1.43	0.66	2.49	3.15	2.72	2.96	2.71
Paradip	4.11	2.05	2.47	0.87	0.30	0.64	0.26
Vishakhapatnam	2.59	1.47	1.22	2.37	1.29	0.05	0.05
Kamarajar	2.51	4.73	0.96	0.57	0.18	0.12	0.08
Chennai	0.41	0.44	0.38	0.86	0.15	0.00	0.02
Chidambaranar	1.07	1.33	1.80	1.13	0.68	0.65	0.50
Cochin	0.81	0.66	0.48	0.43	0.53	0.48	0.64
New Mangalore	0.60	0.76	0.00	1.16	1.10	1.26	1.09
Mormugao	1.61	1.38	1.67	1.31	1.24	1.21	1.26
J.L.Nehru	0.80	1.17	0.77	0.92	0.82	0.77	0.91
Mumbai	1.69	1.27	0.46	0.96	1.07	0.16	0.10
Deendayal	2.52	1.98	2.02	1.90	2.02	1.85	2.81
<b>All Ports</b>	<b>1.61</b>	<b>1.31</b>	<b>1.27</b>	<b>1.39</b>	<b>1.10</b>	<b>0.95</b>	<b>1.04</b>
Source: Major Ports P: Provisional							

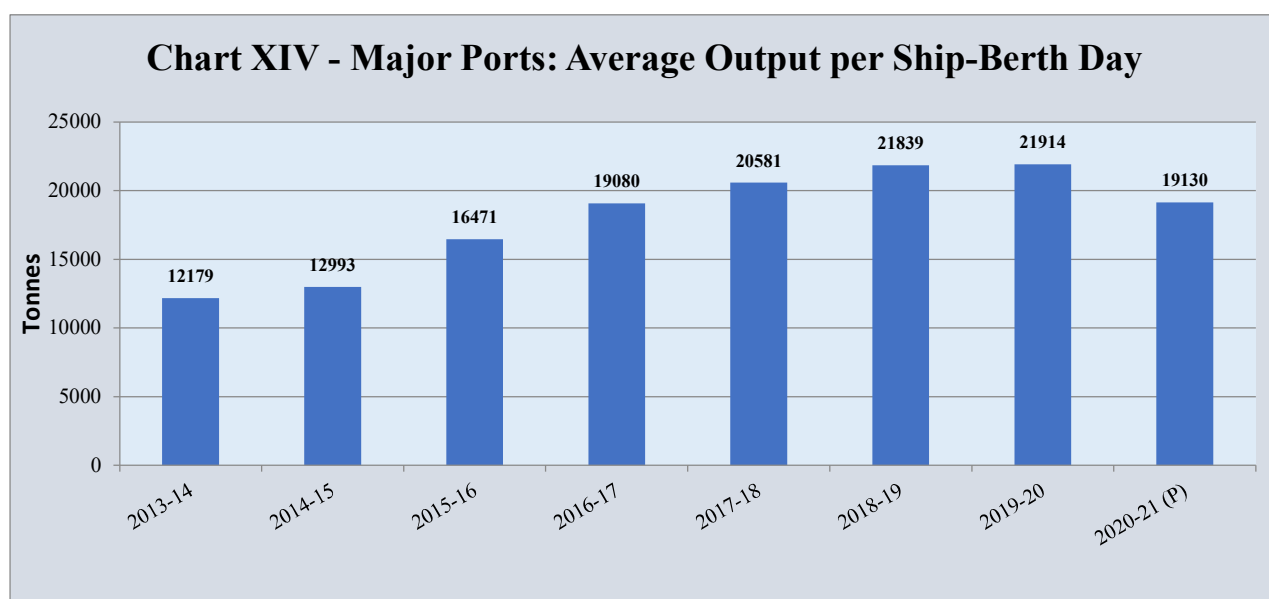
### Average Output Per Ship Berth-day

3.3.5 During the last 25 years this indicator has seen a tremendous improvement. Average Output per Ship-berth-day has increased more than six times from 3,372 tonnes in 1990-91 to 21914 tonnes

in 2019-20 for major ports but slightly declined to 19130 tonnes in 2020-21. However, average output per ship berth-day during 2020-21 is marked by substantial variation across major ports ranging from a high 30589 tonnes in case of Cochin to a low of 8210 tonnes at SMP Kolkata Dock System. This variation reflects the type of cargo being handled, level of mechanization and labour practices. Port-wise average output per Ship-berth-day for selected years is given in **Table 23**.

<b>Table 23: Average Output per Ship Berth-day (Tonnes)</b>							
<b>Port</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21 (P)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
SMP Kolkata D.S	3084	3201	6080	6962	7765	7174	8210
SMP Haldia D.C	6802	9126	12537	13832	15083	15192	14243
Paradip	17736	26965	30245	33440	36030	32001	30224
Visakhapatnam	10640	17179	16823	17592	18281	20032	17238
Kamarajar	22613	31106	26235	28456	27678	26581	23945
Chennai	14464	18976	19220	19113	21001	20340	20330
Chidambaranar	10468	13619	13612	15557	19494	19334	19302
Cochin	16906	20962	23539	28143	30150	31258	30589
New Mangalore	19856	16165	17094	16378	18126	19140	19049
Mormugao	12272	21542	30414	24948	18685	19944	24305
J.L.Nehru	21310	23792	23897	22526	25847	28296	27711
Mumbai	11055	18020	20915	22996	25941	25608	23865
Deendayal	15159	16538	18235	22903	21373	21109	10464
<b>All Ports</b>	<b>12993</b>	<b>16471</b>	<b>19080</b>	<b>20581</b>	<b>21839</b>	<b>21914</b>	<b>19130</b>
Source: Major Ports, P: Provisional							

3.3.6 The average output per ship-berth-day for the selected years since 2013-14 to 2020-21 is presented in the chart XIV below.





#### **4. PRIVATE SECTOR/CAPTIVE/JOINT SECTOR PORT PROJECTS**

Brief details of the ongoing Private Sector/Captive/Joint Sector Port Projects and a list of these projects under consideration as on 31.03.2020 are brought out in Appendix-I & Appendix-II in respect of Major Ports and in Appendix-III & Appendix-IV for Non – Major Ports.

#### **APPENDICES**

- I. Ongoing Private Sector/Captive/ Joint Venture Port Projects at Major Ports
- II. Under Formulation Private Sector/Captive/ Joint Venture Port Projects at Major Ports
- III. Ongoing Private Sector/Captive/ Joint Venture Port Projects at Non-Major Ports
- IV. Under Formulation Private Sector/Captive/ Joint Venture Port Projects at Non- Major Ports

**Appendix – I****Ongoing Private Sector/Captive/Joint venture Port Projects  
(Major Ports)**

Sl. No.	Project Name	Port Name	Capacity (Million Tonnes)	Project Cost (Rs. Crores)	Project Status
1	2	3	4	5	6
1.	Development of Container Terminal on DBFOT basis	Kamarajar Port Ltd	27.02 (Stage I-15.44 MTPA Stage-II- 11.58 MTPA)	1270.00	Stage-I- Operational since Oct'17. Stage-II – Construction activities commenced on 30.1.2020. However, the concessionaire has raised Arbitration on various issues including schedule of Stage-II construction. Further, site establishments has been demobilized during COVID-19 pandemic and presently no work at site.
2.	Development of Multi Cargo Terminal on DBFOT basis	Kamarajar Port Ltd	2.00	164.37	Terminal Operation from Aug'17.
3.	Construction of Coal Berth 3	Kamarajar Port Ltd	9.00	254.34	Berth construction completed Top loading facilities to be erected by TANGEDCO.
4.	Construction of Coal berth 4	Kamarajar Port Ltd	9.00	290.67	Berth construction completed. Top loading facilities erection is in progress.
5.	Development of LNG Import Terminal at KPL	Kamarajar Port Ltd	3.00	5151.00	Operation commenced from 26.02.2019
6.	Mechanization of Berth No. 14 for Handling Container and Other Cargo on DBFOT Basis at NMP	New Mangalore Port Trust	6.02 (in 2 phases)	280.71	Concession Agreement signed with M/s.JSW Mangalore Container Terminal Pvt. Ltd. Construction phase commenced w.e.f. 01.01.2021. Expected date of commissioning is 01.01.2022.
7.	Extension of existing Container terminal in Outer Harbour.	Visakhapatnam	0.54 MTEUs	633.11	Concession awarded on 02.03.2019. Construction work is in progress. Physical progress is 61.71%.
8.	Mechanization of EQ-1,2,3 berths at Paradip Port on BOT basis	Paradip Port Trust	30	1437.76	Under construction. Date of Completion - 13.09.2021.

