

## Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Mar'20 (in hrs)	Apr'20 (in hrs)	Port	Mar'20 (in hrs)	Apr'20 (in hrs)
JNPCT	21.3	59.6	JNPCT	64.6	65.0
NSICT	19.3	63.9	NSICT	55.4	43.4
GTI	18.1	39.0	GTI	66.9	89.3
NSIGT	23.0	55.1	NSIGT	73.5	77.6
BMCT/PSA	19.4	43.2	BMCT/PSA	65.2	89.1

## Critical Incident Summary

### Jawaharlal Nehru Port Terminals

- Rail bound container handling performance at Port Terminal has deteriorated in both Import & Export Cycle which has led to decrease Port to ICD Transit Time and ICD Dwell Time

Month	Import Cycle - Dwell Time	Export Cycle - Dwell Time	ICD Dwell Time	CFS Dwell Time
Apr'20	49.8 hrs	69.4 hrs	160.4 hrs	89.4 hrs
Mar'20	19.7 hrs	66.2 hrs	134.2 hrs	80.3 hrs






## Port Dwell Time

IMPORT

Mode	Mar'20 (in hrs)	Apr'20 (in hrs)
Overall	22.2	52.7
Truck	20.8	43.5
Train	36.5	84.5

EXPORT

Mode	Mar'20 (in hrs)	Apr'20 (in hrs)
Overall	88.3	95.8
Truck	87.0	90.7
Train	96.1	112.6

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



Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Mar'20 (in hrs)	Apr'20 (in hrs)
CFS	82.2	94.1
ICD	134.2	160.4

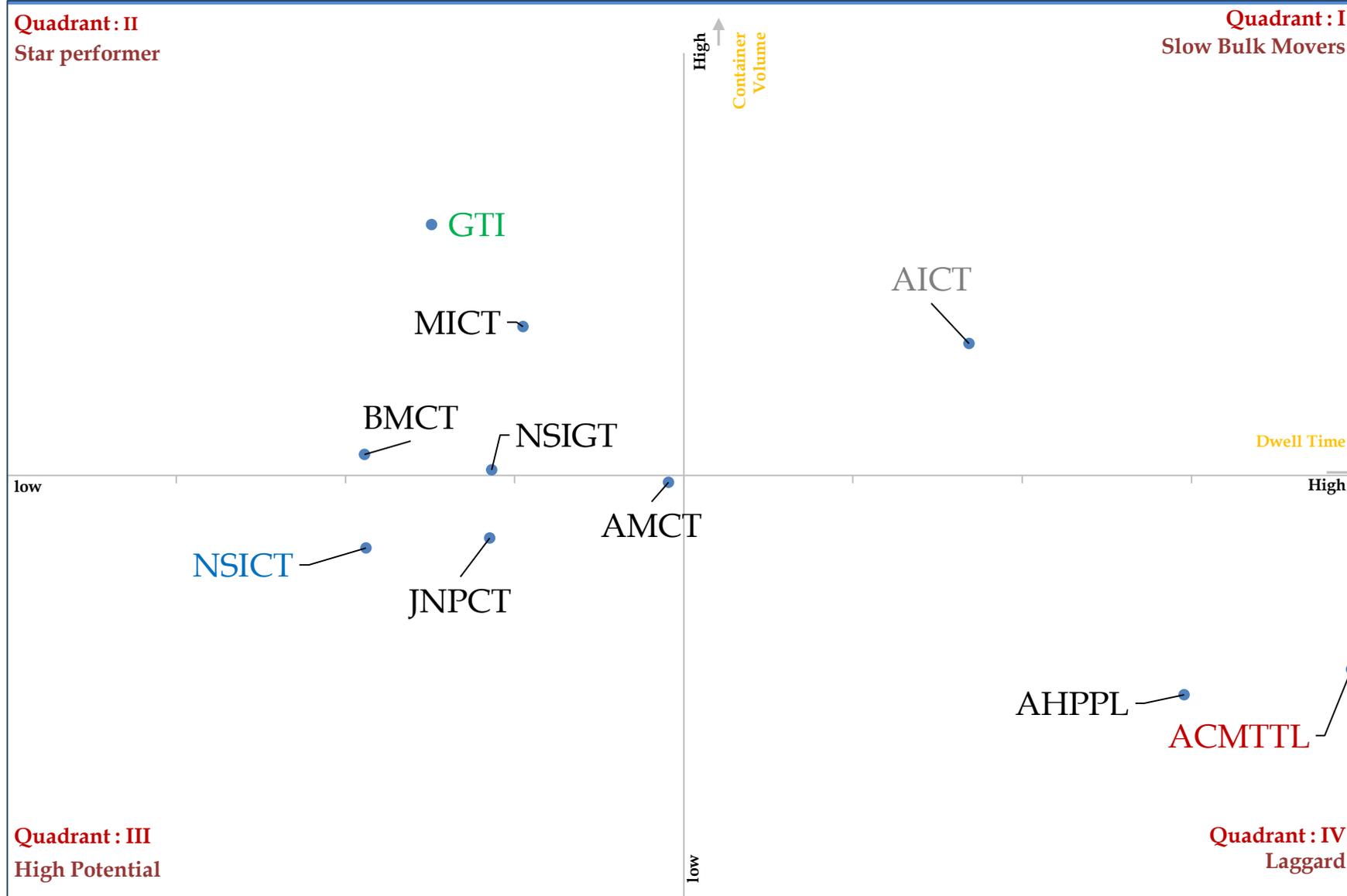
- The marked entries showcase increase in performance in comparison to Mar'20
- The marked entries showcase decrease in performance in comparison to Mar'20



## Performance Benchmarking - Port Terminals

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

### Port Terminal Performance Index - Apr'20



Performance benchmarking for Port Terminals covered under LDB project for Apr'20

Top Performing Terminal	
Gateway Terminals India	
Mar'20	Apr'20
38.6 hrs	57.6 hrs <span style="color:red">↓</span>
Low Performing Terminal	
Adani CMA Mundra Terminal (ACMTTL)	
Mar'20	Apr'20
95.2 hrs	135.9 hrs <span style="color:red">↓</span>

Note: The performance benchmarking is based on performance index



The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Mar'20

#### 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)

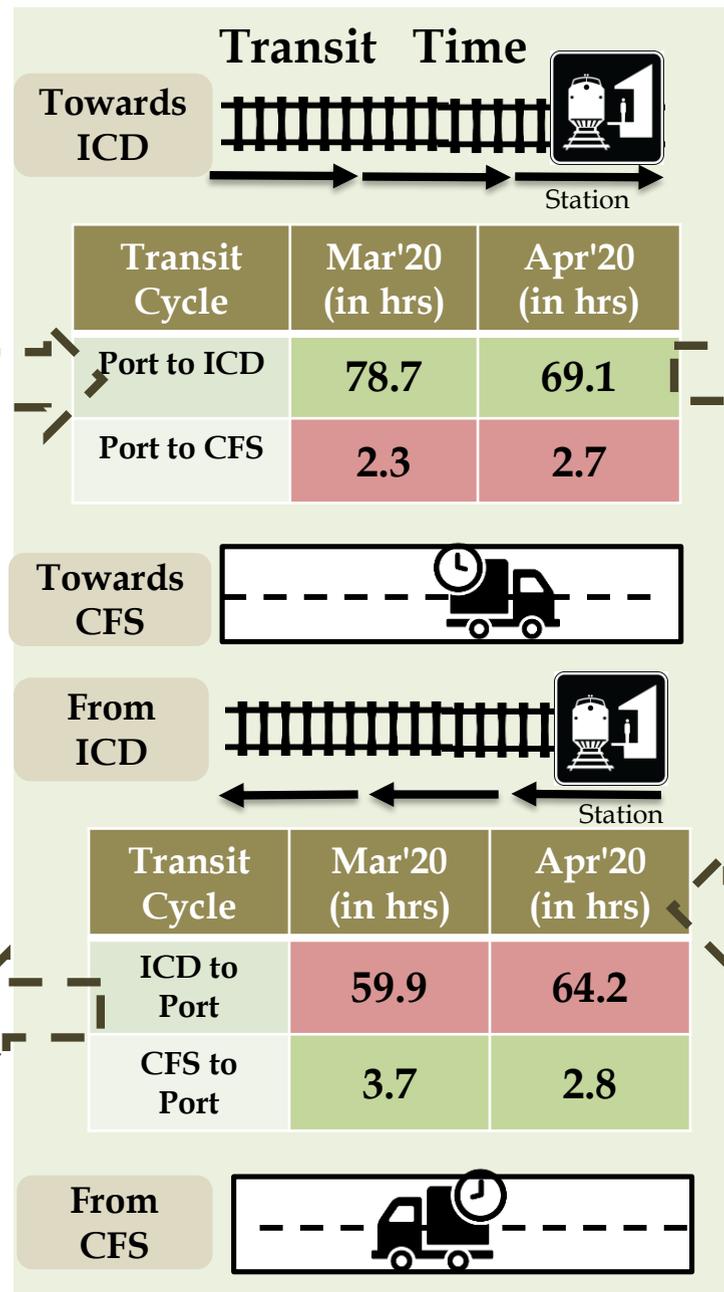
**IMPORT**

### Port Dwell Time

Mode	Mar'20 (in hrs)	Apr'20 (in hrs)
Overall	19.7	49.8
Truck	18.3	40.2
Train	31.7	85.6

**EXPORT**

Mode	Mar'20 (in hrs)	Apr'20 (in hrs)
Overall	66.2	69.4
Truck	67.1	67.9
Train	57.2	76.5



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

Entity	Mar'20 (in hrs)	Apr'20 (in hrs)
CFS	80.3	89.4
ICD	134.2	160.4

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

	Truck	Rail
Import	75%	25%
Export	73%	27%

The marked entries showcase the increase in performance as compared to Mar'20

The marked entries showcase the decrease in performance as compared to Mar'20

## Container Lifecycle (Export Cycle)

%IMPORT CYCLE DWELL TIME (Apr'20 - in hrs)			Compared to Mar'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	49.8	152% ↓
	Port Dwell Time for Truck Bound Containers	40.2	119% ↓
	Port Dwell time for Train Bound Containers	85.6	170% ↓
	Port Dwell time Direct Port Delivery (DPD) containers	101.9	225% ↓
	Port Dwell time Containers bound for CFS	40.9	173% ↓
	Port Dwell for Empty Containers	59.2	116% ↓
	Port Dwell for Laden Containers	43.4	138% ↓
TRANSIT TIME	Port to ICD	69.1	12% ↑
	Port to CFS	2.7	15% ↓

EXPORT CYCLE DWELL TIME (Apr'20- in hrs)			Compared to Mar'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	69.4	5% ↓
	Port Dwell Time for Truck Bound Containers	67.9	1% ↓
	Port Dwell time for Train Bound Containers	76.5	34% ↓
	Port Dwell time Direct Port Entry (DPE) containers	67.0	7% ↑
	Port Dwell time Containers bound from CFS	68.5	6% ↓
	Port Dwell for Empty Containers	67.9	5% ↓
	Port Dwell for Laden Containers	64.6	4% ↑
TRANSIT TIME	ICD to Port	64.2	7% ↓
	CFS to Port	2.8	25% ↑

↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to Mar'20

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	Mar'20 (in hrs)	Apr'20 (in hrs)
Overall Parking Plaza	7.42	5.41
Parking Plaza	Mar'20 (in hrs)	Apr'20 (in hrs)
APM-GTI Parking Plaza	6.9	5.6
JNPCT Parking Plaza	6.21	4.8
NSIGT Parking Plaza	8.4	5.1

## Container Handled: Day wise (Apr'20)



## Parking Plaza Gate Out - Terminal In

Mode	Mar'20 (in hrs)	Apr'20 (in hrs)
Overall Parking Plaza to JNPT Port	2.3	1.4
Port	Mar'20 (in hrs)	Apr'20 (in hrs)
JNPCT	1.9	1.6
NSICT	2.1	1.1
GTI	2.6	2.0
NSIGT	2.0	0.9
BMCT	2.6	2.0

