Executive Summary

Terminal wise Dwell Time Performance – Snapshot

| Import Cycle				Export Cycle		
Port	June'20 (in hrs)	July'20 (in hrs)		Port	June'20 (in hrs)	July'20 (in hrs)
JNPCT	43.5	24.9		JNPCT	65.1	68.3
NSICT	51.7	21.9		NSICT	59.0	62.6
GTI	28.1	15.4		GTI	76.1	98.6
NSIGT	79.9	20.9		NSIGT	75.6	59.5
BMCT/PSA	33.4	27.4		BMCT/PSA	70.4	76.1

## Critical Incident Summary

Jawaharlal Nehru Port Terminals

- Truck bound container handling performance in Import Cycle has improved which has also led to improvement in transit performance between Port and CFS and Container handling performance at CFS

Month	Export cycle – Train bound Dwell Time	Port to CFS – Transit Time	CFS Dwell Time
July'20	20.6 hrs	2.3 hrs	87.5 hrs
June'20	32.5 hrs (36%)	2.5 hrs (9%)	88.9 hrs (7%)

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	June'20 (in hrs)	July'20 (in hrs)
Overall	36.6	30.6
Truck	34.3	30.7
Train	48.2	29.6

EXPORT

Mode	June'20 (in hrs)	July'20 (in hrs)
Overall	92.5	98.8
Truck	92.2	96.8
Train	95.3	109.9

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

The marked entries showcase increase in performance in comparison to June'20

The marked entries showcase decrease in performance in comparison to June'20

Entity	June'20 (in hrs)	July'20 (in hrs)
CFS	95.7	88.2
ICD	140.1	118.6

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Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – July'20

Quadrant : II
Star performer

High ↑ Container Volume

Quadrant : I
Slow Bulk Movers

AICT

MICT

BMCT

GTI

ACMTTL   Dwell Time

low   High

AMCT

JNPCT

KICT

NSICT

AHPPL

NSIGT

low

Quadrant : III
High Potential

Quadrant : IV
Laggard
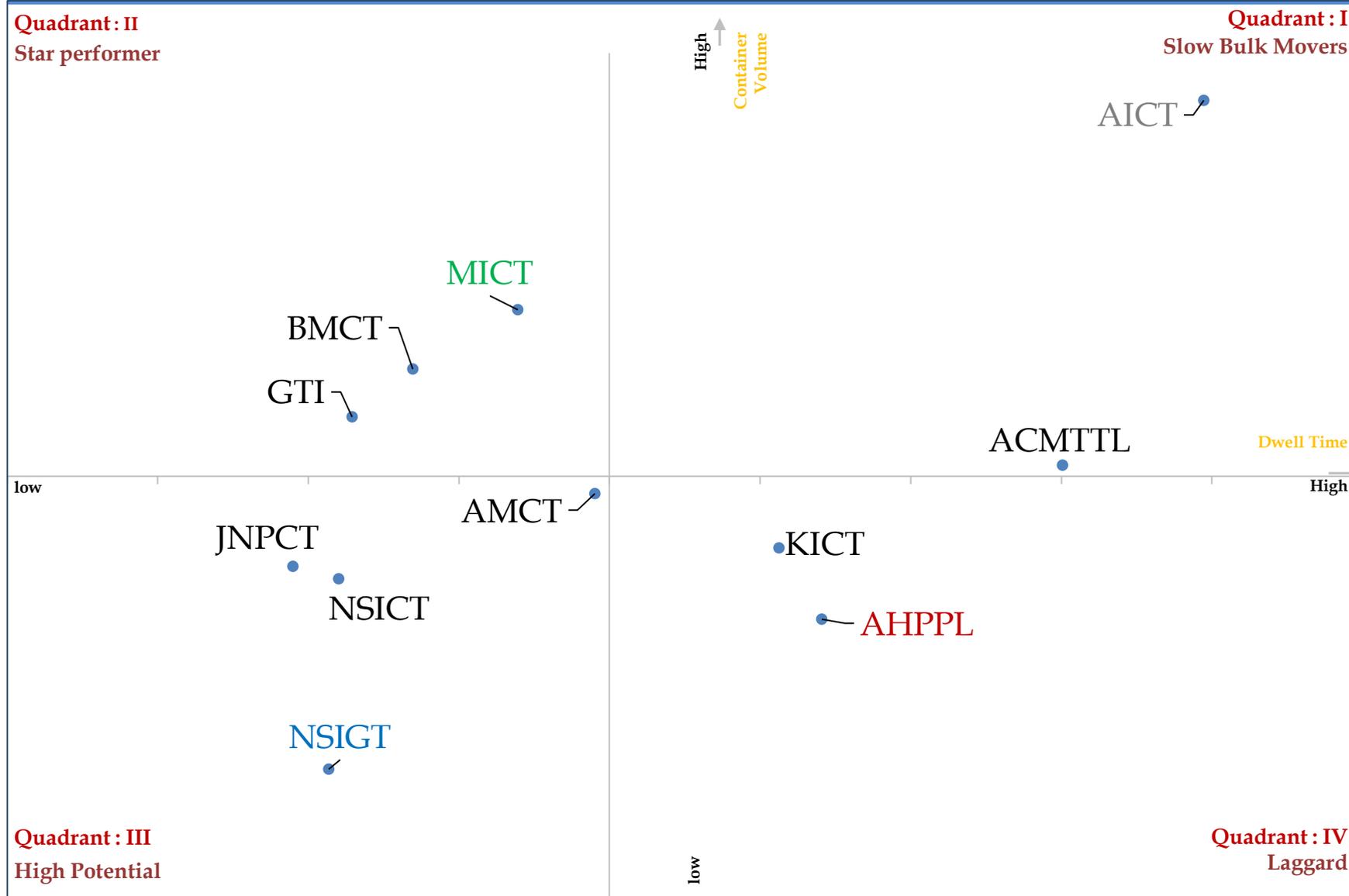
Performance benchmarking for Port Terminals covered under LDB project for July'20

Top Performing Terminal		
Mundra International Container Terminal (MICT)		
June'20	July'20	
60.6 hrs	58.7 hrs	⬆

Low Performing Terminal		
Adani Hazira Port Private Limited (AHPPL)		
June'20	July'20	
109.5 hrs	80.8 hrs	⬆

Note: The performance benchmarking is based on performance index

⬆⬇ The arrows depict increase/decrease in overall performance of the stakeholders in comparison to June'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 Transportation- JNPT Port Terminals

Container Lifecycle (Import Cycle) →

IMPORT

Port Dwell Time

Mode	June'20 (in hrs)	July'20 (in hrs)
Overall	37.6	21.8
Truck	32.5	20.6
Train	50.9	28.7

EXPORT

Mode	June'20 (in hrs)	July'20 (in hrs)
Overall	68.8	74.8
Truck	67.7	74.1
Train	73.5	81.3

Transit Time

Towards ICD — Station

Transit Cycle	June'20 (in hrs)	July'20 (in hrs)
Port to ICD	67.7	80.5
Port to CFS	2.5	2.3

Towards CFS

From ICD — Station

Transit Cycle	June'20 (in hrs)	July'20 (in hrs)
ICD to Port	63.2	76.6
CFS to Port	2.9	3.4

From CFS
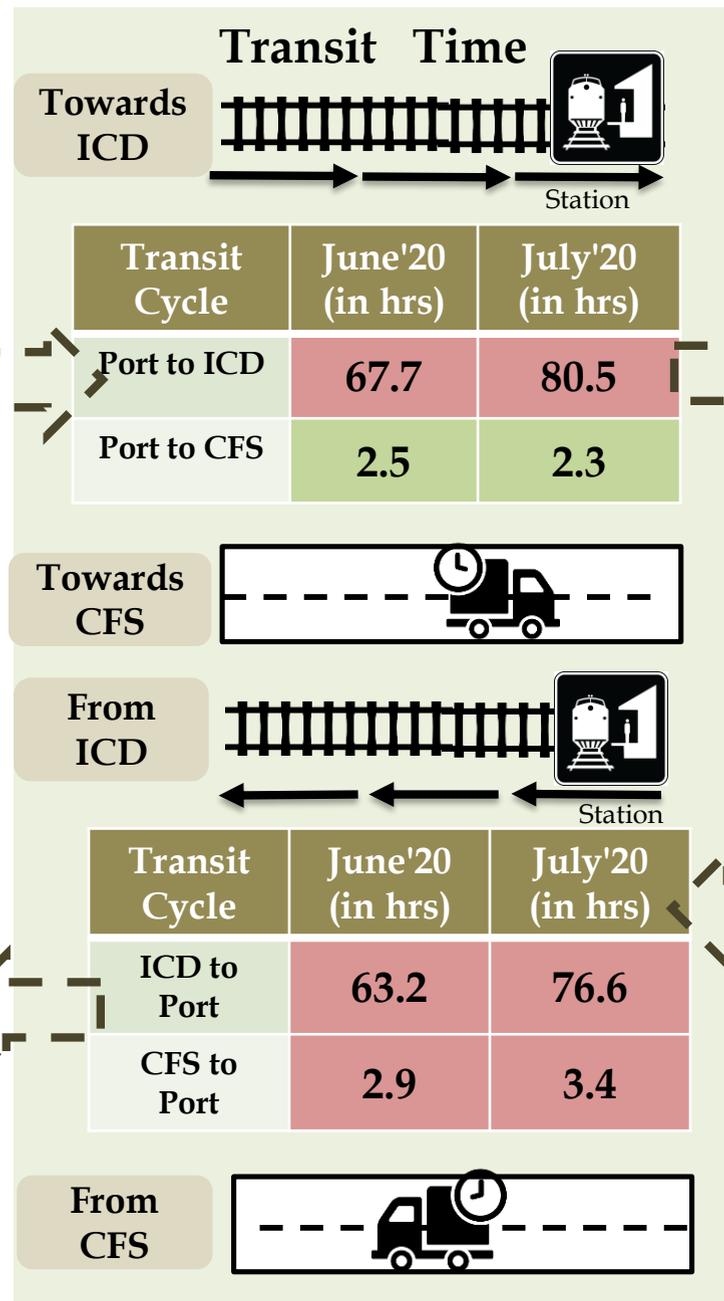
Container Freight Station (CFS) / Inland Container Depot (ICD) – Dwell Time

ICD   **CFS**
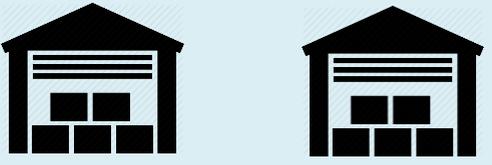
Entity	June'20 (in hrs)	July'20 (in hrs)
CFS	95.6	88.9
ICD	140.1	118.6

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	80%	20%
Export	80%	20%

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

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

Container Lifecycle (Export Cycle) ←

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (July'20 – in hrs)			Compared to June'20	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	21.8	42%	⬆
	Port Dwell Time for Truck Bound Containers	20.6	36%	⬆
	Port Dwell time for Train Bound Containers	28.7	43%	⬆
	Port Dwell time Direct Port Delivery (DPD) containers	43.1	20%	⬆
	Port Dwell time Containers bound for CFS	17.8	45%	⬆
	Port Dwell for Empty Containers	37.3	57%	⬆
	Port Dwell for Laden Containers	20.1	35%	⬆
TRANSIT TIME	Port to ICD	80.5	19%	⬇
	Port to CFS	2.3	9%	⬆

EXPORT CYCLE DWELL TIME (July'20– in hrs)			Compared to June'20	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	74.8	9%	⬇
	Port Dwell Time for Truck Bound Containers	74.1	9%	⬇
	Port Dwell time for Train Bound Containers	81.3	11%	⬇
	Port Dwell time Direct Port Entry (DPE) containers	77.3	8%	⬇
	Port Dwell time Containers bound from CFS	70.7	20%	⬇
	Port Dwell for Empty Containers	76.5	7%	⬇
	Port Dwell for Laden Containers	72.5	5%	⬇
TRANSIT TIME	ICD to Port	76.6	21%	⬇
	CFS to Port	3.4	17%	⬇

⬆⬇ The arrows depict increase/decrease in performance of the stakeholders in comparison to June'20

JNPT Region: Parking Plaza Dwell Time Analysis

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	June'20 (in hrs)	July'20 (in hrs)
Overall Parking Plaza	5.6	6.2

Parking Plaza	June'20 (in hrs)	July'20 (in hrs)
APM-GTI Parking Plaza	5.4	6.2
JNPCT Parking Plaza	5.7	5.7
NSIGT Parking Plaza	5.9	6.3

Container Handled: Day wise (July'20)

Parking Plaza	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
APM-GTI Parking Plaza	48%	47%	5%
JNPCT Parking Plaza	53%	44%	3%
NSIGT Parking Plaza	47%	50%	3%

