







## Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Jun'21 (in hrs)	Jul'21 (in hrs)	Port	Jun'21 (in hrs)	Jul'21 (in hrs)
JNPCT	32.83	28.16	JNPCT	82.55	66.40
NSICT	19.70	19.22	NSICT	64.02	63.77
GTI	16.63	14.53	GTI	77.47	85.13
NSIGT	22.12	17.07	NSIGT	98.40	94.15
BMCT/PSA	18.08	15.63	BMCT/PSA	74.26	72.68

## Critical Incident Summary

### Jawaharlal Nehru Port Terminals

- Container handling performance has improved in Import Cycle and Export Cycle as compared to last month.
- Container handling performance at CFS has deteriorated and ICD has improved as compared to last month.

Month	Import Cycle - Dwell Time	Export Cycle - Dwell Time	CFS Dwell Time	ICD
Jul'21	17.4 hrs 	78.9 hrs 	87.4 hrs 	124.4 hrs 
Jun'21	20.4 hrs	79.7 hrs	85.5 hrs	128.7 hrs

## Port Dwell Time

IMPORT

Mode	Jun'21 (in hrs)	Jul'21 (in hrs)
Overall	25.9	19.8
Truck	20.8	16.8
Train	68.0	46.4

EXPORT

Mode	Jun'21 (in hrs)	Jul'21 (in hrs)
Overall	98.0	96.7
Truck	95.4	92.0
Train	111.7	127.0

## Container Freight Stations(CFS)/Inland Container depots(ICD) - Dwell Time





Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Jun'21 (in hrs)	Jul'21 (in hrs)
CFS	92.0	89.5
ICD	128.7	124.4

 The marked entries showcase increase in performance in comparison to Jun'21

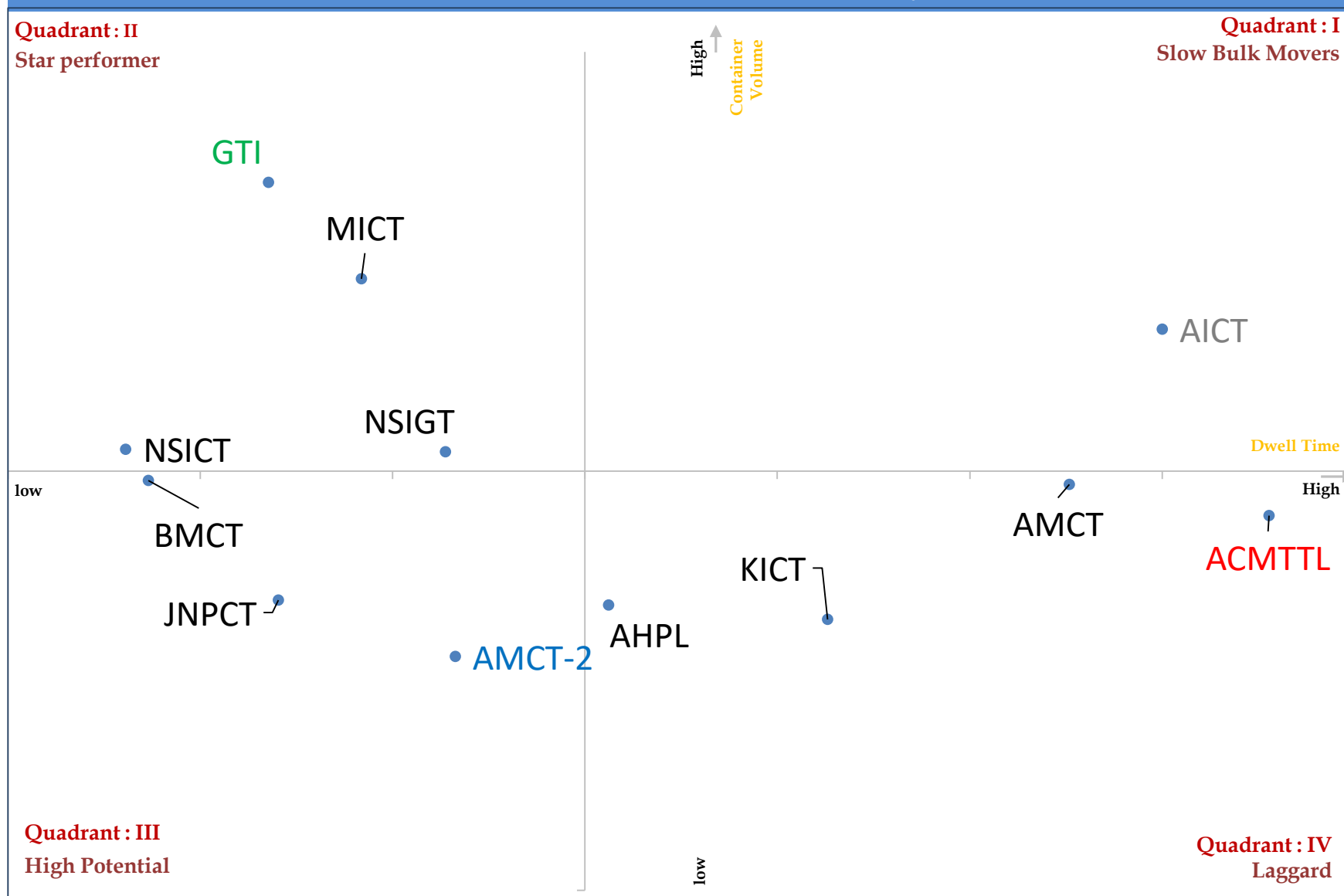
 The marked entries showcase decrease in performance in comparison to Jun'21



## Performance Benchmarking - Port Terminals

The benchmarking showcase the individual terminal's performance w.r.t Western Region

### Port Terminal Performance Index - Jul'21



Performance benchmarking for Port Terminals covered under LDB project for Jul'21

#### Top Performing Terminal

##### Gateway Terminals India (GTI)

Jun'21	Jul'21
43.9 Hrs	39.5 Hrs.

#### Low Performing Terminal

##### Adani CMA Mundra Terminal (ACMTTL)

Jun'21	Jul'21
93.7 Hrs	104.3 Hrs

Note: The performance benchmarking is based on performance index



The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Jun'21

#### Performance Index- Summary

In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume

**Star Performer:** consist of entities which have catered relatively high container volume in lower dwell time

**Slow Bulk Movers :** consist of entities which have catered higher container volume at higher dwell time

**High Potential :** consist of entities which have catered relatively lower container volume in lower dwell time

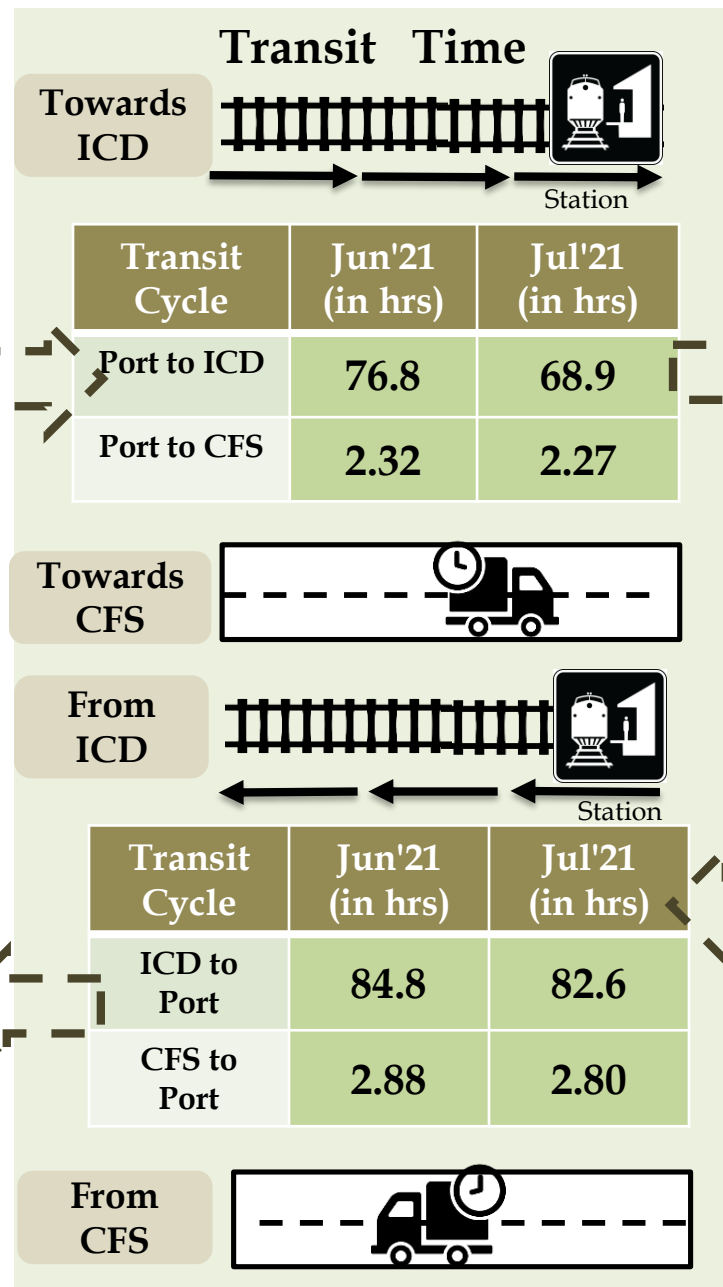
**Laggard :** consist of entities which have catered relatively lower container volume at higher dwell time

## Container Lifecycle (Import Cycle)

Port Dwell Time			
IMPORT	Mode	Jun'21 (in hrs)	Jul'21 (in hrs)
	Overall	20.4	17.4
	Truck	17.45	16.0
	Train	50.9	28.2

EXPORT	Mode	Jun'21 (in hrs)	Jul'21 (in hrs)
	Overall	79.7	78.9
	Truck	80.4	77.7
	Train	75.5	90.3



### Container Freight Station (CFS) / Inland Container Depot (ICD) - Dwell Time

Entity	Jun'21 (in hrs)	Jul'21 (in hrs)
CFS	85.5	87.4
ICD	128.7	124.4

### Volume distribution at port terminal - Truck/Rail

	Truck	Rail
Import	82%	18%
Export	78%	22%

The marked entries showcase the increase in performance as compared to Jun'21

The marked entries showcase the decrease in performance as compared to Jun'21

## Container Lifecycle (Export Cycle)

%IMPORT CYCLE DWELL TIME (Jul'21 - in hrs)			Compared to Jun'21
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	17.4	15% ↑
	Port Dwell Time for Truck Bound Containers	16.0	8% ↑
	Port Dwell time for Train Bound Containers	28.2	45% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	36.7	4% ↓
	Port Dwell time Containers bound for CFS	14.4	13% ↑
	Port Dwell for Empty Containers	24	20% ↑
	Port Dwell for Laden Containers	16	16% ↑
TRANSIT TIME	Port to ICD	68.9	10% ↑
	Port to CFS	2.27	2% ↑

EXPORT CYCLE DWELL TIME (Jul'21- in hrs)			Compared to Jun'21
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	78.9	1% ↑
	Port Dwell Time for Truck Bound Containers	77.7	3% ↑
	Port Dwell time for Train Bound Containers	90.3	20% ↓
	Port Dwell time Direct Port Entry (DPE) containers	81.4	7% ↑
	Port Dwell time Containers bound from CFS	78.4	2% ↑
	Port Dwell for Empty Containers	65.5	10% ↑
	Port Dwell for Laden Containers	81.8	3% ↓
TRANSIT TIME	ICD to Port	82.6	3% ↑
	CFS to Port	2.80	3% ↑

↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to Jun'21

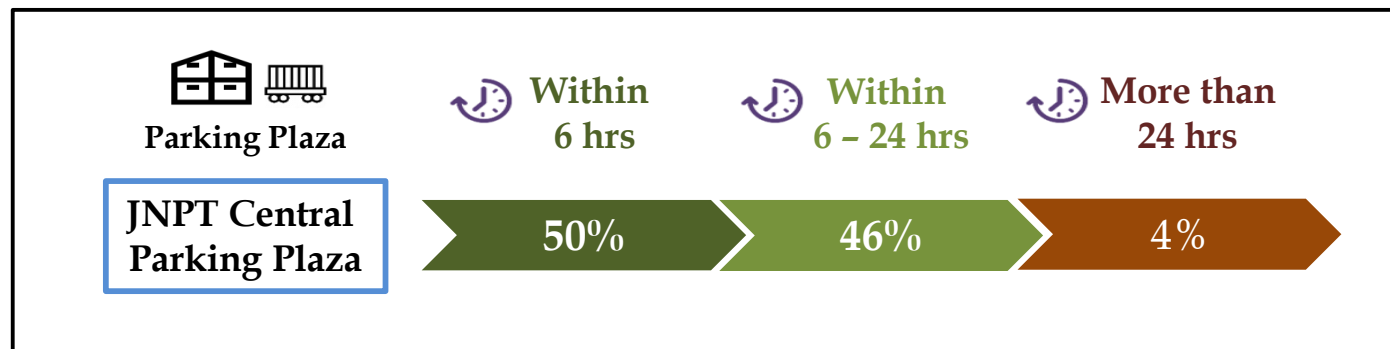
The below table depicts the Parking Plaza & Parking Plaza to Port Transit Performance at JNPT Port Terminals and their volume bifurcation in export cycle