9.	Development of New Coal berth for handling of Coal Imports at Paradip Port on BOT basis	Paradip Port Trust	10	655.56	Under construction. Date of Completion - 18.10.2021.
10.	Development of fourth container terminal, Phase-II on OBFOT basis	JNPT	30 MTPA	3196.00	The construction of phase-1 is completed and operation was commenced from 22.12.2017. The scheduled completion of phase-II is 22.12.2026
11	Additional Liquid Cargo Terminal Phase-I	JNPT	4.5 MTPA	1815.00	The EPC contract for development of Additional Liquid Cargo jetty has been issued to M/s ITD Cementation India Ltd, on 28 <sup>th</sup> March 2019 at cost Rs 181 crores. The construction work is 35% over. The project expected in June 2023.
12	Setting up of Floating Storage Regasification Unit (FSRU) at Mumbai Harbour on Land license Model	Mumbai Port Trust	5	900.0	LOI has been issued on 18.2.2021.
13	Coal Jetty set up by TPCL	Mumbai Port Trust	3	40.0	Set up in the year 2008 by Tata Power Co. Ltd on their land. The approach is through the MbPT waters.
14	Development of Barge Handling Facility at Bharathi Dock under PPP model.	Chennai Port Trust	1.35 MTPA	27.29	Project awarded on 31.03.2018 for carrying out the project on in-house mode and the work is in progress.
15	“Construction of 1.5 Lac Sqm hardstand with concrete paver blocks including drainage facilities behind berth no. 5 within dock interior zone at haldia dock complex”	HDC, SMP, Kolkata	1.5 Lakh SQM	51.02	Phy. 71.00%  Fin. 66.30%
16.	Construction of Liquid Cargo Handling Jetty (Outer Terminal-II) near 2nd Oil Jetty.	HDC, SMP, Kolkata	2.00	74.59	Phy. 40.50%  Fin. 33.80%
17.	Procurement of 3rd RMQC.	HDC, SMP, Kolkata	2.50	52.82	Phy. 26.00% Fin. 9.23%
18.	Augmentation of Fire Fighting system at HOJ-I&II including 2 nos. Barge Jetties including O&M for 10 years.	HDC, SMP, Kolkata	Nil	107.49	Phy. 5.10%  Fin. 0.00%

19.	Development of container Stacking yard at northern side of 3 NSD shed adjacent green verge for creation of a New Reefer Park and other allied works at NSD (A/c KDS)	KOLKATA DOCK SYSTEM of SMP, KOLKATA	-	1.572 (Final Bill Value)	Project Completed.
20.	Development of area between 1 CPY & Reefer Park adjoining green verge area for CPY including relocation of existing Fire line & Cable Duct etc. at NS Dock (A/c KDS)	KOLKATA DOCK SYSTEM of SMP, KOLKATA	-	1.575	Project Completed.
21.	Dry Bulk Terminal off Tekra near Tuna on BOT basis (Outside Kandla Creek)	DPT	14.11	1046.2	Project is under operation
22.	Development of Oil Jetty to handle Liquid Cargo and Ship Bunkering Terminal at Old Kandla on BOT Basis	DPT	3.39	233.5	Concession of the project awarded to the Concessionaire on 11.12.2020. Construction phase is ongoing.
23	Development of marine liquid terminal facilities consisting of SPM and 2 product berths in KPL waters at OOT, Vadinar, DPT on Captive use basis	DPT	24.50	448.0	Construction activities yet to start by the Concessionaire even after repeated follow up by way of review meetings & written reminders.
24.	Reconstruction of South Coal Berth at Cochin Port for Handling Chemicals	Cochin	1.30	19.19	Letter of Award for 'Reconstruction of SCB on EPC Contract basis' issued to the L1 bidder, M/s. KJV Builders & Developers Pvt. Ltd., Kochi, for Rs.17,70,55,267.50, on 19-11-2020 and the pre-execution works commenced on 26-11-2020 . The Hon'ble Prime Minister of India laid the foundation stone on 14-02-21. Drawings and design related activities are in progress.
25	Construction and Operation of general cargo berth No. 5 & 6 at Mormugao Port, Goa on BOOT basis.	Mormugao Port Trust	5.00 MTPA	250.00	Operational since 19.06.2004
26	Development of a Coal Import Terminal at Berth No.7 at Mormugao Port Goa on DBFOT basis	Mormugao Port Trust	4.61 MTPA	404.97	Operational since 06.06.2014

BOT: Build Operate and Transfer; BOO: Build Own Operate; DBFOT: Design, Build, Finance, Operate and Transfer.

Note: - The project status is updated as on 31<sup>st</sup> March, 2021.

**Appendix – II****Private Sector/Captive/Joint Venture Port Projects Under Formulation  
(Major Ports)**

Sl. No	Project	Port Name	Capacity (Million Tonnes)	Project Cost (Rs. In crores)	Project Status
1	2	3	4	5	6
1.	Development of Western Dock on BOT basis to handle cape size vessels at Paradip Port	Paradip Port Trust	25	2392.13	In RFQ tendering stage. Date of receipt of RFQ Applications - 03.06.2021.
2.	Construction of Rubble bund at North of existing cooling water channel for reclaiming NCB III dredged material.	VOCPT	--	5.94	Tender under evaluation.
3.	Dredging in front of NCB-III at VOC Port	VOCPT	8.90	64.15	Board in its meeting held on 20.01.2021 accorded approval to execute NCBIII dredging by VOCPT through internal resources at the estimate cost of Rs. 64.15 Crs as per the report submitted by M/s. NTCPCW and engage by M/s. DCI as PMC for the NCBIII dredging works. Port wide letter dated: 08.03.2021 has requested MOPSW for approval to execute NCBIII dredging by VOCPT through internal resources and to engage by M/s. DCI as PMC for the NCBIII dredging works.
4.	Widening of the Port mouth entrance at VOC Port	VOCPT	---	15.24	Tender under evaluation.
5.	Design, Build 5MLD capacity Desalination Plant based on sea water Reverse osmosis at VOC Port Trust, Tuticorin and operation and	VOCPT	---	143.62	Port submitted the proposal to Delegated Investment Board (DIB) on 12.03.2020.  CRZ meeting held on 28.04.2020 through video conference and clearance obtained.  Meeting was chaired by Additional Secretary, MOS on 15.07.2020.



	Maintenance for 20 years.				<p>In the meeting it was suggested to invite Expression of Interest (EOI) to execute the job through PPP mode.</p> <p>Action had been initiated for EoI for execute the project on PPP mode.</p> <p>Awaiting reply from Ministry for Execution of EoI.</p>
6.	Development of 9th Berth as container Terminal on BOT basis	VOCPT	7.20	434.17	<p>SFC Memo sent to MOS on 22.09.2020.</p> <p>SFC meeting held on 18.01.2021.</p> <p>Approval of MOPSW received on 08.03.2021.</p> <p>RFQ will be invited after the model code of conduct.</p>
7.	Mechanization of NCB-III for handling dry bulk cargo on BOT basis	VOCPT	8.90	339.60	SFC Memo is under finalization.
8.	Development of Outer Harbour at Chennai Port (previously called Development of Mega Container /Terminal) Under PPP mode on DBFOT basis	Chennai Port Trust	(32 MTPA)	5100	<p>The Mega Terminal Project was restructured during December 2013 as “Outer Harbour Project” for handling multipurpose cargoes at an estimated cost of Rs.5100 Cr. Bids were invited during 2014; but there was no response from potential bidders and hence proposed to wind up the Project.</p> <p>Further, the Board during its meeting held on 12.01.2021, suggested to decide this issue after finalisation of Master Plan of ChPT, taking into account the acquisition of KPL. Hence, dropping the project is kept on hold till the Master Plan is finalised.</p>
9.	Development of Rajiv Gandhi Dry Port and Multi Modal Logistic Hub for Chennai Port in SIPCOT industrial park at Mappedu near Sriperrumbudur, under PPP mode <b>Renamed as Development of land acquired</b>	Chennai Port Trust	18.45 MTPA	415	<p>121.74 acres of land at Mappedu was acquired for long term lease (99 years) from SIPCOT, GoTN. Due to global recession, PPP bids failed. Bids invited on land lease model was also not fruitful as SIPCOT imposed sub-lease charges. As one of the development initiatives taken by ChPT, the land parcel at Mappedu has been identified by MoRTH and NHA and planned for the “Development of Multimodal Logistics Parks (MMLP)”, as a part of Bharatmala</p>