Parking Plaza Gate Out – Terminal In

Mode	June'20 (in hrs)	July'20 (in hrs)
Overall Parking Plaza to JNPT Port	1.7	2.0

Port	June'20 (in hrs)	July'20 (in hrs)
JNPCT	2.1	2.7
NSICT	1.2	1.1
GTI	1.6	1.5
NSIGT	1.1	1.0
BMCT	2.6	4.2

Container Handled: Day wise (July'20)

Port Terminals	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPCT	75%	23%	2%
NSICT	89%	10%	1%
GTI	92%	7%	1%
NSIGT	87%	11%	2%
BMCT	68%	31%	1%

CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

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CFS   **Performance Benchmarking**   **ICD**

Top Performing CFS		
JWR CFS		
June'20	July'20	
75.9 hrs	65.0 hrs	↑

Top Performing ICD		
Albatross Inland Ports ICD, Dadri		
June'20	July'20	
105.3 hrs	77.8 hrs	↑

Low Performing CFS	
Take Care Logistics CFS	
July'20	
132.0 hrs	

Low Performing ICD		
ACTL ICD, Faridabad		
June'20	July'20	
133.0 hrs	137.3 hrs	↓

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

Performance Index: Western Corridor CFS

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High Container Volume

19

JWR CFS

1
11
2
10
13
6
8
9
12
16
17
7
22
3
25
20
21
18
24
4
15

Dwell Time
High

low
Quadrant : III
High Potential

Quadrant : IV
Laggard

Balmer & Lawrie CFS, Navi Mumbai

Take Care Logistics CFS

low
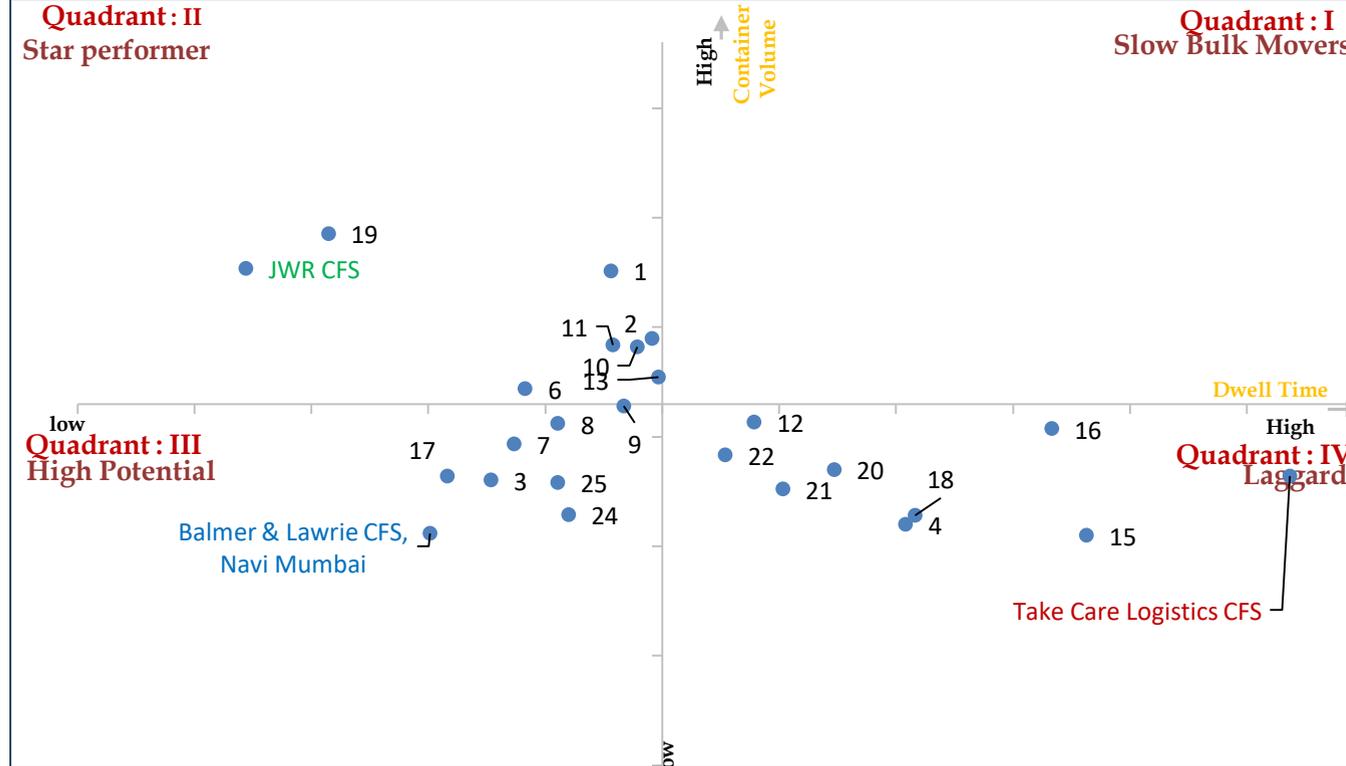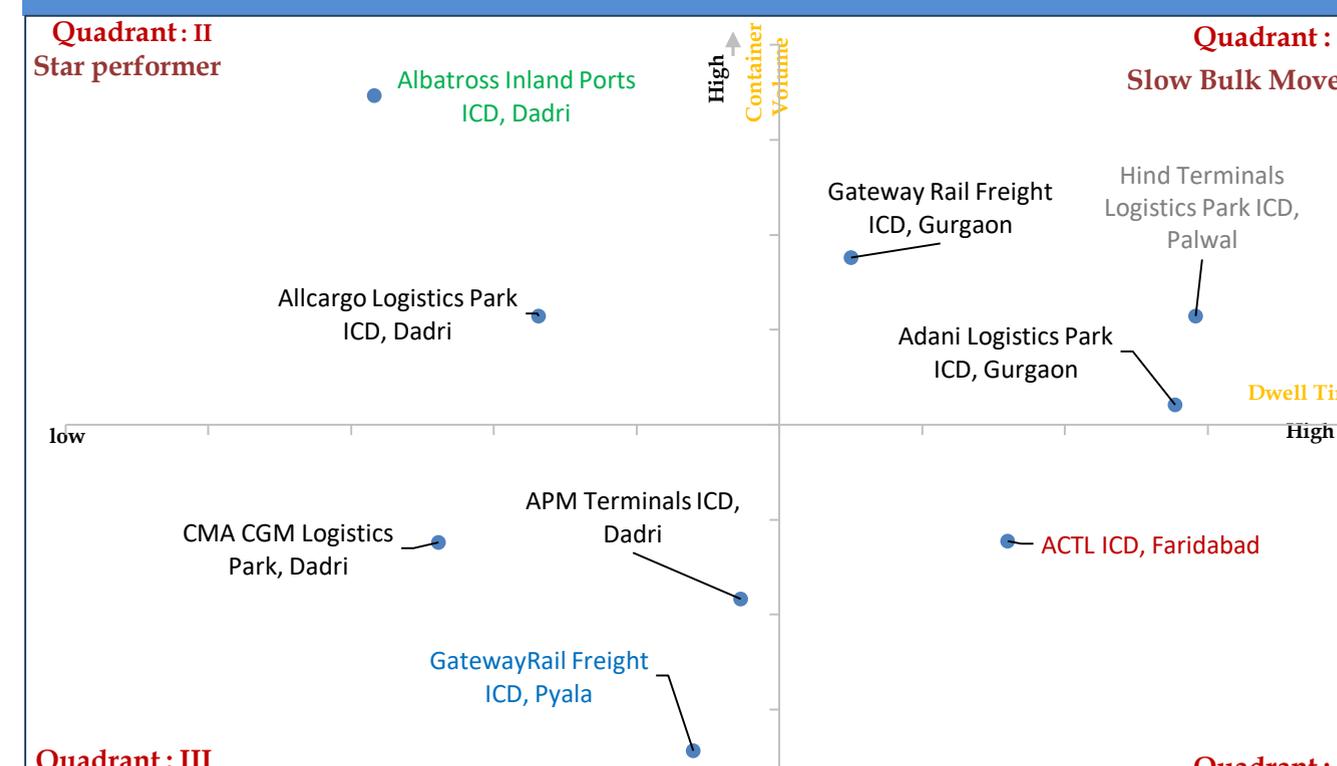
Kindly refer to Annexure section for the names of CFS

Performance Index: ICD

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High Container Volume

Albatross Inland Ports ICD, Dadri

Gateway Rail Freight ICD, Gurgaon

Hind Terminals Logistics Park ICD, Palwal

Allcargo Logistics Park ICD, Dadri

Adani Logistics Park ICD, Gurgaon

Dwell Time
High

low

APM Terminals ICD, Dadri

CMA CGM Logistics Park, Dadri

ACTL ICD, Faridabad

GatewayRail Freight ICD, Pyala

low

Quadrant : III
High Potential

Quadrant : IV
Laggard

Import Cycle Analysis

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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
(20% 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	June'20 (in hrs)	July'20 (in hrs)
JNPCT	45.3	21.7
NSICT	83.5	27.6
GTI	36.3	23.1
NSIGT	83.3	30.0
BMCT	55.1	37.3

Container Handled: Day wise (July'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	81%	19%	0%	0%
NSICT	80%	18%	1%	1%
GTI	78%	18%	3%	1%
NSIGT	65%	33%	2%	0%
BMCT	60%	32%	5%	3%
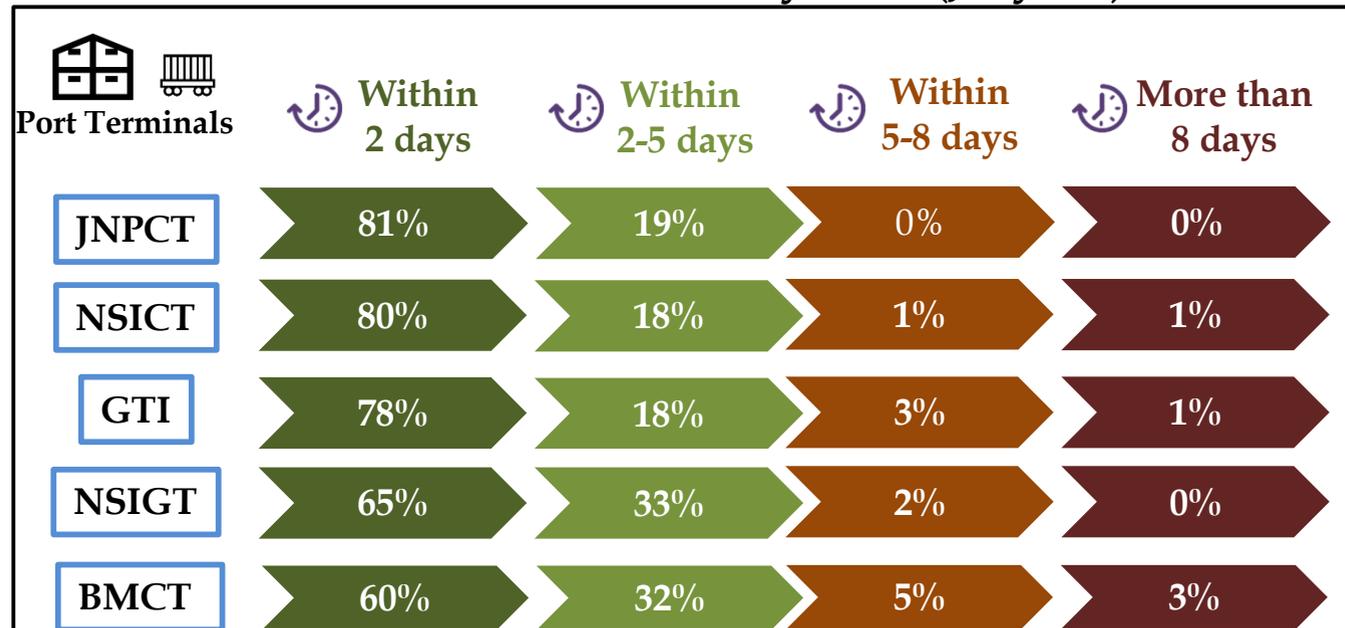
PORT IMPORT via TRUCK
(80% of total import volume at JNPT Port)

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	June'20 (in hrs)	July'20 (in hrs)
JNPCT	33.4	25.1
NSICT	43.6	21.0
GTI	25.4	14.2
NSIGT	77.9	19.9
BMCT	29.0	24.8