## Parking Plaza Gate In - Gate Out

Mode	Jun'21 (in hrs)	Jul'21 (in hrs)
Overall Parking Plaza	5.6	6.1

## Container Handled: Day wise (Jul'21)

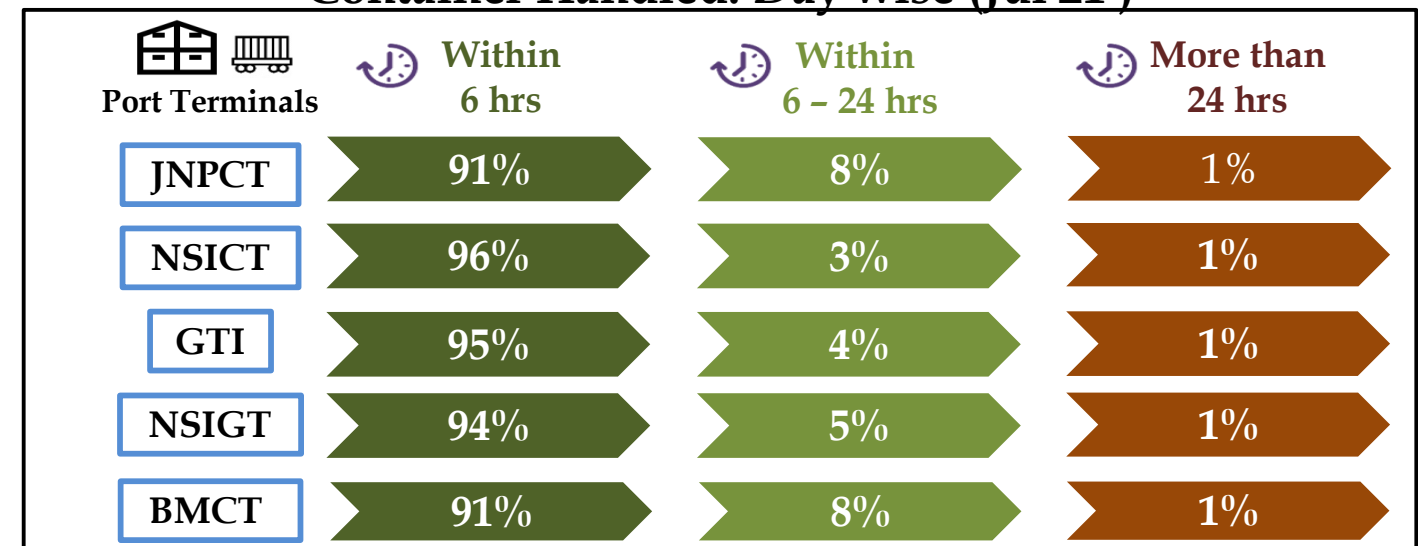


## Parking Plaza Gate Out - Terminal In

Mode	Jun'21 (in hrs)	Jul'21 (in hrs)
Overall Parking Plaza to JNPT Port	1.09	1.19

Port	Jun'21 (in hrs)	Jul'21 (in hrs)
JNPCT	1.3	1.3
NSICT	0.8	0.8
GTI	0.9	0.9
NSIGT	1.0	1.0
BMCT	2.3	2.4

## Container Handled: Day wise (Jul'21)





## Performance Benchmarking



### Top Performing CFS

Adani CFS Eximyard, Mundra	
Jun'21	Jul'21
64.9 hrs	47.7 hrs <span style="color: green;">↑</span>

### Low Performing CFS

A V Joshi CFS	
Jun'21	Jul'21
129.3 hrs.	126.1 hrs <span style="color: green;">↑</span>

Note: The performance benchmarking is based on performance index  
↑ ↓ The arrows depict increase/decrease in overall performance of the stakeholders as compared to Jun'21

### Top Performing ICD

Gateway Rail Freight ICD, Gurgaon	
Jun'21	Jul'21
96.1 hrs	102.9 hrs <span style="color: red;">↓</span>

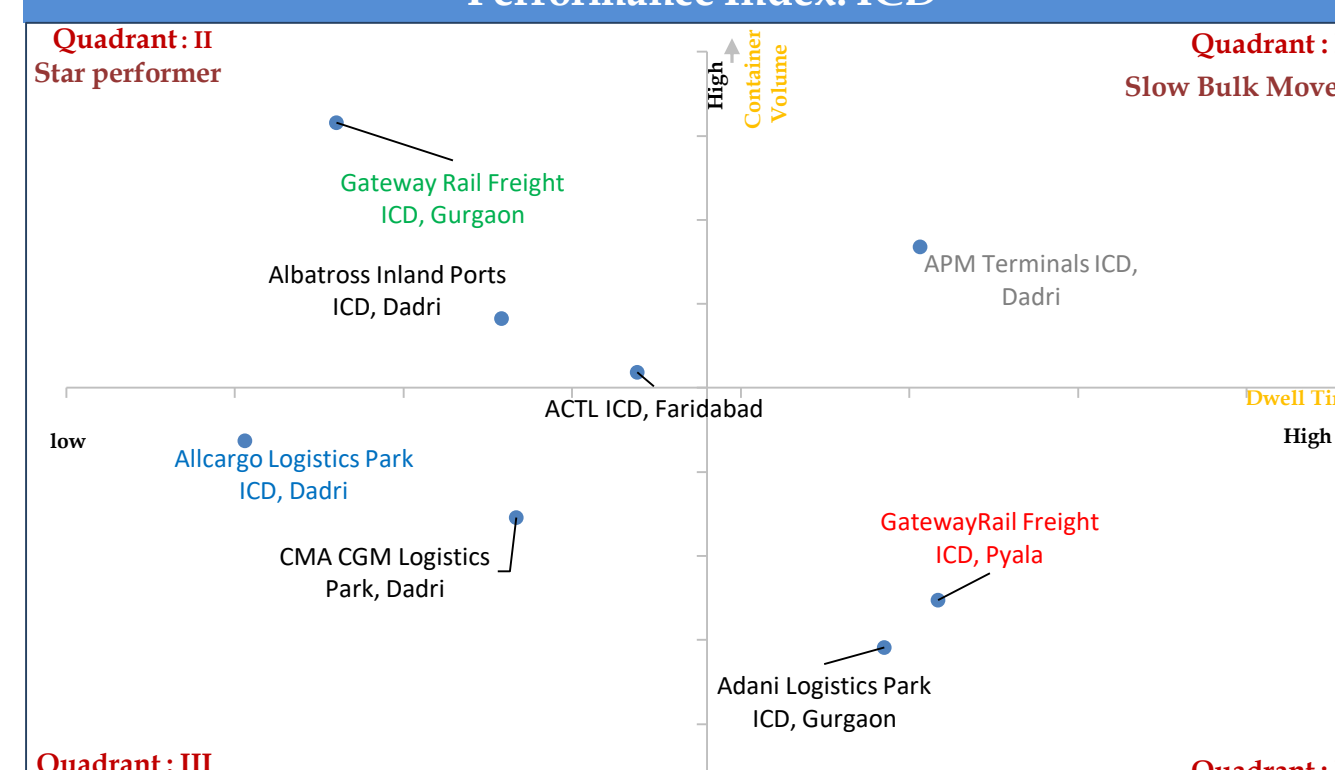
### Low Performing ICD

Gateway Rail Freight ICD, Pyala	
Jun'21	Jul'21
136.8 hrs	143.1 hrs <span style="color: red;">↓</span>

### Performance Index: Western Corridor CFS



### Performance Index: ICD



Kindly refer to Annexure section for the names of CFS



# Import Cycle Analysis

The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in import cycle

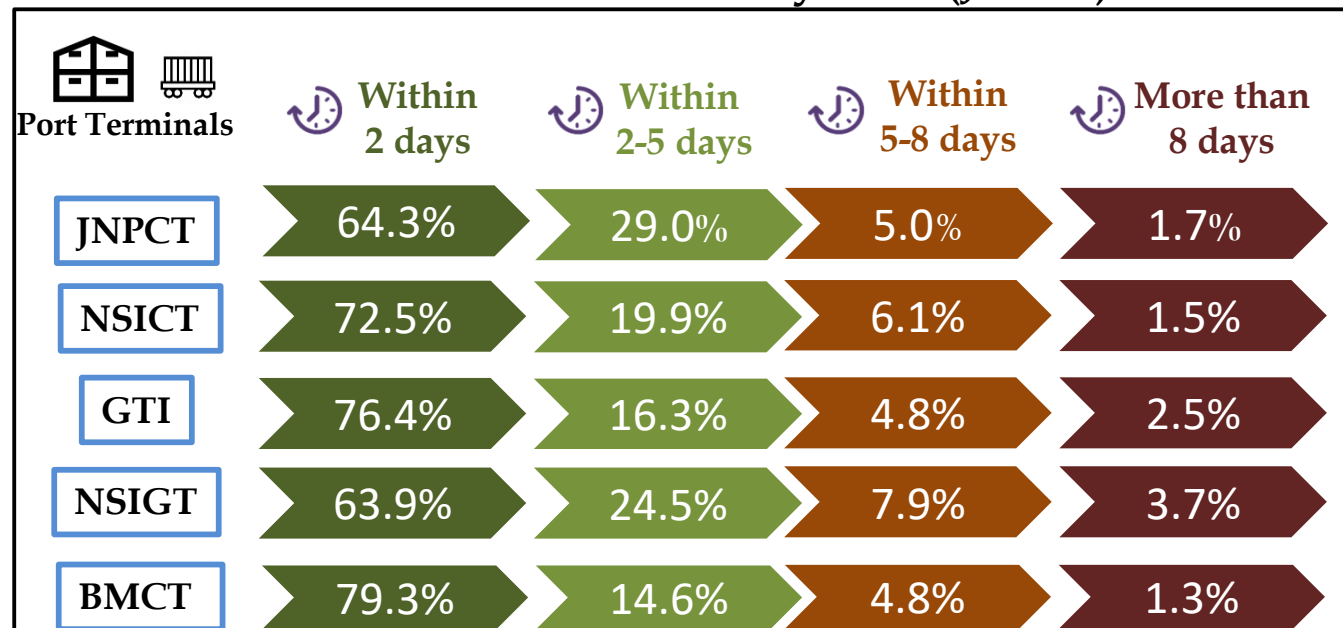
## PORT IMPORT via TRAIN

**(18% of total import volume at JNPT Port)**

The Port Dwell time data for train bound container movement in import cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	Jun'21 (in hrs)	Jul'21 (in hrs)
JNPCT	39.3	35.3
NSICT	59.9	27.2
GTI	50.9	27.6
NSIGT	74.2	37.2
BMCT	31.7	19.7

### Container Handled: Day wise (Jul'21)



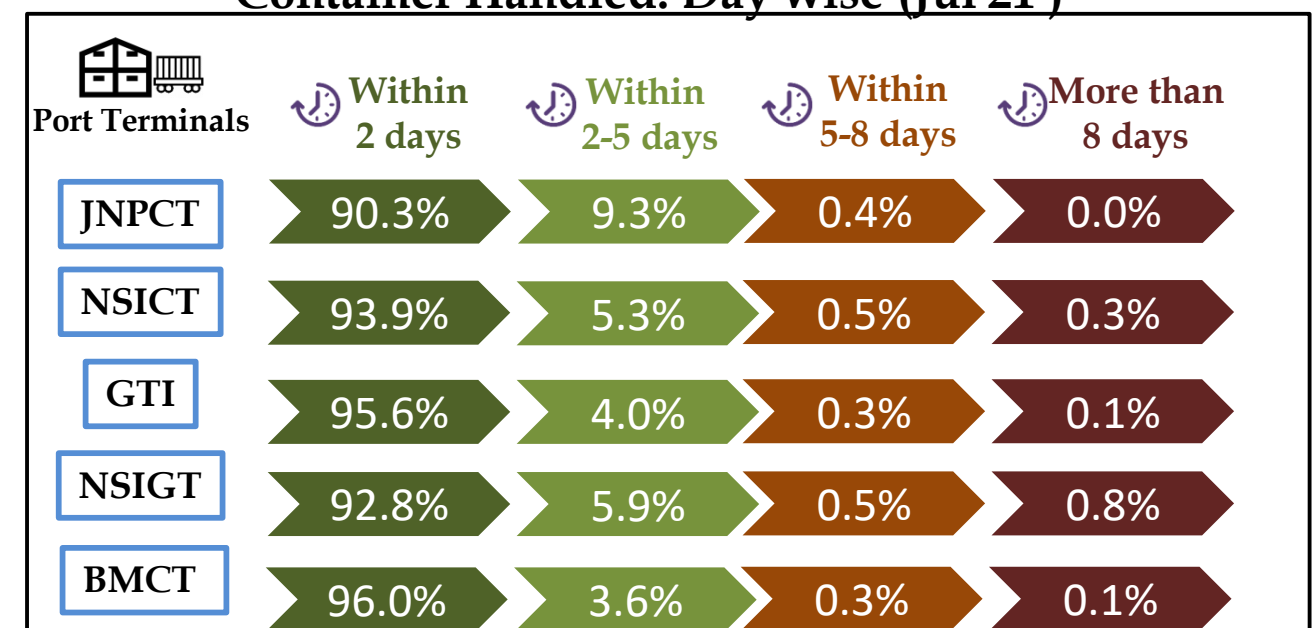
## PORT IMPORT via TRUCK

**(82% of total import volume at JNPT Port)**

The Port Dwell time data for Truck bound container movement in import cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	Jun'21 (in hrs)	Jul'21 (in hrs)
JNPCT	31.9	27.3
NSICT	17.2	18.0
GTI	13.3	12.8
NSIGT	18.1	15.4
BMCT	16.8	15.2

### Container Handled: Day wise (Jul'21)



The below tables depict the detailed JNPT region port performance in the month of Jul'21