	<b>by Chennai Port at Mappedu, Sriperumbudur</b>				Pariyojana. MoRT&H approved the Management model for implementation, by forming an SPV with stakeholders of NHAI, ChPT, GoTN& Railways and shall take development in PPP mode.
10.	Development of Dry Dock/ Ship Repair facility at Timber pond/Boat basin in Chennai Port	Chennai Port Trust		315	<p>MoS approved the proposal on 10.10.2019 for leasing of Timber Pond &amp; Boat Basin for 99 years to ICG for Development of Dry Dock. ICG remitted an amount of Rs. 453,62,26,000/- to Chennai Port on 19.07.2019.:</p> <p>(i) Whether the allotment made to ICG on concessional rate is within the Custom Bound area;</p> <p>(ii) Whether any Security Deposit collected from ICG for the allotment; and</p> <p>(iii) A copy of the Agreement entered with ICG for reference.</p>
11.	Development of Bharthi Dock -2(BD-II) as co- terminal in Chennai Port Trust	Chennai Port Trust	5MTPA	180	After examining options, it was decided to develop a Coal Terminal through PPP mode subject to favourable recommendations from the Empowered Committee constituted by Hon'ble Supreme Court. The Port is taking measures to comply with the recommendations of the Empowered Committee. Meanwhile, EoI was called for developing a Bulk Cargo Terminal at BD-II as a captive facility, but response was not encouraging in view of the strict competition and capacity creation in neighboring ports in the region and considering the investment involved in development of facility for handling coal in dust free manner in State of the Art Technology.
12.	Development of JD (East) berths as Multi cargo Terminal.	Chennai Port Trust	8 MTPA	360	As no bids were received for the development of Container terminal and multi cargo terminal, it was proposed to utilize the berth for handling of coal and other dusty cargoes. The Port is taking measures to comply with the recommendations of the Empowered Committee constituted by Hon'ble Supreme Court. However, the proposal of Development of JD (E) as Multi cargo terminal is to be Dropped on account of Proposed Merger with KPL as per the decision taken during video

					conferencing meeting held on 26.04.2019 to review of Sagarmala projects and Coastal shipping activities of ChPT& KPL.
13.	Development of Captive Jetty by IOCL	Kamarajar Port Limited	3.00 MTPA	921.00	<p>Concession Agreement signed on 09.06.2016.</p> <p>Environmental clearance for commenced of work was obtained on 30.10.2018</p> <p>DPR for the project has been approved by independent Engineer in Sep'2020.</p> <p>Likely date of Commencement of Construction works- July'2021</p> <p>CTE obtained by IOCL during April 2021. Awaiting PESO approval.</p> <p>IOCL has invited EPC tenders during March 2021 and selection of EPC contractor by IOCL is underway</p>
14.	Development of Marine Liquid Terminal – II on DBFOT basis	Kamarajar Port Limited	3.00 MTPA	393.00	<p>KPL issued LOA to Consortium of BPCL-HPCL on 14.02.2018.</p> <p>Litigation with the existing BOT operation of MLT-1(ETTPL) regarding the expansion of their jetty length.</p> <p>KPL is unable to allot the water front for MLT-2 and sign the Concession Agreement with BPCL-HPCL consortium.</p> <p>As per Hon'ble High Court of Madras direction, mediation between both the parties is underway.</p>
15.	Mechanization of Berth No. 2 (previous berth no.3)	HDC, SMP, Kolkata	3.74	298.26	<p>RFP Stage</p> <p>RFP invited on 17.02.21</p>
16.	Setting up of Liquid Cargo Handling Jetty alongwith associated facilities at Shalukkhali, Haldia Dock-II, Haldia Dock Complex, Kolkata Port Trust on DBFOT basis for a period of 30 years.	HDC, SMP, Kolkata	2.04	172.52	Under Condition Precedent Stage
17	Rejuvenation of Khidderpore Docks (PPP)	KOLKATA DOCK SYSTEM of SMP, KOLKATA	<p>3.00 MTPA (1st Phase)</p> <p>2.48 MTPA (2nd Phase)</p>	<p>181.81 Cr. (PPP Mode)</p> <p>INR 95.66 Cr. (1st Phase)</p> <p>INR 86.15 Cr. (2nd Phase)</p>	<p>RFQ floated on 26-June-20.</p> <p>Letter regarding Security clearance of applicants sent to Ministry on 11-Dec-2020. Security Clearance awaited.</p> <p>RFP issued.</p>

18.	Development of Marina at Prince's Dock	Mumbai Port Trust	Facility for 300 boats	365.0	RFP invited. Last date of Submission is 2.7.2021
19.	Operation and Management of International Cruise Terminal at Indira Dock	Mumbai Port Trust	Cruise tourism	192.0	RFP bids received on 24.2.2021. Security Clearance from GOI awaited.
20.	Mechanization of WQ-7 & 8 berths.	Visakhapatnam	6.14	288.47	LOA issued to M/s.Giarander& Associates for Transaction Advisory services on 29.01.2021.  SFC proposal documents under scrutiny by VPT.
21.	Mechanization of EQ-7 berth.	Visakhapatnam	3.61	200.99	LOA issued to M/s.Giarander& Associates for Transaction Advisory services on 29.01.2021.  SFC proposal documents yet to be submitted by the Transaction Advisor.
22.	Mechanization of EQ-6 berth.	Visakhapatnam	3.00	250.00	Bids were invited for preparation of TEFR in connection with submitting new SFC proposal under PPP mode.
23.	Mechanization of WQ-6 berth.	Visakhapatnam	2.08	250.00	Work order to be issued to M/s.BMT consultants for preparation of TEFR as part of submitting new proposal under PPP mode as per the Board directions.
24.	Redevelopment of Berth No9&3nos Barge jetties.	MoPT	14.0	1000	Feasibility Study is in progress
25.	Operation & Maintenance of Berth No10&11 on PPP-OMT Basis	MoPT	6.0	200	Feasibility Study is in progress
26.	Development of International & Domestic Cruise Terminal & other allied facilities at Mormugao Port	MoPT	Nil	122.72	1)Revised SFC, RFPand O&M agreement is being finalized . 2)Work order issued to Cochin Port Trust for appointment of Project Management Consultant (PMC) on 07.04.2021.
27.	Development, operation and Maintenance of Oil Jetty No.9 for handling all types of liquid cargo under	DPT	3.5	123.40	<ul style="list-style-type: none"> <li>SFC Memo along with RFP, DCA, F.R. &amp; RFQ sent to MoS on 27/07/2020.</li> </ul> SFC meeting for OJ 10 held on 26.11.20. SFC meeting for OJ 09 held on 10.12.20.

	BOT basis under PPP mode				TAMP approved Tariff for OJ- 9&10
28.	Development, operation and Maintenance of Oil Jetty No.10 for handling all types of liquid cargo under BOT basis under PPP mode for concession period of 30 years	DPT	3.5	123.12	
29.	Development, operation and Maintenance of Oil Jetty No.11 for handling all types of liquid cargo under BOT basis under PPP mode for concession period of 30 years	DPT	3.5	361.70	SFC Memo along with RFP, DCA, Revised F.R. & Revised RFQ sent to MoS on 09/09/2020 Tariff proposal sent to TAMP on 01/01/2021. SFC meeting for OJ 11 held on 10.12.20.
30.	Setting up of a Container Terminal at Tuna-Tekra, Kandla Port on BOT basis under PPP Mode	DPT	2.19 (MTEUs)	4243.64	The Feasibility Report has been approved by the Board of DPT in its meeting held on 19.02.2021.  The PPPAC Memorandum along with bidding documents have been sent to MoPSW on 26.02.2021.  Tariff proposal approved by TAMP
31.	Development of Multipurpose Cargo Berth Off Tuna Tekra Outside Kandla Creek At Kandla on BOT basis	DPT	18.33	1552.57	PPPAC Memorandum sent to MoPSW on 26.02.2021.  Approval of Tariff from TAMP is awaited.

BOT: Build Operate and Transfer; BOO: Build Own Operate; DBFOT: Design, Build, Finance, Operate and Transfer.  
Note: - The project status is updated as on 31<sup>st</sup> March 2021.

## Appendix – III

### Ongoing Private Sector/Captive/Joint venture Port Projects (Non-Major Ports)

Sl. No	Project Name	State/ Ports Maritime Board	Capacity (Million Tonnes)	Project Cost (Rs. In Crore)	Project Status
1	2	3	4	5	6
1.	Development of Mundra Port	Mundra (Gujarat)	250	19759	<p><b>Phase I of the Project Completed &amp; Operational</b></p> <ol style="list-style-type: none"> <li>1. 810 m Multipurpose Jetty</li> <li>2. 1843 m Container Terminal &amp; T-2</li> <li>3. 1 SBM and other back up facilities</li> </ol> <p><b>Phase-2:</b></p> <ol style="list-style-type: none"> <li>1. 1510 m Coal Terminal, Wand Operational</li> <li>2. 810 m Container Terminal Operational</li> <li>3. Second SBM Operational</li> <li>4. 3 Multipurpose berth Operational</li> <li>5. 650 m Container Terminal Operational</li> <li>6. 650.50 m Container Terminal operational</li> <li>7. One LNG berth is operational.</li> <li>8. Started handling LPG Cargo at Mundra.</li> </ol> <p><b>Phase-3:-</b></p> <p>DPR for development of Phase 3 has been submitted and the same is under consideration.</p>
2.	Development of BGCT under phase I B at Hazira  Development of Phase II assets	Hazira (Gujarat)	35	3500	Completion of construction of the following: Phase I B 1) 2 container berths and 3 general cargo berths 2) breakwater 3) backup facility for handling the cargo. Out of two Multipurpose Berths under Phase II, Construction of One berth of total 182 m quay length has been completed and operational. Assets of 2 <sup>nd</sup> Multi-purpose berth are under construction.
3.	Development of Solid Cargo Port Terminal	Dahej (Gujarat)	20	980	Two solid cargo berths with cranes completed 1) Backup area constructed 2) Conveyor system for berths no. 1 completed as per DPR.
4.	Development of Chhara Port	Chhara (Gujarat)	8	3886	CA signed on 29/1/2015. DPR has been approved and construction is in progress.
5.	Development of LNG Terminal at Chhara Port	Chhara (Gujarat)	5	4239	Construction permission has been granted. Construction is in progress.
6.	LNG Terminal at Jafrabad by SWAN	Jafrabad, (Gujarat)	10	4069	Construction is in Progress.