Container Handled: Day wise (July'20)
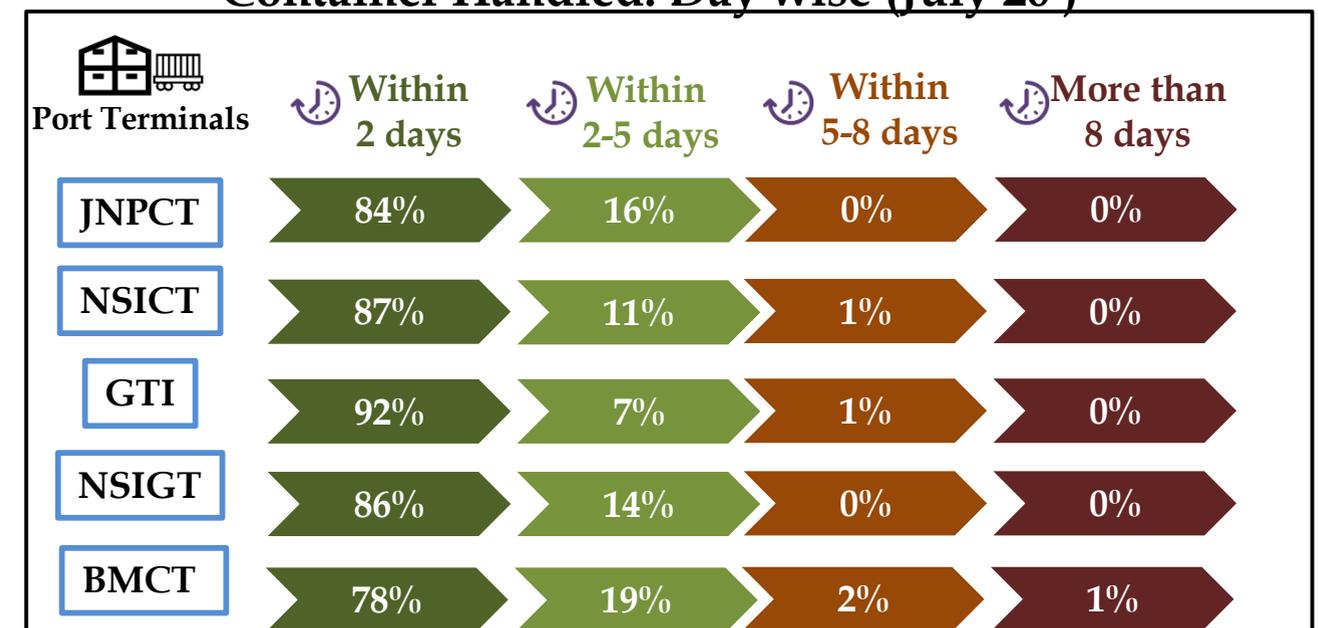
Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	84%	16%	0%	0%
NSICT	87%	11%	1%	0%
GTI	92%	7%	1%	0%
NSIGT	86%	14%	0%	0%
BMCT	78%	19%	2%	1%

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

July'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	56.1 hrs	24.3 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	24.3 hrs	31.7 hrs

GTI

Port Dwell time based on transit type

July'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	39.0 hrs	12.4 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	14.1 hrs	30.8 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

July'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	45.3 hrs	17.9 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	21.7 hrs	36.1 hrs

NSIGT

Port Dwell time based on transit type

July'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	-	-

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	20.1 hrs	30.1 hrs

BMCT

Port Dwell time based on transit type

July'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	42.8 hrs	19.6 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	23.5 hrs	53.5 hrs

JNPT Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPT region in Import Cycle in month of July'20
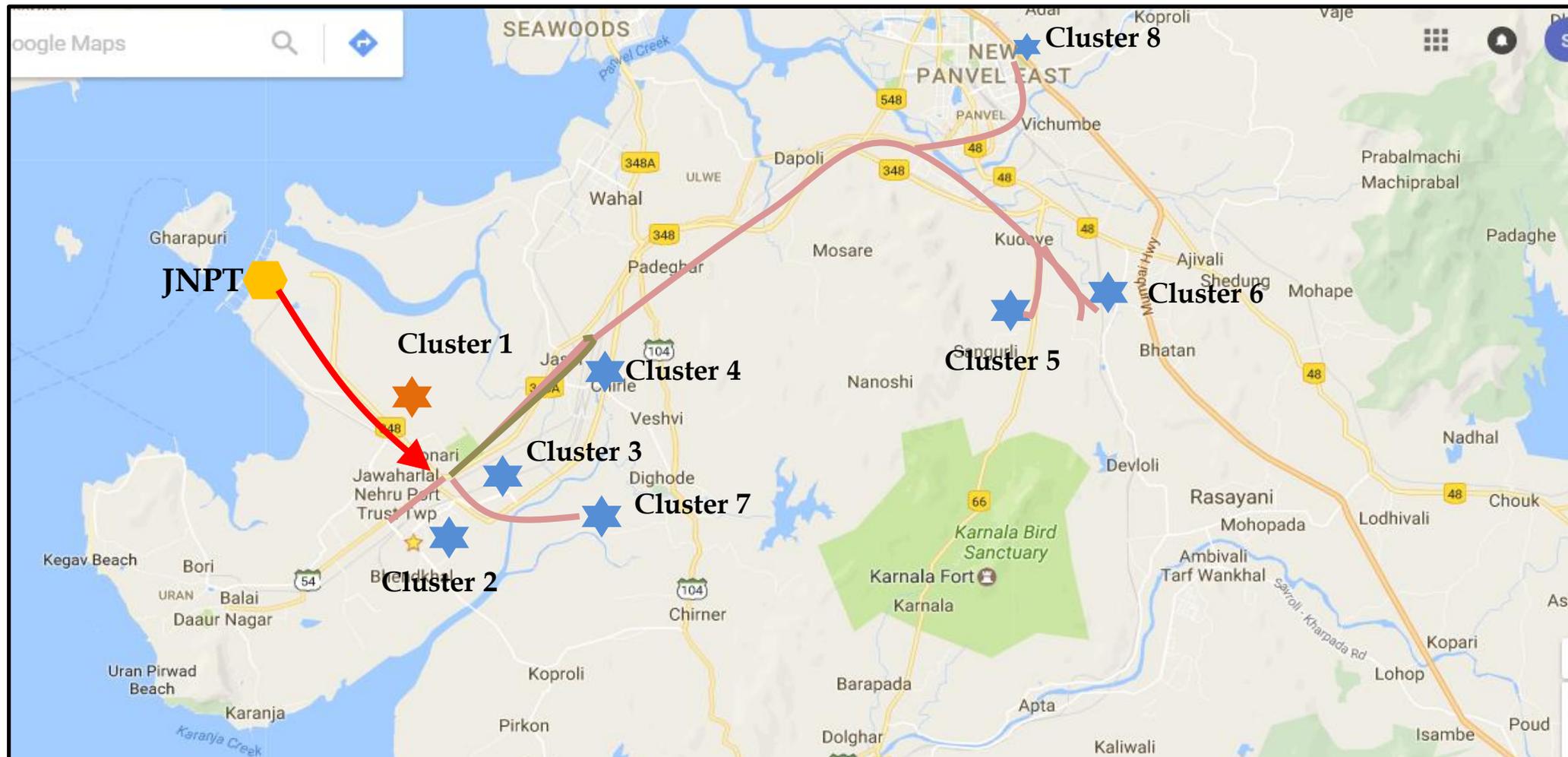
Clusters with bottleneck	
CLUSTER 1	JNPT Area

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** (red)
- **Medium Congestion** (olive)
- **Low Congestion** (pink)
- **Cluster with bottleneck** (orange star)
- **Cluster without bottleneck** (blue star)

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 Region Import Cycle: Container Movement

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

Truck
HEAT MAP : OVERALL MUMBAI REGION

Region	July'20
Mumbai region	57%
NH3	5%
Pune	8%
NH8	20%
others	10%

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

Heat Map via Truck: July'20
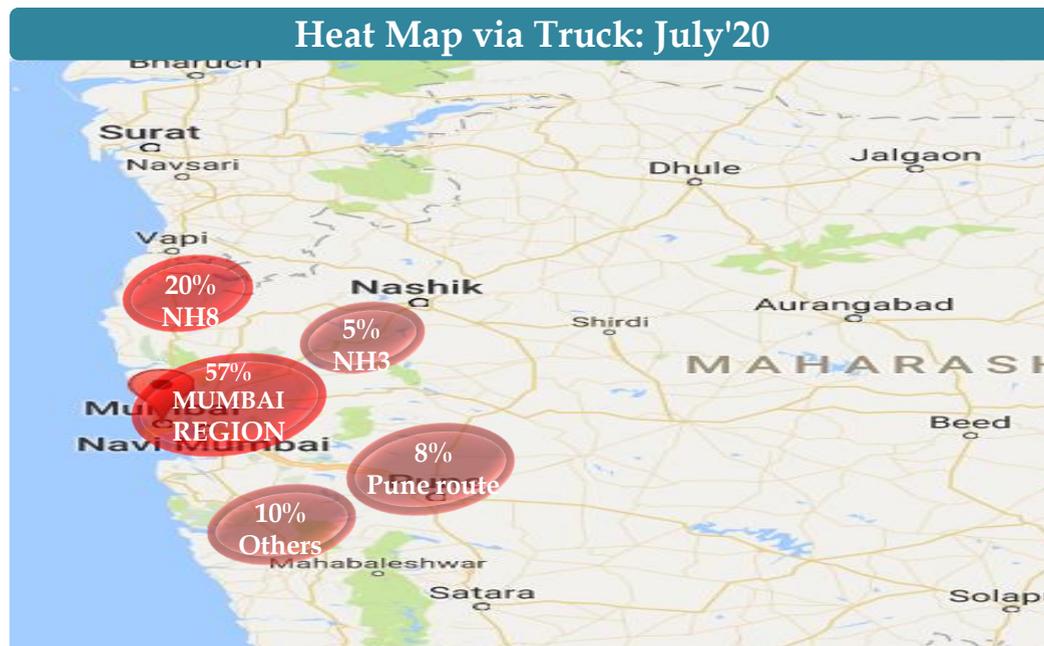
Train
VOLUME WISE CONTAINER MOVEMENT

Region	July'20
Vadodra Route	35%
Ratlam Route	29%
Wardha Route	13%
Kota Route	20%
Bhopal Route	3%

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

Container movement via Rail – July'20

Western Corridor Toll Plaza Analysis
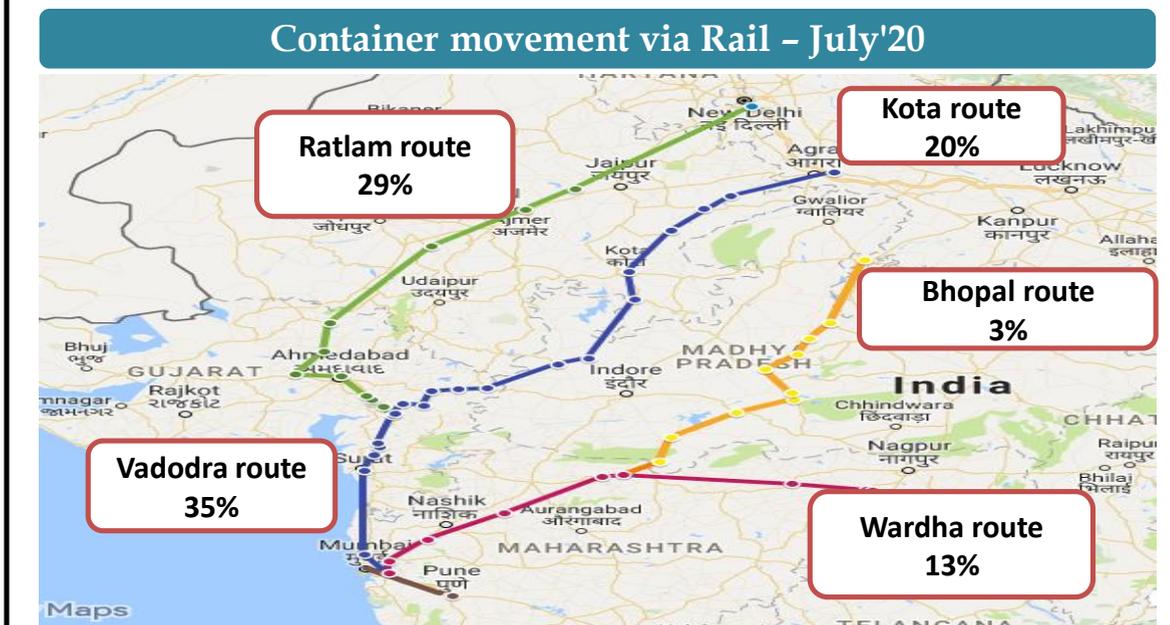
Avg. Speed between Toll Plazas