## Container Handled: Day wise (Apr'20)





## Performance Benchmarking



### Top Performing CFS

#### Speedy Multimode CFS, JNPT

Mar'20	Apr'20
66.0 hrs	48.1 hrs

### Low Performing CFS

#### Seabird CFS Hazira

Mar'20	Apr'20
96.0 hrs	124.1 hrs

Note: The performance benchmarking is based on performance index  
 The arrows depict increase/decrease in overall performance of the stakeholders as compared to Mar'20

### Top Performing ICD

#### Albatross Inland Ports ICD, Dadri

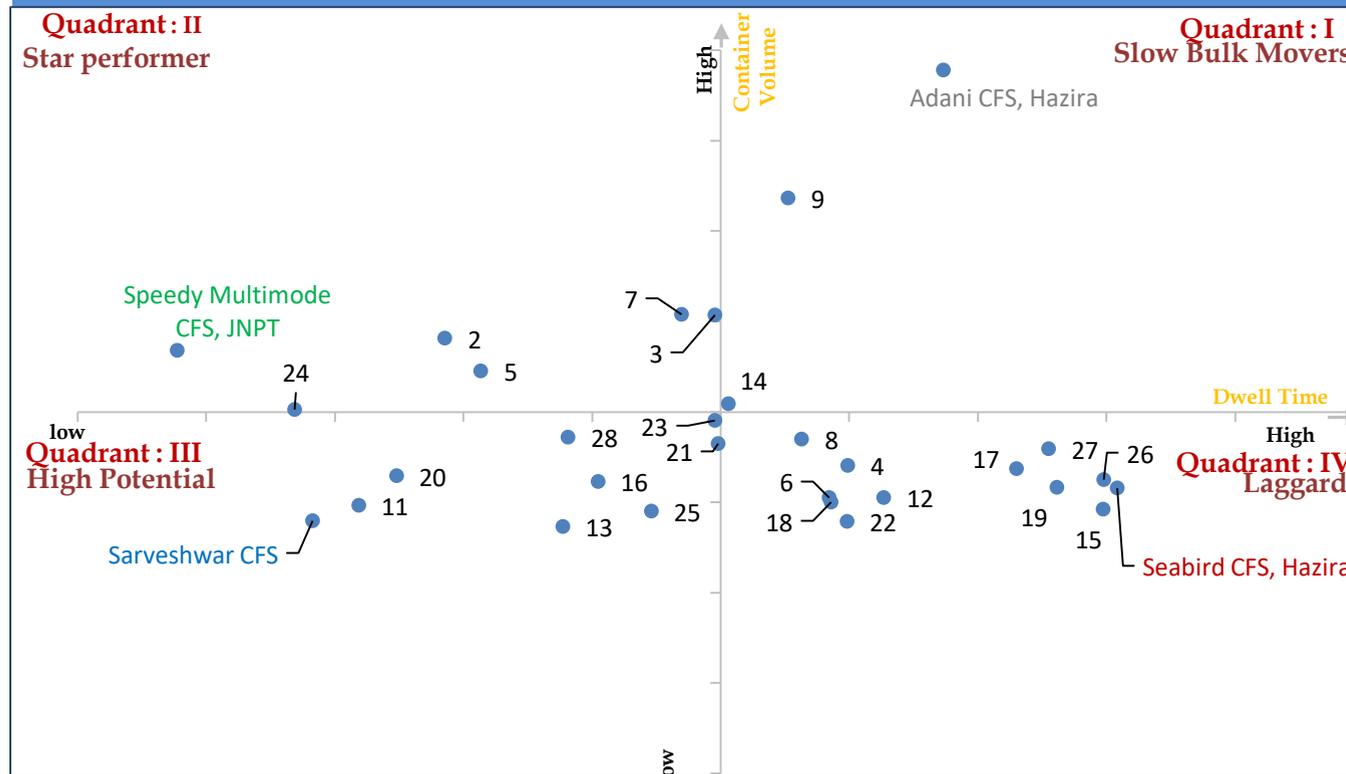
Mar'20	Apr'20
133.2 hrs	132.4 hrs

### Low Performing ICD

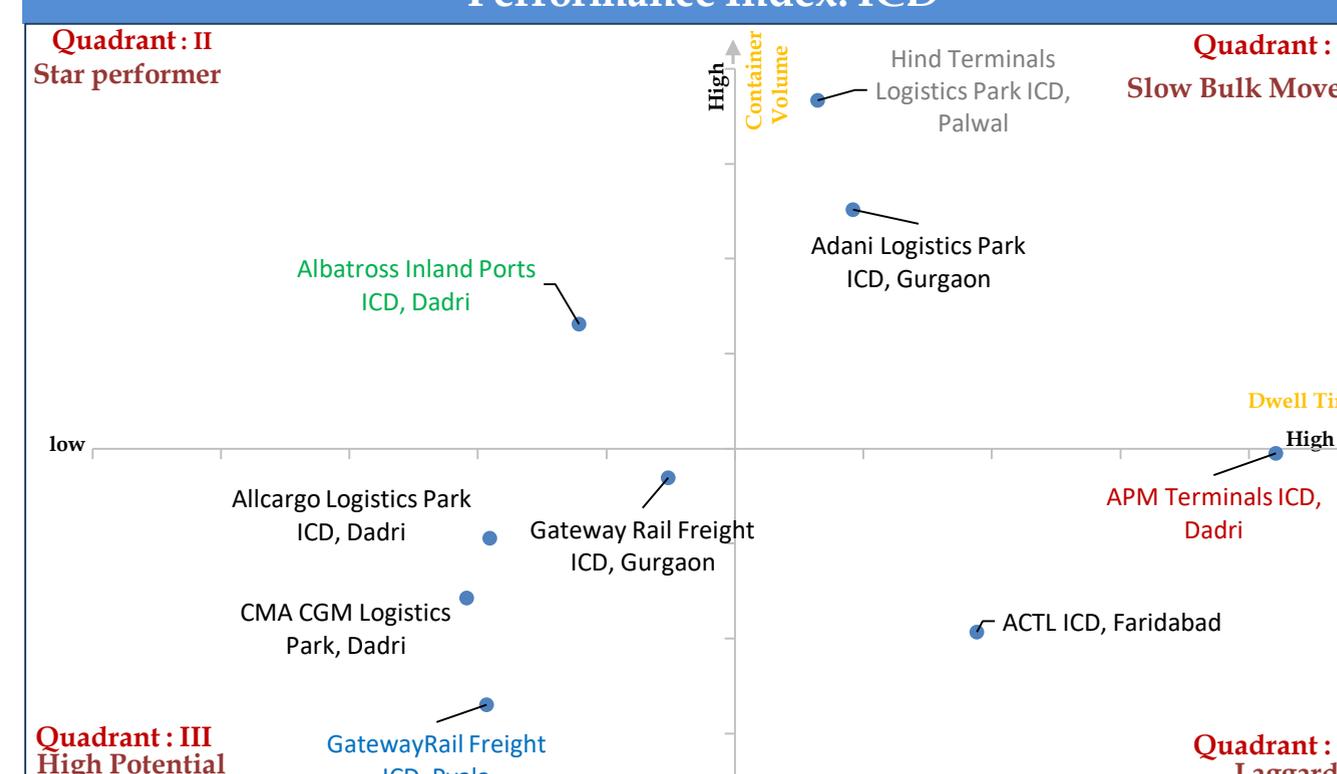
#### APM Terminals ICD, Dadri

Mar'20	Apr'20
166.2 hrs	290.0 hrs

### 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

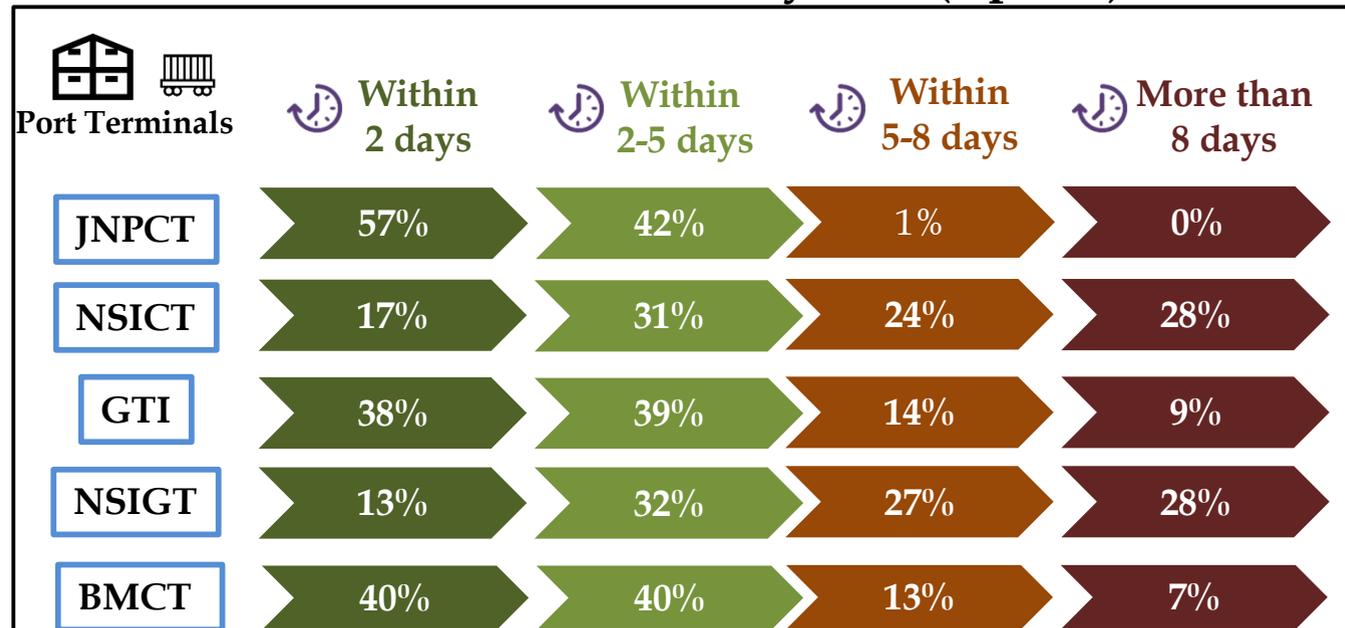
## PORT IMPORT via TRAIN

**(22% 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	Mar'20 (in hrs)	Apr'20 (in hrs)
JNPCT	23.8	41.9
NSICT	36.9	125.3
GTI	23.7	68.6
NSIGT	54.3	129.7
BMCT	23.7	66.9