7.	Captive Finger Jetty by M/s ISGEC at Dahej SEZ	Dahej	0.5	2.00	Construction works of the jetty is Completed & jetty has been declared as landing place.
8.	Private Jetty at Victor by Om Sai Navigations Pvt. Ltd	Jafrabad, (Gujarat)	0.5	39	Construction is in Progress.
9.	Mata Sitadevi Infrastructure & Research Pvt Ltd	Magdalla	0.5	166	Construction is in progress.
10.	Multipurpose jetty terminal at Mankhurd (Dist. Mumbai Suburban) in Vashi creek by M/s Yogayatan Ports Pvt. Ltd.	Trombay	0.2	75.0	<p>Currently, Phase-1 of the jetty project is ready and pre-operational activities are in progress. Cargo operations are expected to commission in the current year 2021. The project has also received EC for expansion.</p> <p>The port capacity will be 0.20 Million tonnes for the 1<sup>st</sup> year which will reach 4.5 MTPA by 20<sup>th</sup> year.</p>
11.	Multipurpose jetty terminal at village Change (Tal. Uran, Dist. Raigad) in Karanja creek by M/s Karanja Terminal & Logistics Pvt. Ltd.	Karanja	3.0	1000.0	<p>400 mtrs. of quay length, out of a total 1000 mtrs., is operational and coastal shipments are being carried out. PP is in a process of completing various formalities like ISPS, NSPC so as to handle EXIM cargo.</p> <p>Current Port capacity is about 3 MTPA. The ultimate capacity of 8.48 MTPA will be achieved by FY-2032.</p>
12.	Expansion of existing captive jetty facilities at village Vave (Tal. Pen, Dist. Raigad) in Dharamtar creek by M/s JSW Dharamtar Port Pvt. Ltd.	JSW Dharamtar	35.0	280.0	Construction of berths and related facilities in progress. Out of proposed 1750 mtrs. of quay length, about 1100 mtrs. is ready. The projected capacity of 35 MTPA will be achieved by FY2022.
13.	Expansion of JSW Jaigad Port in Ratnagiri district by JSW Jaigarh Port Ltd.	JSW Jaigarh	80.0	2800.0	The port facility is currently operational with 06 berths (2 berths in Phase-I and 04 berths in Phase-II). Additional 03 berths (which includes LNG berth and POL) in Phase-II are almost ready. LNG vessel has arrived at the berth in April-2021. The proposal for issuance of notification declaring JSW Jaigarh Port as POL handling Port is under consideration of the Ministry of Shipping. The current capacity of the port is 50 MTPA and expected capacity is 80 MTPA will be achieved by FY 2022.



14.	Construction of Terminal Building.	Panaji Port	N.A.	25.00	Construction work is in Progress
15.	Construction of four Floating Jetties in the river Mandovi & Chapora river.	Panaji Port	N.A.	9.60	One Floating concrete Jetty at Panaji Completed and commissioned, one at old Goa will be completed by the end of April 2021 and other two Jetties expected to completed by the end of the June 2021 and the percentage of work completion is 40% till March 2021.
16.	Proposed to introduce environmental-friendly solar hybrid ferry in the next financial year, Keel laying is completed.	Panaji Port	N.A.	4.00	Timeline for completion of project is by the end of next financial year 2021-22, Keel laying is completed.
17.	Development of Honnavar Port by M/s Honnavar Port Pvt. Ltd. Hyderabad	Honnavar Port	5 MTPA	580.0	All Statutory clearance have been obtained and the construction of jetty is under progress
18.	Captive Port facility M/s. Udangudi Power Corporation Limited.	Udangudi in Thoothukudi, Tamil Nadu	6 MMTPA	125.461	Port has been notified. Construction of Port Structure Commenced.
19.	Phase-II Development of Adani Krishnapatnam Port	Adani Krishnapatnam Port	150.2 MTPA of Non-Container cargo+ 1.1 MTEUS PA of container cargo.	907.0	0.8% work completed.
20.	Karaikal Port - Phase 2 A Development	Karaikal Port	21.5	16.00	Work in progress
21.	Karaikal Port - Phase 2 AE Development	Karaikal Port	6.5	500	Work in progress
22.	<b><u>Joint Venture:</u></b>  Development of Pondicherry Port as a Feeder Port to Chennai Port in association with Chennai Port Trust.	Pondicherry	0.4	44.0	Pondicherry port is being developed under “Sagarmala Scheme” with 100 % funding by Ministry of Ports, Shipping & Waterways, GoI. Presently Capital dredging works are under progress and Cargo handling operations on regular basis to commence soon after dredging works are completed.

23.	Phase II expansion of Dhamra Port	Dhamra Port, Bhadrak	50 MMT per annum	3000.0	Under Execution
24.	Development of LNG Terminal at Dhamra	Dhamra Port, Bhadrak	Nominal 5 MMTP A, Expandable to 10 MMTP A	5500.0	Mn. (Phase I) Under Execution
25.	Dhamra Port Railway doubling works	Dhamra Port, Bhadrak	Approx. length - 62 km	650.0	Under Execution
26.	Expansion, Development and Operation of Gopalpur Port	Gopalpur Port Ltd	20	20.0	1.All Weather Direct Berthing Port declared open for commercial Traffic with effect from 29 <sup>th</sup> March 2013. 2. Port Operational suspended with effect from 12 <sup>th</sup> Oct 2013 due to the effect of very severe cyclone “Phailin” 3. Port Re-commissioned its commercial Traffic with effect from 30 <sup>th</sup> Oct, 2015. 4. Completion of Breakwater, stockyards, materials handling system, development of internal roads and railway siding underway. 5. Three Nos of berth with 800 Mh length, four Nos of Harbour Mobile Crane (HMC) and six Nos of additional railway sidings presently operational in the Port.
27.	SUBARNAREKH A PORT	SUBARN AREKHA PORT	Phase I - 25MTP A	Around Rs.4200 Crs	

Note: - The project status is updated as on 31<sup>st</sup> March 2021.

Source:-State Maritime Boards/State Directorates

## Appendix – IV

### Private Sector/Captive/Joint Venture Port Projects Under Formulation (Non-Major Ports)

Sl. No	Project	State/ Ports Maritime Board	Capacity (Million Tonnes)	Project Cost (Rs. In Crore)	Project Status
1	2	3	4	5	6
1.	Development of LPG Terminal at Chhara Port	Chhara (Gujarat)	2.5	1400	GMB has recommended the proposal for in-principle approval under sub-concession to the Government.
2.	Development of Nargol Port	Valsad (Gujarat)	Bidding Under Process		
3.	Development of CNG and other terminals at North side of Bhavnagar Port	Bhavnagar (Gujarat)	6	1841	Letter of Intent has been issued on 15/09/2020.
4.	GCPTCL Proposed 2nd allied infrastructure	Dahej (Gujarat)	5	2500	DPR is under discussion.
5.	Expansion of Captive Jetty by M/s. Sanghi Cement Ltd.	Jakhau Gujarat	2	150	Environment Clearance is awaited.
6.	Captive Jetty by M/s. Archean Chemical Budh Bunder	Jakhau Gujarat	2	135	Environment Clearance is awaited.
7.	M/s. Sealand port pvt. Ltd (a group company of IL & FS) Coal jetty & Multipurpose jetty under Gujarat SEZ act	Nana Layja, Kutch, Gujarat	17	1000	In Principle is granted by GoG (December 2014) DPR Submitted
8.	M/s Sealand Port Pvt. Ltd (a group company of IL & FS) Coal jetty & Multipurpose jetty under Gujarat SEZ act	Nana Layja, Kutch, Gujarat	3	256	In Principle is granted by GoG (December 2014) DPR Submitted
9.	Captive jetty by M/s. Relinace ports Terminal Ltd. – 6 <sup>th</sup> oil tanker berth at Sikka-A2	Sikka, Gujarat	7	900	Construction Permission granted. Work is in completed.
10.	M/s. Adani Cementation Ltd.	Dhunay, Kutch	5.8	300	Board of GMB has granted in-principle approval for captive jetty as approved by GOG vide Memorandum No: WKS/432017/G/488/GH-1 Dt: 07-01-2019. DPR Prepared & Submitted. Now company applied for EC & CRZ.