Source	Destination Toll Plaza	Inter Distance (Km)	June'20 (in km/hrs)	July'20 (in km/hrs)
JNPT	JNPT	Khaniwade	94	14.3	15.4
JNPT	Khalapur	60	3.3	7.6
Khaniwade	Charoti	50	30.8	31.8
Charoti	Boriach	126	29.2	28.2
Boriach	Bharthan	142	35.1	33.9
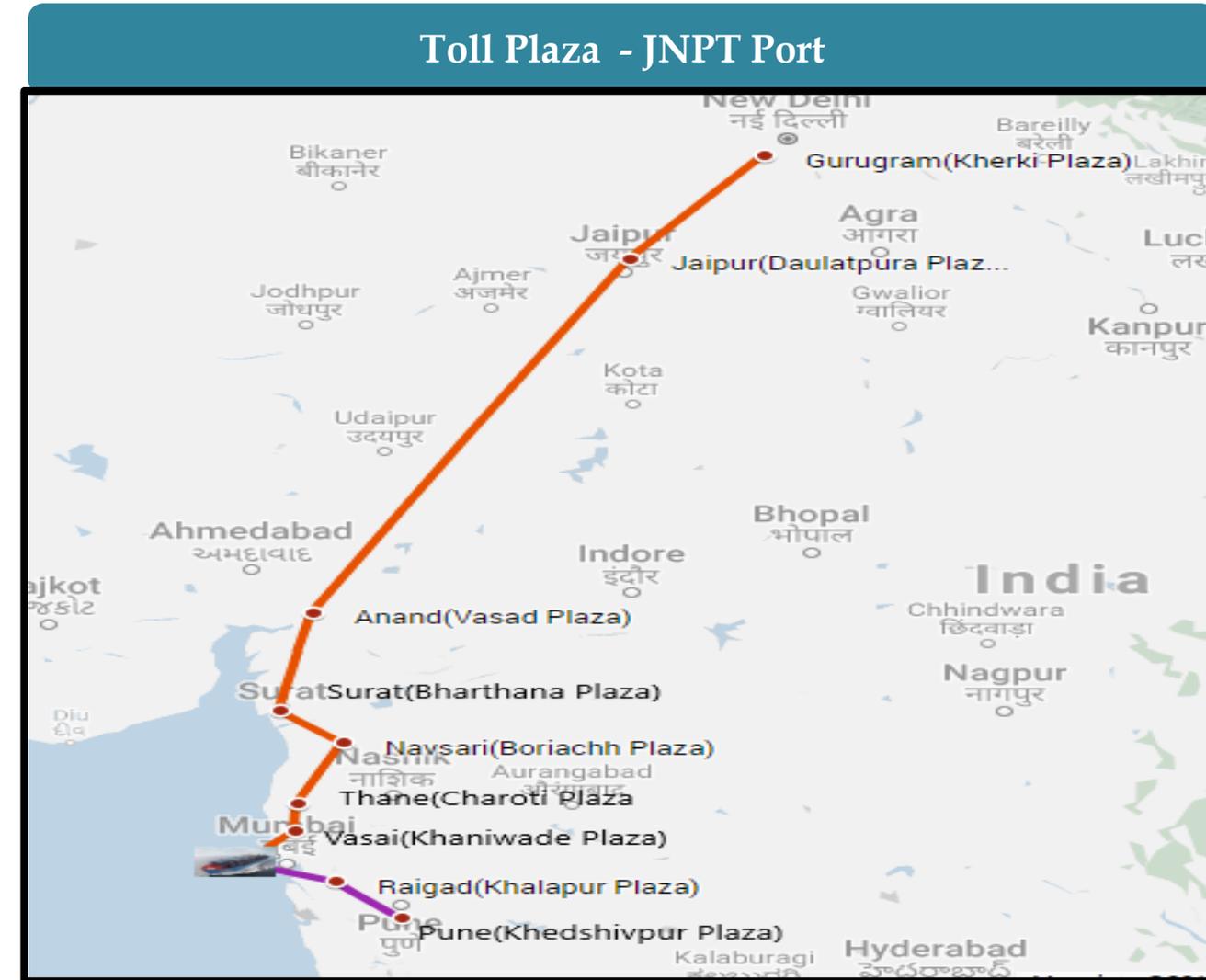
Toll Plaza - JNPT Port

Export Cycle
Analysis

JNPT Region: Dwell Time Performance (Export Cycle)

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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
(20% 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	June'20 (in hrs)	July'20 (in hrs)
JNPCT	58.2	71.5
NSICT	38.9	12.7
GTI	114.6	141.8
NSIGT	71.7	68.7
BMCT	86.1	92.2

Container Handled: Day wise (July'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	20%	80%	0%	0%
NSICT	69%	29%	2%	0%
GTI	9%	29%	33%	29%
NSIGT	22%	76%	2%	0%
BMCT	30%	33%	23%	14%
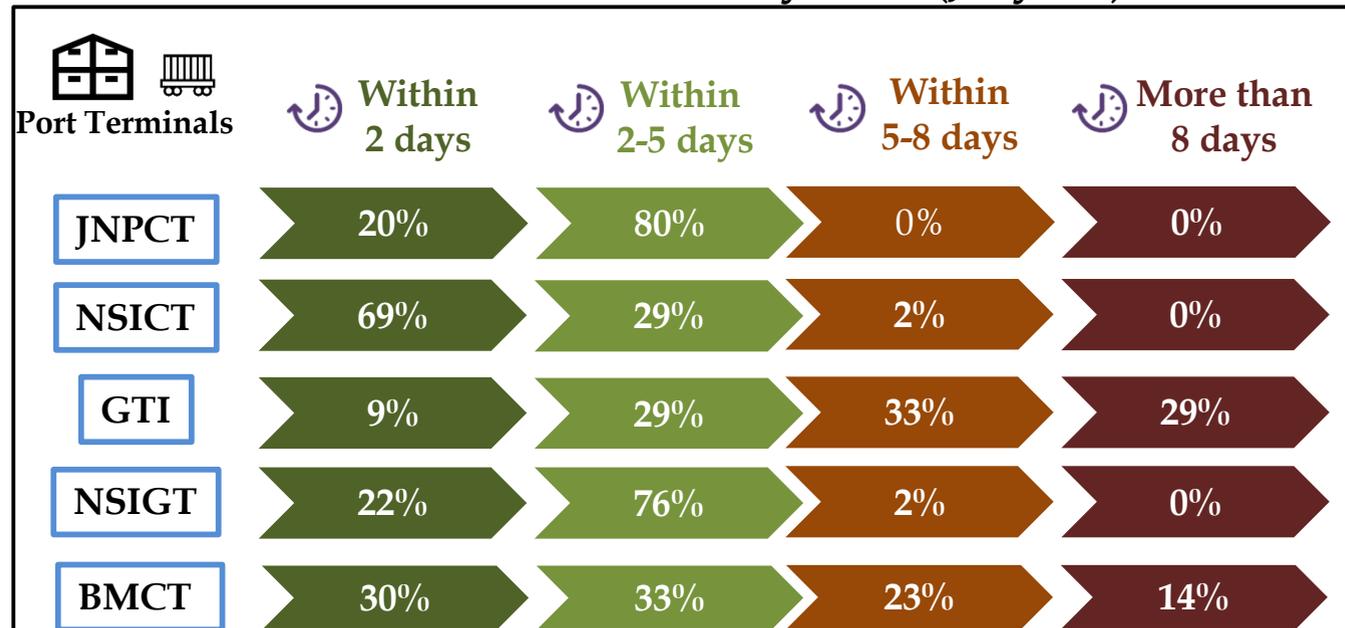
PORT EXPORT via TRUCK
(80% of total export volume at JNPT Port)

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	June'20 (in hrs)	July'20 (in hrs)
JNPCT	65.1	68.2
NSICT	65.4	71.0
GTI	68.9	91.9
NSIGT	76.4	59.1
BMCT	67.5	73.2

Container Handled: Day wise (July'20)
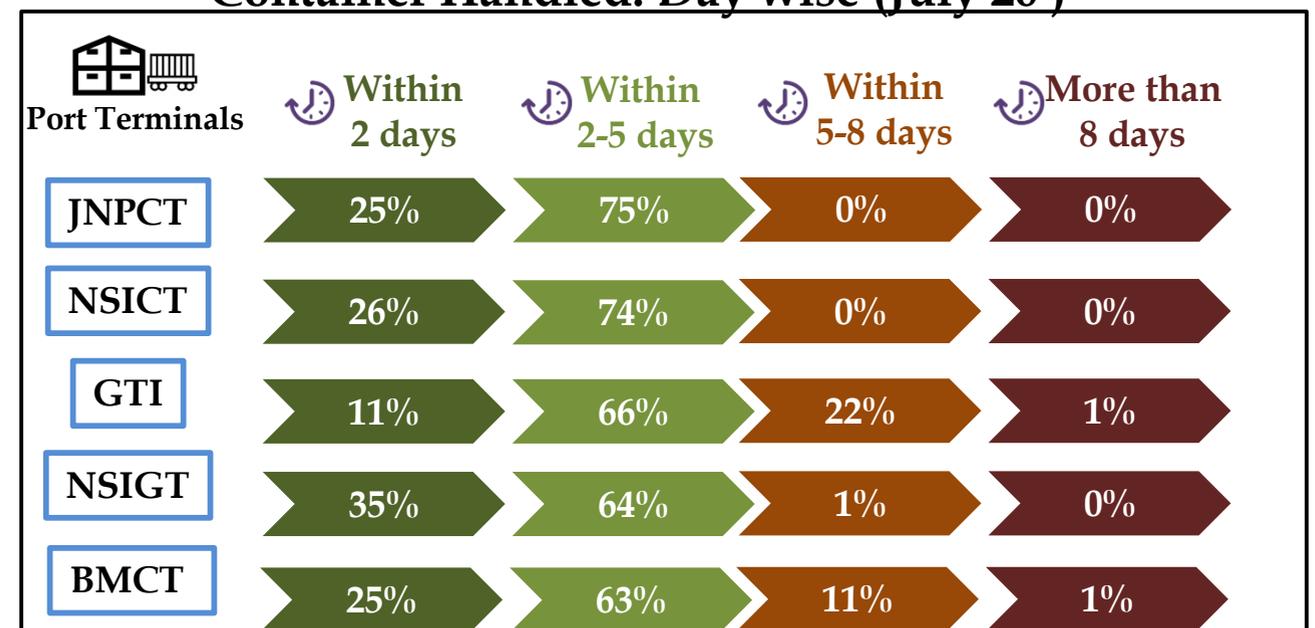
| Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	25%	75%	0%	0%
NSICT	26%	74%	0%	0%
GTI	11%	66%	22%	1%
NSIGT	35%	64%	1%	0%
BMCT	25%	63%	11%	1%

JNPT Region: Dwell Time Performance (Export Cycle)

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

JNPCT

Port Dwell time based on transit type

July'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	68.5 hrs	64.7 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	65.6 hrs	71.7 hrs

GTI

Port Dwell time based on transit type

July'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	93.2 hrs	90.2 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	92.4 hrs	97.1 hrs

JNPT Region: Dwell Time Performance (Export Cycle)

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

NSICT

Port Dwell time based on transit type

July'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.5 hrs	67.8 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	66.2 hrs	55.6 hrs

NSIGT

Port Dwell time based on transit type

July'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	61.6 hrs	57.2 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	58.4 hrs	54.4 hrs