<b>JNPCT</b>		
<b>Port Dwell time based on transit type</b>		
<b>Jul'21</b>	<b>Direct Port Delivery containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	37.0 hrs	27.5 hrs
<b>Port Dwell time based on container type</b>		
<b>Jul'21</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	27.7 hrs	30.9 hrs

<b>GTI</b>		
<b>Port Dwell time based on transit type</b>		
<b>Jul'21</b>	<b>Direct Port Delivery containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	33.9 hrs	11.9 hrs
<b>Port Dwell time based on transit type</b>		
<b>Jul'21</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	13.9 hrs	25.5 hrs

# JNPT Port Terminal: Dwell Time Performance (Import Cycle)

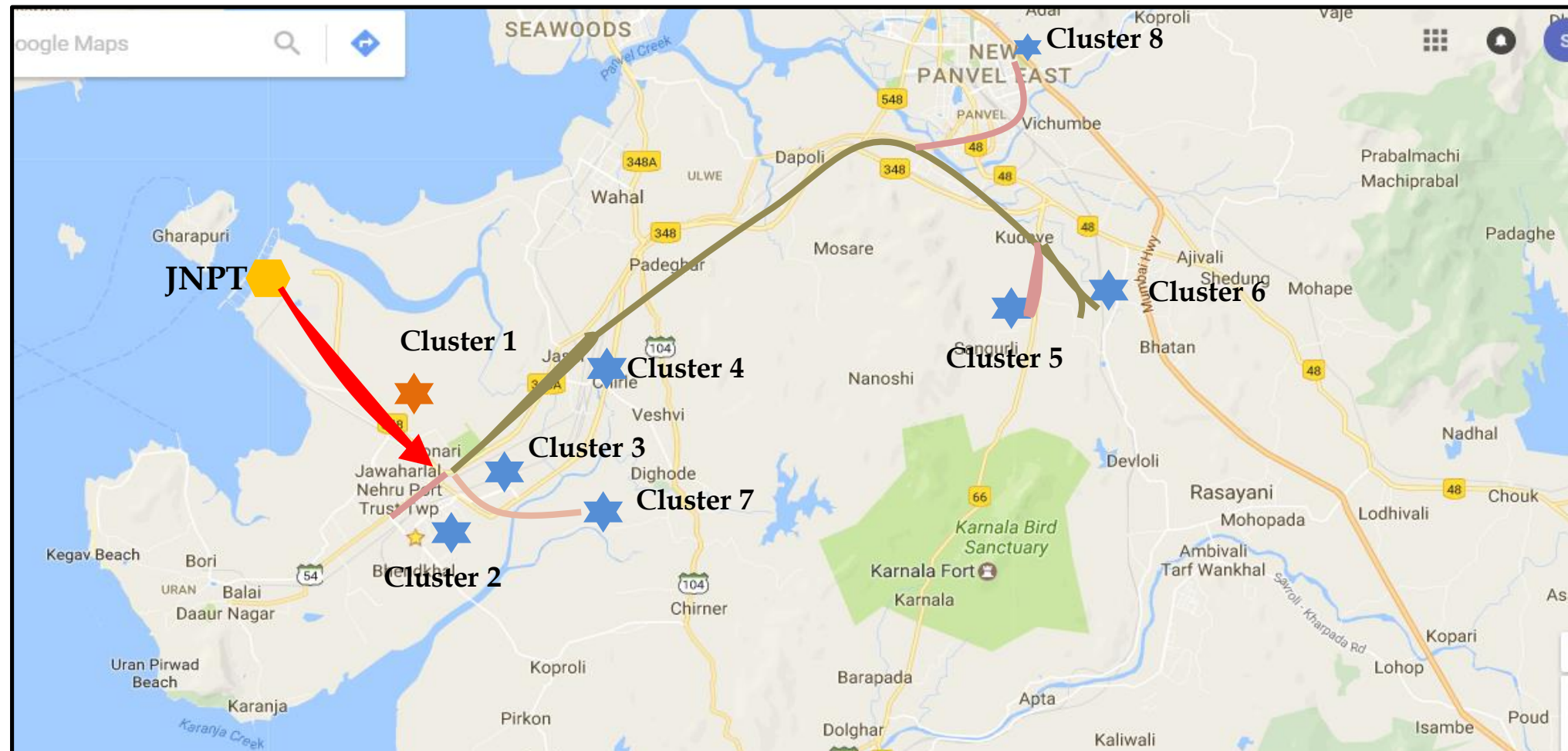
The below tables depict the detailed JNPT region port performance in the month of Jul'21

NSICT		
Port Dwell time based on transit type		
Jul'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	55.9 hrs	15.1 hrs
December		
Jul'21	Laden Containers	Empty Containers
Dwell time (in hrs)	16.9 hrs	23.5 hrs

NSIGT		
Port Dwell time based on transit type		
Jul'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	47.5 hrs	13.9 hrs
Port Dwell time based on container type		
Jul'21	Laden Containers	Empty Containers
Dwell time (in hrs)	15.1 hrs	21.4 hrs

BMCT		
Port Dwell time based on transit type		
Jul'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	28.8 hrs	14.8 hrs
Port Dwell time based on container type		
Jul'21	Laden Containers	Empty Containers
Dwell time (in hrs)	14.6 hrs	25.3 hrs

The Below map indicate congestion around JNPT region in Import Cycle in month of Jul'21



### Clusters with bottleneck

CLUSTER 1 JNPT Area

### Clusters without bottleneck

CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area, JNPT road
CLUSTER 4	Chirle area, JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road
CLUSTER 8	Taloja, Navi Mumbai

**Legends**

- High Congestion
- Medium Congestion
- Low Congestion
- Cluster with bottleneck
- Cluster without bottleneck

**GTI Terminal**

**Congestion Level**  
Import Cycle :-

**JNPCT Terminal**

**Congestion Level**  
Import Cycle :-

**NSICT Terminal**

**Congestion Level**  
Import Cycle :-

**NSIGT Terminal**

**Congestion Level**  
Import Cycle :-

**BMCT Terminal**

**Congestion Level**  
Import Cycle :-

Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals  
2) Analysis consist of CFS covered under LDB project

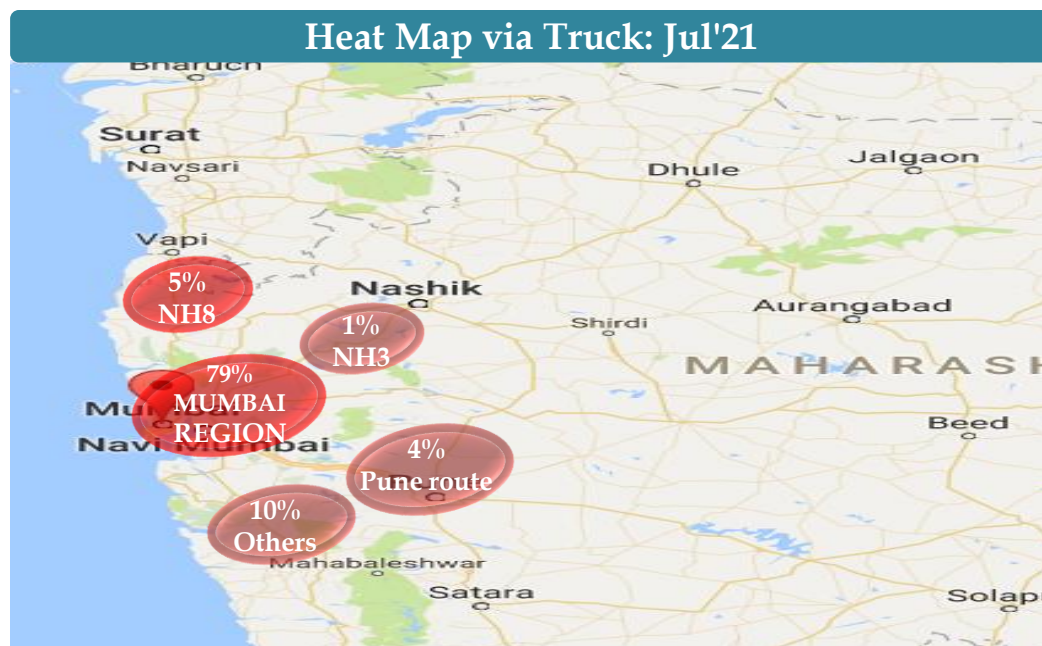
The below table and graphs depict the container movement across JNPT port region in Import cycle

## Truck

### HEAT MAP : OVERALL MUMBAI REGION

Region	Jul'21
Mumbai region	79%
NH3	1%
Pune	4%
NH8	6%
others	10%

The figure depicts the movement of containers via truck in and around Mumbai region.

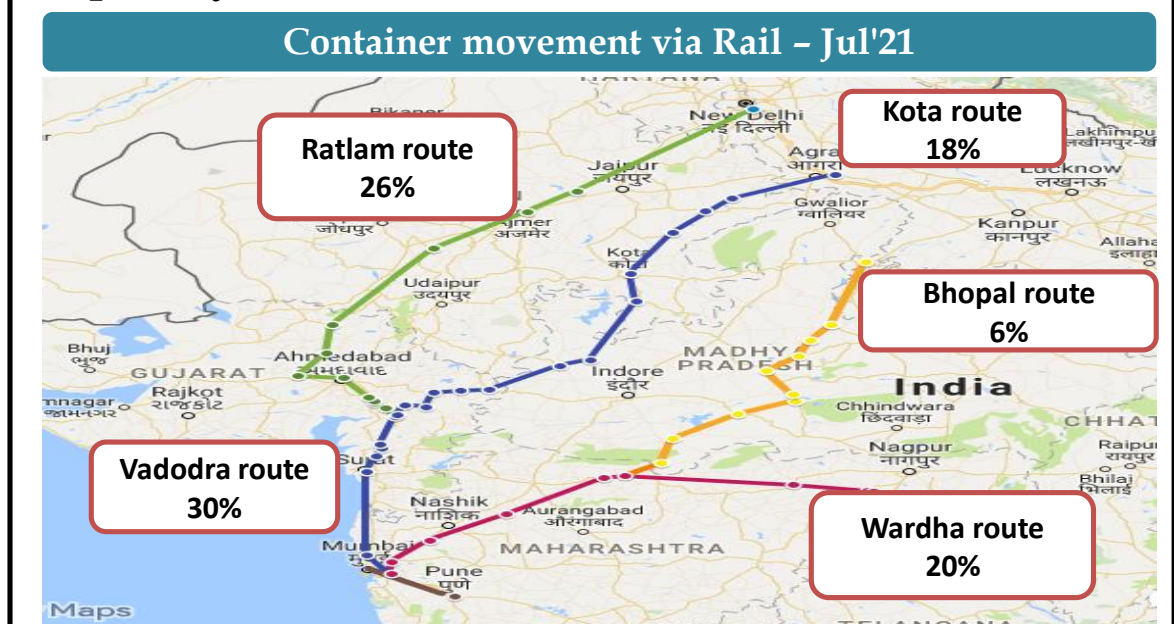


## Train

### VOLUME WISE CONTAINER MOVEMENT

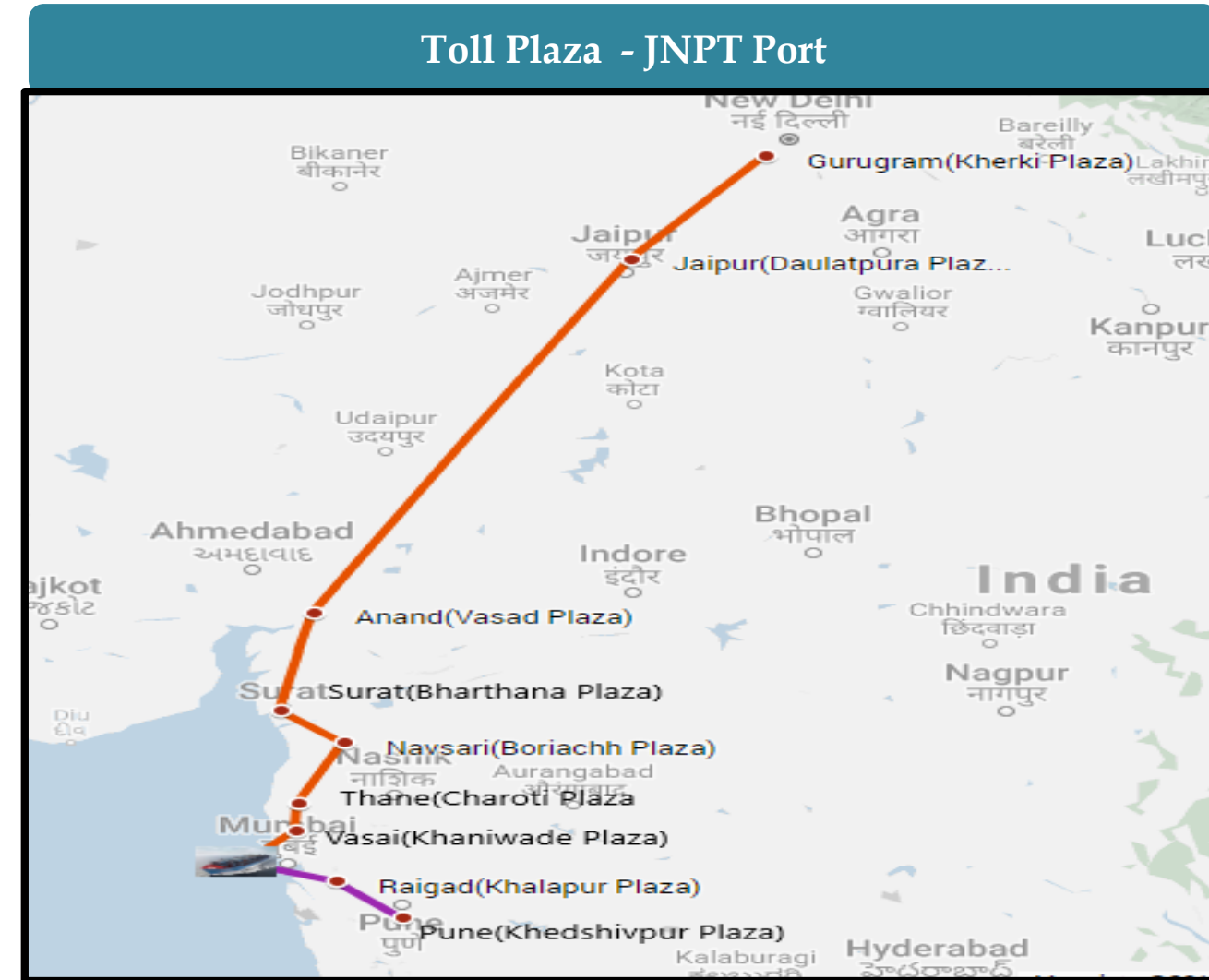
Region	Jul'21
Vadodra Route	30%
Ratlam Route	26%
Wardha Route	20%
Kota Route	18%
Bhopal Route	6%