Sl. No	Project	State/ Ports Maritime Board	Capacity (Million Tonnes)	Project Cost (Rs. In Crore)	Project Status
1	2	3	4	5	6
11.	M/s. Shree Cement Ltd	Dhunay, Kutch	3	300	GMB has granted in-principle approval to SCL. Vide letter No: GMB/N/PVT-1/1849/434/7443 Dt: 25/10/2019. DPR preparation is in progress.
12.	HPCL (Mittal Pipelines Ltd (HMPL)	Mandvi, Kutch	9	500	GMB has granted in-principle approval vide letter No: GMB/N/PVT-1/1759/327/5775 Dt: 19/08/2019. DPR Prepared & Submitted. Company awaiting for EC & CRZ.
13.	M/s RSPL (Rohit Surfactants Pvt Ltd)	Dev Bhumi Dwarka	3.00	246	Proposal for granting In-Principle approval is under consideration at GoG level.
14.	Construction of captive jetty at village Nandgaon (Tal. Satpati, Dist. Palghar) by JSW Infrastructure Ltd. (JSWIL)	Satpati/ Nawapur	3.0	220.0	Project has received EC on 9.2.2016. However, the project could not take off due to a petition filed in Hon. High Court. The court has dismissed the petition. Now, the project proponent JSWIL has reworked the project to scale down the scope of work and submitted the revised proposal. PP has informed that on account of the current COVID-19 situation and to other extraneous issues, the project would be put on hold till the situation (Business Situation) improves.
15.	Construction of captive jetty at village Korlai (Tal. Murud-Janjira, Dist. Raigad) in Revdanda creek By M/s Indo Energy International Ltd.	Revdanda	11.75	437.0	The project is awaiting environmental clearance. The project proponent has submitted a proposal for change of classification of the project from captive jetty to multipurpose jetty, considering that the power purchase agreement with the Government is not forthcoming. The proposal is being processed for Board approval. However, due to ongoing pandemic situation, the Government has put restriction on conducting meetings as far as possible.
16.	Construction of captive jetty at village Nate (Tal. Rajapur, Dist. Ratnagiri) by M/s Adinath Port & Logistics Pvt. Ltd. (formerly, I-Log Ports Pvt. Ltd.)	Jaitapur	5.0	135.0	PP has reworked the project considering that the power purchase agreement with the Government is not forthcoming. ToR has been received from MoEF. The process of conducting public hearing for obtaining environmental clearance is underway.

Sl. No	Project	State/ Ports Maritime Board	Capacity (Million Tonnes)	Project Cost (Rs. In Crore)	Project Status
1	2	3	4	5	6
17.	Construction of multipurpose jetty at village Aronda-Kiranpani (Tal. Sawantwadi, Dist. Sindhudurg) by M/s White Orchid Estate Pvt. Ltd.	Kiranpani	0.5	28.0	Construction of jetty facilities completed. However, port operations are kept in abeyance due to legal matters pending in the court/ NGT.
18.	Development of Port at Redi (Tal. Vengurla, Dist. Sawantwadi) by Redi Port Ltd.	Redi	5.16	716.0	The project has received EC from MoEF &CC on 6.9.2018. Zero Date of the project has been approved as 4.10.2019 and construction period of 3 years from this date.  Redi Port will have a capacity of 5.16 MTPA in Phase-I which will ultimately reach up to 33.38 MTPA in Phase-V.
19.	Development of Port at Vijaydurg (Tal. Devgad, Dist. Sawantwadi) by Vijaydurg Port Pvt. Ltd.	Vijaydurg	12.94	1059.0	Currently, the Concession Agreement with the earlier project proponent is terminated, due to non-performance. It is now proposed to call for “Expression of Interest (EoI)” to gauge the interest of the developers in the said port project. Based on the response to the EOI, further course of action for inviting tenders will be considered.
20.	Construction of multipurpose jetty at village Targhar (Tal. Parnel, Dist. Raigad) by M/s Shri Sai Baba Sand Dredging Co. Pvt. Ltd.	Ulwa-Belapur	0.3	3.0	Letter of Intent (LoI) has been issued to PP on 23.10.2018. PP is in a process of complying with terms and conditions of LoI including obtaining EC.
21.	Construction of multipurpose jetty at village Targhar (Tal. Parnel, Dist. Raigad) by M/s Famous Dredging Corporation	Ulwa-Belapur	0.2	5.0	Letter of Intent (LoI) has been issued to PP on 23.10.2018. PP is in a process of complying with terms and conditions of LoI including obtaining EC.

Sl. No	Project	State/ Ports Maritime Board	Capacity (Million Tonnes)	Project Cost (Rs. In Crore)	Project Status
1	2	3	4	5	6
22.	Construction of multipurpose jetty in Vasai creek near village Ghodbunder (Tal. Mira-Bhayander, Dist. Thane) by M/s Kailash Construction Company	Vasai	0.2	5.0	Letter of Intent (LoI) has been issued to PP on 4.10.2019. PP is in a process of complying with terms and conditions of LoI, including obtaining EC.
23.	Construction of captive jetty in Bankot creek near village Karivane (Tal. Shrivardhan, Dist. Raigad) by M/s Ashapura Minechem Ltd.	Bankot	1.0	10.0	Letter of Intent (LoI) has been issued to PP on 6.7.2018. PP is in a process of complying with terms and conditions of LoI, including obtaining EC.
24.	Construction of captive jetty in Dharamtar creek near village Shahabaz (Tal. Alibag, Dist. Raigad) by M/s Adani Cementation Ltd.	Dharamtar	1.0	350.0	Letter of Intent (LoI) has been issued to PP on 3.7.2018. PP is in a process of complying with terms and conditions of LoI including obtaining EC. The Maharashtra Coastal Zone Management Authority (MCZMA), in its 149 <sup>th</sup> Meeting held on 4.12.2020 has decided to recommend the proposal to MoEF &CC, New Delhi, subject to strict compliance of certain conditions by PP. The public hearing was scheduled in April-2021, but was required to be called off due to ongoing pandemic situation.
25.	Expansion of existing multipurpose jetty facility in Dharamtar creek near village Shahabaz (Tal. Alibag, Dist. Raigad) by M/s PNP Maritime Services Pvt. Ltd.	Dharamtar	5.0	990.0	PP has obtained EC from MoEF& CC. Pre-construction activities are in progress.

Sl. No	Project	State/ Ports Maritime Board	Capacity (Million Tonnes)	Project Cost (Rs. In Crore)	Project Status
1	2	3	4	5	6
26.	Modernisation of 9 existing Jetties under Sagarmala Programme.	Panaji Port	N.A.	73.04	EIA studies are completed and awaiting clarification from MOUI on Public hearings.
27.	Reconstruction of light house at Campal for navigation.	Panaji Port	N.A.	5.00	PWD architect is preparing drawings and estimates for construction of new light house at Campal.
28.	Development of Maritime School on BOOT Model at Britona.	Panaji Port	N.A.	30.00 .	Request of Proposal, Concession agreement and Tender documents are being prepared by PPP Cell. Completion of Documentation by the end of May 2021
29.	Desilting of River Sal of the 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> Phase of phase II of 18Kms from Telaulim Varca new bridge downstream upto the mouth of river Sal..	Panaji Port	N.A.	46.165	Desilting work under process of 1 <sup>st</sup> Phase.
30.	Dredging at the mouth of River Galgibag and Talpona.	Panaji Port	N.A.	Not yet Estimated	Final report of E.I.A. submitted by NIO.
31.	Panjim Ferry ramp (Beautification & Repairs)	Panaji Port	N.A.	2.40	Work will be completed by the end of October, 50% of the work Completed
32.	Two Conventional ferry boats	Panaji Port	N.A.	1.89	Construction will be commence by May 2021
33.	Development of Deep Water All Weather Greenfield Port near Ankola, Uttar Kannada District, Karnataka-reg.	Belekeri	40	3997.00	M/s JSW Infrastructure Pvt. Ltd. Mumbai has submitted Suo-Moto proposal /Expression of Interest (EOI) for “Development of Deep Water All Weather Greenfield Port near Ankola, Uttar Kannada District, Karnataka: as per Government of Karnataka, Infrastructure Development Department Guidelines of Swiss Challenge Route, and also submitted the detailed Pre-feasibility Report.

