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Terminal wise Dwell Time Performance – Snapshot

Import Cycle				Export Cycle		
Port	**May'20 (in hrs)**	**June'20 (in hrs)**		**Port**	**May'20 (in hrs)**	**June'20 (in hrs)**
JNPCT	72.5	43.5		JNPCT	55.4	65.1
NSICT	82.4	51.7		NSICT	42.8	59.0
GTI	52.9	28.1		GTI	67.0	76.1
NSIGT	76.6	79.9		NSIGT	70.9	75.6
BMCT/PSA	51.9	33.4		BMCT/PSA	61.3	70.4

Critical Incident Summary

Jawaharlal Nehru Port Terminals

• Train bound container handling performance in Import Cycle has improved which has also led to improvement in transit performance between Port and ICD and Container handling performance at ICD

Month	Export cycle – Train bound Dwell Time	Port to ICD – Transit Time	ICD Dwell Time
June'20	73.5 hrs	67.7 hrs	140.1 hrs
May'20	52.9 hrs ↑ 39%	92.2 hrs ↑ 27%	143.3 hrs ↑ 2%

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	May'20 (in hrs)	June'20 (in hrs)
Overall	50.1	36.6
Truck	46.0	34.3
Train	64.8	48.2

EXPORT

Mode	May'20 (in hrs)	June'20 (in hrs)
Overall	82.8	92.5
Truck	81.7	85.7
Train	88.3	21.6

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

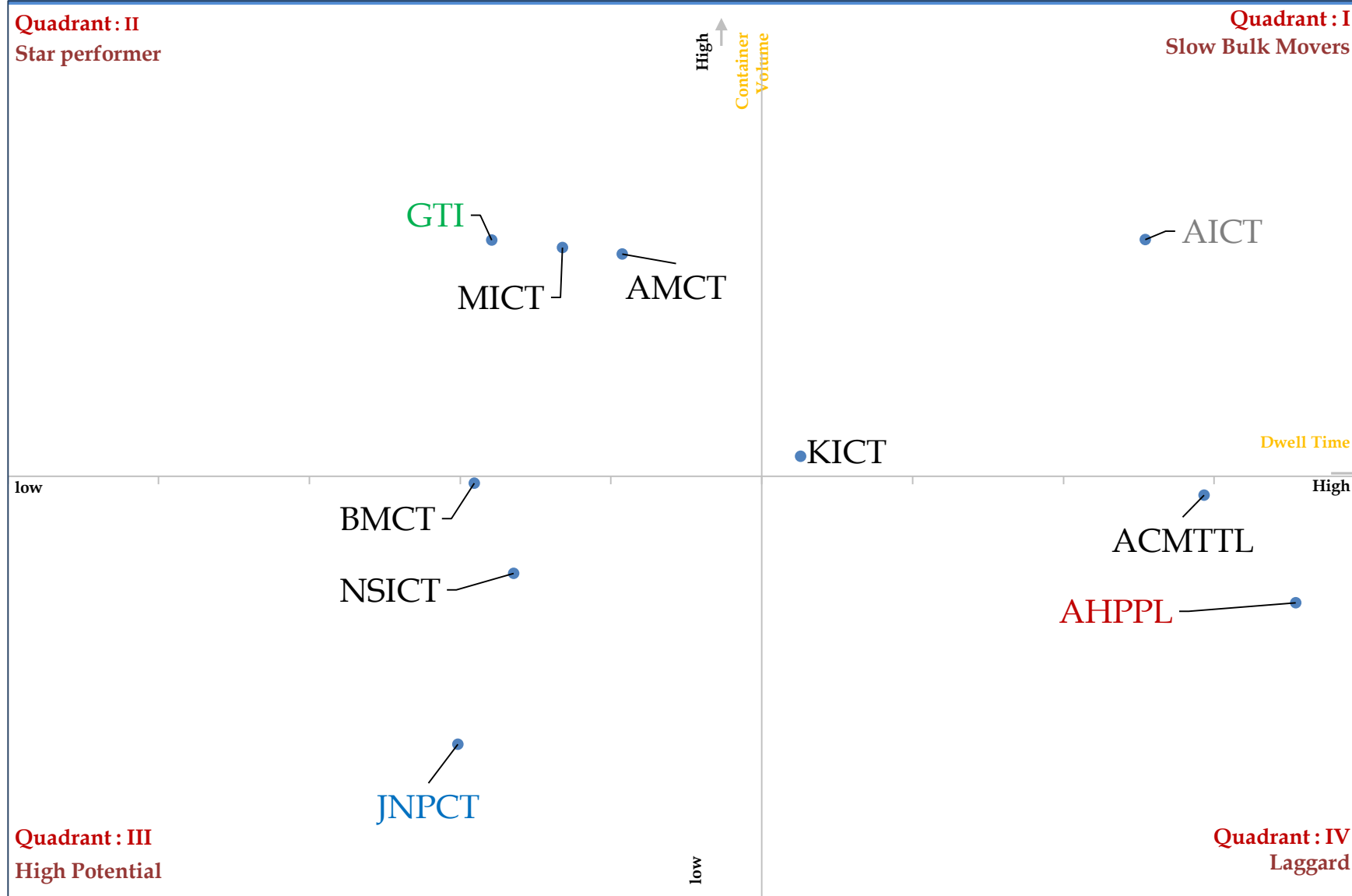**Inland Container Depot (ICD)**

Container Freight Stations (CFS)