The map shows the volume wise container movement through different railway routes in import cycle



## Avg. Speed between Toll to Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Jun'21 (in km/hrs)	Jul'21 (in km/hrs)
JNPT	JNPT	Khaniwade	94	13.8	12.6
	JNPT	Khalapur	60	14.5	15.8
	Khaniwade	Charoti	50	35.5	35.2
	Charoti	Boriach	126	27.3	28.2
	Boriach	Bharthan	142	33.2	31.9
	Bharthan	Vasad	60	34.4	36.8
	Khalalpur	Khedshivpur	105	36.1	37.0



# Export Cycle Analysis



# JNPT Region: Dwell Time Performance (Export Cycle)

The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in export cycle

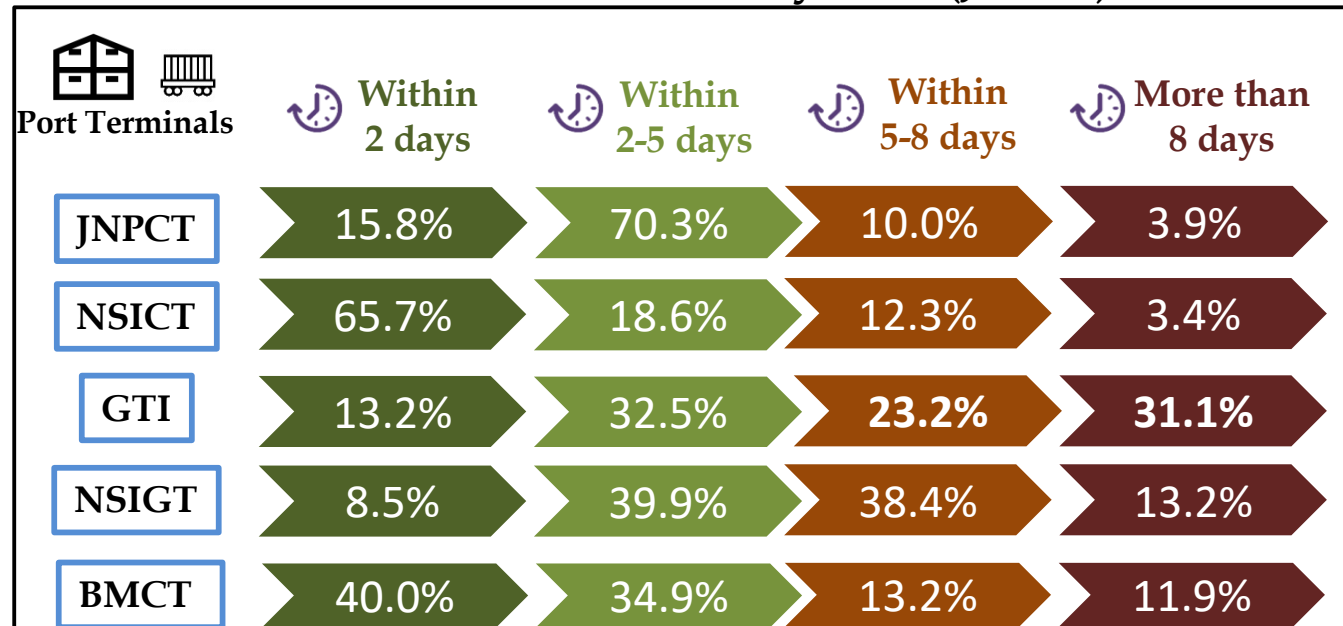
## PORT EXPORT via TRAIN

**(22% of total export volume at JNPT Port)**

The Port Dwell time data for train bound container movement in export cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	Jun'21 (in hrs)	Jul'21 (in hrs)
JNPCT	87.5	83.5
NSICT	27.2	14.2
GTI	87.1	130.7
NSIGT	114.8	122.9
BMCT	67.0	69.5

### Container Handled: Day wise (Jul'21 )



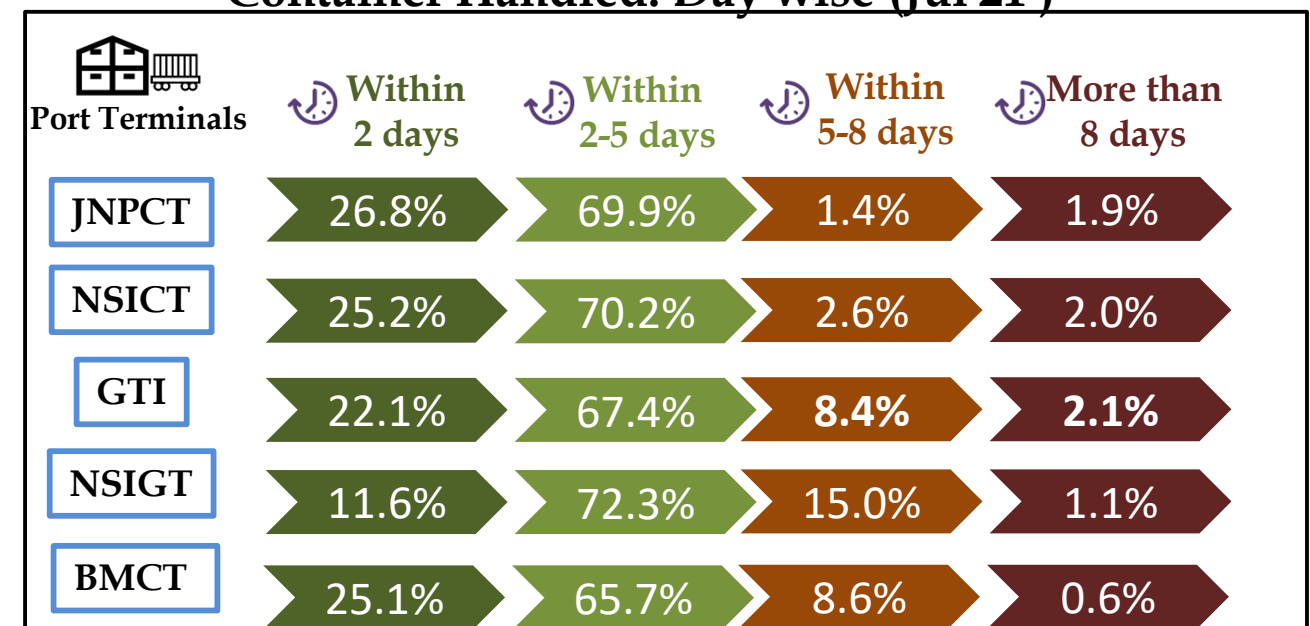
## PORT EXPORT via TRUCK

**(78% of total export volume at JNPT Port)**

The Port Dwell time data for Truck bound container movement in export cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	Jun'21 (in hrs)	Jul'21 (in hrs)
JNPCT	82.5	66.0
NSICT	71.9	72.2
GTI	75.9	79.1
NSIGT	96.4	91.4
BMCT	75.9	73.0

### Container Handled: Day wise (Jul'21 )



The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Jul'21

<b>JNPCT</b>		
<b>Port Dwell time based on transit type</b>		
<b>Jul'21</b>	<b>Direct Port Exports containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	63.0 hrs	66.7 hrs
<b>Port Dwell time based on container type</b>		
<b>Jul'21</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	64.1 hrs	64.3 hrs

<b>GTI</b>		
<b>Port Dwell time based on transit type</b>		
<b>Jul'21</b>	<b>Direct Port Exports containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	77.8 hrs	79.8 hrs
<b>Port Dwell time based on container type</b>		
<b>Jul'21</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	83.7 hrs	73.0 hrs

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Jul'21

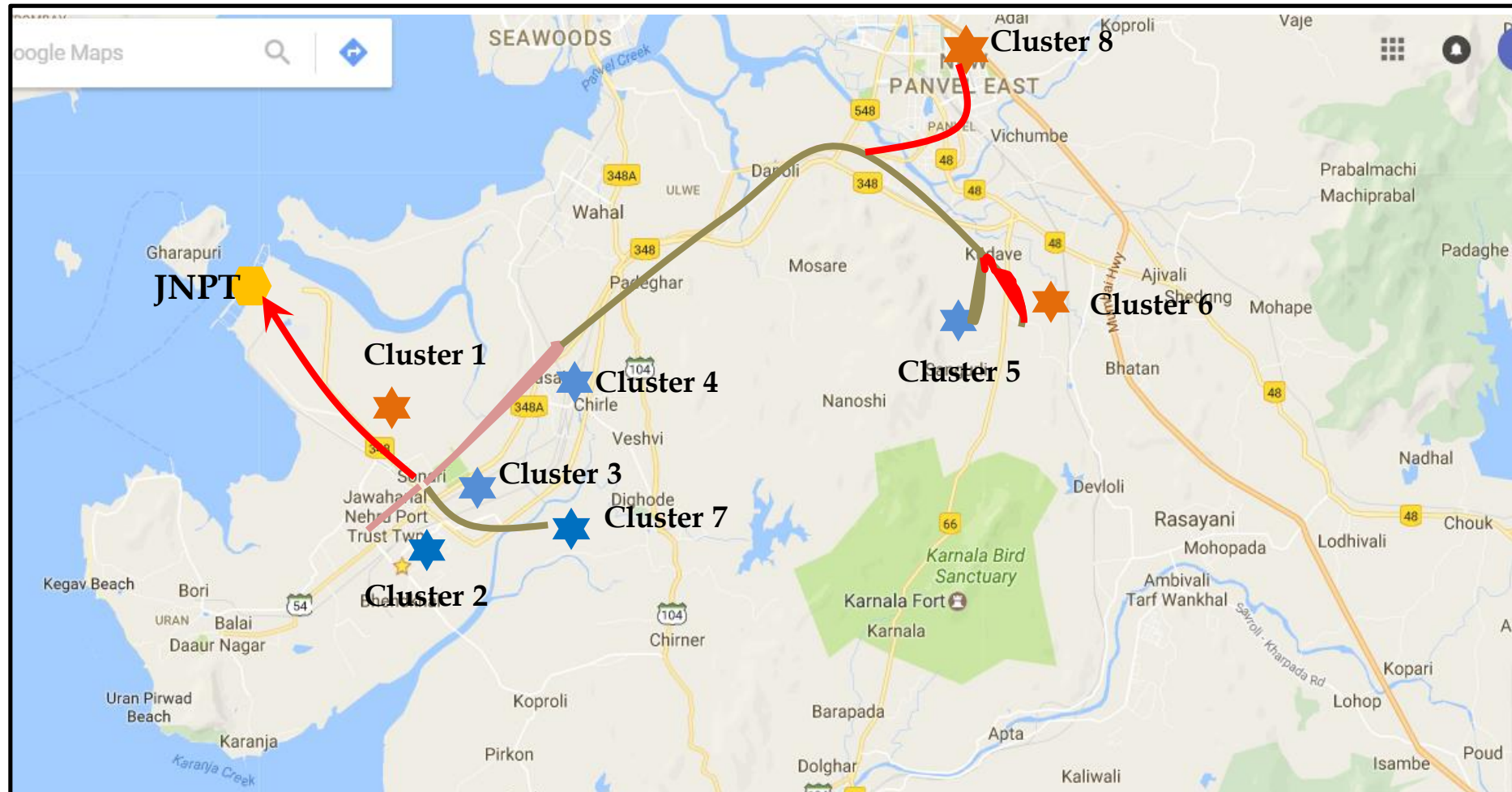
NSICT		
Port Dwell time based on transit type		
Jul'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.7 hrs	71.8 hrs
Port Dwell time based on container type		
Jul'21	Laden Containers	Empty Containers
Dwell time (in hrs)	73.2 hrs	42.6 hrs

NSIGT		
Port Dwell time based on transit type		
Jul'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	94.1 hrs	87.6 hrs
Port Dwell time based on container type		
Jul'21	Laden Containers	Empty Containers
Dwell time (in hrs)	93.7 hrs	75.3 hrs

BMCT		
Port Dwell time based on transit type		
Jul'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	77.6 hrs
Port Dwell time based on container type		
Jul'21	Laden Containers	Empty Containers
Dwell time (in hrs)	79.6 hrs	66.2 hrs

# JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of Jul'21



Clusters with bottleneck	
CLUSTER 1	JNPT Area
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 8	Taloja, Navi Mumbai
Clusters without bottleneck	
CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area, JNPT road
CLUSTER 4	Chirle area, JNPT road
CLUSTER 5	Plaspa area, Coach Kanyakumari Highway
CLUSTER 7	Patilpada area, Khopate JNPT road

**Legends**

- High Congestion (Red line)
- Medium Congestion (Brown line)
- Low Congestion (Pink line)
- Cluster with bottleneck (Orange star)
- Cluster without bottleneck (Blue star)

**GTI Terminal**

**Congestion Level**

Export Cycle :- [Red line]

**JNPCT Terminal**

**Congestion Level**

Export Cycle :- [Red line]

**NSICT Terminal**

**Congestion Level**

Export Cycle :- [Red line]

**NSIGT Terminal**

**Congestion Level**

Export Cycle :- [Red line]

**BMCT Terminal**

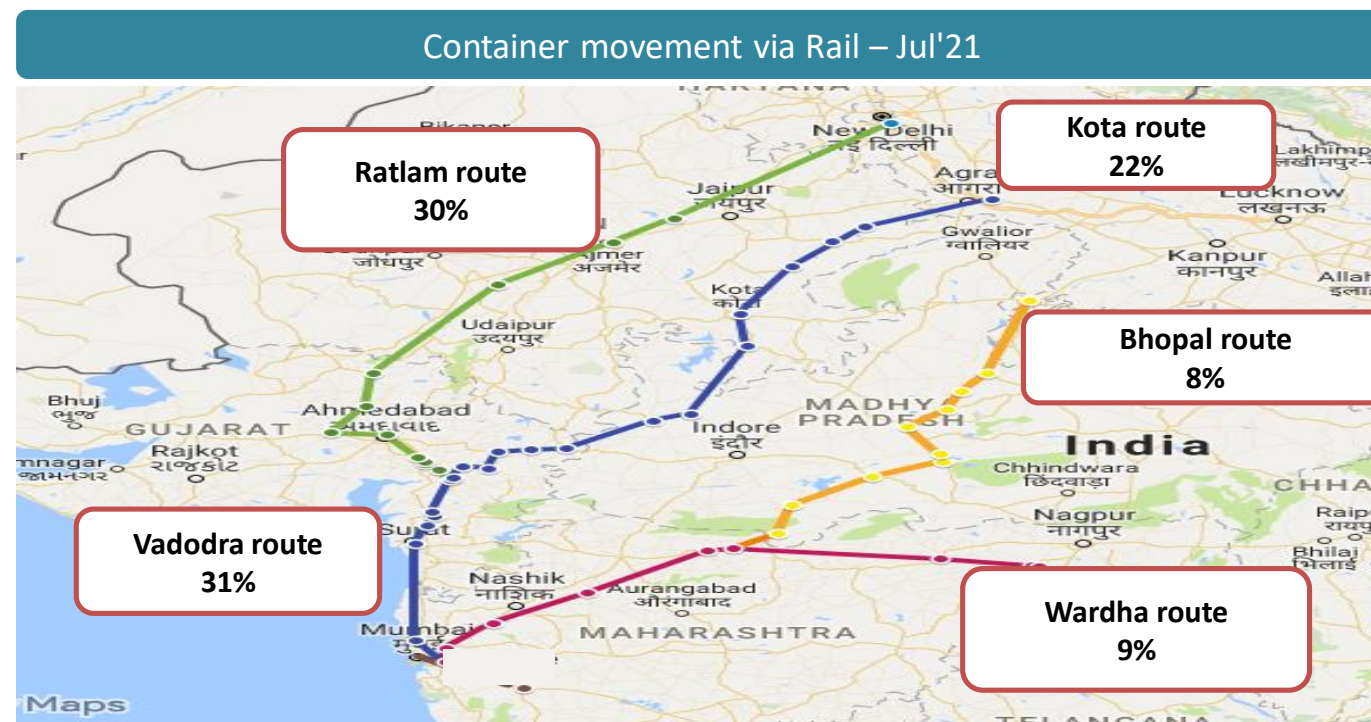
**Congestion Level**

Export Cycle :- [Brown line]

Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals  
 2) Analysis consist of CFS covered under LDB project

JNPT Port	
Route	Percentage of Container Movement
Vadodra Route	31%
Ratlam Route	30%
Wardha Route	9%
Kota Route	22%
Bhopal Route	8%

The map shows the volume wise container movement through different railway routes in export cycle for Jul'21



# CFS and ICD Performance

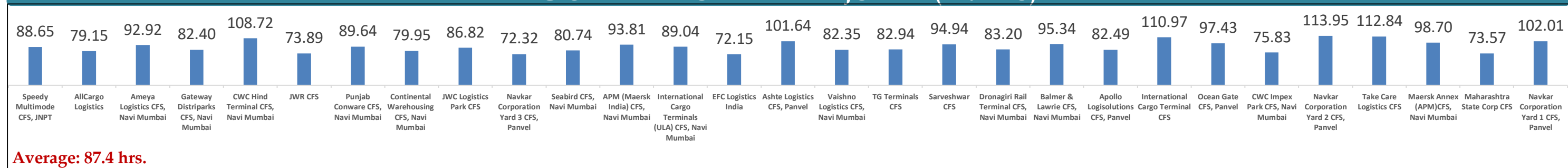
## JNPT region CFS : CFS DWELL TIME ANALYSIS

Below table and graphs show the dwell time of the respective CFSs for the month of Jul'21

**CFS Dwell Time (in hrs.)**

CFS	Jun'21 (in hrs)	Jul'21 (in hrs)	CFS	Jun'21 (in hrs)	Jul'21 (in hrs)
Speedy Multimode CFS, JNPT	86.83	88.65	Vaishno Logistics CFS, Navi Mumbai	92.90	82.35
AllCargo Logistics	83.32	79.15	TG Terminals CFS	79.98	82.94
Ameya Logistics CFS, Navi Mumbai	89.08	92.92	Sarveshwar CFS	86.18	94.94
Gateway Distriparks CFS, Navi Mumbai	79.05	82.40	Dronagiri Rail Terminal CFS, Navi Mumbai	80.46	83.20
CWC Hind Terminal CFS, Navi Mumbai	98.44	108.72	Balmer & Lawrie CFS, Navi Mumbai	88.67	95.34
JWR CFS	71.46	73.89	Apollo Logisolutions CFS, Panvel	97.58	82.49
Punjab Conware CFS, Navi Mumbai	84.32	89.64	International Cargo Terminal CFS	85.76	110.97
Continental Warehousing CFS, Navi Mumbai	72.50	79.95	Ocean Gate CFS, Panvel	77.42	97.43
JWC Logistics Park CFS	86.68	86.82	CWC Impex Park CFS, Navi Mumbai	77.71	75.83
Navkar Corporation Yard 3 CFS, Panvel	77.93	72.32	Navkar Corporation Yard 2 CFS, Panvel	98.22	113.95
Seabird CFS, Navi Mumbai	87.00	80.74	Take Care Logistics CFS	124.74	112.84
APM (Maersk India) CFS, Navi Mumbai	95.67	93.81	Maersk Annex (APM)CFS, Navi Mumbai	90.09	98.70
International Cargo Terminals (ULA) CFS, Navi Mumbai	81.07	89.04	Maharashtra State Corp CFS	78.25	73.57
EFC Logistics India	71.63	72.15	Navkar Corporation Yard 1 CFS, Panvel	86.29	102.01
Ashte Logistics CFS, Panvel	88.70	101.64			

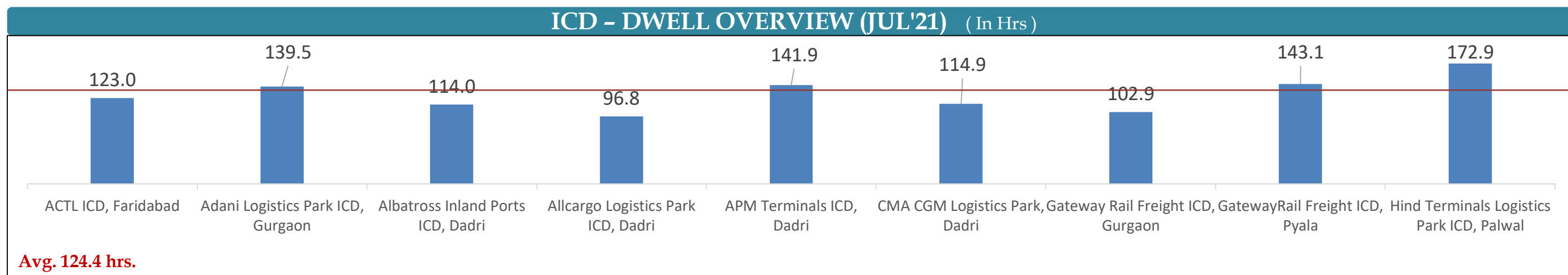
**CFS - DWELL OVERVIEW - JUL'21 ( IN HRS)**



## ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Jun'21 (in hrs)	Jul'21 (in hrs)
ACTL ICD, Faridabad	146.4	123.0
Adani Logistics Park ICD, Gurgaon	116.2	139.5
Albatross Inland Ports ICD, Dadri	118.6	114.0
Allcargo Logistics Park ICD, Dadri	113.4	96.8
APM Terminals ICD, Dadri	135.1	141.9
CMA CGM Logistics Park, Dadri	117.3	114.9
Gateway Rail Freight ICD, Gurgaon	96.1	102.9
GatewayRail Freight ICD, Pyala	136.8	143.1
Hind Terminals Logistics Park ICD, Palwal	132.7	172.9



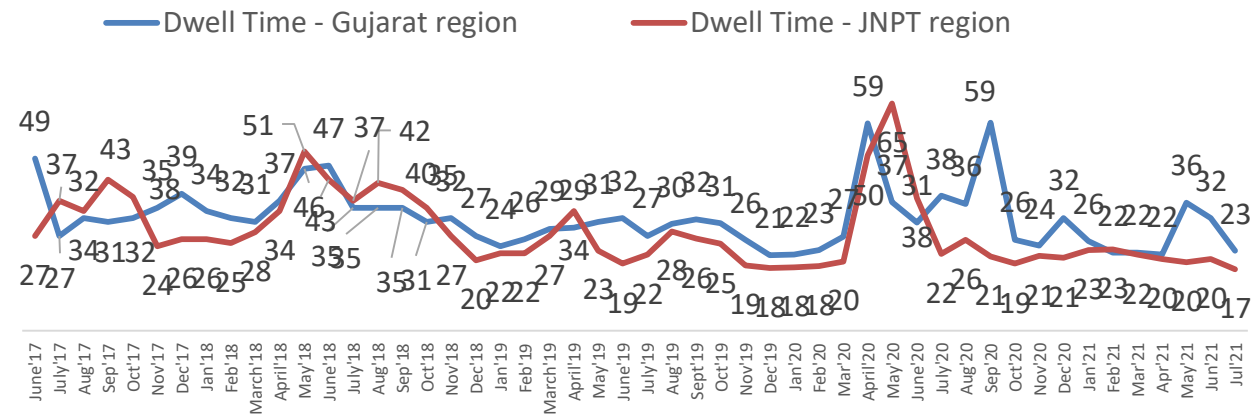


# Trend Analysis

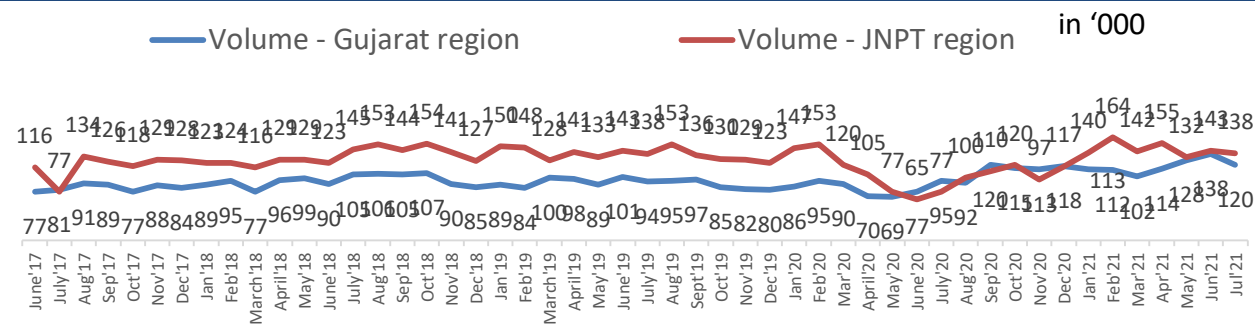
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Jul'21

## Import Cycle

### Dwell Time – Gujarat Region Vs JNPT Region



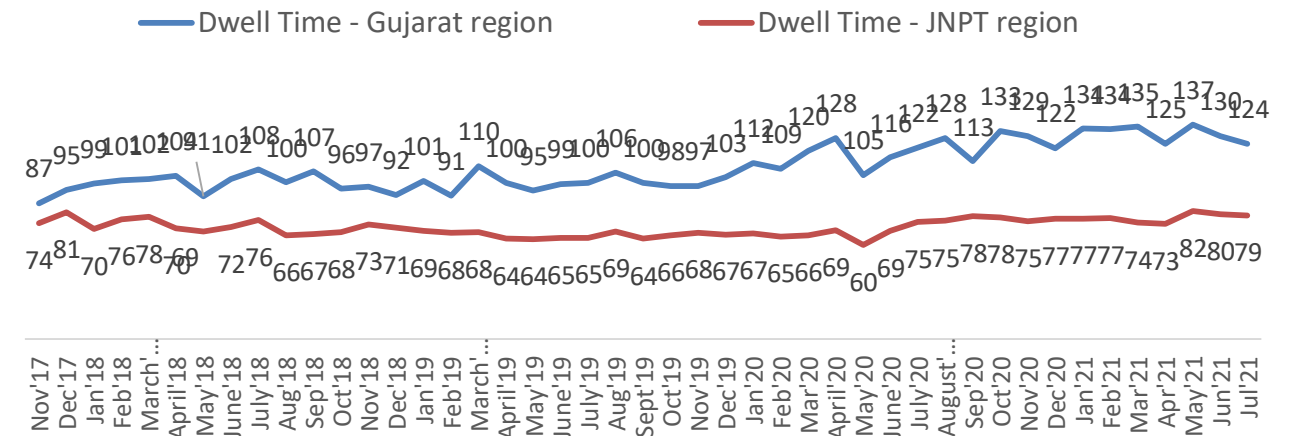
### Volume – Gujarat Region Vs JNPT Region