### Container Handled: Day wise (Apr'20)



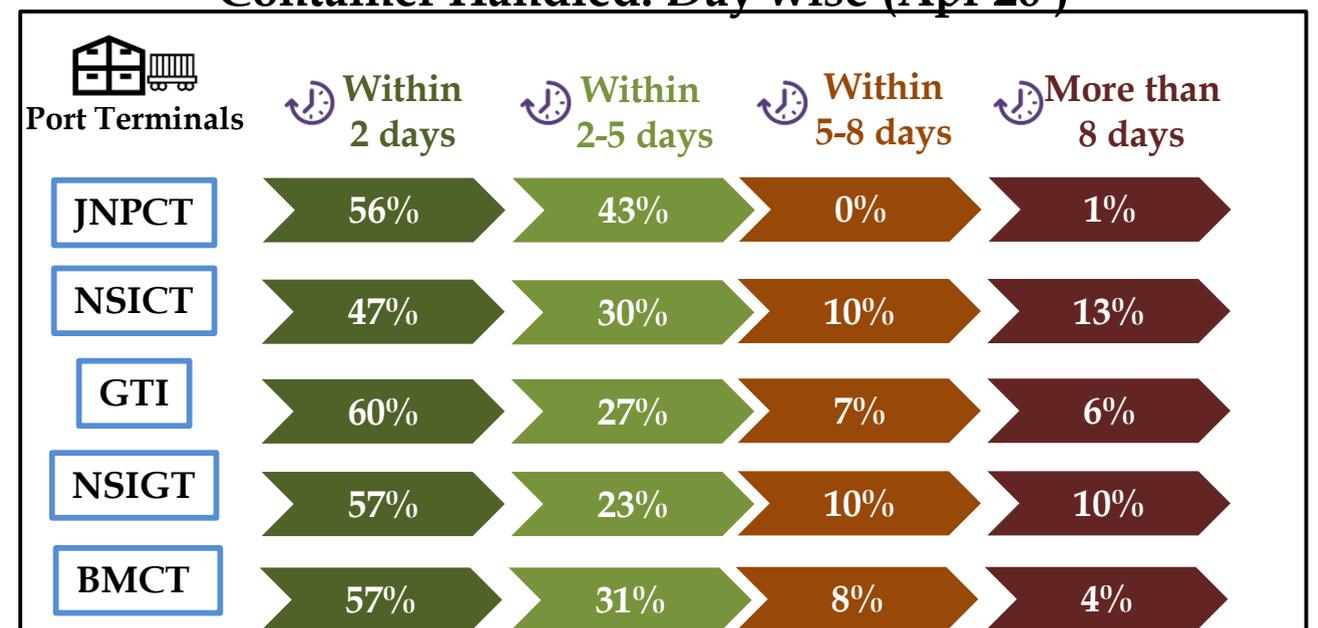
## PORT IMPORT via TRUCK

**(78% 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	Mar'20 (in hrs)	Apr'20 (in hrs)
JNPCT	21.1	42.2
NSICT	17.3	52.1
GTI	17.4	33.7
NSIGT	18.5	40.0
BMCT	18.8	39.6

### Container Handled: Day wise (Apr'20)



The below tables depict the detailed JNPT region port performance in the month of Apr'20

<b>JNPCT</b>		
<b>Port Dwell time based on transit type</b>		
<b>Apr'20</b>	<b>Direct Port Delivery containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	91.3 hrs	67.4 hrs
<b>Port Dwell time based on container type</b>		
<b>Apr'20</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	59.6 hrs	60.5 hrs

<b>GTI</b>		
<b>Port Dwell time based on transit type</b>		
<b>Apr'20</b>	<b>Direct Port Delivery containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	115.6 hrs	33.3 hrs
<b>Port Dwell time based on container type</b>		
<b>Apr'20</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	34.3 hrs	64.3 hrs

The below tables depict the detailed JNPT region port performance in the month of Apr'20

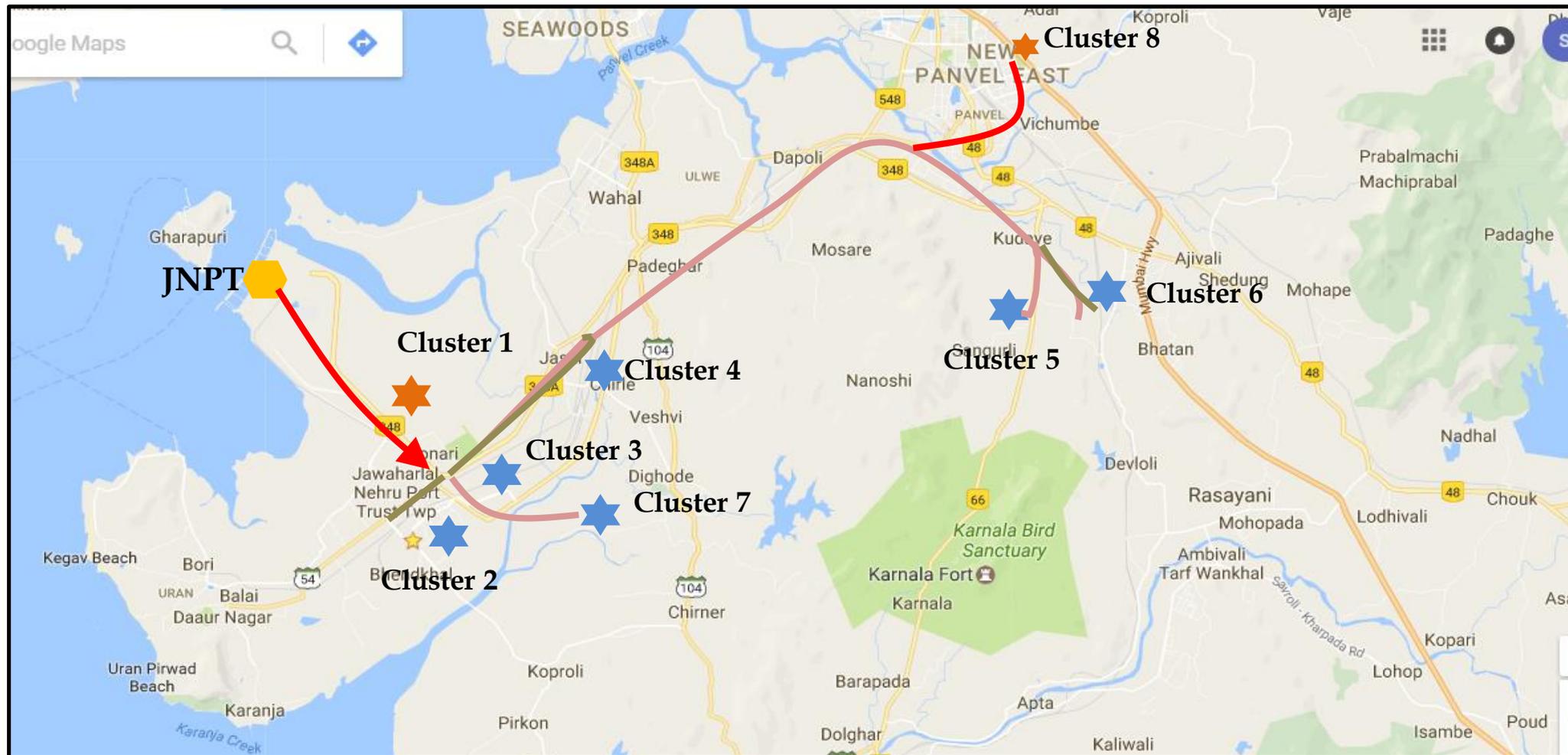
NSICT		
Port Dwell time based on transit type		
Apr'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	138.5 hrs	41.0 hrs
Port Dwell time based on container type		
Apr'20	Laden Containers	Empty Containers
Dwell time (in hrs)	54.7 hrs	55.2 hrs

NSIGT		
Port Dwell time based on transit type		
Apr'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	174.9 hrs	34.9 hrs
Port Dwell time based on container type		
Apr'20	Laden Containers	Empty Containers
Dwell time (in hrs)	44.9 hrs	57.1 hrs

BMCT		
Port Dwell time based on transit type		
Apr'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	80.2 hrs	35.9 hrs
Port Dwell time based on container type		
Apr'20	Laden Containers	Empty Containers
Dwell time (in hrs)	39.5 hrs	64.8 hrs

# JNPT Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPT region in Import Cycle in month of Apr'20



## Clusters with bottleneck

CLUSTER 1	JNPT Area
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 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road

**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**  
Export 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

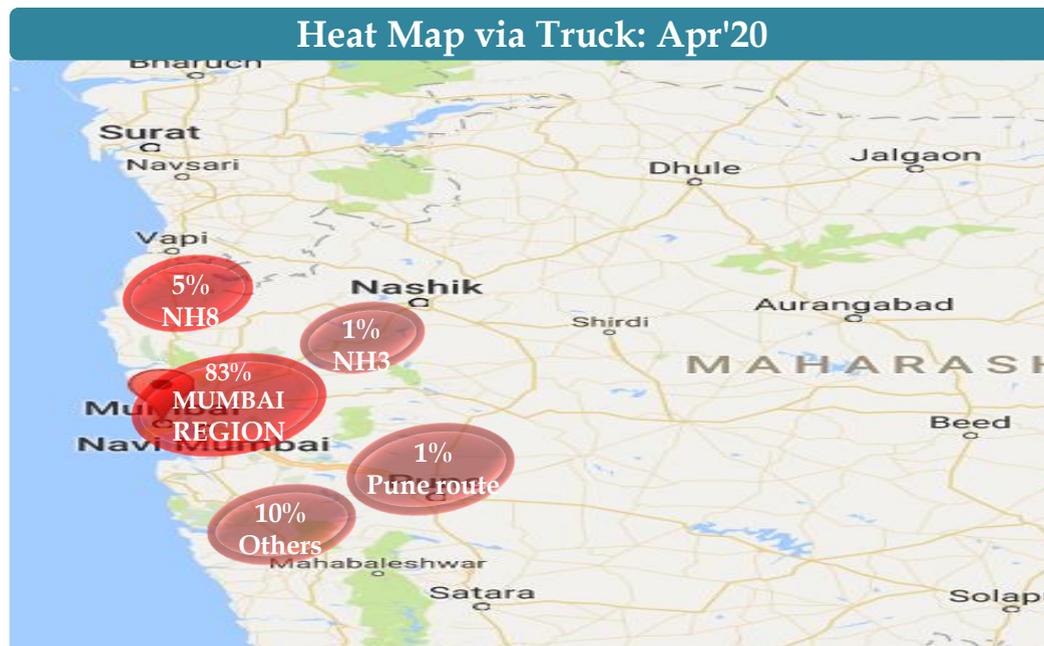
The below table and graphs depict the container movement across JNPT port region in Import cycle