BMCT

Port Dwell time based on transit type

July'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	66.1 hrs

Port Dwell time based on container type

July'20	Laden Containers	Empty Containers
Dwell time (in hrs)	71.3 hrs	73.0 hrs

The Below map indicate congestion around JNPT region in Export Cycle in month of July'20
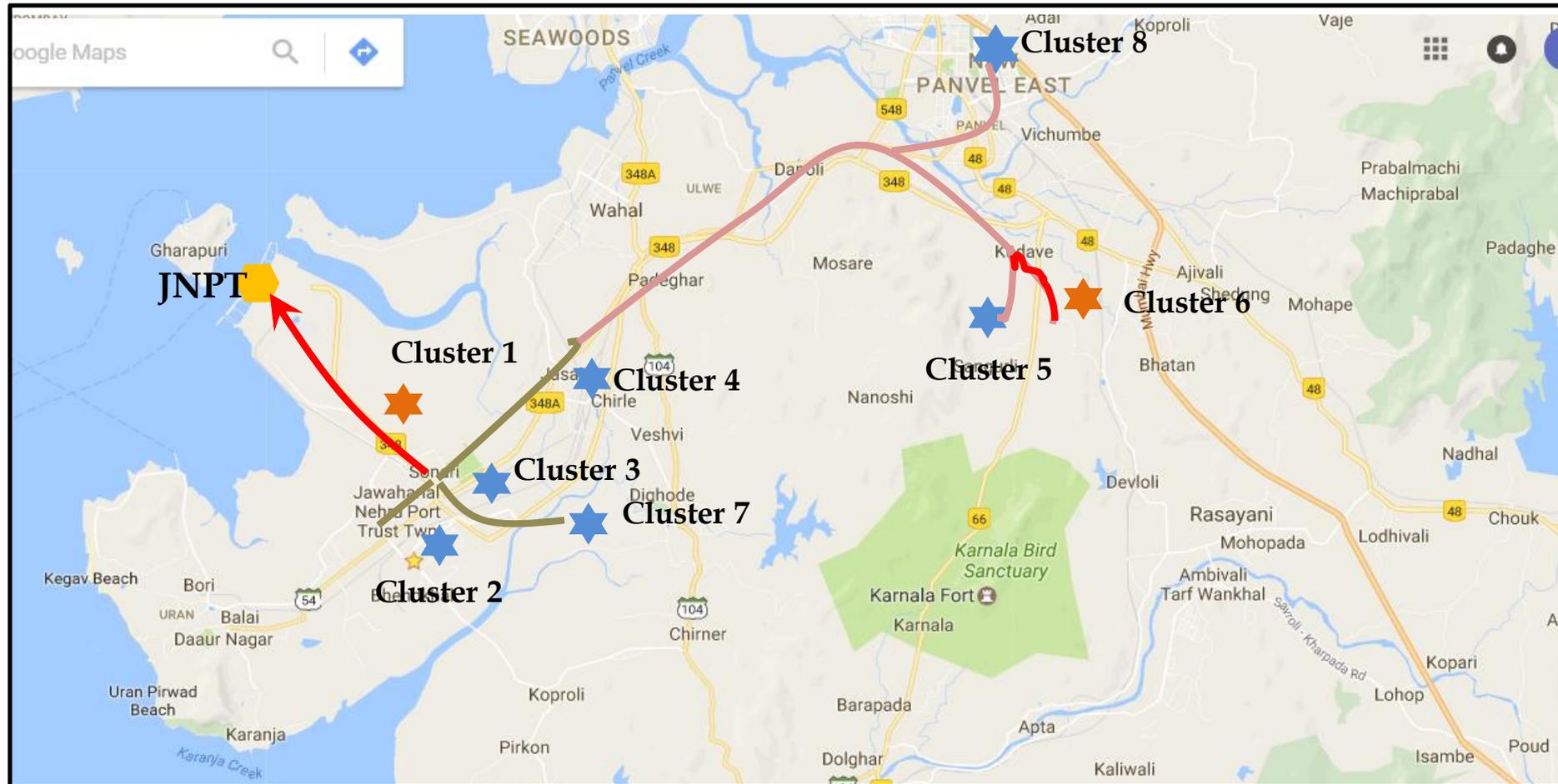
Clusters with bottleneck	
CLUSTER 1	JNPT Area
CLUSTER 6	Salva apta rd area, Bangalore highway

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	24%
Wardha Route	27%
Kota Route	15%
Bhopal Route	3%

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

Container movement via Rail – July'20

CFS and ICD Performance
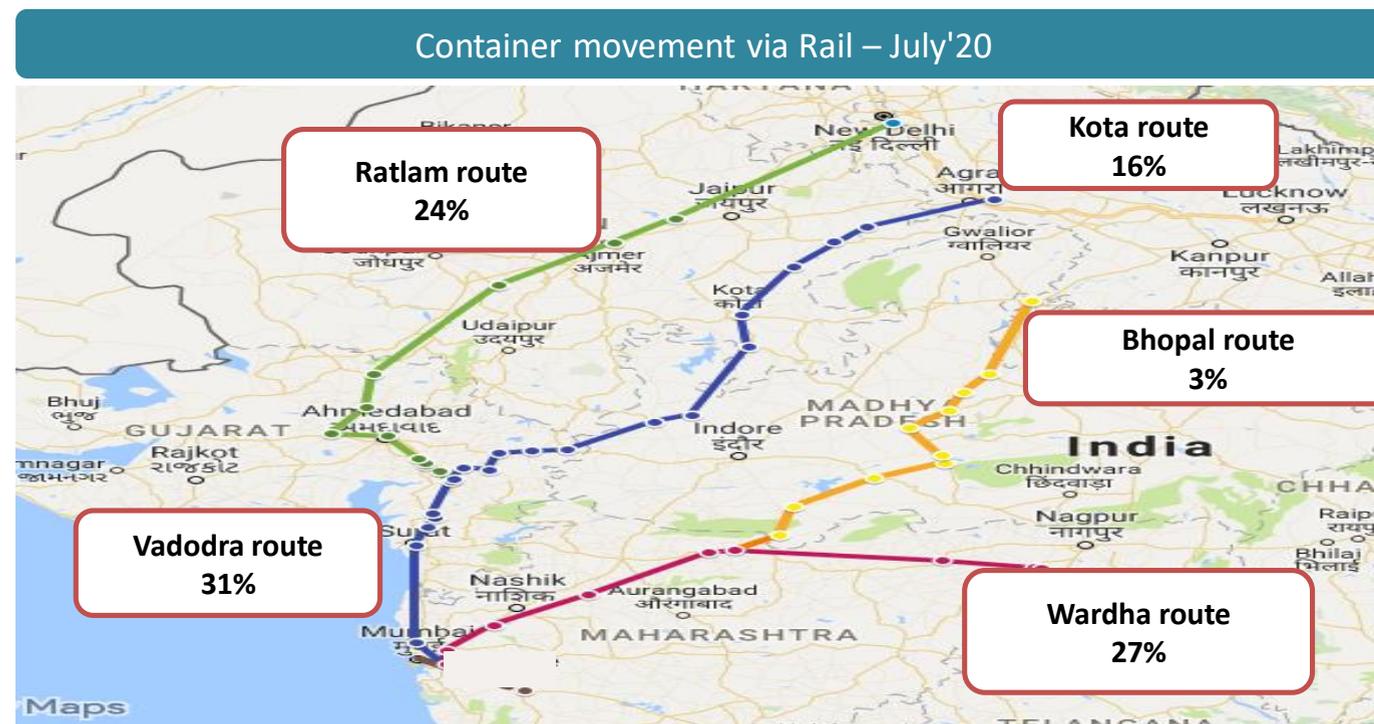
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS
Below table and graphs show the dwell time of the respective CFSs for the month of July'20

CFS Dwell Time (in hrs.)

CFS	June'20	July'20	CFS	June'20	July'20
AllCargo Logistics	96.4	88.4	JWR CFS	75.9	65.0
Ameya Logistics CFS, Navi Mumbai	90.7	91.0	Maersk Annex (APM)CFS, Navi Mumbai	-	118.9
APM (Maersk India) CFS, Navi Mumbai	100.2	80.7	Navkar Corporation Yard 2 CFS, Panvel	117.1	116.7
Apollo Logisolutions CFS, Panvel	102.0	107.3	Navkar Corporation Yard 3 CFS, Panvel	90.1	77.9
Balmer & Lawrie CFS, Navi Mumbai	78.9	76.8	Ocean Gate CFS, Panvel	105.1	107.9
Continental Warehousing CFS, Navi Mumbai	93.3	82.9	Punjab Conware CFS, Navi Mumbai	81.6	70.3
CWC Hind Terminal CFS, Navi Mumbai	114.1	82.2	Sarveshwar CFS	92.8	102.7
Dronagiri Rail Terminal CFS, Navi Mumbai	92.1	85.0	Seabird CFS, Navi Mumbai	97.9	99.4
EFC Logistics India	96.5	89.2	Speedy Multimode CFS, JNPT	98.3	95.7
Gateway Distriparks CFS, Navi Mumbai	88.2	90.1	Take Care Logistics CFS	-	132.0
International Cargo Terminal CFS	101.3	88.5	TG Terminals CFS	95.0	85.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	96.7	97.6	Vaishno Logistics CFS, Navi Mumbai	99.7	85.0
JWC Logistics Park CFS	97.1	91.4			

CFS – DWELL OVERVIEW – JULY'20 (IN HRS)

Average: 88.9 hrs.
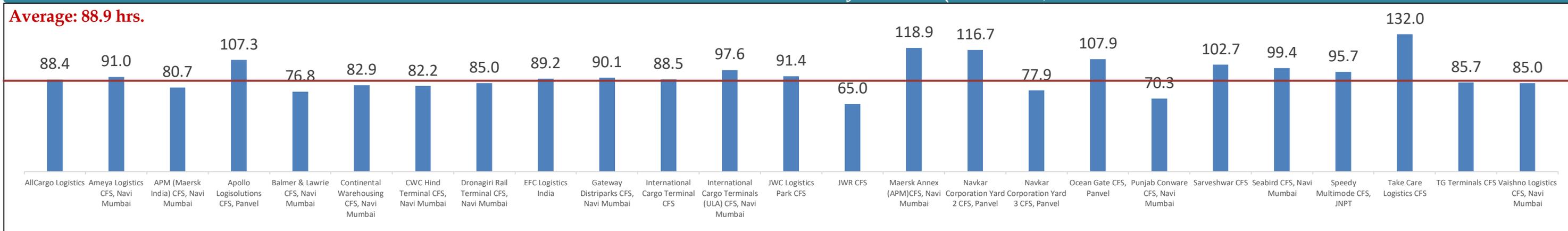
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	June'20 (in hrs)	July'20 (in hrs)
ACTL ICD, Faridabad	133.0	137.3
Adani Logistics Park ICD, Gurgaon	144.2	153.1
Albatross Inland Ports ICD, Dadri	105.3	77.8
Allcargo Logistics Park ICD, Dadri	144.9	93.3
APM Terminals ICD, Dadri	177.1	112.3
CMA CGM Logistics Park, Dadri	137.6	83.9
Gateway Rail Freight ICD, Gurgaon	140.5	122.6
GatewayRail Freight ICD, Pyala	149.4	107.8
Hind Terminals Logistics Park ICD, Palwal	189.9	155.0

ICD – DWELL OVERVIEW (July'20) (In Hrs)

Avg. 118.6 hrs.

ACTL ICD, Faridabad	Adani Logistics Park ICD, Gurgaon	Albatross Inland Ports ICD, Dadri	Allcargo Logistics Park ICD, Dadri	APM Terminals ICD, Dadri	CMA CGM Logistics Park, Dadri	Gateway Rail Freight ICD, Gurgaon	GatewayRail Freight ICD, Pyala	Hind Terminals Logistics Park ICD, Palwal
137.3	153.1	77.8	93.3	112.3	83.9	122.6	107.8	155.0

Trend Analysis

Western Corridor Port – Yearly Analysis

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

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region

Volume – Gujarat Region Vs JNPT Region

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region
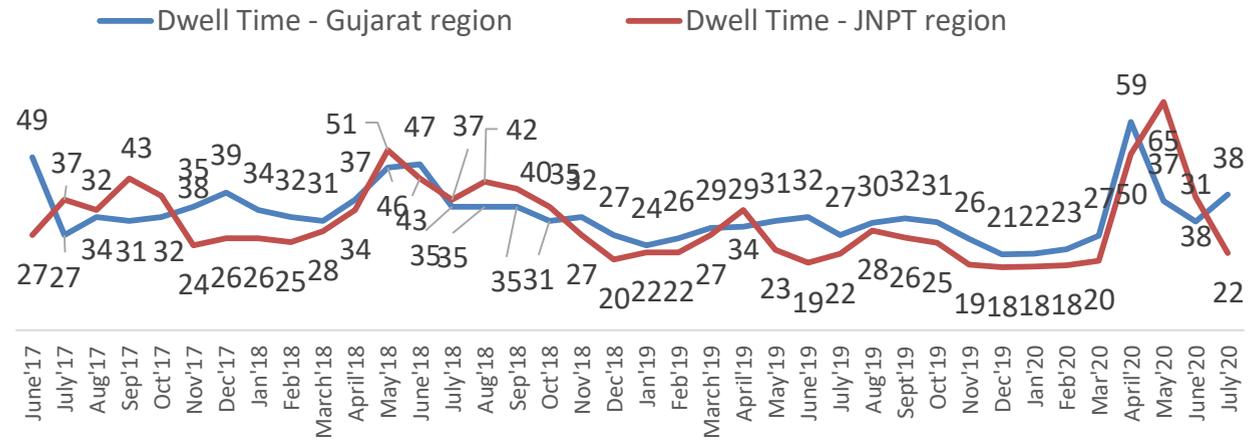
Volume – Gujarat Region Vs JNPT Region

In Import cycle, for the month of July'20 JNPT port has catered 19% **less volume** than APSEZ Port, and has maintained 43% **lower dwell time** than APSEZ Port
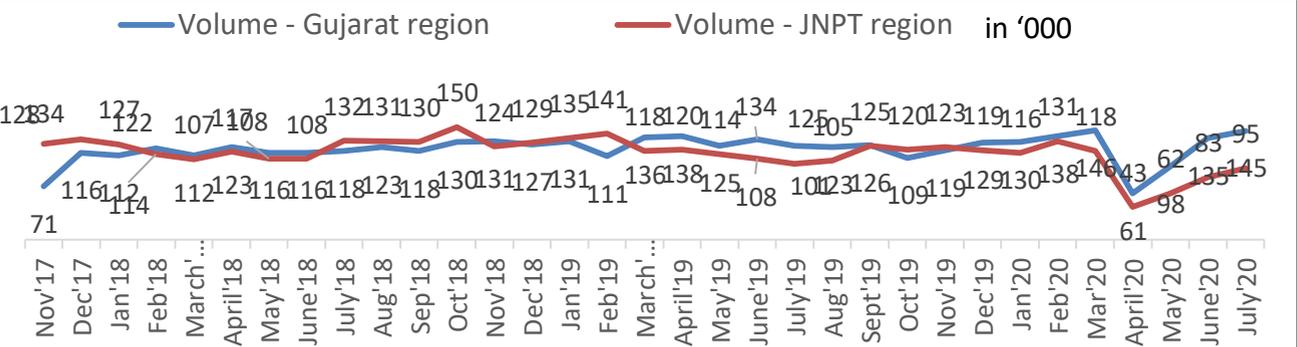
In Export cycle, for the month July'20 JNPT port catered 34% **more volume** then JNPT Port, and has maintained 39% **lower dwell time** than APSEZ Port