Sl. No	Project	State/ Ports Maritime Board	Capacity (Million Tonnes)	Project Cost (Rs. In Crore)	Project Status
1	2	3	4	5	6
					Government has instructed to procure Project Report / Proposal for the Development of said port through PPP Mode. At present the DPR is being prepared by M/s JSW Infrastructure Pvt. Ltd., Mumbai.
34.	Development of Captive Port at Pavinkurva in Honnavar Taluka of Uttara Kannada District.	Pavinkurva	14	1767.00	<p>The DPR has been prepared by M/s. JSW, Mumbai and I-deck has scrutinized and finalized the DPR with the assistance of Indian Ports Association (IPA) and submitted to the Government with the bid documents.</p> <p>The Karnataka Maritime Board has decided to discuss and take a decision on the Development of the said port in PPP mode in next Board Meeting.</p>
35.	Captive port facility by M/s. Coastal Tamil Nadu Power Ltd.	Panaiyur Kancheepuram Tamil Nadu	13 MMTPA	1832.00	Port has been notified. Statutory clearances pending.
36.	Development of Bulk Liquid Berth for handling L.N.G.	Karaikal Port Puducherry	5.0	1948.00	Applied for Environmental Clearance.
37.	Development of All weather Multi-user Greenfield Port at Astaranga, Puri District, Odisha on BOOST terms	Astaranga Port, Odisha	17.7 MTPA	7417.00	<p>a. EC clearance for Phase 1A under progress.</p> <p>b. Land Acquisition under progress.</p> <p>c. Forest Clearance under progress.</p>

Note: - The project status is updated as on 31<sup>st</sup> March 2021.

Source:-State Maritime Boards/State Directorates



Annexure-I													
Commodity-wise Traffic Handled at Major Ports													
(000 Tonnes)													
Port	Period	POL Crude & POL Products *	LPG / LNG	Iron Ore @	Thermal Coal	Coking Coal	Other Coal	Ferti.& FRM (Dry) #	Food grain**	Container	TEUs (in '000 Nos.)	Others	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SPM Kolkata	2017-18	781	0	0	7	172	623	307	236	9760	640	5504	17390
	2018-19	780	0	7	9	985	1935	175	8	9934	652	4718	18551
	2019-20	568	0	32	0	313	1489	753	5	9767	652	4376	17303
	2020-21(P)	306	0	0	0	134	3261	575	173	8268	540	3152	15869
SPM Haldia	2017-18	5651	2490	1576	2181	7319	4456	702	0	2672	156	13454	40501
	2018-19	5277	3462	467	2531	8633	8503	600	0	3140	178	12599	45212
	2019-20	5733	4017	3147	2359	7679	7532	509	0	3032	169	12672	46680
	2020-21(P)	4204	4848	3947	522	7587	8114	553	45	2927	149	12721	45468
Paradip	2017-18	33776	0	12189	29047	12861	311	4449	0	113	7	9282	102028
	2018-19	38098	0	12206	32478	12377	337	4571	0	221	13	9015	109302
	2019-20	37329	0	23124	27003	11996	162	4547	0	222	222	8307	112689
	2020-21(P)	33117	0	28567	24240	13005	0	5411	0	279	16	9928	114549
Visakhapatnam	2017-18	13057	1686	10872	2948	5764	6431	2873	76	6835	389	12995	63537
	2018-19	14861	1460	10897	1851	5727	9582	3111	2	7959	451	9851	65301
	2019-20	16098	1773	14889	821	7552	9749	2958	2	8649	504	10231	72722
	2020-21(P)	13162	1828	19306	695	5444	5857	3033	218	8178	481	12122	69843
Chennai	2017-18	13497	0	0	0	0	0	230	274	29905	1549	7975	51881
	2018-19	13297	0	0	0	0	0	251	57	31263	1620	8144	53012
	2019-20	13420	0	0	0	0	0	431	0	26710	0	6197	46758
	2020-21(P)	10230	0	0	0	0	0	338	62	26768	1387	6152	43550
Kamarajar	2017-18	3021	1439	0	22973	199	0	0	0	52	3	2762	30446
	2018-19	3233	1512	0	23767	1236	0	220	0	1101	57	3429	34498
	2019-20	2993	2081	0	19275	991	0	99	0	2524	131	3783	31746
	2020-21(P)	2421	2203	0	14085	917	239	0	20	3871	201	2133	25889
V.O.Chidambaram ar	2017-18	466	173	0	9795	0	2685	1401	1161	14191	698	6711	36583
	2018-19	459	135	215	8598	0	4640	785	0	14955	739	4555	34342
	2019-20	386	141	0	7251	61	6062	895	70	16436	804	4774	36076
	2020-21(P)	396	58	0	6675	75	4761	1344	0	15023	762	3458	31790
Cochin	2017-18	18664	906	0	44	0	0	223	0	7694	556	1612	29143
	2018-19	21340	575	0	43	0	0	233	0	8116	595	1714	32021
	2019-20	22346	893	0	0	0	0	206	0	8628	620	1965	34038
	2020-21(P)	18642	873	0	0	0	0	256	0	9550	690	2182	31503
New Mangalore	2017-18	22509	2209	4903	2492	4205	0	693	51	1744	115	3253	42059
	2018-19	23637	2209	4624	5061	329	1187	525	0	1920	132	3015	42507
	2019-20	20104	2552	4988	0	10	5133	641	1	2278	153	3438	39145
	2020-21(P)	19109	2783	4729	0	94	3300	851	0	2291	150	3344	36500
Mormugao	2017-18	629	0	10259	1999	8514	0	182	0	425	32	4889	26897
	2018-19	600	0	1653	4208	6066	0	268	0	467	37	4421	17683
	2019-20	658	0	1723	1550	7898	0	52	0	418	32	3718	16017
	2020-21(P)	410	0	7290	1456	7840	0	163	0	307	22	4487	21953
J. L. Nehru	2017-18	4013	632	0	0	0	0	0	0	57866	4833	3493	66004
	2018-19	3999	803	0	0	0	0	0	0	62114	5133	3790	70705
	2019-20	3018	855	0	0	0	0	0	0	60940	5031	3637	68449
	2020-21(P)	2565	1039	0	0	0	0	0	0	57661	4677	3460	64725
Mumbai	2017-18	36745	934	0	2418	0	0	288	0	630	42	21887	62902
	2018-19	36435	863	7266	4695	1710	0	430	0	375	27	8860	60634
	2019-20	37212	910	7028	3691	2569	0	414	0	291	27	8582	60696
	2020-21(P)	33404	1048	7176	3544	969	0	362	0	255	25	6567	53324
Deendayal (Kandla)	2017-18	60452	1193	1371	13241	546	0	3704	598	1839	117	27156	110099
	2018-19	58930	1805	1479	16359	818	0	4245	730	3954	244	27082	115402
	2019-20	61770	0	751	16821	1040	0	4650	328	6967	442	30280	122606
	2020-21(P)	52866	0	375	18622	970	0	5073	2109	8278	510	29268	117561
All Ports	2017-18	213261	11662	41170	87145	39580	14506	15052	2396	133726	9137	120973	679471
	2018-19	220945	12824	38814	99600	37881	26184	15414	797	145519	9877	101193	699170
	2019-20	221634	13222	55681	78771	40109	30127	16154	406	146861	8786	101961	704925
	2020-21(P)	190832	14680	71390	69839	37036	25532	17959	2627	143656	9610	98974	672525
* Includes POL Crude and POL Products only @ includes iron ore fine and pellets only # includes Fertilizer finished and FRM-Dry only ** excludes pulses													
P : Provisional													
Source: Major Ports.													