## Truck

### HEAT MAP : OVERALL MUMBAI REGION

Region	Apr'20
Mumbai region	83%
NH3	1%
Pune	1%
NH8	5%
others	10%

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

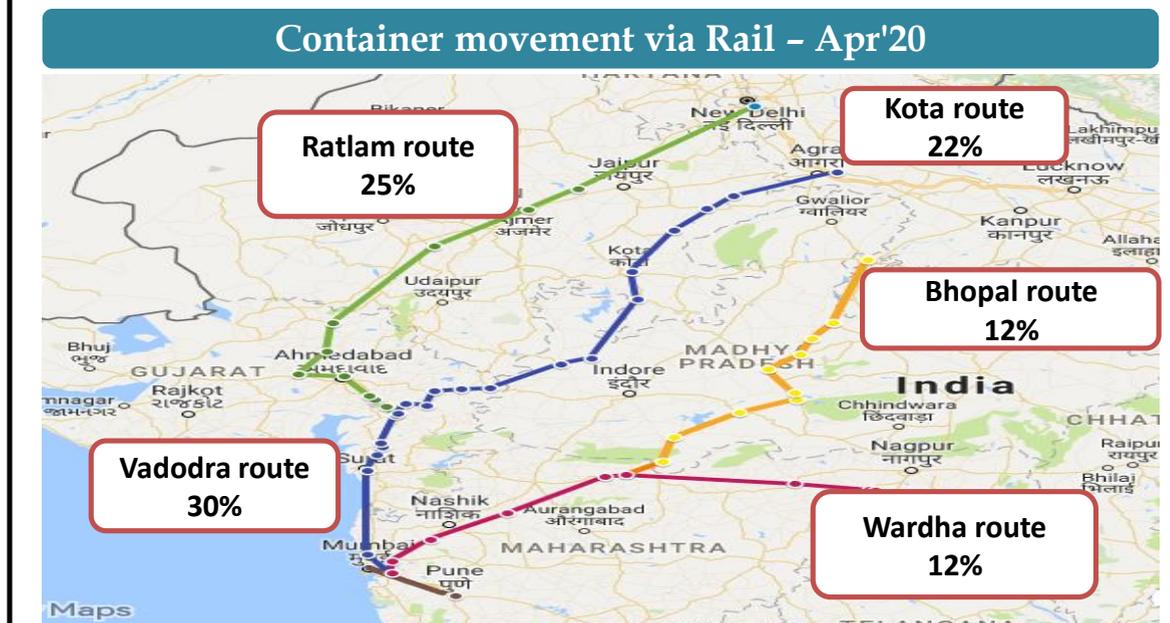


## Train

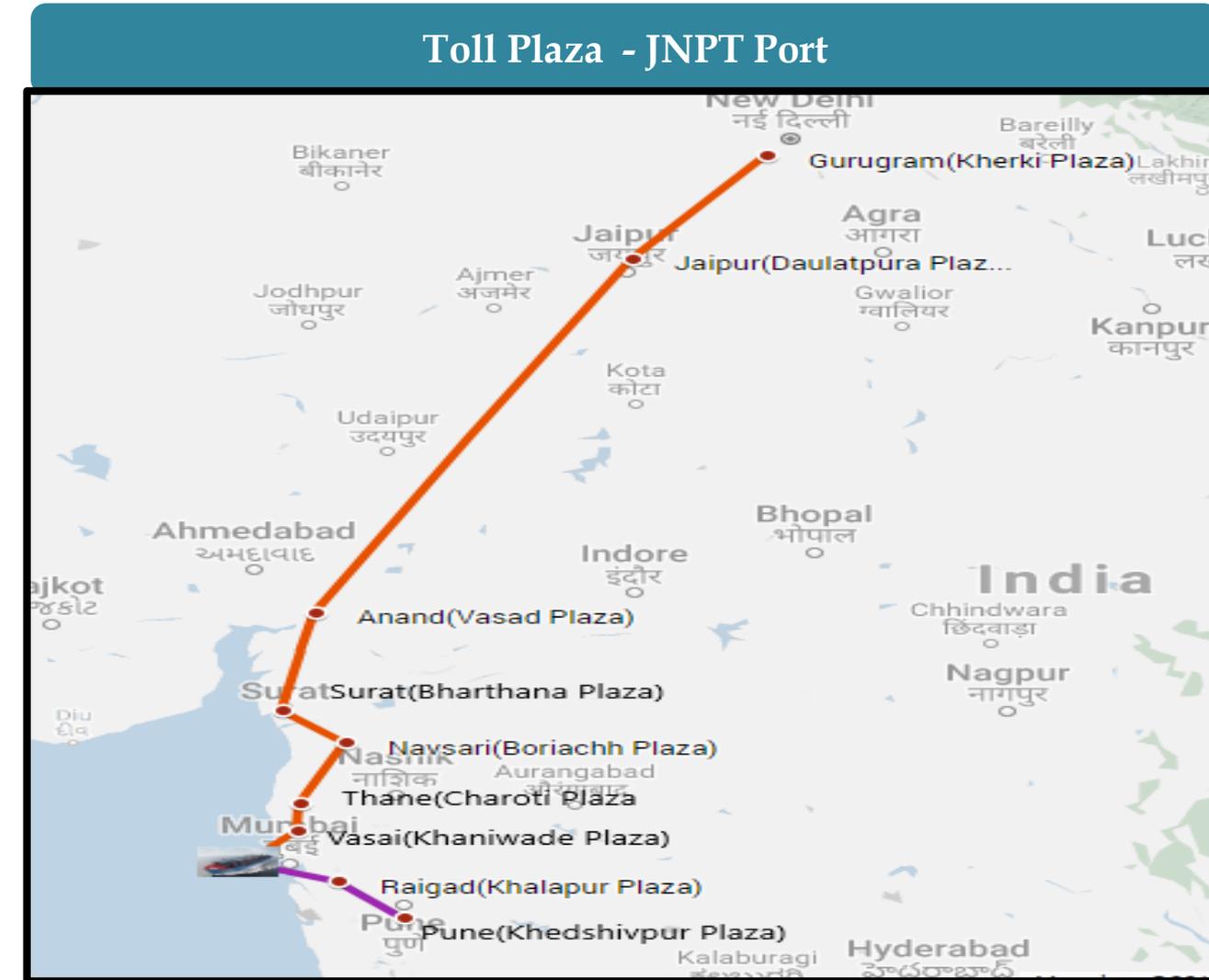
### VOLUME WISE CONTAINER MOVEMENT

Region	Apr'20
Vadodra Route	30%
Ratlam Route	25%
Wardha Route	12%
Kota Route	22%
Bhopal Route	12%

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



Avg. Speed between Toll Plazas					
	Source	Destination Toll Plaza	Inter Distance (Km)	Mar'20 (in km/hrs)	Apr'20 (in km/hrs)
JNPT	JNPT	Khaniwade	94	13.2	16.9
	JNPT	Khalapur	60	8.2	8.3
	Khaniwade	Charoti	50	35.7	15.5
	Charoti	Boriach	126	29.6	29.3
	Boriach	Bharthan	142	35.7	34.7



# Export Cycle Analysis

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

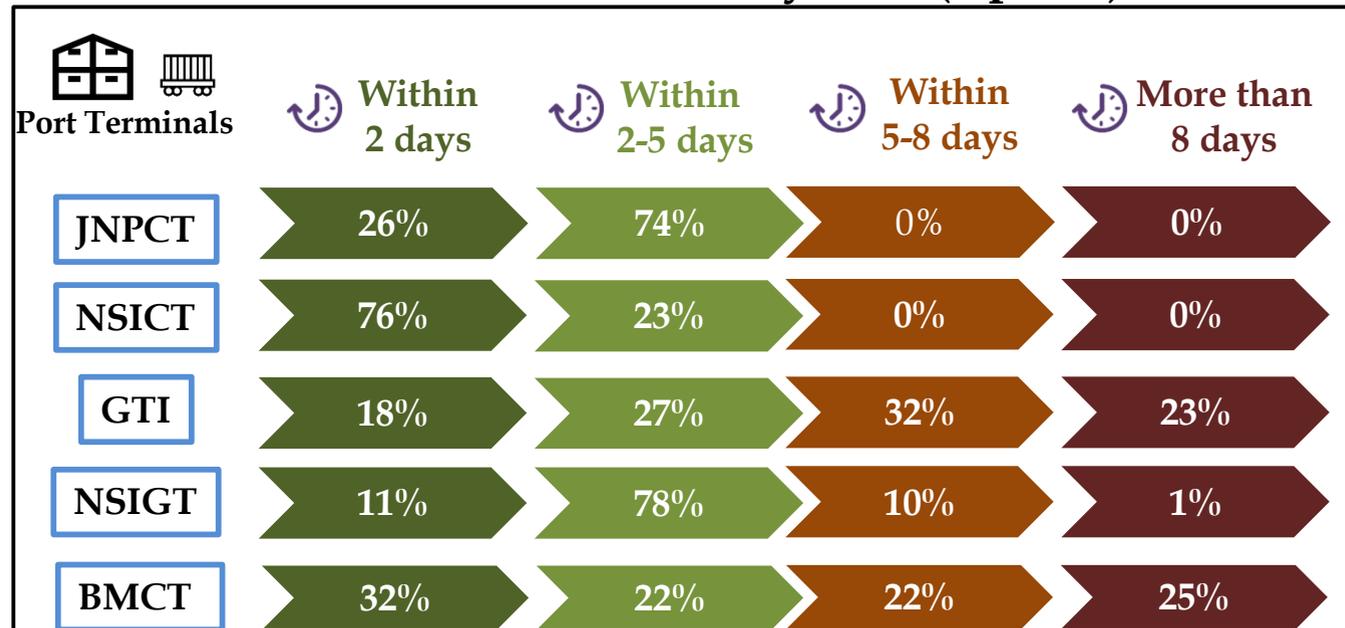
## PORT EXPORT via TRAIN

**(26% 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	Mar'20 (in hrs)	Apr'20 (in hrs)
JNPCT	64.9	72.1
NSICT	6.2	13.8
GTI	93.3	128.2
NSIGT	81.7	93.3
BMCT	62.8	111.0

### Container Handled: Day wise (Apr'20)



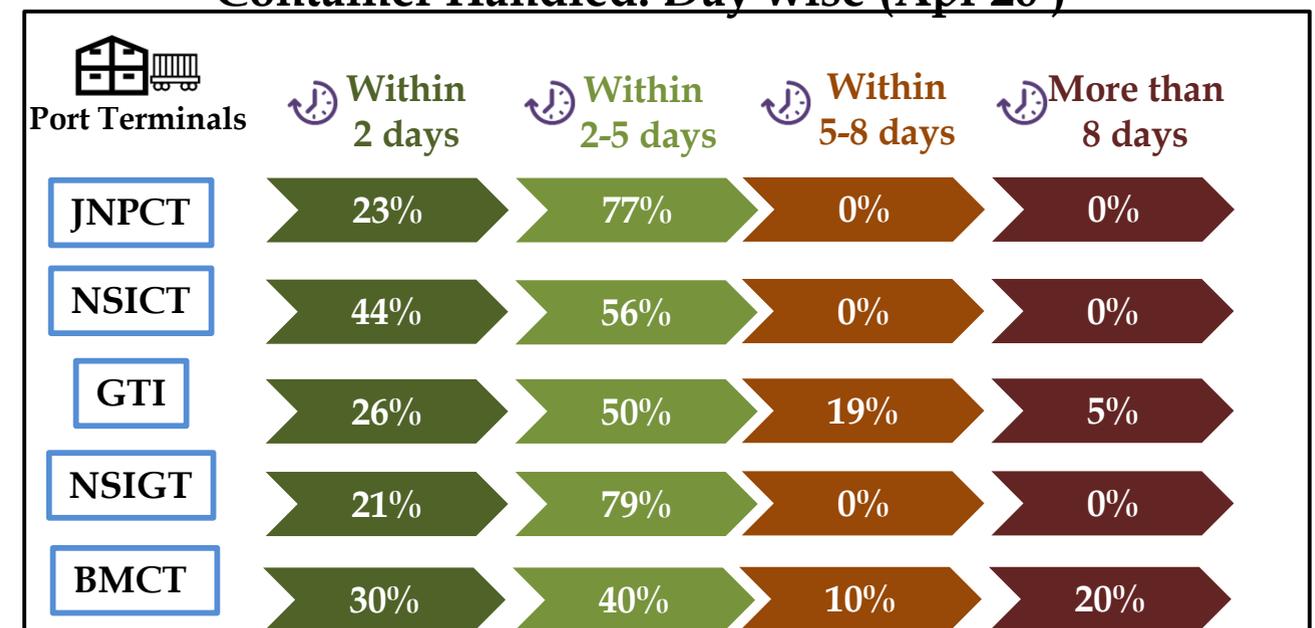
## PORT EXPORT via TRUCK

**(74% 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	Mar'20 (in hrs)	Apr'20 (in hrs)
JNPCT	64.6	64.9
NSICT	70.2	52.1
GTI	64.1	76.0
NSIGT	72.8	75.0
BMCT	65.5	81.1

### Container Handled: Day wise (Apr'20)



The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Apr'20

<b>JNPCT</b>		
<b>Port Dwell time based on transit type</b>		
<b>Apr'20</b>	<b>Direct Port Exports containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	66.6 hrs	73.3 hrs
<b>Port Dwell time based on container type</b>		
<b>Apr'20</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	67.0 hrs	63.1 hrs

<b>GTI</b>		
<b>Port Dwell time based on transit type</b>		
<b>Apr'20</b>	<b>Direct Port Exports containers</b>	<b>Containers bound for CFS</b>
Dwell time (in hrs)	74.1 hrs	78.7 hrs
<b>Port Dwell time based on container type</b>		
<b>Apr'20</b>	<b>Laden Containers</b>	<b>Empty Containers</b>
Dwell time (in hrs)	83.1 hrs	80.5 hrs