# 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

JNPT Region Dwell time: Overall (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
June'20	53.6	57.3	55.9	77.3	54.7
July'20	42.4	45.7	46.7	45.0	51.1
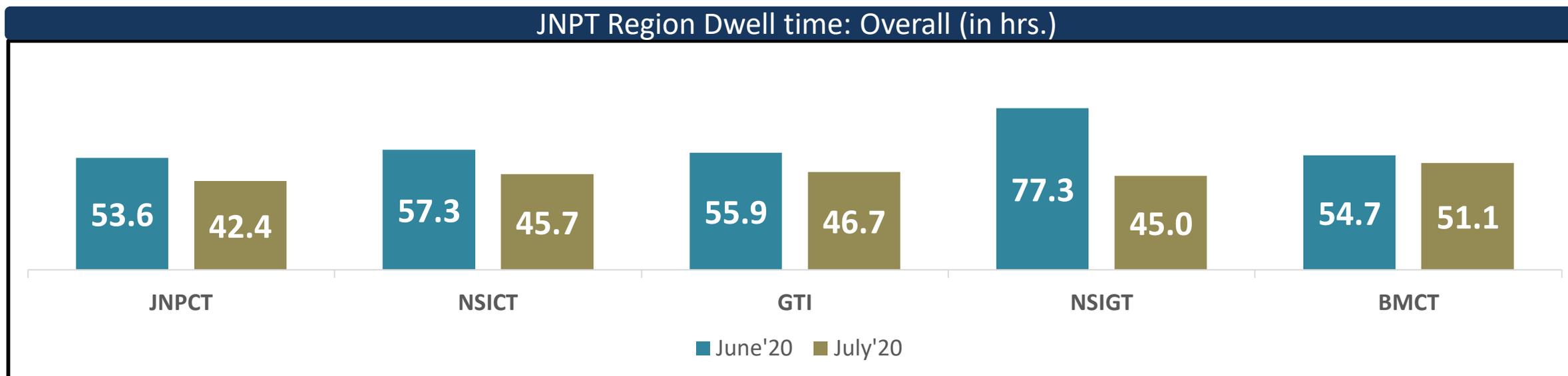
The overall JNPT region average dwell time for July'20 is **46.6 hrs** as compared to **57.4 hrs** in June'20

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of Juneil'19

JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for July'20 is **21.8 hrs.**

JNPT Region Dwell time: Import Cycle (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
June'20	43.5	51.7	28.1	79.9	33.4
July'20	24.9	21.9	15.4	20.9	27.4
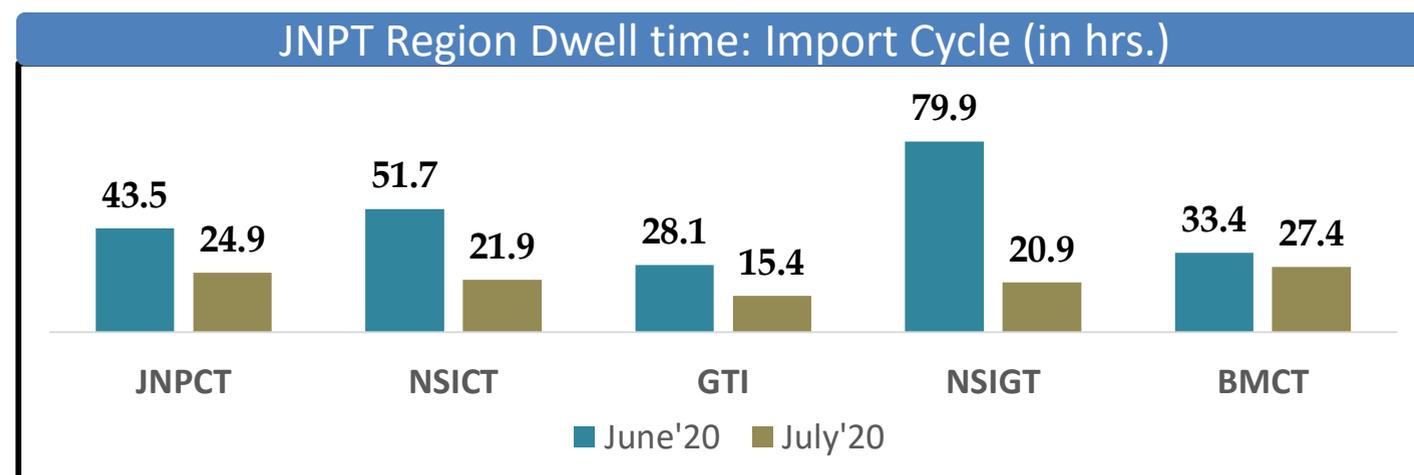
JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for July'20 is **74.8 hrs.**

JNPT Region Dwell time: Export Cycle (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
June'20	65.1	59.0	76.1	75.6	70.4
July'20	68.3	62.6	98.6	59.5	76.1
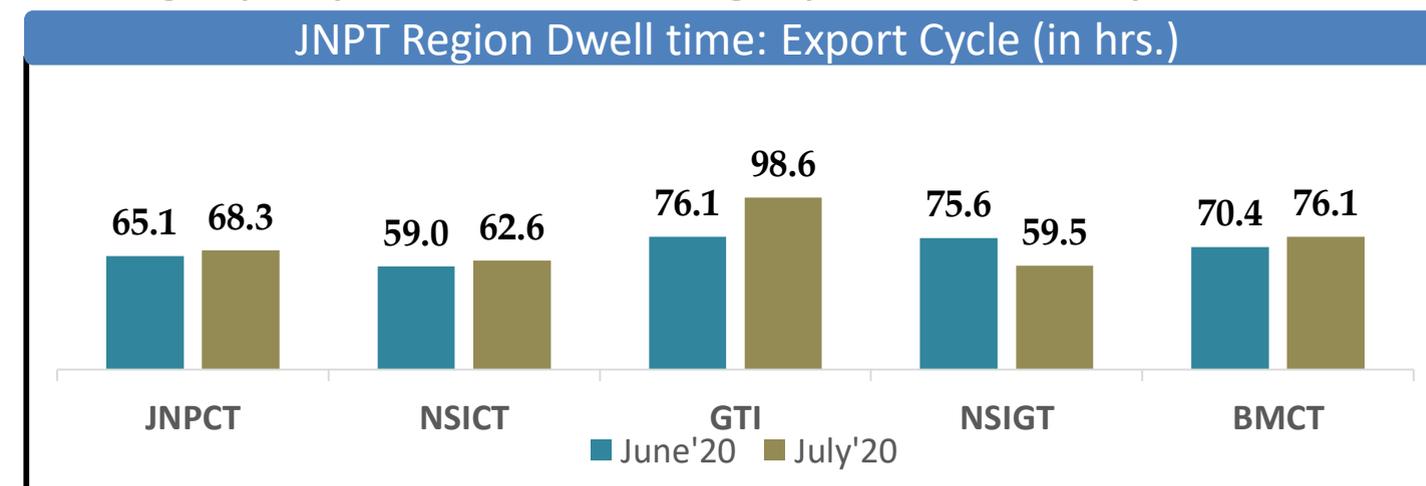
ANNEXURE

Container movement around JNPT Port terminal region via Truck

DLDS
DMICDC LOGISTICS DATA SERVICES LTD
Logistics Redefined

HEAT MAP : GTI Port Terminal
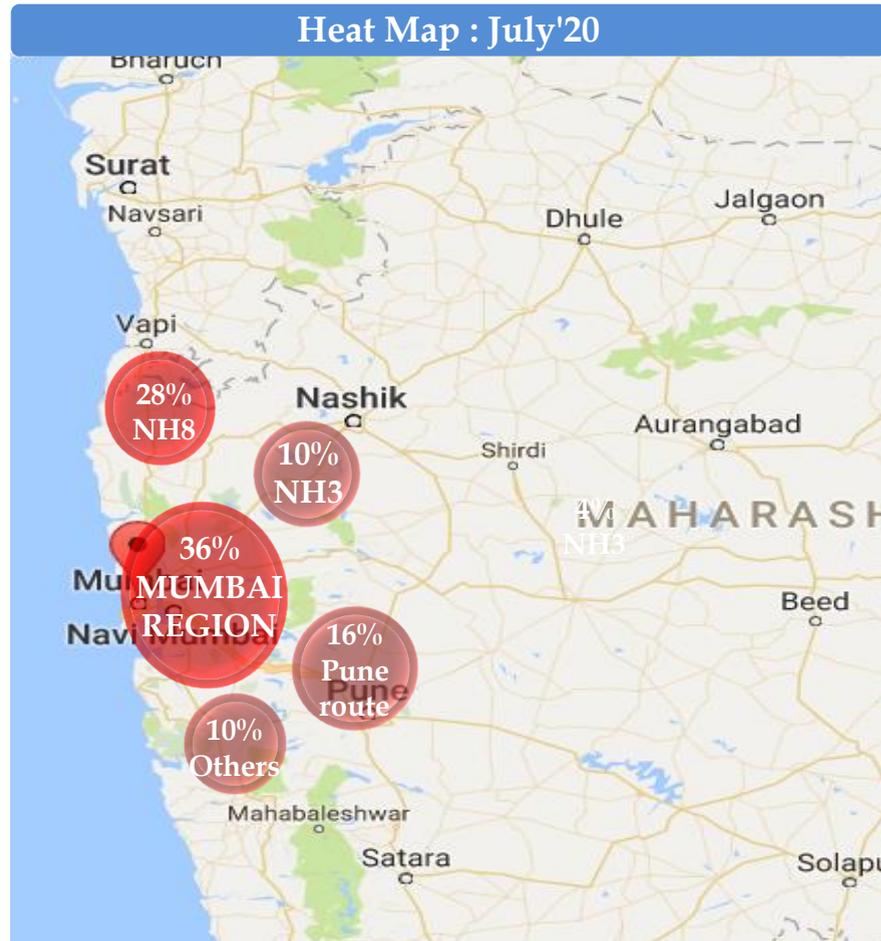
Heat Map : July'20

Region	June'20	July'20
Mumbai region	65%	36%
NH3	6%	10%
Pune	5%	16%
NH8	14%	28%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal
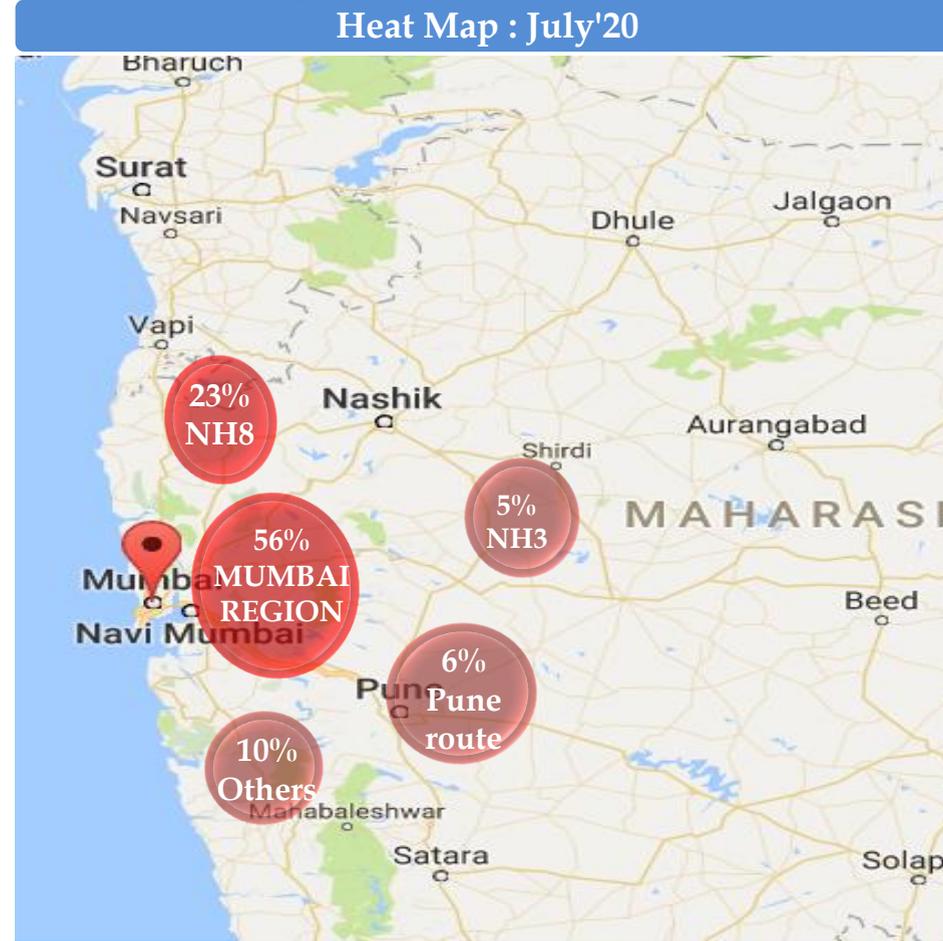
Heat Map : July'20