Commodity-wise Traffic Handled at Non-Major Ports										Annex-II
(000 Tonnes)										
Port	Year	POL *	Iron Ore **	Building Material \$	Coal @	Fertiliser & FRM &	Container	TEUs (in '000 Nos.)	Others	Total
Gujarat	2017-18	188465	11584	10509	65962	5475	66312	0	22462	370769
	2018-19	186734	14019	10536	76772	7194	74985	5675	28956	399197
	2019-20	190701	14996	10208	77974	8152	79235	5936	30525	411791
	2020-21(P)	174657	12430	10665	65415	9706	90878	6353	23821	387572
Maharashtra	2017-18	2528	13378	2125	15481	870	0	0	3523	37906
	2018-19	2655	17653	2329	18750	526	0	0	3874	45786
	2019-20	3779	9547	2409	22253	953	0	0	4720	43661
	2020-21(P)	4526	9450	1784	18988	675	0	0	4355	39779
Andhra Pradesh	2017-18	1449	5949	1731	45262	5106	7793	0	18995	86285
	2018-19	1398	8130	2389	56312	7486	8835	515	18785	103334
	2019-20	1406	5421	1134	55035	6151	9356	552	21401	99904
	2020-21(P)	1359	7662	1018	43515	6787	5799	345	23497	89637
Goa	2017-18	0	72	0	0	0	0	0	0	72
	2018-19	0	0	0	0	0	0	0	15	15
	2019-20	0	2	0	0	0	0	0	6	8
	2020-21(P)	0	5	0	0	0	0	0	31	35
Tamil Nadu	2017-18	424	0	4	0	32	0	0	645	1103
	2018-19	574	0	0	0	109	0	0	277	960
	2019-20	509	0	89	0	44	10133	689	595	11370
	2020-21(P)	533	0	210	0	0	7871	535	521	9134
Karnataka	2017-18	182	0	44	0	36	0	0	418	680
	2018-19	164	0	44	0	49	0	0	788	1044
	2019-20	156	0	33	0	54	0	0	693	935
	2020-21(P)	0	0	19	0	32	0	0	734	785
Puducherry	2017-18	156	696	822	6094	62	1	0	289	8121
	2018-19	0	440	470	6338	350	0	0	772	8370
	2019-20	385	273	364	7862	295	0	0	922	10101
	2020-21(P)	427	54	0	5620	436	0	0	792	7330
Odisha	2017-18	0	4916	29	13860	134	0	0	3656	22595
	2018-19	0	4579	0	12924	510	0	0	4172	22186
	2019-20	0	9729	175	15401	311	0	0	9654	35269
	2020-21(P)	3446	13336	150	16339	548	0	0	9216	43034
Kerala	2017-18	22	0	0	0	0	0	0	116	138
	2018-19	21	0	0	0	0	27	0	174	222
	2019-20	23	0	2	0	0	0	0	131	156
	2020-21(P)	25	0	0	0	0	0	0	88	113
A & N	2017-18	196	0	324	25	0	485	0	388	1418
	2018-19	203	0	329	0	0	619	59	343	1495
	2019-20	199	0	590	0	0	698	65	364	1851
	2020-21(P)	160	0	369	0	0	550	56	354	1432
Total	2017-18	193422	36596	15588	146684	11715	74591	0	50493	529089
	2018-19	191749	44821	16098	171096	16224	84467	6249	58155	582609
	2019-20	197158	39968	15004	178525	15959	99421	7242	69011	615046
	2020-21 (P)	185132	42938	14216	149877	18183	105098	7290	63408	578851
* includes POL crude, POL products, LPG/LNG, Naphtha and Fuel oil.										
@ includes Thermal Coal, Coking coal, Other coal and Pet coal										
\$ includes Building Material and Cement/Clinker										
** includes iron ore fines and Pellets										
& includes Fertilisers, FRM-Liquid, FRM_Dry and Rock Phosphate										
Source: Non Major Ports/State Maritime Boards										

Annexure-III													
Overseas and Coastal-wise and Commodity-wise Traffic Handled at Major Ports													
(000 Tonnes)													
Port	Period	POL Crude & POL Products *	LPG / LNG	Iron Ore @	Thermal Coal	Coking Coal	Other Coal	Ferti.& FRM (Dry) #	Food grain**	Container	TEUs (in '000 Nos.)	Others	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SPM Kolkata	2019-20 (O.)	90		0		313	1264	753	5	9309	660	4217	15951
	2019-20 (C.)	478		32		0	225			458	15	159	1352
	2020-21 (O.)	119	0	0	0	134	3261	575	173	8214	532	2815	15291
	2020-21 (C.)	187	0	0	0	0	0	0	0	54	7	337	578
SMP Haldia	2019-20 (O.)	1373.581	4017	2937.1	0	7462	7416	508.9	0	1842	101.913	11929.419	37486
	2019-20 (C.)	4359	0	210	2359	217	116	0	0	1190	67.41	743	9194
	2020-21 (O.)	864	4848	3947	0	7547	8078	553	45	2104	105	12411	40397
	2020-21 (C.)	3340	0	0	522	40	36	0	0	823	44	310	5071
Paradip	2019-20 (O.)	31607	0	15645	5807	11920	162	4527	0	0	0	7613	77280
	2019-20 (C.)	5722	0	7479	21196	76	0	20	0	222	12	695	35409
	2020-21 (O.)	29536	0	22331	3827	12955	0	5406	0	51	3.271	9697	83803
	2020-21 (C.)	3581	0	6236	20414	50.267	0	5	0	228	12.6	231	30746
Visakhapatnam	2019-20 (O.)	12850.8	1773	4829.065	0	7446	9749	2957.8	2	8257	371	8520.335	56385
	2019-20 (C.)	3247	0	10060	821	106	0	0	0	392	38	1711	16337
	2020-21 (O.)	9103	1828	9098	0	5424	5857	3033	218	7870	440	10929	53360
	2020-21 (C.)	4059	0	10208	695	20	0	0	0	308	41	1193	16483
Chennai	2019-20 (O.)	9876	0	0	0	0	0	431	0	25704	1332	5773	41784
	2019-20 (C.)	3544	0	0	0	0	0	0	0	1006	52	424	4974
	2020-21 (O.)	7116	0	0	0	0	0	338	62	24627	1276	5820	37963
	2020-21 (C.)	3114	0	0	0	0	0	0	0	2141	111	332	5587
Kamarajar	2019-20 (O.)	296	2081	0	8410	991	0	99	0	2524	128	3594	17995
	2019-20 (C.)	2697	0	0	10865	0	0	0	0	0	0	189	13751
	2020-21 (O.)	231	2203	0	5335	917	239	0	20	3864	200	1894	14703
	2020-21 (C.)	2190	0	0	8750	0	0	0	0	7	0	239	11186
V.O.Chidambaram	2019-20 (O.)	319	141	0	2293	61	6062	895	70	12927	633	4603	27371
	2019-20 (C.)	67	0	0	4958	0	0	0	0	3509	171	171	8705
	2020-21 (O.)	341	58	0	441	75	4761	1344	0	10883	550	3233	21136
	2020-21 (C.)	55	0	0	6234	0	0	0	0	4140	212	225	10654
Cochin	2019-20 (O.)	17599	893	0	0	0	0	206	0	3567	294	673	22939
	2019-20 (C.)	4747	0	0	0	0	0	0	0	5061	326	1291	11099
	2020-21 (O.)	14364	873	0	0	0	0	256	0	4057	331	853	20403
	2020-21 (C.)	4278	0	0	0	0	0	0	0	5493	359	1329	11100
New Mangalore	2019-20 (O.)	15183	2552	2494	0	10	5058	641	0	997	71	2172	29108
	2019-20 (C.)	4920	0	2494	0	0	75	0	1	1280	82	1266	10037
	2020-21 (O.)	13810	2783	1900	0	94	3244	851	0	878	61	2269	25830
	2020-21 (C.)	5298	0	2829	0	0	55	0	0	1413	90	1075	10670
Mormugao	2019-20 (O.)	2	0	1723	1550	7842	0	37	0	305	24	2996	14455
	2019-20 (C.)	656	0	0	0	56	0	15	0	113	7	722	1562
	2020-21 (O.)	0	0	7010	1456	7586	0	163	0	226	17	4137	20578
	2020-21 (C.)	410	0	280	0	254	0	0	0	81	5	350	1375
J. L. Nehru	2019-20 (O.)	1008	855	0	0	0	0	0	0	59794	4892	2612	64268
	2019-20 (C.)	2010	0	0	0	0	0	0	0	1146	140	1025	4181
	2020-21 (O.)	333	1039	0	0	0	0	0	0	56058	4500	2590	60020
	2020-21 (C.)	2232	0	0	0	0	0	0	0	1603	177	870	4705
Mumbai	2019-20 (O.)	19658	910	520	3691	1699	0	414	0	8	1	7394	34294
	2019-20 (C.)	17554	0	6507	0	869	0	0	0	283	26	1188	26401
	2020-21 (O.)	19744	1048	220	3466	525	0	362	0	8	1	4210	29582
	2020-21 (C.)	13660	0	6956	78	444	0	0	0	247	24	2357	23742
Deendayal	2019-20 (O.)	52438	0	269	16760	1038	0	4650	328	1036	75	29326	105845
	2019-20 (C.)	9332	0	482	61	2	0	0	0	5931	372	954	16762
	2020-21 (O.)	44681	0	226	18620	970	0	5073	2109	2312	142	28419	102410
	2020-21 (C.)	8185	0	149	2	0	0	0	0	5966	368	849	15151
All Ports	2019-20 (O.)	162301	13222	28418	38511	38783	29711	16119	405	126269	8583	91423	545161
	2019-20 (C.)	59332	0	27264	40260	1326	416	35	1	20592	1309	10538	159764
	2020-21 (O.)	140242	14680	44732	33144	36228	25441	17955	2627	121152	8160	89277	525477
	2020-21 (C.)	50590	0	26658	36695	808	91	5	0	22504	1450	9697	147048

\* Includes POL Crude and POL Products only @ includes iron ore fine and pellets only # includes Fertilizer finished and FRM-Dry only \*\* excludes pulses

P : Provisional

Source: Major Ports.

\* Includes POL Crude and POL Products only @ includes iron ore fine and pellets only # includes Fertilizer finished and FRM-Dry only \*\* excludes pulses

P : Provisional

Source: Major Ports.