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Apr'20

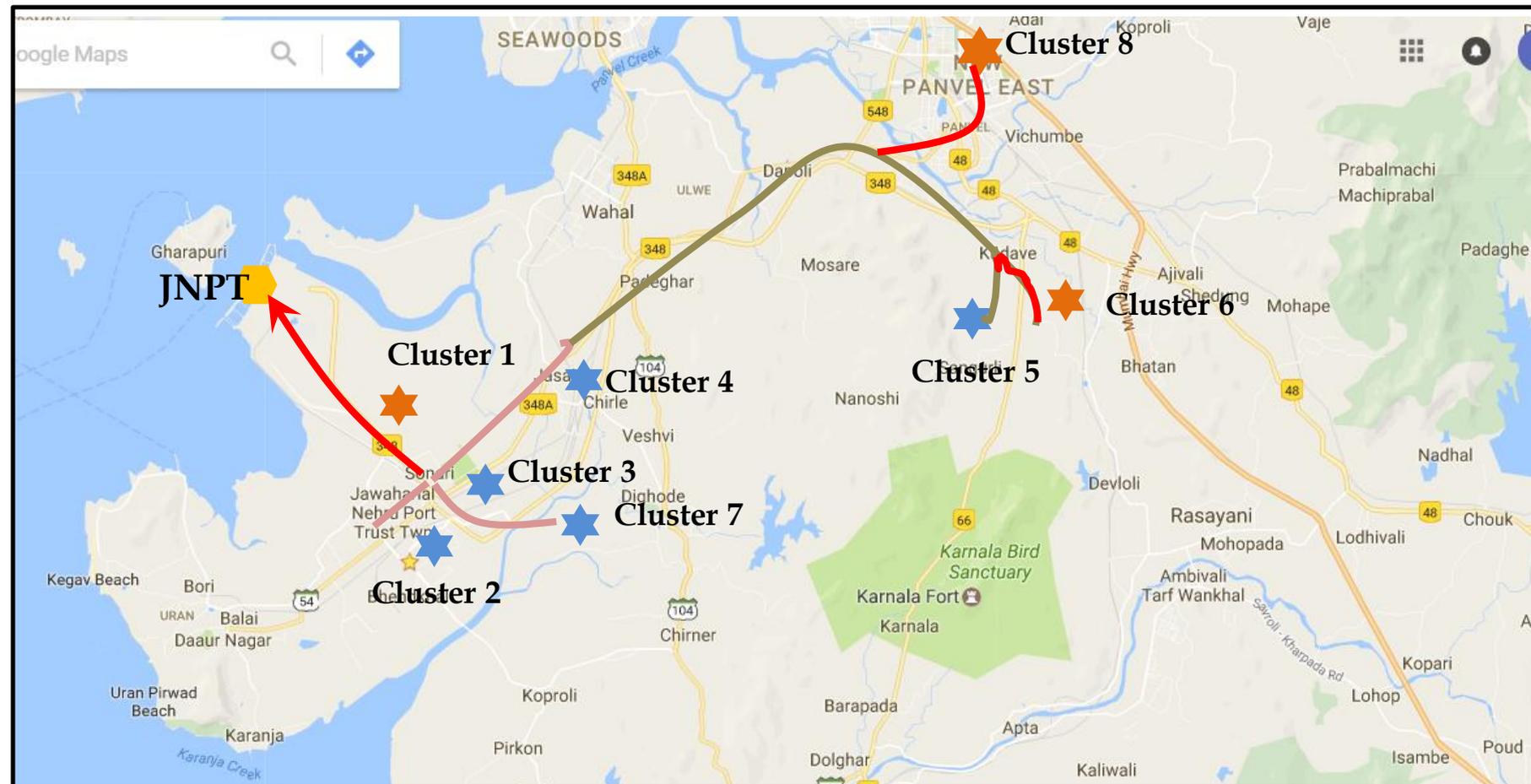
NSICT		
Port Dwell time based on transit type		
Apr'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	53.5 hrs	47.5 hrs
Port Dwell time based on container type		
Apr'20	Laden Containers	Empty Containers
Dwell time (in hrs)	42.4 hrs	-

NSIGT		
Port Dwell time based on transit type		
Apr'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	76.9 hrs	70.4 hrs
Port Dwell time based on container type		
Apr'20	Laden Containers	Empty Containers
Dwell time (in hrs)	74.6 hrs	-

BMCT		
Port Dwell time based on transit type		
Apr'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	69.6 hrs
Port Dwell time based on container type		
Apr'20	Laden Containers	Empty Containers
Dwell time (in hrs)	79.8 hrs	73.8 hrs

# JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of Apr'20



## Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 6	Salva apta rd area, Bangalore highway

## Clusters without bottleneckz

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
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 :-

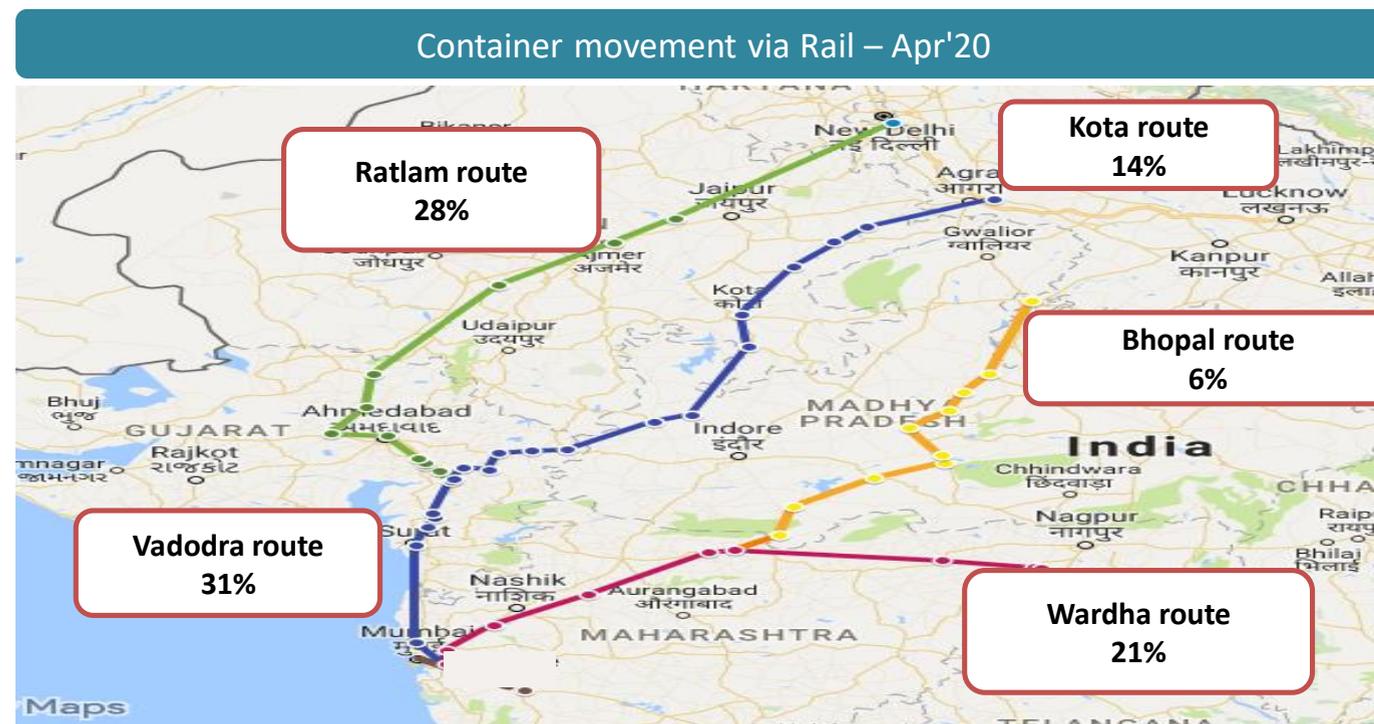
**BMCT Terminal**

**Congestion Level**  
Export 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

JNPT Port	
Route	Percentage of Container Movement
Vadodra Route	31%
Ratlam Route	28%
Wardha Route	21%
Kota Route	14%
Bhopal Route	6%

The map shows the volume wise container movement through different railway routes in export cycle for Apr'20

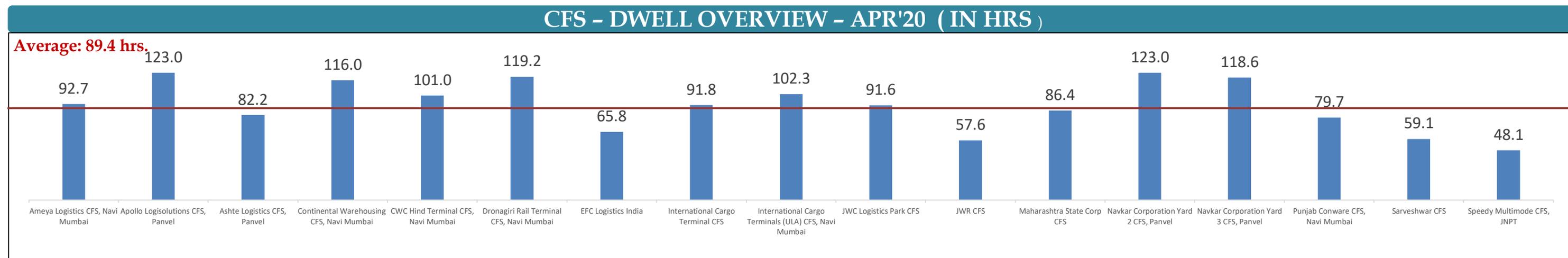


# CFS and ICD Performance

## JNPT region CFS : CFS DWELL TIME ANALYSIS

Below table and graphs show the dwell time of the respective CFSs for the month of Apr'20

CFS Dwell Time (in hrs.)					
CFS	Mar'20	Apr'20	CFS	Mar'20	Apr'20
Ameya Logistics CFS, Navi Mumbai	78.8	92.7	JWC Logistics Park CFS	74.2	91.6
Apollo Logisolutions CFS, Panvel	86.5	123.0	JWR CFS	59.7	57.6
Ashte Logistics CFS, Panvel	86.6	82.2	Maharashtra State Corp CFS	51.8	86.4
Continental Warehousing CFS, Navi Mumbai	72.4	116.0	Navkar Corporation Yard 2 CFS, Panvel	96.8	123.0
CWC Hind Terminal CFS, Navi Mumbai	91.9	101.0	Navkar Corporation Yard 3 CFS, Panvel	76.3	118.6
Dronagiri Rail Terminal CFS, Navi Mumbai	48.3	119.2	Punjab Conware CFS, Navi Mumbai	67.3	79.7
EFC Logistics India	82.0	65.8	Sarveshwar CFS	97.3	59.1
International Cargo Terminal CFS	83.4	91.8	Speedy Multimode CFS, JNPT	66.0	48.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	81.2	102.3			

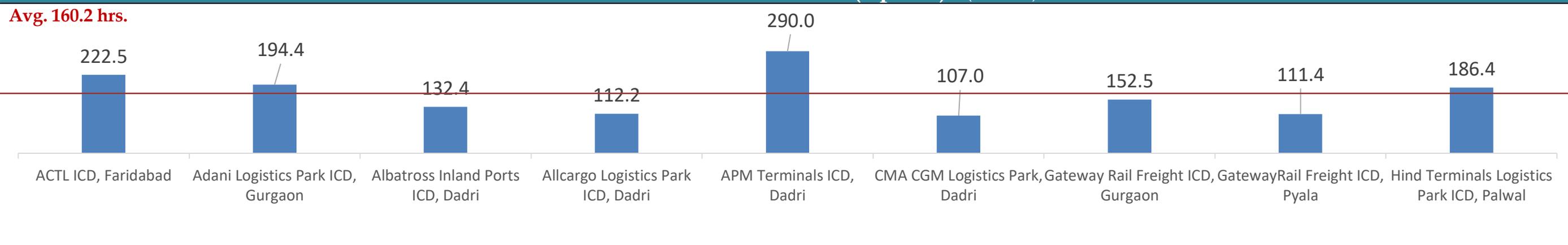


## ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Mar'20 (in hrs)	Apr'20 (in hrs)
ACTL ICD, Faridabad	144.3	222.5
Adani Logistics Park ICD, Gurgaon	132.1	194.4
Albatross Inland Ports ICD, Dadri	133.2	132.4
Allcargo Logistics Park ICD, Dadri	153.9	112.2
APM Terminals ICD, Dadri	166.2	290.0
CMA CGM Logistics Park, Dadri	129.8	107.0
Gateway Rail Freight ICD, Gurgaon	86.0	152.5
GatewayRail Freight ICD, Pyala	118.7	111.4
Hind Terminals Logistics Park ICD, Palwal	189.7	186.4