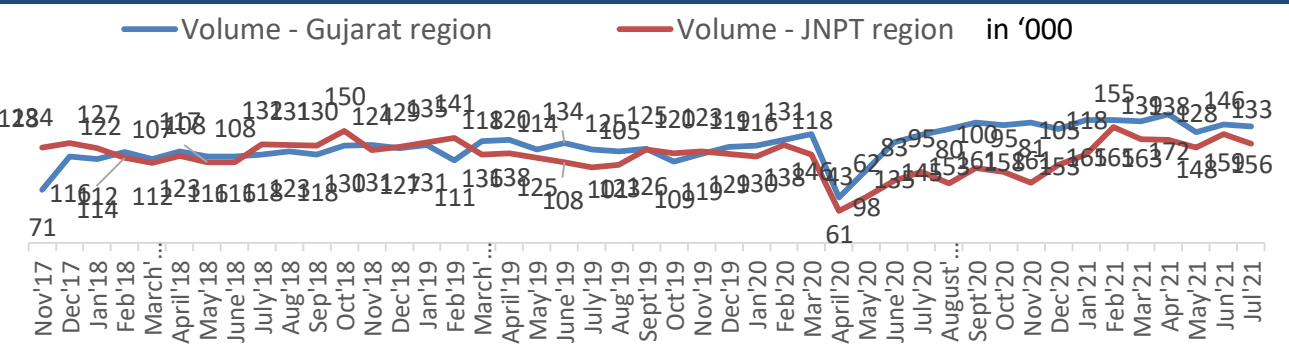
In Import cycle, for the month of Jul'21 APSEZ port has catered 15% less volume than JNPT Port, and has maintained 23% higher dwell time than JNPT Port.

## Export Cycle

### Dwell Time – Gujarat Region Vs JNPT Region



### Volume – Gujarat Region Vs JNPT Region

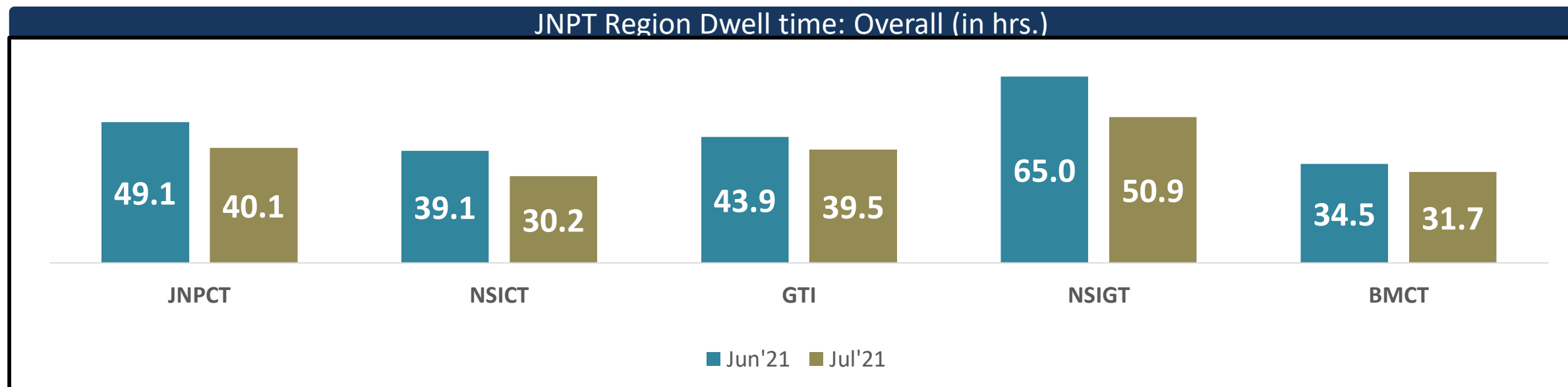


In Export cycle, for the month Jul'21 JNPT port catered 15% less volume than APSEZ Port, and has maintained 37% lower dwell time than APSEZ Port

# JNPT PORT DWELL TIME TREND: Month on Month

## JNPT port dwell time trend :

The below table shows the overall port dwell time (i.e. import and export cycle combined) trend (Month of Month) of all the JNPT Port terminals. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

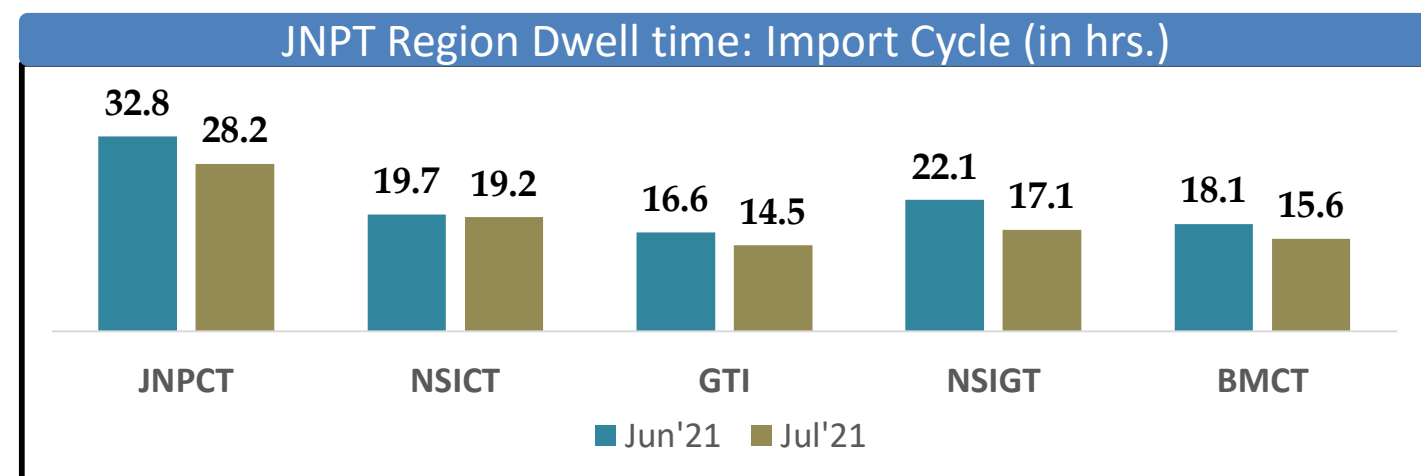


The overall JNPT region average dwell time for Jul'21 is 37.8 hrs as compared to 45.8 hrs in Jun'21

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of Jul'21

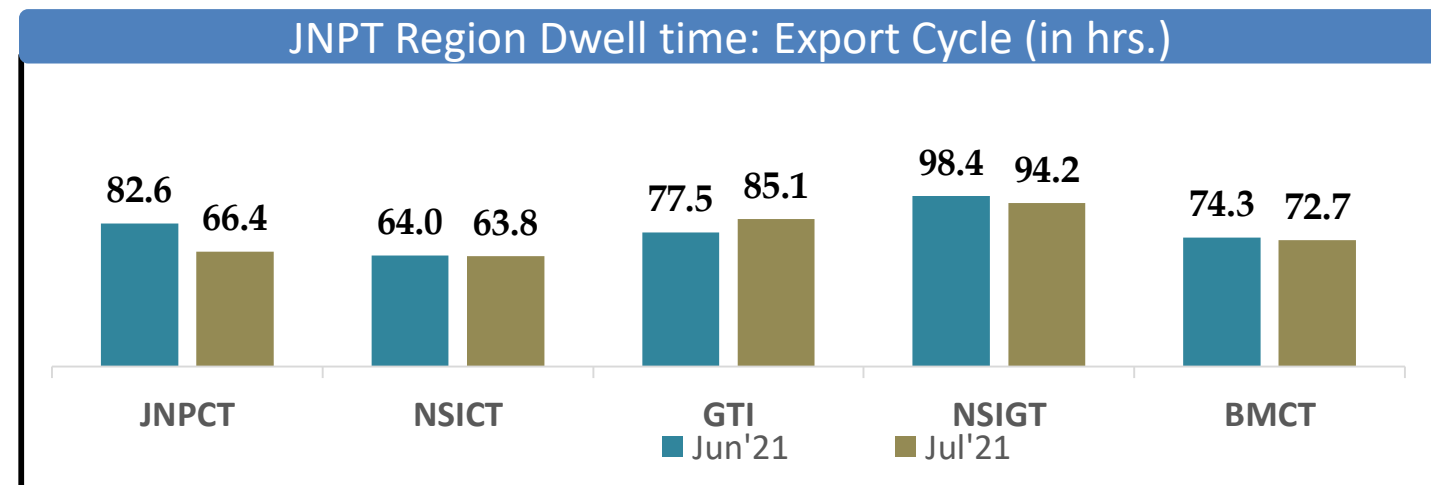
### JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Jul'21 is 17.4 hrs.



### JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Jul'21 is 78.9 hrs.

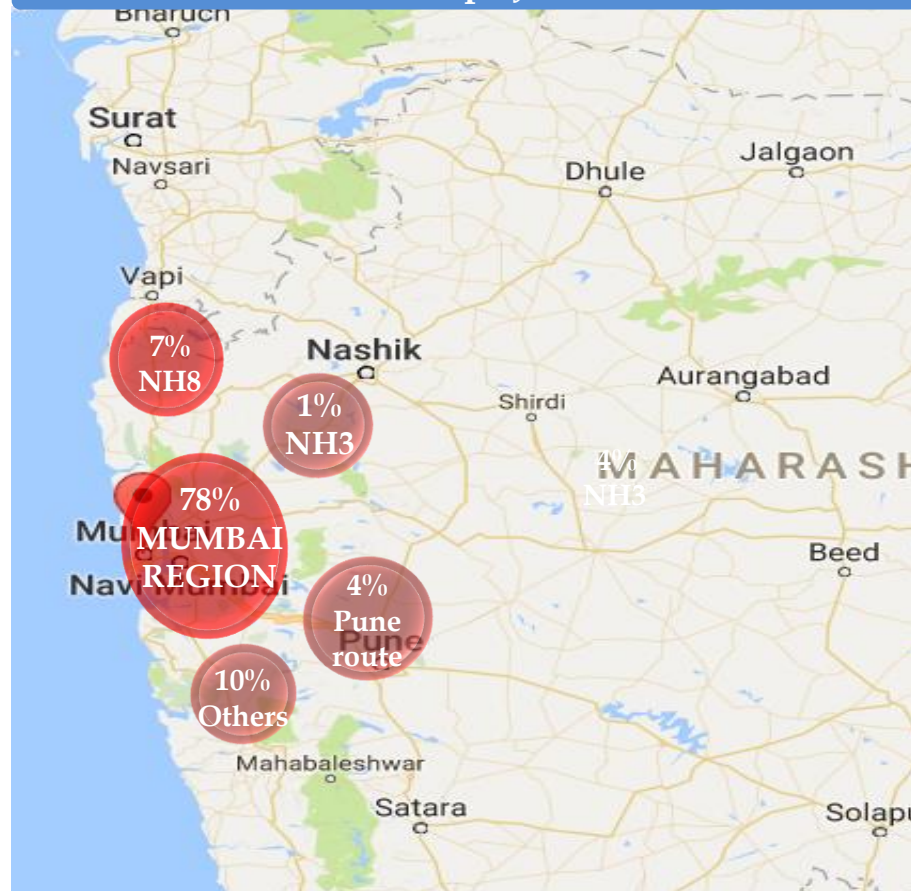


# ANNEXURE

# Container movement around JNPT Port terminal region via Truck

## HEAT MAP : GTI Port Terminal

Heat Map : Jul'21

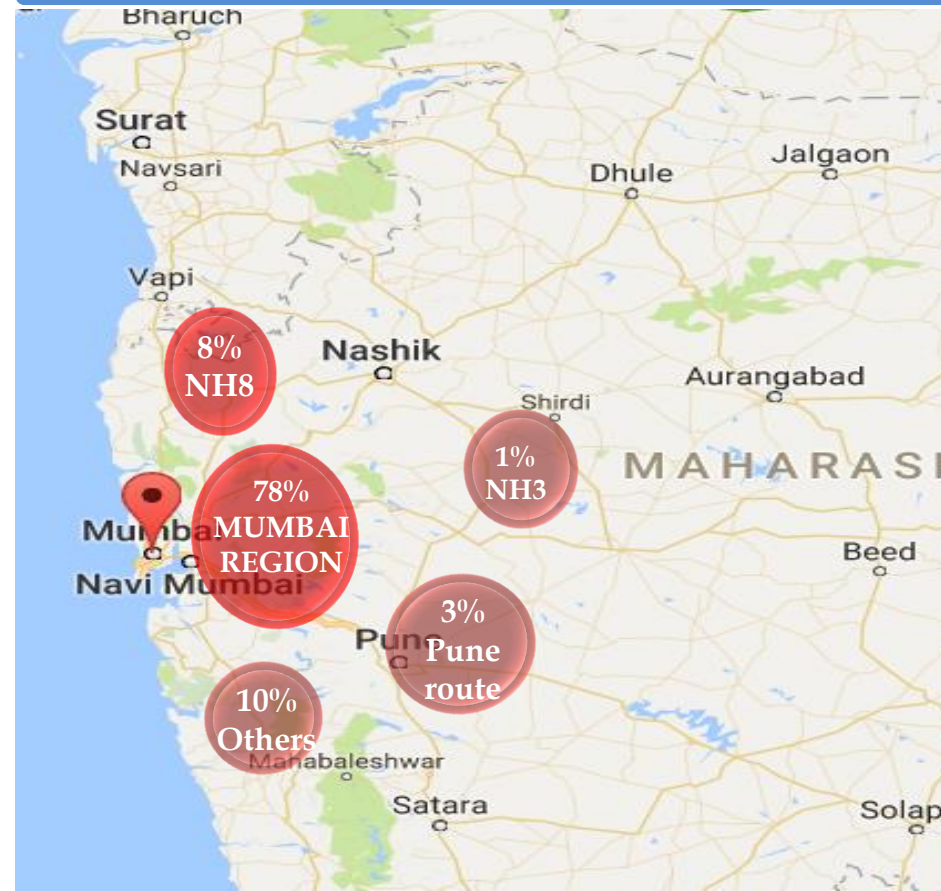


Region	Jun'21	Jul'21
Mumbai region	63%	78%
NH3	1%	1%
Pune	9%	4%
NH8	17%	7%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.