Annex-IV										
Commodity-wise and Oversease & Coastal Traffic Handled at Non-Major Ports										
(000 Tonnes)										
Port	Year	POL *	Iron Ore **	Building Material \$	Coal @	Fertiliser & FRM &	Container	TEUs (in '000 Nos.)	Others	Total
Gujarat	2019-20 (O)	170604	1631	2473	77636	8152	78711	5896	25700	364907
	2019-20 (C)	20097	13365	7735	338	0	524	39	4825	46884
	2020-21(O)	159202	1709	3985	65332	9706	89987	6290	18140	348061
	2020-21( C)	15455	10721	6680	83	0	891	63	5681	39511
Maharashtra	2019-20 (O)	3779	1427	388	14194	443	0	0	3120	23350
	2019-20 (C)	0	8121	2021	8059	510	0	0	1601	20311
	2020-21(O)	4526	1331	200	10875	675	0	0	3414	21021
	2020-21( C)	0	8120	1584	8114	0	0	0	940	18758
Andhra Pradesh	2019-20 (O)	1	3623	388	44316	6131	6865	419	20552	81876
	2019-20 (C)	1406	1798	746	10719	20	2491	133	850	18028
	2020-21(O)	0	5301	437	37276	6787	4550	272	23289	77641
	2020-21( C)	1359	2361	582	6239	0	1248	73	208	11996
Goa	2019-20 (O)	0	0	0	0	0	0	0	0	0
	2019-20 (C)	0	2	0	0	0	0	0	6	8
	2020-21(O)	0	0	0	0	0	0	0	0	0
	2020-21( C)	0	5	0	0	0	0	0	31	35
Tamil Nadu	2019-20 (O)	433	0	89	0	44	10073	685	567	11206
	2019-20 (C)	76	0	0	0	0	60	4	28	164
	2020-21(O)	525	0	210	0	0	7572	515	503	8809
	2020-21( C)	8	0	0	0	0	299	20	18	325
Karnataka	2019-20 (O)	0	0	0	0	54	0	0	542	596
	2019-20 (C)	156	0	33	0	0	0	0	151	339
	2020-21(O)	0	0	0	0	32	0	0	595	626
	2020-21( C)	0	0	19	0	0	0	0	139	159
Puducherry	2019-20 (O)	0	0	108	6456	295	0	0	922	7782
	2019-20 (C)	385	273	256	1406	0	0	0	0	2319
	2020-21(O)	7	0	0	4396	436	0	0	565	5404
	2020-21( C)	420	54	0	1225	0	0	0	227	1926
Odisha	2019-20 (O)	0	6884	0	14625	311	0	0	9484	31304
	2019-20 (C)	0	2844	175	776	0	0	0	170	3965
	2020-21(O)	3446	11069	0	16339	548	0	0	8032	39433
	2020-21( C)	0	2267	150	0	0	0	0	1184	3601
Kerala	2019-20 (O)	0	0	0	0	0	0	0	1	1
	2019-20 (C)	23	0	2	0	0	0	0	130	155
	2020-21(O)	0	0	0	0	0	0	0	0	0
	2020-21( C)	25	0	0	0	0	0	0	88	113
A & N	2019-20 (O)	11	0	0	0	0	0	0	45	56
	2019-20 (C)	188	0	590	0	0	698	65	319	1794
	2020-21(O)	12	0	7	0	0	0	0	172	191
	2020-21( C)	147	0	362	0	0	550	56	182	1241
Total	2019-20 (O)	174828	13565	3447	157227	15430	95649	7001	60932	521077
	2019-20 (C)	22330	26403	11557	21297	530	3773	242	8079	93968
	2020-21(O)	167718	19410	4838	134217	18183	102109	7077	54710	501186
	2020-21( C)	17414	23528	9377	15660	0	2988	213	8698	77665
* includes POL crude, POL products, LPG/LNG, Naphtha and Fuel oil.										
@ includes Thermal Coal, Coking coal, Other coal and Pet coal										
\$ includes Building Material and Cement/Clinker										
** includes iron ore fines and Pellets										
& includes Fertilisers, FRM-Liquid, FRM_Dry and Rock Phosphate										
O=Overseas, C=Coastal										
Source: Non Major Ports/State Maritime Boards										

Annexure-V														
Commodity-Wise Capacity Available at Major Ports														
(In Million Tonnes)														
Commodities	KDS	HDC	PPT	VPT	EPL	ChPT	V.O.C.	CoPT	NMPT	MoPT	MbPT	KPT/DPT	JNPT	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
POL														
As on 31.3.17	9.10	18.00	54.50	27.49	4.00	17.67	3.15	30.26	49.17	1.50	44.50	89.02	6.50	354.86
As on 31.3.18														0.00
As on 31.3.19														0.00
As on 31.3.20														
As on 31.3.21														
Iron Ore														
As on 31.3.17		6.00	6.39	12.50	6.00	8.00			7.50	27.50				73.89
As on 31.3.18														0.00
As on 31.3.19														0.00
As on 31.3.20														
As on 31.3.21														
Coal														
As on 31.3.17		10.00	32.00		32.00		26.82		7.67	8.94				117.43
As on 31.3.18														0.00
As on 31.3.19														0.00
As on 31.3.20														
As on 31.3.21														
Fertiliser														
As on 31.3.17			8.00	1.87				1.13				2.00		13.00
As on 31.3.18														0.00
As on 31.3.19														0.00
As on 31.3.20														
As on 31.3.21														
Break-Bulk Cargo														
As on 31.3.17	7.25	31.89	42.55	62.69	5.00	22.92	28.70	12.68	23.29	12.10	20.83	52.04	0.90	322.84
As on 31.3.18														0.00
As on 31.3.19														0.00
As on 31.3.20														
As on 31.3.21														
Container														
As on 31.3.17	9.86	4.00		6.20	10.00	44.85	7.23	12.50				7.20	81.97	183.81
As on 31.3.18														0.00
As on 31.3.19														0.00
As on 31.3.20														
As on 31.3.21														
TOTAL														
As on 31.3.17**	26.21	69.89	143.44	110.75	57.00	93.44	65.90	56.57	87.63	50.04	65.33	150.26	89.37	1065.83
As on 31.3.18	31.57	51.00	239.00	131.09	84.00	134.00	94.83	74.50	98.00	63.00	79.00	253.20	118.00	1451.19
As on 31.3.19	31.57	51.00	239.00	131.09	91.00	134.00	111.46	78.60	98.00	63.40	79.00	267.10	138.87	1514.09
As on 31.3.20	31.57	51.00	249.00	134.18	91.00	135.00	111.46	78.60	104.73	63.40	79.00	267.10	138.87	1534.91
As on 31.3.21	31.57	51.00	249.00	134.18	91.00	135.00	111.46	78.60	104.73	63.40	79.00	267.10	138.87	1534.91
(*) Port capacity re-reted by Ministry based on Berthing Policy as per international norms.														
Figure in the parenthesis indicate the number of berths. BJ Barge jetties, T-Transhippers, A-Anchorage, SBM-Single Buoy Mooring														
@ : Capacity of JNP Container Termnal (3berths), NSICT (2berths), GTIPL (3berths) and shallow water berth (1 no) has been taken as 21.57 MT, 17.40 MT, 31.80 MT and 1.20 MT respectively.														
* After accounting the capacity due to productivity, addition of berth No. 13 & 15,MHC, Floating cranes														
**Port capacity re-rated by Ministry based on berthing policy as per international norms. Major Ports re-rated capacity during 2016-17 was 1359 MTPA (Kolkata-27, Haldia-51, Paradip-234, Vizag-121, Kamarajar-66, Chennai-134, VOC-79, Cochin-74, NMPT-98, MPT-63, MbPT-78, JNPT-88 & DPT-246)														
Source : Development Wing / Port Division M/o of Shipping.														

**Annexure-VI****Capacity of (Non-Major Ports) Maritime Boards/States as on 31st March**

(Million Tonnes)

S.No.	States	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
1	Gujarat	466.00	501.00	523.00	542.00	542.81	544.62
2	Maharashtra	69.80	85.80	100.90	102.40	125.00	125.00
3	Goa	0.43	0.12	0.07	0.02	9.00	9.00
4	Tamil Nadu	0.86	1.17	1.10	2.15	26.15	25.05
5	Kerala	0.02	0.01	0.01	0.55	0.55	1.07
6	Karnataka	0.84	0.71	0.68	17.80	5.00	5.00
7	Andhra Pradesh	154.40	154.40	178.00	178.00	193.40	193.40
8	Odisha	27.50	27.50	34.50	47.50	65.00	70.00
9	Puducherry	14.90	14.90	14.90	16.90	16.96	16.96
10	Andaman & Nicobar Islands	3.00	3.00	3.00	3.00	4.11	4.11
	Total	737.75	788.61	856.16	910.32	987.98	994.21

Source: Non-Major Ports /State Maritime Board