Region	June'20	July'20
Mumbai region	73%	56%
NH3	3%	5%
Pune	3%	6%
NH8	11%	23%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal
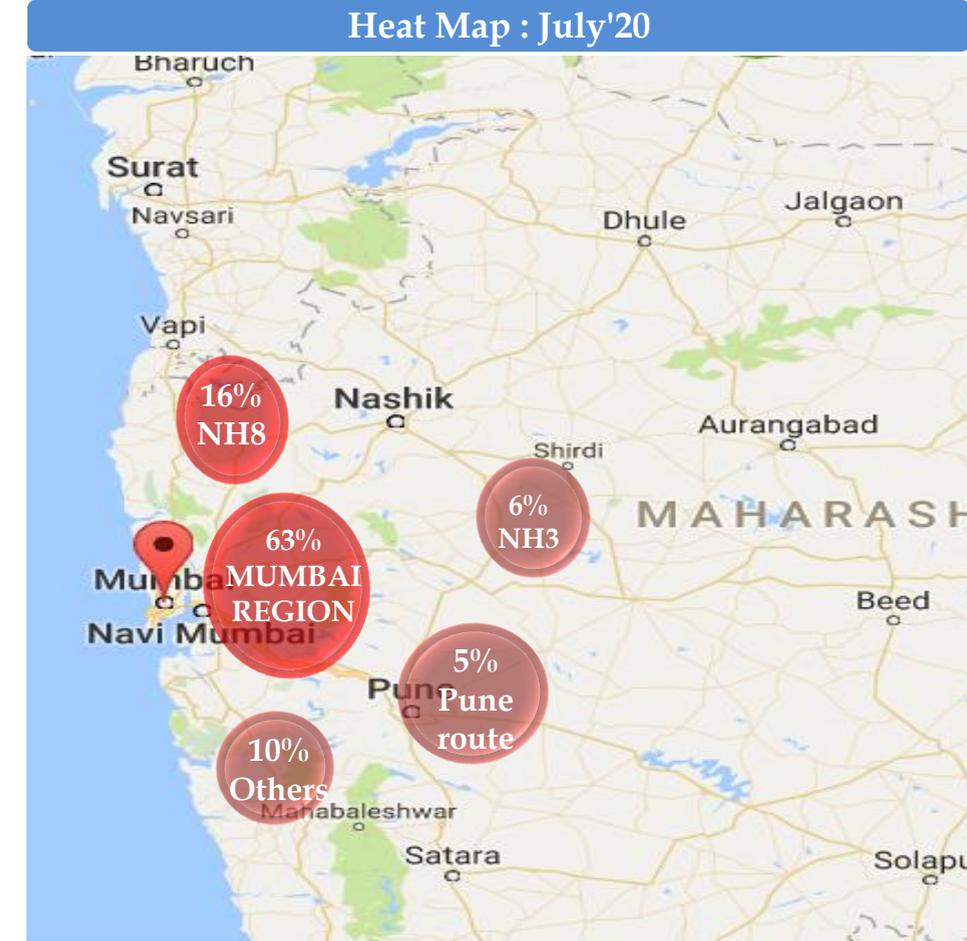
Heat Map : July'20

| Region	June'20	July'20
Mumbai region	75%	63%
NH3	4%	6%
Pune	2%	5%
NH8	9%	16%
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
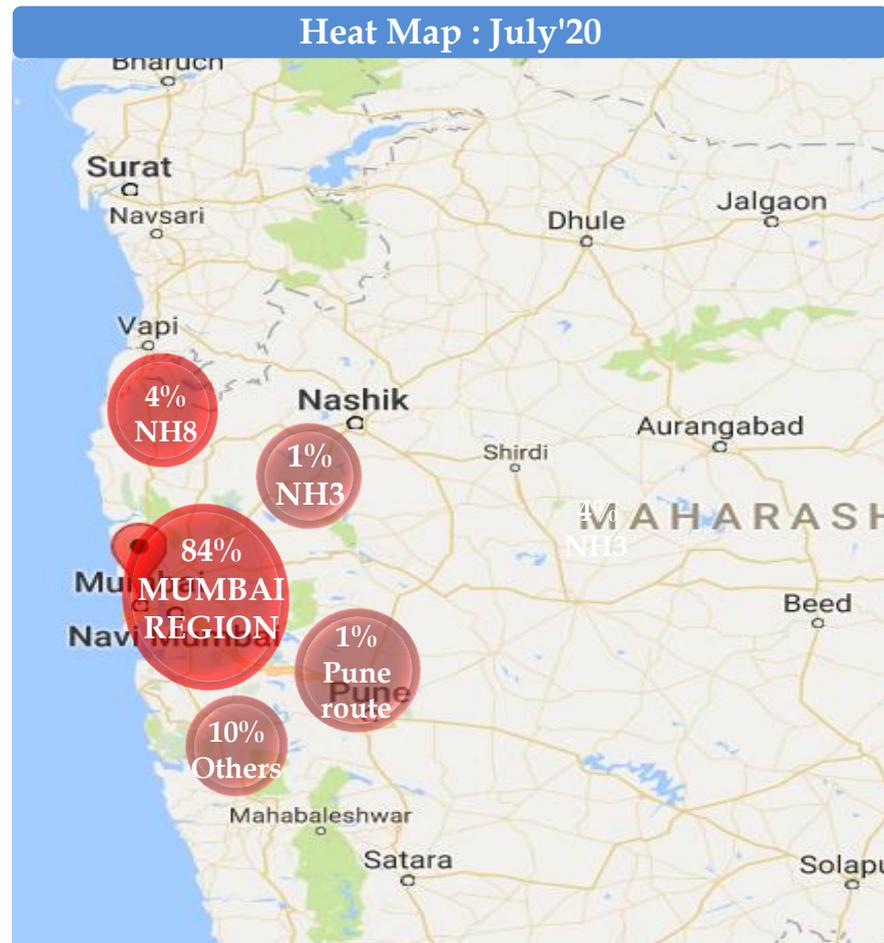
Heat Map : July'20

Region	June'20	July'20
Mumbai region	70%	84%
NH3	4%	1%
Pune	2%	1%
NH8	13%	4%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal
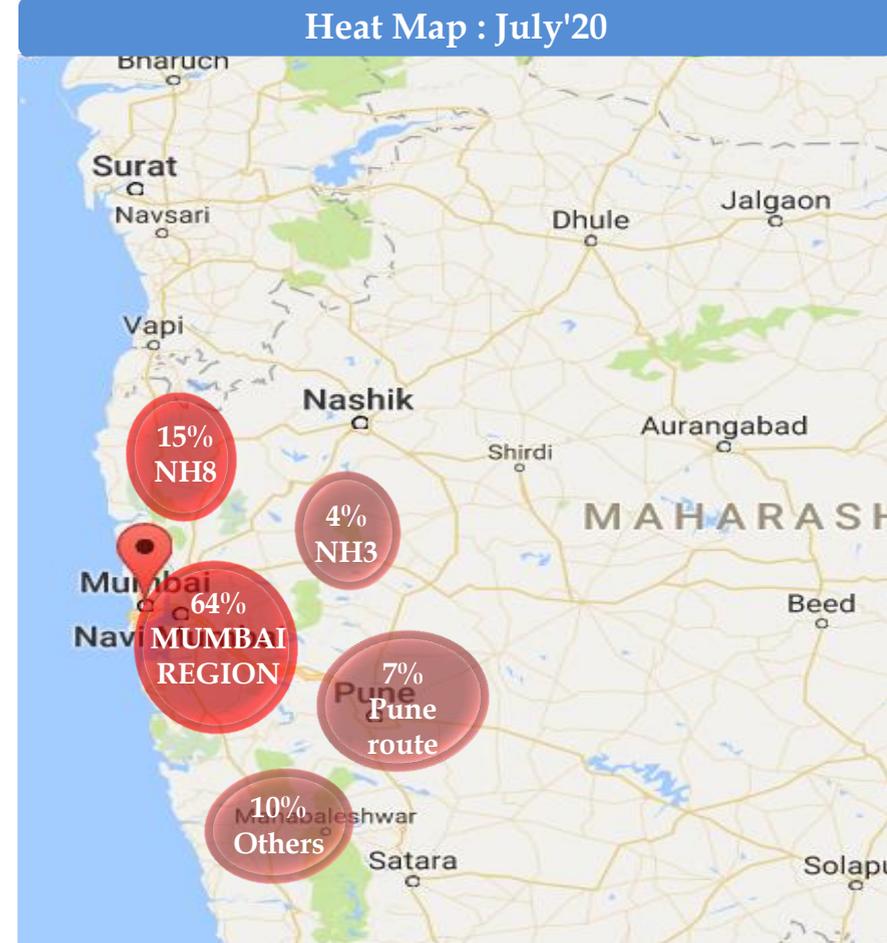
Heat Map : July'20

Region	June'20	July'20
Mumbai region	70%	64%
NH3	3%	4%
Pune	5%	7%
NH8	12%	15%
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 July'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	1.9	2.3	1.9	1.9	4.2
Punjab Conware CFS, Navi Mumbai	3.4	2.5	2.2	1.6	4.1
JWC Logistics Park CFS	2.9	3.3	2.1	2.1	5.1
CWC Hind Terminal CFS, Navi Mumbai	3.3	4.5	1.4	1.4	4.2
Dronogiri Rail Terminal CFS, Navi Mumbai	3.0	2.9	2.0	1.5	3.8
Navkar Corporation Yard 2 CFS, Panvel	5.7	6.5	6.3	5.2	7.3
Vaishno Logistics CFS, Navi Mumbai	2.3	2.7	1.9	2.3	2.8
Speedy Multimode CFS, JNPT	2.5	2.5	1.9	1.9	3.4
Balmer & Lawrie CFS, Navi Mumbai	3.3	8.3	7.4	1.3	7.9
Navkar Corporation Yard 3 CFS, Panvel	9.3	6.4	4.5	5.5	7.7
Ashte Logistics CFS, Panvel	4.0	3.7	2.4	4.6	5.2
Continental Warehousing CFS, Navi Mumbai	3.1	1.8	2.1	1.9	3.9
SBW Logistics CFS, Navi Mumbai	4.1	6.3	4.3	2.5	5.7
Maharashtra State Corp CFS	3.2	3.3	2.0	1.6	2.7
Internation Cargo Terminal CFS	2.2	2.7	2.3	2.1	5.6
Seabird CFS, Navi Mumbai	2.5	2.5	2.1	1.1	4.5
Apollo Logisolutions CFS, Panvel	4.7	2.9	3.3	2.7	4.4
Ameya Logistics CFS, Navi Mumbai	2.6	3.0	2.8	1.7	5.1
Transindia Logistics Park, Navi Mumbai	2.3	2.4	1.8	2.0	3.5
Ocean Gate CFS, Panvel	2.7	3.0	2.3	1.7	4.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.5	2.9	1.9	2.0	3.2
Indev Logistics CFS, Panvel	3.1	2.5	1.9	5.7	4.2
CWC Dronagiri CFS, Navi Mumbai	1.2	1.1	-	-	-
APM (Maersk India) CFS, Navi Mumbai	1.3	2.7	2.2	1.6	3.4

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	July'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.1
Internation Cargo Terminal CFS	1.8
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.3
Indev Logistics CFS, Panvel	2.4
Navkar Corporation Yard 3 CFS, Panvel	3.1
Seabird CFS, Navi Mumbai	1.8
Balmer & Lawrie CFS, Navi Mumbai	1.9
Ashte Logistics CFS, Panvel	2.4
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	2.3
Navkar Corporation Yard 1 CFS, Panvel	2.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.6
Speedy Multimode CFS, JNPT	2.8
Apollo Logisolutions CFS, Panvel	5.4
Navkar Corporation Yard 2 CFS, Panvel	2.6
Punjab Conware CFS, Navi Mumbai	2.4
Vaishno Logistics CFS, Navi Mumbai	2.3
JWC Logistics Park CFS	3.3
SBW Logistics CFS, Navi Mumbai	3.4
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	9.1