## HEAT MAP : JNPCT Port Terminal

Heat Map : Jul'21

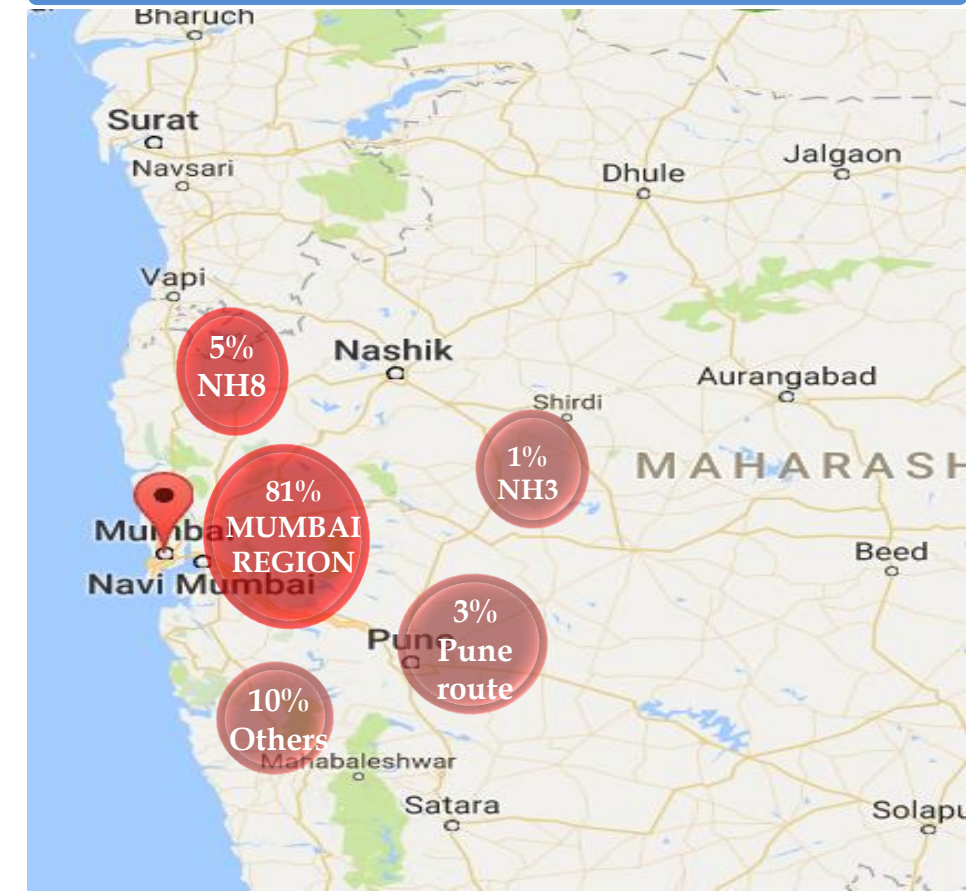


Region	Jun'21	Jul'21
Mumbai region	77%	78%
NH3	1%	1%
Pune	3%	3%
NH8	9%	8%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.

## HEAT MAP : NSICT Port Terminal

Heat Map : Jul'21



Region	Jun'21	Jul'21
Mumbai region	77%	81%
NH3	1%	1%
Pune	4%	3%
NH8	8%	5%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.

# Container movement around JNPT Port terminal region via Truck

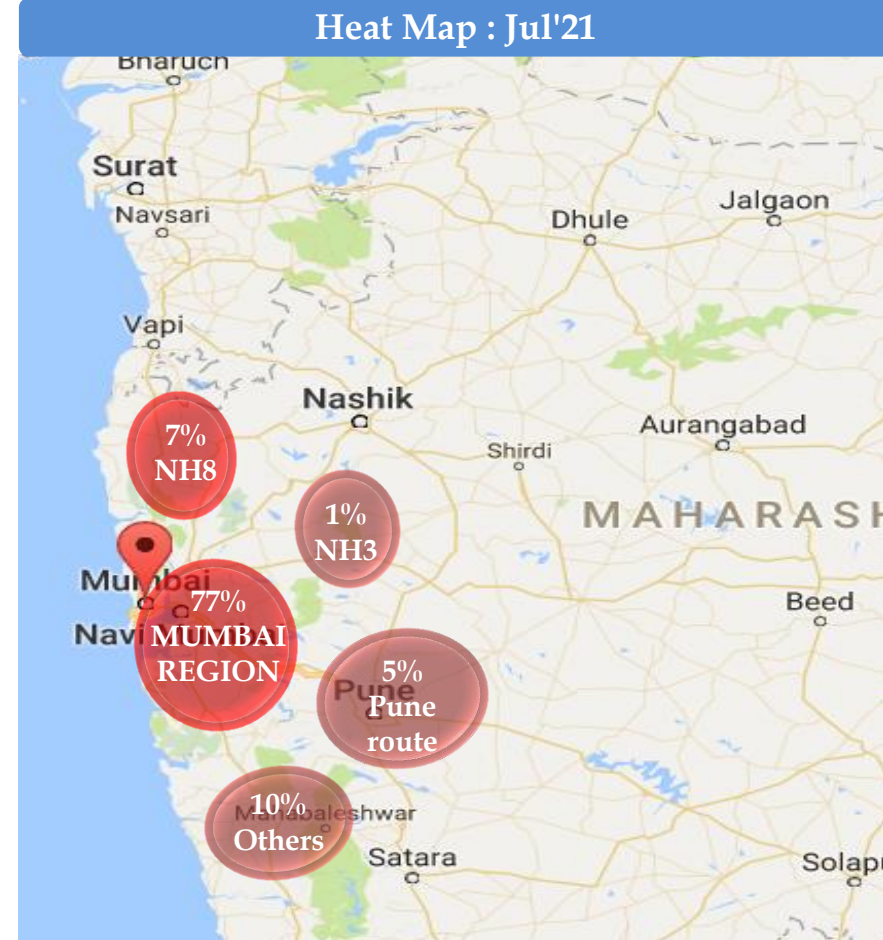
## HEAT MAP : NSIGT Port Terminal



Region	Jun'21	Jul'21
Mumbai region	76%	80%
NH3	1%	1%
Pune	4%	4%
NH8	9%	5%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.

## HEAT MAP : BMCT Port Terminal



Region	Jun'21	Jul'21
Mumbai region	81%	77%
NH3	1%	1%
Pune	3%	5%
NH8	5%	7%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.

# CFS - AVERAGE DELIVERY TIME – all CFS in Mumbai TO JNPT Port

Below table shows the delivery time in export cycle from the CFS's to PORT terminals

For Jul'21					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.0	2.3	1.5	1.9	2.7
Punjab Conware CFS, Navi Mumbai	1.9	2.1	1.8	2.1	2.3
JWC Logistics Park CFS	2.4	3.2	2.5	3.9	4.8
CWC Hind Terminal CFS, Navi Mumbai	1.5	2.1	1.6	2.1	3.4
Dronogiri Rail Terminal CFS, Navi Mumbai	2.2	1.7	2.6	2.6	3.7
Navkar Corporation Yard 2 CFS, Panvel	4.5	7.2	6.8	5.7	8.5
Vaishno Logistics CFS, Navi Mumbai	3.2	2.9	2.5	2.5	3.1
Speedy Multimode CFS, JNPT	1.9	2.5	2.1	2.4	3.1
Balmer & Lawrie CFS, Navi Mumbai	2.3	2.4	1.9	2.7	3.3
Navkar Corporation Yard 3 CFS, Panvel	5.6	5.2	5.2	4.9	6.3
Ashte Logistics CFS, Panvel	2.6	2.9	2.8	4.5	4.6
Continental Warehousing CFS, Navi Mumbai	1.8	1.9	1.4	2.0	3.0
SBW Logistics CFS, Navi Mumbai	3.4	11.9	10.1	9.7	10.8
Maharashtra State Corp CFS	2.0	1.8	3.1	1.8	2.5
Internation Cargo Terminal CFS	3.1	2.6	1.8	2.5	3.3
Seabird CFS, Navi Mumbai	2.1	2.5	1.7	1.5	2.8
Apollo Logisolutions CFS, Panvel	2.7	3.3	2.7	2.6	8.0
Ameya Logistics CFS, Navi Mumbai	2.0	2.4	2.4	3.0	3.6
Transindia Logistics Park, Navi Mumbai	3.2	1.7	2.6	2.4	3.7
Ocean Gate CFS, Panvel	2.9	2.9	3.9	3.3	4.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.1	3.3	2.1	3.0	3.0
Indev Logistics CFS, Panvel	3.8	3.2	2.6	4.2	3.7
CWC Dronagiri CFS, Navi Mumbai	3.3	2.2	1.9	2.1	3.2
APM (Maersk India) CFS, Navi Mumbai	3.8	1.5	1.3	2.2	4.0

# CFS DELIVERY TIME ANALYSIS

## CFS - AVERAGE DELIVERY TIME - GTI TO ALL CFS's IN MUMBAI

Below table shows the average delivery time in import cycle from GTI to all the CFS's

### AVERAGE DELIVERY TIME ( In Hrs )- GTI TO ALL CFS IN MUMBAI

CFS	Jul'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.1
APM (Maersk India) CFS, Navi Mumbai	1.6
Internation Cargo Terminal CFS	1.5
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	3.7
Navkar Corporation Yard 3 CFS, Panvel	4.3
Seabird CFS, Navi Mumbai	2.7
Balmer & Lawrie CFS, Navi Mumbai	1.9
Ashte Logistics CFS, Panvel	3.2
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	3.0
Navkar Corporation Yard 1 CFS, Panvel	3.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	2.2
Apollo Logisolutions CFS, Panvel	4.2
Navkar Corporation Yard 2 CFS, Panvel	3.8
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	2.8
JWC Logistics Park CFS	3.0
SBW Logistics CFS, Navi Mumbai	4.2
Ocean Gate CFS, Panvel	3.1
Maharashtra State Corp CFS	3.2

## CFS - AVERAGE DELIVERY TIME - JNPCT TO ALL CFS's IN MUMBAI

Below table shows the average delivery time in import cycle from JNPCT to all the CFS's

### AVERAGE DELIVERY TIME ( In Hrs )- JNPCT TO ALL CFS IN MUMBAI

CFS	Jul'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.1
APM (Maersk India) CFS, Navi Mumbai	1.5
Internation Cargo Terminal CFS	1.6
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	1.9
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	4.5
Seabird CFS, Navi Mumbai	1.9
Balmer & Lawrie CFS, Navi Mumbai	2.2
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	3.8
Navkar Corporation Yard 1 CFS, Panvel	3.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.7
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	3.0
Navkar Corporation Yard 2 CFS, Panvel	3.0
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	1.9
JWC Logistics Park CFS	2.5
SBW Logistics CFS, Navi Mumbai	3.5
Ocean Gate CFS, Panvel	2.8
Maharashtra State Corp CFS	-



# CFS DELIVERY TIME ANALYSIS

## CFS - AVERAGE DELIVERY TIME - NSICT TO ALL CFS's IN MUMBAI

Below table shows the average delivery time in import cycle from NSICT to all the CFS's

### AVERAGE DELIVERY TIME ( In Hrs )- NSICT TO ALL CFS IN MUMBAI

CFS	Jul'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	1.5
Internation Cargo Terminal CFS	1.5
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.1
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	4.4
Seabird CFS, Navi Mumbai	2.6
Balmer & Lawrie CFS, Navi Mumbai	2.2
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.8
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	14.8
Navkar Corporation Yard 1 CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.2
Speedy Multimode CFS, JNPT	2.8
Apollo Logisolutions CFS, Panvel	2.9
Navkar Corporation Yard 2 CFS, Panvel	5.0
Punjab Conware CFS, Navi Mumbai	2.7
Vaishno Logistics CFS, Navi Mumbai	3.0
JWC Logistics Park CFS	3.5
SBW Logistics CFS, Navi Mumbai	4.3
Ocean Gate CFS, Panvel	3.9
Maharashtra State Corp CFS	17.6