### ICD - DWELL OVERVIEW (Apr'20) (In Hrs)

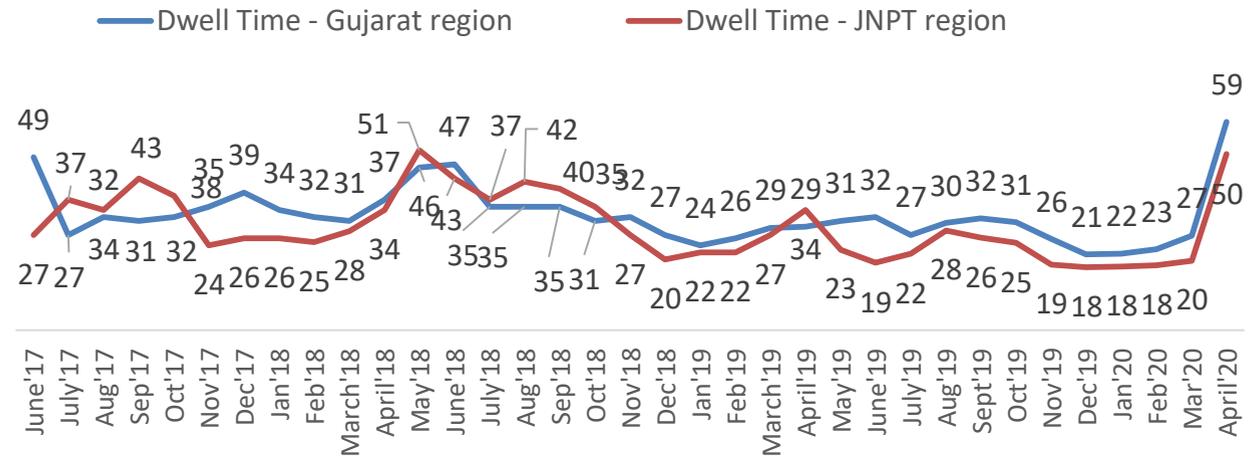


# Trend Analysis

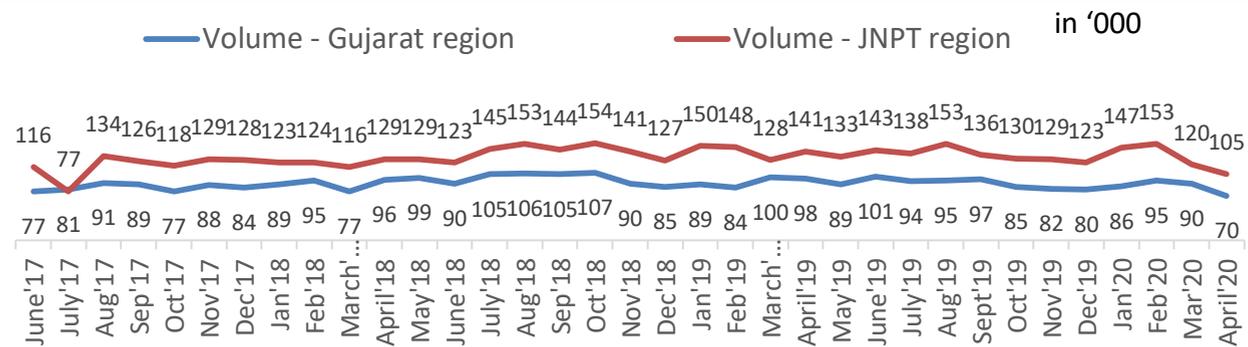
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Apr'20

## Import Cycle

### Dwell Time – Gujarat Region Vs JNPT Region



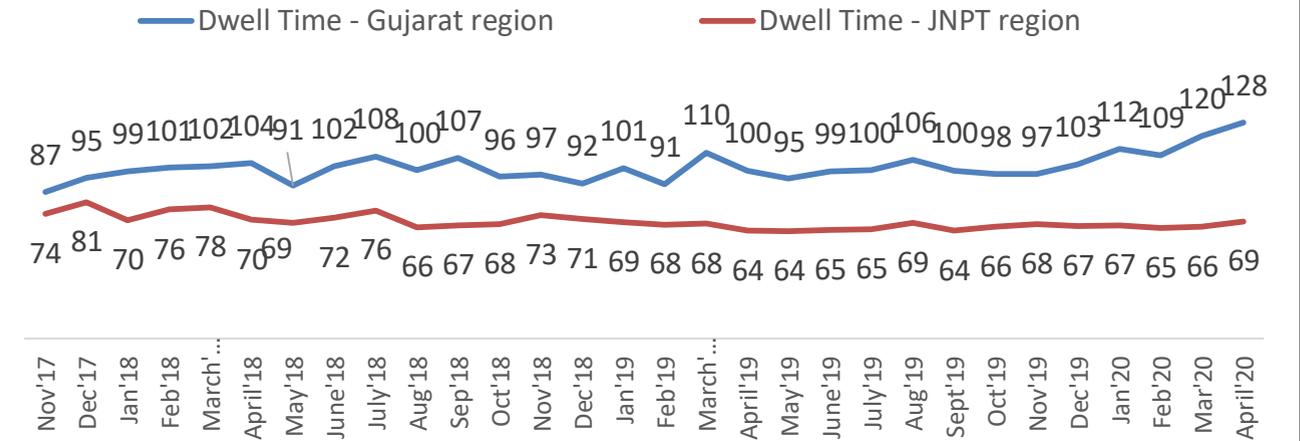
### Volume – Gujarat Region Vs JNPT Region



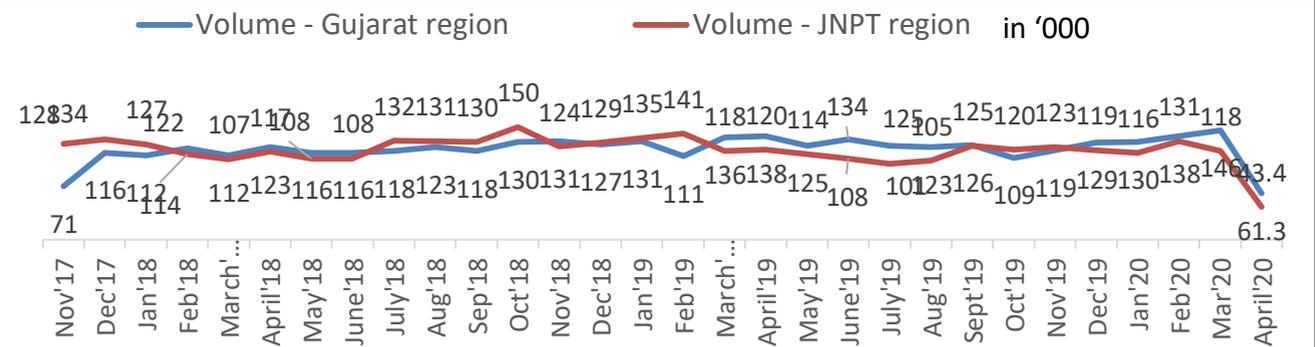
**In Import cycle, for the month of Apr'20 JNPT port has catered 50% more volume than APSEZ Port, and has maintained 16% lower dwell time than APSEZ Port**

## Export Cycle

### Dwell Time – Gujarat Region Vs JNPT Region



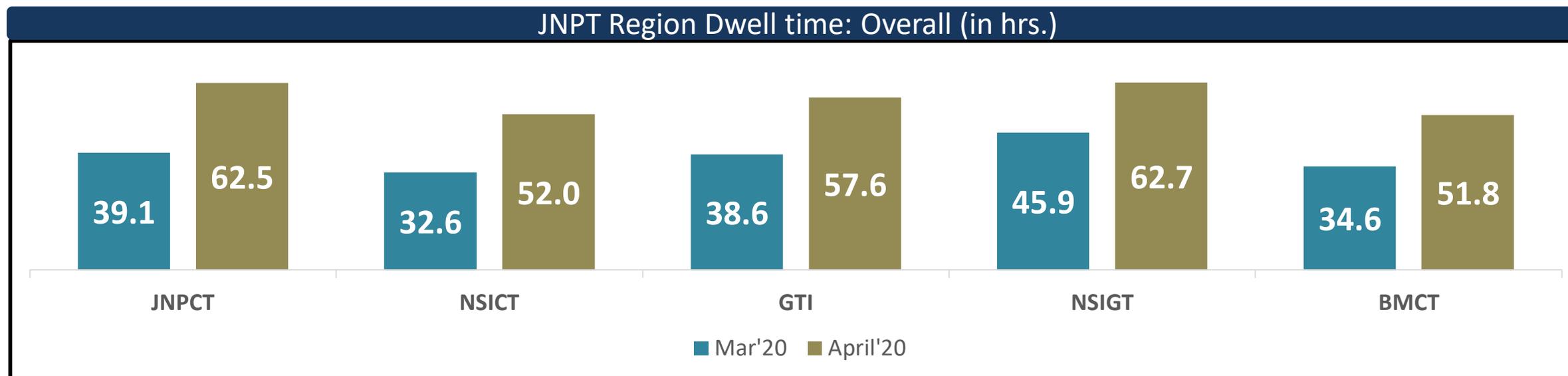
### Volume – Gujarat Region Vs JNPT Region



**In Export cycle, for the month Apr'20 JNPT port catered 29% more volume than APSEZ Port, and has maintained 46% lower dwell time than APSEZ Port**

## 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



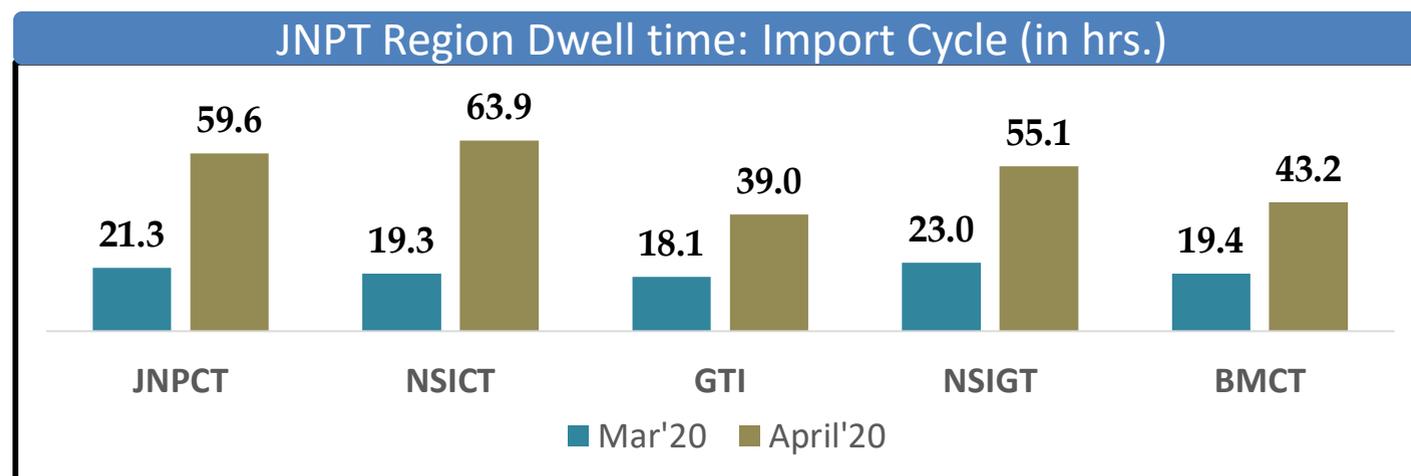
The overall JNPT region average dwell time for Apr'20 is 57.3 hrs as compared to 38.4 hrs in Mar'20