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	July'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.1
Indev Logistics CFS, Panvel	2.3
Navkar Corporation Yard 3 CFS, Panvel	3.4
Seabird CFS, Navi Mumbai	1.6
Balmer & Lawrie CFS, Navi Mumbai	2.3
Ashte Logistics CFS, Panvel	2.3
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.6
Dronogiri Rail Terminal CFS, Navi Mumbai	2.7
Navkar Corporation Yard 1 CFS, Panvel	2.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	2.7
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	5.6
Navkar Corporation Yard 2 CFS, Panvel	2.9
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	2.0
JWC Logistics Park CFS	2.6
SBW Logistics CFS, Navi Mumbai	3.2
Ocean Gate CFS, Panvel	2.9
Maharashtra State Corp CFS	1.2

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	**July'20 (in hrs)**
Gateway Distriparks CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	2.0
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.1
Indev Logistics CFS, Panvel	2.2
Navkar Corporation Yard 3 CFS, Panvel	4.5
Seabird CFS, Navi Mumbai	3.5
Balmer & Lawrie CFS, Navi Mumbai	2.3
Ashte Logistics CFS, Panvel	4.7
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	7.2
Navkar Corporation Yard 1 CFS, Panvel	5.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	2.4
Speedy Multimode CFS, JNPT	3.7
Apollo Logisolutions CFS, Panvel	5.7
Navkar Corporation Yard 2 CFS, Panvel	2.7
Punjab Conware CFS, Navi Mumbai	2.9
Vaishno Logistics CFS, Navi Mumbai	4.6
JWC Logistics Park CFS	4.0
SBW Logistics CFS, Navi Mumbai	5.0
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	

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	**July'20 (in hrs)**
Gateway Distriparks CFS, Navi Mumbai	3.6
APM (Maersk India) CFS, Navi Mumbai	1.7
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	1.7
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	2.2
Seabird CFS, Navi Mumbai	1.6
Balmer & Lawrie CFS, Navi Mumbai	1.9
Ashte Logistics CFS, Panvel	2.5
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	11.2
Navkar Corporation Yard 1 CFS, Panvel	3.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	1.6
Speedy Multimode CFS, JNPT	24.7
Apollo Logisolutions CFS, Panvel	4.8
Navkar Corporation Yard 2 CFS, Panvel	2.6
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	4.5
JWC Logistics Park CFS	3.2
SBW Logistics CFS, Navi Mumbai	4.6
Ocean Gate CFS, Panvel	2.4
Maharashtra State Corp CFS	-

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	**July'20 (in hrs)**
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	2.4
Internation Cargo Terminal CFS	1.7
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	2.3
Navkar Corporation Yard 3 CFS, Panvel	3.0
Seabird CFS, Navi Mumbai	2.0
Balmer & Lawrie CFS, Navi Mumbai	1.7
Ashte Logistics CFS, Panvel	2.6
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	3.1
Navkar Corporation Yard 1 CFS, Panvel	2.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	2.4
Apollo Logisolutions CFS, Panvel	4.3
Navkar Corporation Yard 2 CFS, Panvel	3.4
Punjab Conware CFS, Navi Mumbai	3.0
Vaishno Logistics CFS, Navi Mumbai	4.4
JWC Logistics Park CFS	3.0
SBW Logistics CFS, Navi Mumbai	3.3
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	30.9

JNPT Region : Cluster Analysis

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 July'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	2.8	2.5
Cluster 2	6	13	2.1	2.8
Cluster 3	6	11	2.4	2.7
Cluster 4	1	13	2.3	2.7
Cluster 5	2	25	3.2	3.1
Cluster 6	6	25	2.7	3.7
Cluster 7	4	12	1.9	2.4
Cluster 8	1	34	3.4	6.3

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of July'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	1.7	2.5
Cluster 2	6	13	1.9	2.4
Cluster 3	6	11	1.8	3.1
Cluster 4	1	13	2.0	2.3
Cluster 5	2	25	2.8	2.8
Cluster 6	6	25	2.8	4.7
Cluster 7	4	12	1.9	2.6
Cluster 8	1	34	3.2	4.1

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**

JNPT Region : Cluster Analysis

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 July'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	3.7	1.9
Cluster 2	6	13	2.2	2.0
Cluster 3	6	11	3.2	2.1
Cluster 4	1	13	4.6	0.0
Cluster 5	2	25	3.6	2.2
Cluster 6	6	25	4.6	3.3
Cluster 7	4	12	2.0	2.1
Cluster 8	1	34	5.0	4.3

CFS Cluster : NSIGT Terminal

	JNPCT terminal for month of July'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	24.7	1.9
Cluster 2	6	13	1.9	1.8
Cluster 3	6	11	2.0	1.5
Cluster 4	1	13	4.5	2.3
Cluster 5	2	25	2.8	1.9
Cluster 6	6	25	3.0	5.2
Cluster 7	4	12	1.7	1.9
Cluster 8	1	34	4.6	2.5

CFS Cluster : BMCT Terminal

	JNPCT terminal for month of July'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	2.4	3.4
Cluster 2	6	13	1.9	4.2
Cluster 3	6	11	2.0	4.0
Cluster 4	1	13	4.4	2.8
Cluster 5	2	25	3.0	4.9
Cluster 6	6	25	2.8	5.2
Cluster 7	4	12	1.9	3.9
Cluster 8	1	34	3.3	5.7

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**

LDB Operations Snapshot

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

Map labels: MUNDRA, KANDALA, HAZIRA, JNPT, MURMUGAO, NEW MANGALORE, KOCHI, TUTICORN, CHENNAI, ENNORE, KATTUPALLI, KRISHNAPATNAM, VIZAG, PARADIP, HALDIA, KOLKATA

14 (ICD) **106** (CFS) **25** (Toll Plaza)
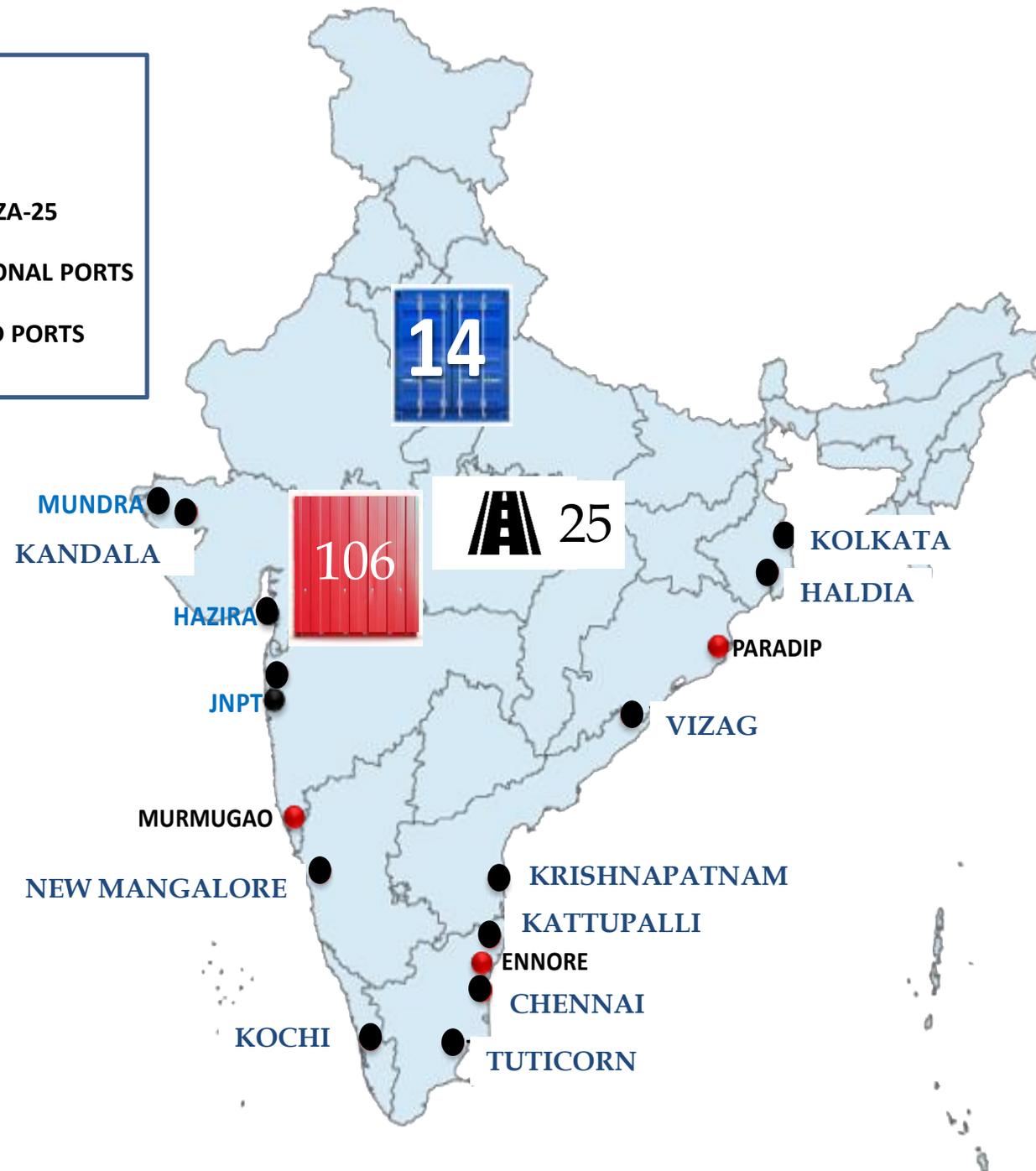
Below mentioned are all the CFS in the respective Clusters :

Cluster 1
(JNPT Area)
- Speedy Multimode CFS,JNPT

Cluster 2
(Bhendkhal area, Khopate road)
- APM (Maersk India) CFS, Navi Mumbai
- Maersk Annex (APM)CFS, Navi Mumbai
- Balmer & Lawrie CFS, Navi Mumbai
- CWC Hind Terminal CFS, Navi Mumbai
- International Cargo Terminals (ULA) CFS, Navi Mumbai & Infrastructure Private Limited
- Gateway Distriparks CFS, Navi Mumbai
- International Cargo Terminal CFS

Cluster 3
Sonari area,JNPT road
- Punjab Conware CFS, Navi Mumbai
- Dronogiri Rail Terminal CFS, Navi Mumbai
- CWC Impex Park CFS, Navi Mumbai
- CWC Dronagiri CFS, Navi Mumbai
- Maharashtra State Corp CFS
- Seabird CFS, Navi Mumbai

Cluster 4
(Chirle area , JNPT road)
- Vaishno Logistics CFS, Navi Mumbai

Cluster 5
(Plaspa area, Coachi kanyakumari Highway)
- JWC Logistics Park CFS
- Ocean Gate CFS, Panvel

Cluster 6
(Salva apta rd area, Bangalore highway)
- Ashte Logistics CFS, Panvel
- Apollo Logisolutions CFS, Panvel
- Indev Logistics CFS, Panvel
- Navkar Corporation Yrd 1 CFS, Panvel
- Navkar Corporation Yard 2 CFS, Panvel
- Navkar Corporation Yard 3 CFS, Panvel

Cluster 7
(Patilpada area, Khopate JNPT road)
- All Cargo Logistics CFS, Navi Mumbai
- Transindia Logistics Park, Navi Mumbai
- Ameya Logistics CFS, Navi Mumbai
- Continental Warehousing CFS, Navi Mumbai

Cluster 8
SBW

List of CFS name used in CFS Performance Index

1	AllCargo Logistics		14	JWR CFS
2	Ameya Logistics CFS, Navi Mumbai		15	Maersk Annex (APM)CFS, Navi Mumbai
3	APM (Maersk India) CFS, Navi Mumbai		16	Navkar Corporation Yard 2 CFS, Panvel
4	Apollo Logisolutions CFS, Panvel		17	Navkar Corporation Yard 3 CFS, Panvel
5	Balmer & Lawrie CFS, Navi Mumbai		18	Ocean Gate CFS, Panvel
6	Continental Warehousing CFS, Navi Mumbai		19	Punjab Conware CFS, Navi Mumbai
7	CWC Hind Terminal CFS, Navi Mumbai		20	Sarveshwar CFS
8	Dronagiri Rail Terminal CFS, Navi Mumbai		21	Seabird CFS, Navi Mumbai
9	EFC Logistics India		22	Speedy Multimode CFS, JNPT
10	Gateway Distriparks CFS, Navi Mumbai		23	Take Care Logistics CFS
11	International Cargo Terminal CFS		24	TG Terminals CFS
12	International Cargo Terminals (ULA) CFS, Navi Mumbai		25	Vaishno Logistics CFS, Navi Mumbai
13	JWC Logistics Park CFS			

THANK YOU