## CFS - AVERAGE DELIVERY TIME - NSIGT TO ALL CFS's IN MUMBAI

Below table shows the average delivery time in import cycle from NSIGT to all the CFS's

### AVERAGE DELIVERY TIME ( In Hrs )- NSIGT TO ALL CFS IN MUMBAI

CFS	Jul'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	1.5
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	3.5
Balmer & Lawrie CFS, Navi Mumbai	3.4
Ashte Logistics CFS, Panvel	3.0
Continental Warehousing CFS, Navi Mumbai	2.1
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	3.5
Navkar Corporation Yard 1 CFS, Panvel	5.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.7
Maersk Annex (APM)CFS, Navi Mumbai	1.5
Speedy Multimode CFS, JNPT	2.5
Apollo Logisolutions CFS, Panvel	5.2
Navkar Corporation Yard 2 CFS, Panvel	3.8
Punjab Conware CFS, Navi Mumbai	3.0
Vaishno Logistics CFS, Navi Mumbai	3.7
JWC Logistics Park CFS	2.7
SBW Logistics CFS, Navi Mumbai	3.0
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	25.5

## CFS - AVERAGE DELIVERY TIME - BMCT TO ALL CFS's IN MUMBAI

Below table shows the average delivery time in import cycle from BMCT to all the CFS's

### AVERAGE DELIVERY TIME ( In Hrs )- BMCT TO ALL CFS IN MUMBAI

CFS	Jul'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	1.7
Internation Cargo Terminal CFS	1.6
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	3.6
Navkar Corporation Yard 3 CFS, Panvel	4.0
Seabird CFS, Navi Mumbai	2.4
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.8
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	2.3
Navkar Corporation Yard 1 CFS, Panvel	3.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	1.8
Speedy Multimode CFS, JNPT	1.9
Apollo Logisolutions CFS, Panvel	3.0
Navkar Corporation Yard 2 CFS, Panvel	3.1
Punjab Conware CFS, Navi Mumbai	1.9
Vaishno Logistics CFS, Navi Mumbai	1.8
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	3.7
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	30.8

Base on container movement from port to CFS in Mumbai region, All the CFS's have been grouped into 8 Clusters on the basis of their vicinity. Below table shows all the clusters and the relevant data for GTI and JNPCT terminal

## CFS Cluster : GTI Terminal

GTI terminal for month of Jul'21				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.2	2.5
Cluster 2	6	13	1.9	2.3
Cluster 3	6	11	2.9	2.0
Cluster 4	1	13	2.8	2.9
Cluster 5	2	25	3.1	3.0
Cluster 6	6	25	3.8	3.3
Cluster 7	4	12	1.8	1.9
Cluster 8	1	34	4.2	11.9

## CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Jul'21				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.8	1.9
Cluster 2	6	13	1.9	2.7
Cluster 3	6	11	2.1	2.0
Cluster 4	1	13	1.9	3.2
Cluster 5	2	25	2.6	2.6
Cluster 6	6	25	3.1	3.8
Cluster 7	4	12	1.8	2.0
Cluster 8	1	34	3.5	3.4

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

Base on container movement from port to CFS in Mumbai region, All the CFS's have been grouped into 8 Clusters on the basis of their vicinity. Below table shows all the clusters and the relevant data for NSICT, NSIGT and BMCT terminal

## CFS Cluster : NSICT Terminal

## CFS Cluster : NSIGT Terminal

## CFS Cluster : BMCT Terminal

NSICT terminal for month of Jul'21

NSIGT terminal for month of Jul'21






BMCT terminal for month of Jul'21

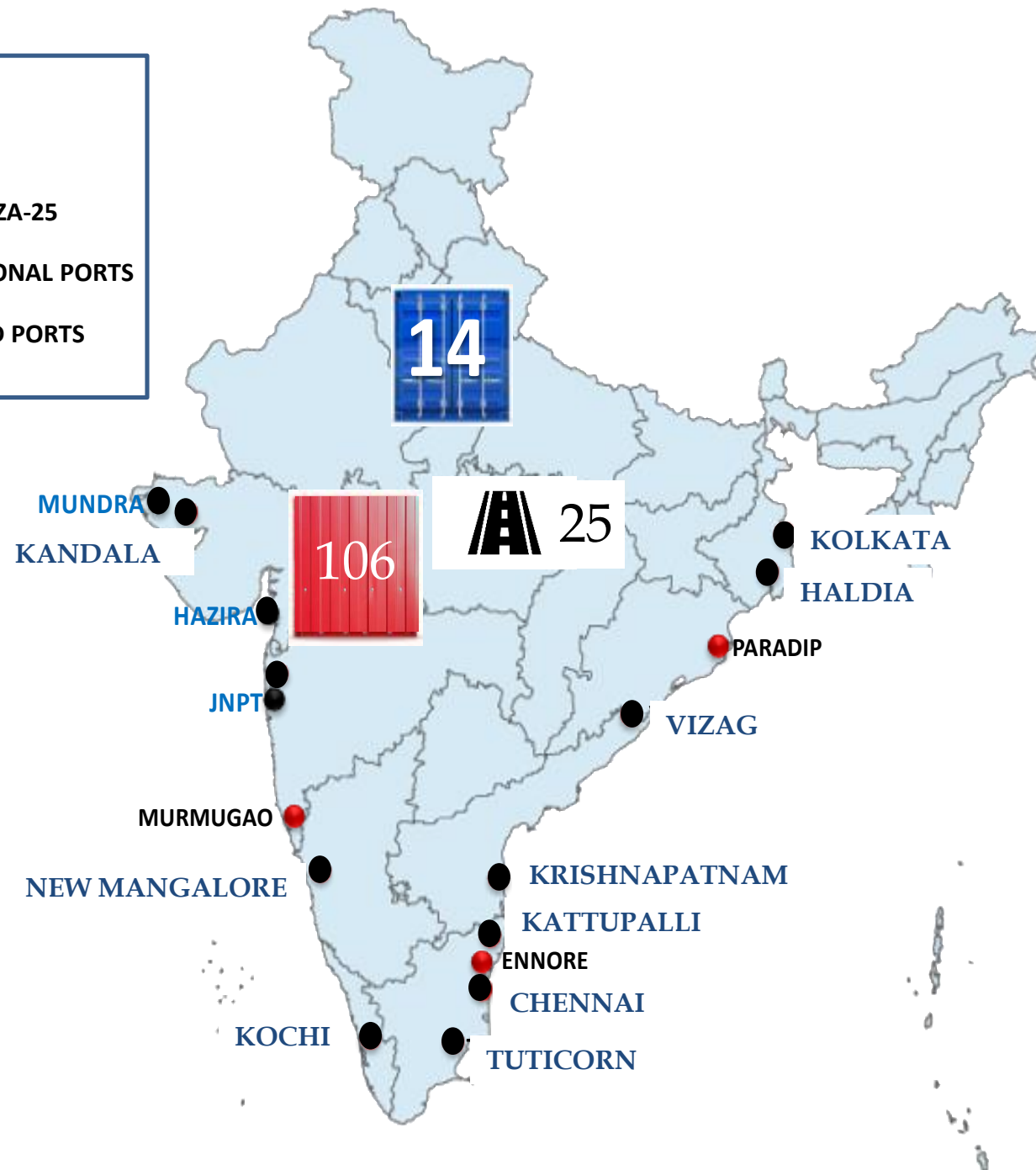
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.8	2.1
Cluster 2	6	13	2.1	1.7
Cluster 3	6	11	8.7	2.2
Cluster 4	1	13	3.0	0.0
Cluster 5	2	25	3.7	3.2
Cluster 6	6	25	3.5	2.8
Cluster 7	4	12	2.0	2.4
Cluster 8	1	34	4.3	10.1

Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.5	2.4
Cluster 2	6	13	2.0	2.4
Cluster 3	6	11	2.0	2.0
Cluster 4	1	13	3.7	2.5
Cluster 5	2	25	2.9	3.6
Cluster 6	6	25	3.8	4.5
Cluster 7	4	12	2.0	2.4
Cluster 8	1	34	3.0	9.7

Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.9	3.1
Cluster 2	6	13	1.8	3.3
Cluster 3	6	11	2.0	2.7
Cluster 4	1	13	1.8	3.1
Cluster 5	2	25	3.0	4.4
Cluster 6	6	25	3.1	6.3
Cluster 7	4	12	1.9	3.6
Cluster 8	1	34	3.7	10.8

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

-  ICD- 14
-  CFS-106
-  TOLL PLAZA-25
-  OPERATIONAL PORTS
-  PLANNED PORTS



Below mentioned are all the CFS in the respective Clusters :

<p style="text-align: center;"><b>Cluster 1</b> (JNPT Area)</p> <ul style="list-style-type: none"> <li>Speedy Multimode CFS, JNPT</li> </ul>	<p style="text-align: center;"><b>Cluster 3</b> Sonari area, JNPT road</p> <ul style="list-style-type: none"> <li>Punjab Conware CFS, Navi Mumbai</li> <li>Dronogiri Rail Terminal CFS, Navi Mumbai</li> <li>CWC Impex Park CFS, Navi Mumbai</li> <li>CWC Dronagiri CFS, Navi Mumbai</li> <li>Maharashtra State Corp CFS</li> <li>Seabird CFS, Navi Mumbai</li> </ul>	<p style="text-align: center;"><b>Cluster 6</b> (Salva apta rd area, Bangalore highway)</p> <ul style="list-style-type: none"> <li>Ashte Logistics CFS, Panvel</li> <li>Apollo Logisolutions CFS, Panvel</li> <li>Indev Logistics CFS, Panvel</li> <li>Navkar Corporation Yrd 1 CFS, Panvel</li> <li>Navkar Corporation Yard 2 CFS, Panvel</li> <li>Navkar Corporation Yard 3 CFS, Panvel</li> </ul>
<p style="text-align: center;"><b>Cluster 2</b> (Bhendkhal area, Khopate road)</p> <ul style="list-style-type: none"> <li>APM (Maersk India) CFS, Navi Mumbai</li> <li>Maersk Annex (APM) CFS, Navi Mumbai</li> <li>Balmer &amp; Lawrie CFS, Navi Mumbai</li> <li>CWC Hind Terminal CFS, Navi Mumbai</li> <li>International Cargo Terminals (ULA) CFS, Navi Mumbai &amp; Infrastructure Private Limited</li> <li>Gateway Distriparks CFS, Navi Mumbai</li> <li>International Cargo Terminal CFS</li> </ul>	<p style="text-align: center;"><b>Cluster 4</b> (Chirle area, JNPT road)</p> <ul style="list-style-type: none"> <li>Vaishno Logistics CFS, Navi Mumbai</li> </ul>	<p style="text-align: center;"><b>Cluster 7</b> (Patilpada area, Khopate JNPT road)</p> <ul style="list-style-type: none"> <li>All Cargo Logistics CFS, Navi Mumbai</li> <li>Transindia Logistics Park, Navi Mumbai</li> <li>Ameya Logistics CFS, Navi Mumbai</li> <li>Continental Warehousing CFS, Navi Mumbai</li> </ul>
	<p style="text-align: center;"><b>Cluster 5</b> (Plaspa area, Coachi kanyakumari Highway)</p> <ul style="list-style-type: none"> <li>JWC Logistics Park CFS</li> <li>Ocean Gate CFS, Panvel</li> </ul>	
	<p style="text-align: center;"><b>Cluster 8</b> SBW</p>	

## List of CFS name used in CFS Performance Index

1	Adani CFS, Hazira
2	Speedy Multimode CFS, JNPT
3	AllCargo Logistics
4	Ameya Logistics CFS, Navi Mumbai
5	Gateway Distriparks CFS, Navi Mumbai
6	CWC Hind Terminal CFS, Navi Mumbai
7	JWR CFS
8	CWC CFS, Mundra
9	Punjab Conware CFS, Navi Mumbai
10	Adani CFS Eximyard, Mundra
11	Hind Terminals Pvt. Ltd. CFS, Mundra
12	Saurashtra CFS, Mundra
13	Continental Warehousing CFS, Navi Mumbai
14	JWC Logistics Park CFS
15	Navkar Corporation Yard 3 CFS, Panvel
16	Seabird CFS, Navi Mumbai
17	Ashutosh CFS, Mundra
18	APM (Maersk India) CFS, Navi Mumbai
19	MICT CFS, Mundra
20	International Cargo Terminals (ULA) CFS, Navi Mumbai
21	Seabird CFS, Mundra
22	TG Terminals CFS, Mundra
23	EFC Logistics India
24	Ashte Logistics CFS, Panvel
25	Vaishno Logistics CFS, Navi Mumbai

26	TG Terminals CFS
27	Hind Terminal CFS, Hazira
28	Sarveshwar CFS
29	Dronagiri Rail Terminal CFS, Navi Mumbai
30	Balmer & Lawrie CFS, Navi Mumbai
31	Honey Comb CFS, Mundra
32	Mundhra CFS, Mundra
33	Apollo Logisolutions CFS, Panvel
34	Seabird CFS, Hazira
35	International Cargo Terminal CFS
36	Ocean Gate CFS, Panvel
37	Rishi CFS, Mundra
38	Transworld CFS, Mundra
39	CWC Impex Park CFS, Navi Mumbai
40	AllCargo CFS, Mundra
41	Navkar Corporation Yard 2 CFS, Panvel
42	Take Care Logistics CFS
43	Empezar Logistics CFS
44	Maersk Annex (APM)CFS, Navi Mumbai
45	Maharashtra State Corp CFS
46	A V Joshi CFS
47	Landmark CFS, Mundra
48	Navkar Corporation Yard 1 CFS, Panvel



**THANK YOU**