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of April'20



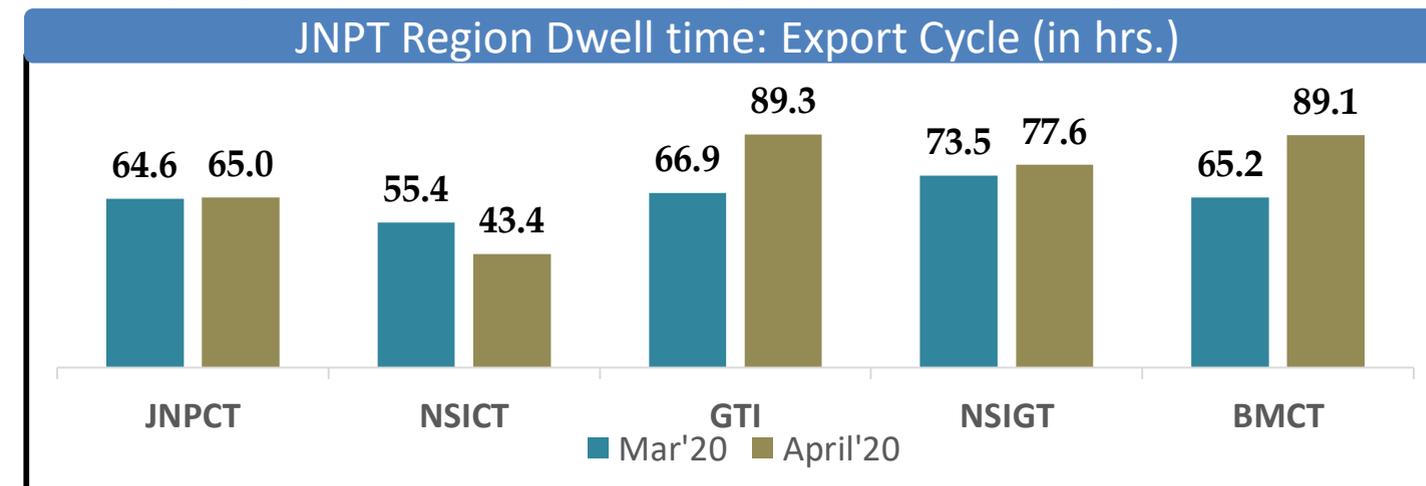
### JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Apr'20 is 49.8 hrs.



### JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Apr'20 is 69.4 hrs.



# ANNEXURE

# Container movement around JNPT Port terminal region via Truck

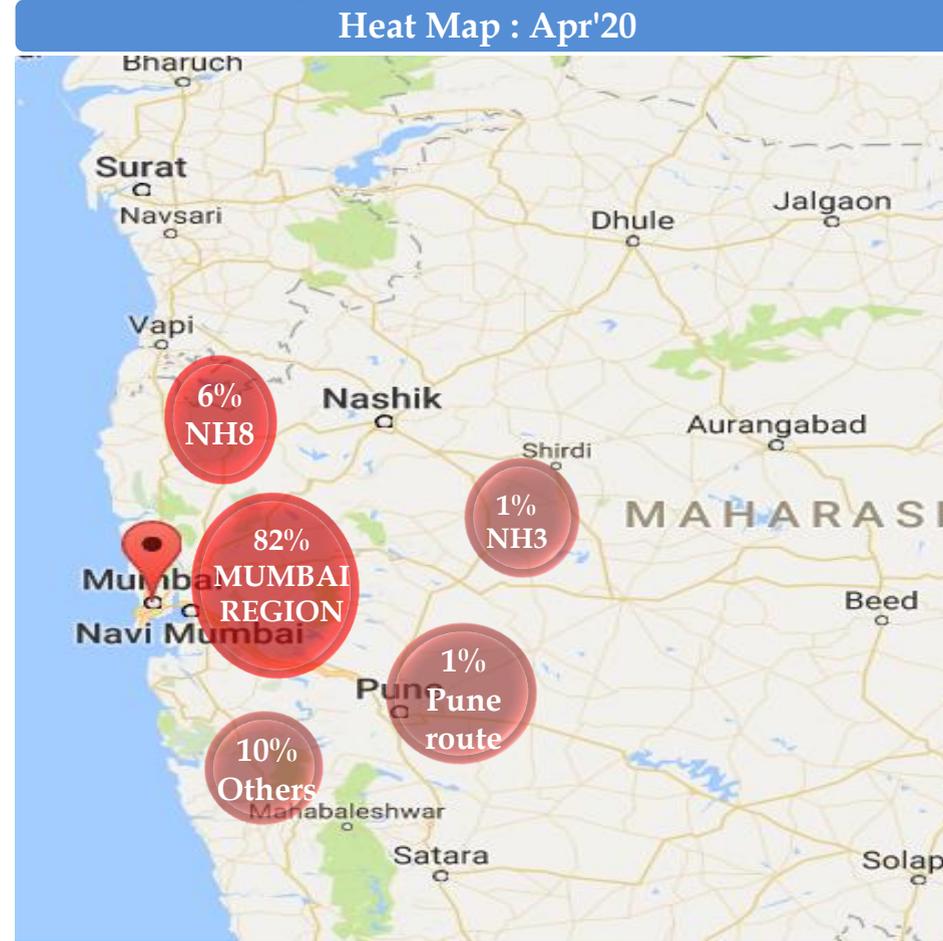
## HEAT MAP : GTI Port Terminal



Region	Mar'20	Apr'20
Mumbai region	57%	80%
NH3	5%	2%
Pune	7%	2%
NH8	20%	6%
others	10%	10%

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

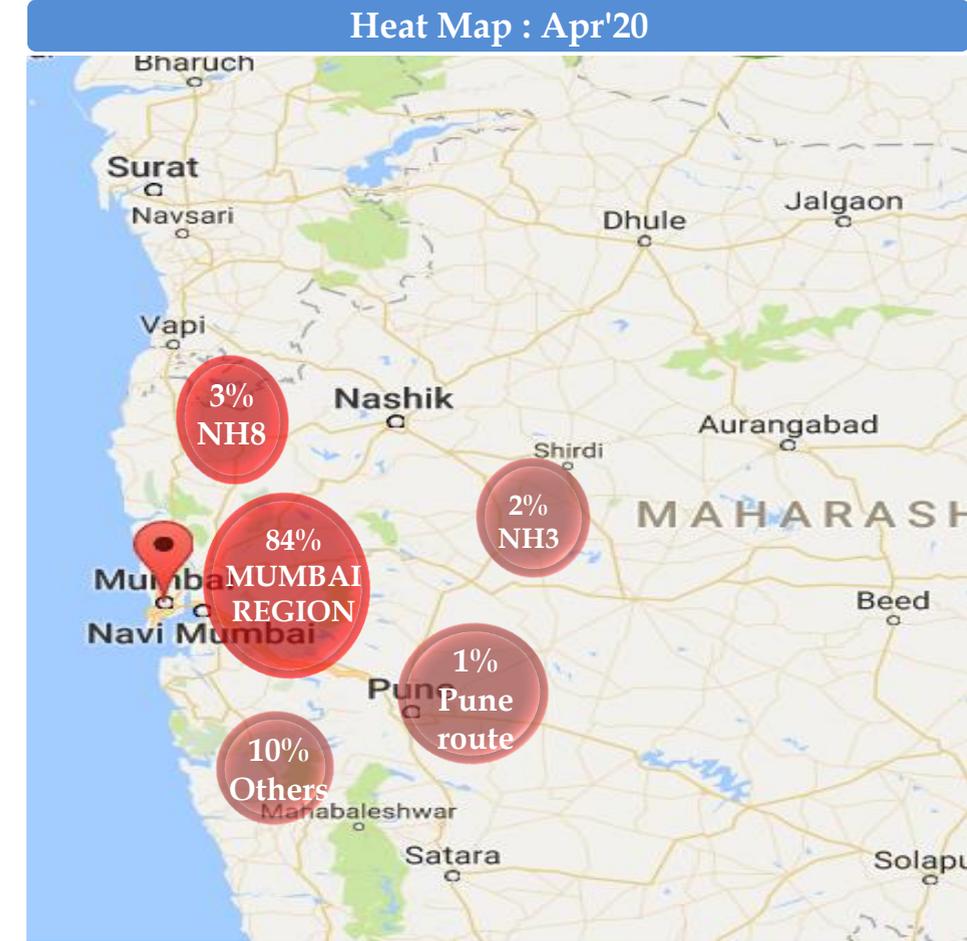
## HEAT MAP : JNPCT Port Terminal



Region	Mar'20	Apr'20
Mumbai region	53%	82%
NH3	3%	1%
Pune	7%	1%
NH8	27%	6%
others	10%	10%

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

## HEAT MAP : NSICT Port Terminal



Region	Mar'20	Apr'20
Mumbai region	61%	84%
NH3	4%	2%
Pune	7%	1%
NH8	18%	3%
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	Mar'20	Apr'20
Mumbai region	56%	83%
NH3	5%	1%
Pune	8%	2%
NH8	21%	4%
others	10%	10%

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

## HEAT MAP : BMCT Port Terminal



Region	Mar'20	Apr'20
Mumbai region	64%	84%
NH3	4%	1%
Pune	6%	1%
NH8	16%	4%
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 Apr'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	1.4	3.9	22.6	-	2.0
Punjab Conware CFS, Navi Mumbai	2.1	3.2	1.7	1.5	2.5
JWC Logistics Park CFS	4.4	2.8	3.4	7.4	4.7
CWC Hind Terminal CFS, Navi Mumbai	2.2	2.0	1.8	-	2.2
Dronogiri Rail Terminal CFS, Navi Mumbai	11.0	3.1	2.1	8.8	1.3
Navkar Corporation Yard 2 CFS, Panvel	3.7	4.8	4.9	2.4	6.3
Vaishno Logistics CFS, Navi Mumbai	2.1	4.1	1.5	-	2.8
Speedy Multimode CFS, JNPT	1.9	4.0	4.2	2.5	1.8
Balmer & Lawrie CFS, Navi Mumbai	4.2	2.9	6.9	-	47.6
Navkar Corporation Yard 3 CFS, Panvel	14.2	35.4	3.9	4.6	35.9
Ashte Logistics CFS, Panvel	2.5	5.3	1.9	7.4	3.0
Continental Warehousing CFS, Navi Mumbai	3.6	2.0	1.4	1.5	1.8
SBW Logistics CFS, Navi Mumbai	-	-	5.2	26.0	-
Maharashtra State Corp CFS	2.9	3.5	1.7	1.6	2.9
Internation Cargo Terminal CFS	1.5	4.4	1.6	1.2	1.8
Seabird CFS, Navi Mumbai	-	1.7	-	15.1	2.8
Apollo Logisolutions CFS, Panvel	6.0	5.9	2.1	2.6	4.9
Ameya Logistics CFS, Navi Mumbai	2.1	3.9	1.8	2.0	2.1
Transindia Logistics Park, Navi Mumbai	5.0	1.8	1.4	1.5	2.8
Ocean Gate CFS, Panvel	3.4	4.7	2.7	2.3	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.8	6.1	2.0	2.1	1.4
Indev Logistics CFS, Panvel	5.6	15.5	3.6	2.8	6.1
APM (Maersk India) CFS, Navi Mumbai	4.2	20.0	-	1.1	-

# 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	Apr'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.9
APM (Maersk India) CFS, Navi Mumbai	2.6
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	2.2
Transindia Logistics Park, Navi Mumbai	2.8
Indev Logistics CFS, Panvel	5.2
Navkar Corporation Yard 3 CFS, Panvel	5.9
Seabird CFS, Navi Mumbai	2.6
Balmer & Lawrie CFS, Navi Mumbai	2.3
Ashte Logistics CFS, Panvel	2.3
Continental Warehousing CFS, Navi Mumbai	2.2
CWC Hind Terminal CFS, Navi Mumbai	2.6
Dronogiri Rail Terminal CFS, Navi Mumbai	2.3
Navkar Corporation Yard 1 CFS, Panvel	4.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.7
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	2.7
Apollo Logisolutions CFS, Panvel	3.9
Navkar Corporation Yard 2 CFS, Panvel	3.9
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	2.0
JWC Logistics Park CFS	3.0
SBW Logistics CFS, Navi Mumbai	6.9
Ocean Gate CFS, Panvel	2.7
Maharashtra State Corp CFS	2.0

## 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	Apr'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.8
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	1.7
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	2.9
Indev Logistics CFS, Panvel	7.1
Navkar Corporation Yard 3 CFS, Panvel	5.5
Seabird CFS, Navi Mumbai	2.9
Balmer & Lawrie CFS, Navi Mumbai	1.9
Ashte Logistics CFS, Panvel	2.3
Continental Warehousing CFS, Navi Mumbai	1.8
CWC Hind Terminal CFS, Navi Mumbai	1.6
Dronogiri Rail Terminal CFS, Navi Mumbai	2.2
Navkar Corporation Yard 1 CFS, Panvel	4.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	1.6
Apollo Logisolutions CFS, Panvel	4.0
Navkar Corporation Yard 2 CFS, Panvel	3.6
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	-
JWC Logistics Park CFS	2.9
SBW Logistics CFS, Navi Mumbai	14.2
Ocean Gate CFS, Panvel	2.6
Maharashtra State Corp CFS	2.0

# 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	Apr'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	4.4
APM (Maersk India) CFS, Navi Mumbai	3.1
Internation Cargo Terminal CFS	1.8
Ameya Logistics CFS, Navi Mumbai	2.3
Transindia Logistics Park, Navi Mumbai	3.2
Indev Logistics CFS, Panvel	7.3
Navkar Corporation Yard 3 CFS, Panvel	2.6
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	2.5
Ashte Logistics CFS, Panvel	2.1
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	2.4
Navkar Corporation Yard 1 CFS, Panvel	4.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	3.1
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	7.1
Navkar Corporation Yard 2 CFS, Panvel	3.1
Punjab Conware CFS, Navi Mumbai	2.8
Vaishno Logistics CFS, Navi Mumbai	-
JWC Logistics Park CFS	5.0
SBW Logistics CFS, Navi Mumbai	3.5
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	1.6

## 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	Apr'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.8
APM (Maersk India) CFS, Navi Mumbai	2.1
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.4
Indev Logistics CFS, Panvel	6.7
Navkar Corporation Yard 3 CFS, Panvel	2.5
Seabird CFS, Navi Mumbai	1.7
Balmer & Lawrie CFS, Navi Mumbai	2.1
Ashte Logistics CFS, Panvel	2.1
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	1.8
Navkar Corporation Yard 1 CFS, Panvel	2.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.6
Maersk Annex (APM)CFS, Navi Mumbai	2.4
Speedy Multimode CFS, JNPT	2.0
Apollo Logisolutions CFS, Panvel	3.7
Navkar Corporation Yard 2 CFS, Panvel	4.8
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	-
JWC Logistics Park CFS	2.3
SBW Logistics CFS, Navi Mumbai	14.0
Ocean Gate CFS, Panvel	2.7
Maharashtra State Corp CFS	2.1

## 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	Apr'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.4
Internation Cargo Terminal CFS	2.0
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	5.2
Navkar Corporation Yard 3 CFS, Panvel	2.3
Seabird CFS, Navi Mumbai	3.2
Balmer & Lawrie CFS, Navi Mumbai	1.4
Ashte Logistics CFS, Panvel	2.1
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	1.7
Navkar Corporation Yard 1 CFS, Panvel	3.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.5
Maersk Annex (APM)CFS, Navi Mumbai	2.9
Speedy Multimode CFS, JNPT	1.5
Apollo Logisolutions CFS, Panvel	3.4
Navkar Corporation Yard 2 CFS, Panvel	4.6
Punjab Conware CFS, Navi Mumbai	2.1
Vaishno Logistics CFS, Navi Mumbai	-
JWC Logistics Park CFS	2.6
SBW Logistics CFS, Navi Mumbai	5.6
Ocean Gate CFS, Panvel	2.7
Maharashtra State Corp CFS	2.7

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 Apr'20				
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	2.7	2.7
Cluster 2	6	13	2.6	2.6
Cluster 3	6	11	2.3	2.3
Cluster 4	1	13	2.0	2.0
Cluster 5	2	25	2.8	2.8
Cluster 6	6	25	4.3	4.3
Cluster 7	4	12	2.2	2.2
Cluster 8	1	34	6.9	6.9

## CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Apr'20				
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	1.6	1.6
Cluster 2	6	13	1.9	1.9
Cluster 3	6	11	2.2	2.2
Cluster 4	1	13	0.0	0.0
Cluster 5	2	25	2.8	2.8
Cluster 6	6	25	4.1	4.1
Cluster 7	4	12	1.8	1.8
Cluster 8	1	34	14.2	14.2

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

GTI terminal for month of Apr'20				
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	1.8
Cluster 2	6	13	2.5	2.5
Cluster 3	6	11	2.3	2.3
Cluster 4	1	13	-	-
Cluster 5	2	25	4.1	4.1
Cluster 6	6	25	3.7	3.7
Cluster 7	4	12	2.3	2.3
Cluster 8	1	34	3.5	3.5

## CFS Cluster : NSIGT Terminal

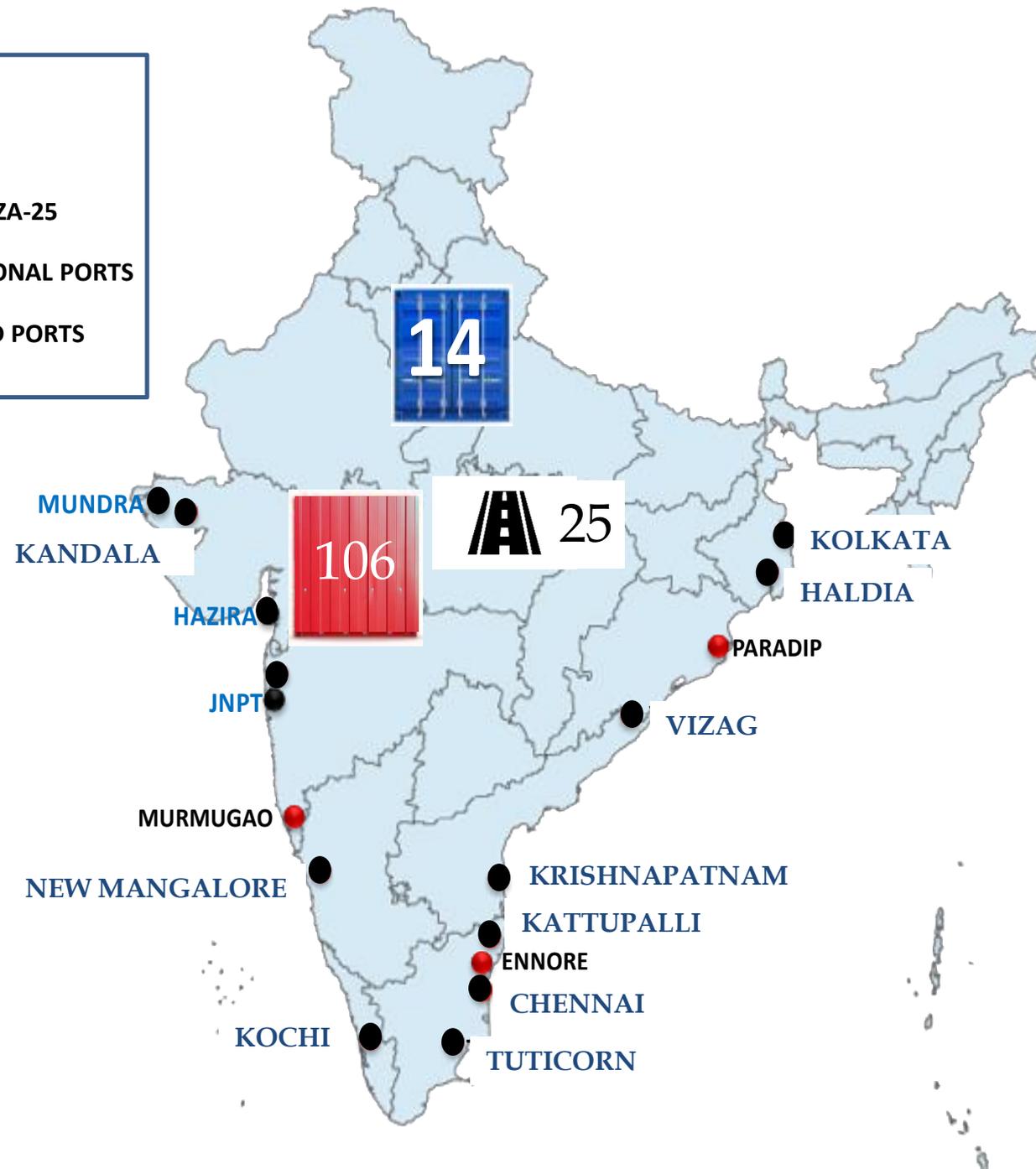
JNPCT terminal for month of Apr'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.0	2.0
Cluster 2	6	13	2.1	2.1
Cluster 3	6	11	2.0	2.0
Cluster 4	1	13	-	-
Cluster 5	2	25	2.5	2.5
Cluster 6	6	25	3.1	3.1
Cluster 7	4	12	1.9	1.9
Cluster 8	1	34	14.0	14.0

## CFS Cluster : BMCT Terminal

JNPCT terminal for month of Apr'20				
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	1.5	1.5
Cluster 2	6	13	2.4	2.4
Cluster 3	6	11	2.0	2.0
Cluster 4	1	13	-	-
Cluster 5	2	25	2.6	2.6
Cluster 6	6	25	3.3	3.3
Cluster 7	4	12	2.0	2.0
Cluster 8	1	34	5.6	5.6

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><b>Cluster 1</b> (JNPT Area)</p> <ul style="list-style-type: none"> <li>Speedy Multimode CFS, JNPT</li> </ul>	<p><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><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><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><b>Cluster 4</b> (Chirle area, JNPT road)</p> <ul style="list-style-type: none"> <li>Vaishno Logistics CFS, Navi Mumbai</li> </ul>	<p><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><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><b>Cluster 8</b> SBW</p>	

## List of CFS name used in CFS Performance Index

1	Ameya Logistics CFS, Navi Mumbai
2	Apollo Logisolutions CFS, Panvel
3	Ashte Logistics CFS, Panvel
4	Continental Warehousing CFS, Navi Mumbai
5	CWC Hind Terminal CFS, Navi Mumbai
6	Dronagiri Rail Terminal CFS, Navi Mumbai
7	EFC Logistics India
8	International Cargo Terminal CFS
9	International Cargo Terminals (ULA) CFS, Navi Mumbai
10	JWC Logistics Park CFS
11	JWR CFS
12	Maharashtra State Corp CFS
13	Navkar Corporation Yard 2 CFS, Panvel
14	Navkar Corporation Yard 3 CFS, Panvel
15	Punjab Conware CFS, Navi Mumbai
16	Sarveshwar CFS
17	Speedy Multimode CFS, JNPT



**THANK YOU**