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

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

Entity	May'20 (in hrs)	June'20 (in hrs)
CFS	94.5	95.7
ICD	143.3	140.1

Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – June'20

Quadrant: II
Star performer

Quadrant: I
Slow Bulk Movers

High — Container Volume

GTI
MICT
AMCT

AICT

KICT — Dwell Time — High

BMCT

NSICT

ACMTTL

AHPPL

low

JNPCT

Quadrant: III
High Potential

low

Quadrant: IV
Laggard

Due to low volume count in export cycle at Kandla Port Terminal, hence only import volume has been considered in the analysis

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

Top Performing Terminal	
Gateway Terminals India (GTI)	
May'20	June'20
60.8 hrs	55.9 hrs ↑

Low Performing Terminal	
Adani Hazira Port Private Limited (AHPPL)	
May'20	June'20
105.5 hrs	109.5 hrs ↓

Note: The performance benchmarking is based on performance index

↑↓ The arrows depict increase/decrease in overall performance of the stakeholders in comparison to May'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
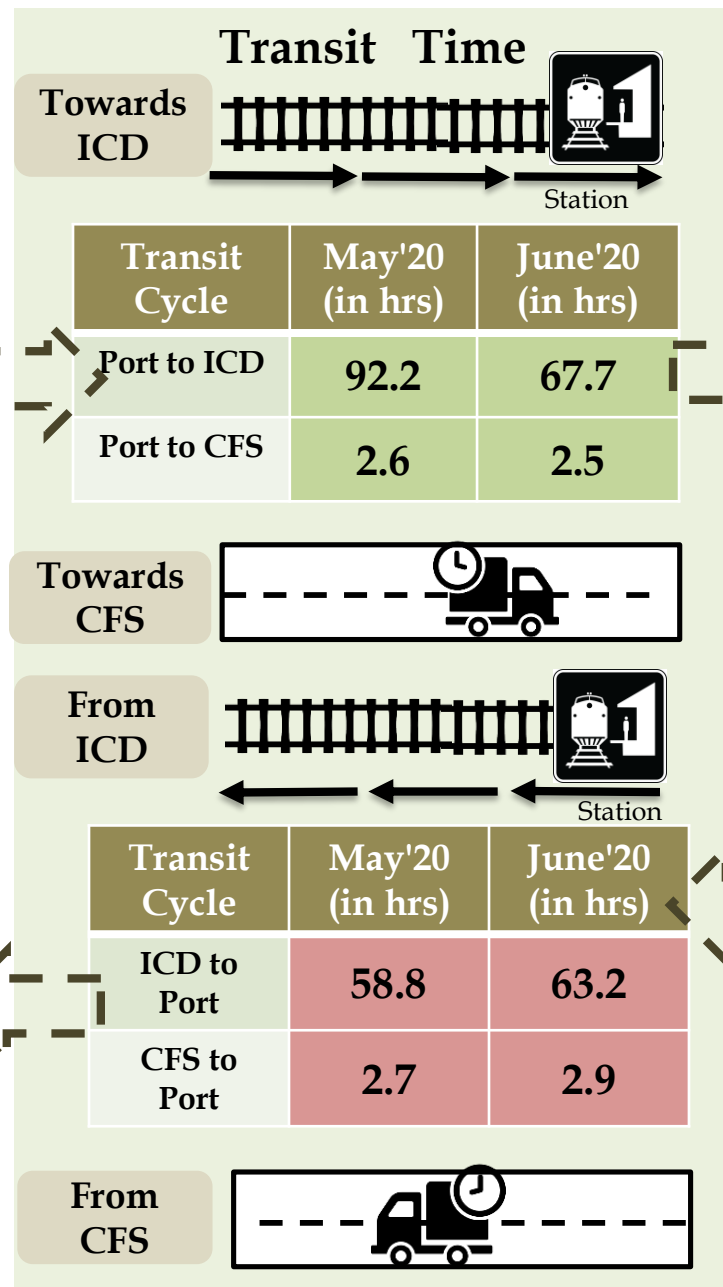
High Potential : consist of entities which have catered relatively lower container volume in lower dwell time

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

Container Transportation- JNPT Port Terminals

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Container Lifecycle (Import Cycle) →

IMPORT

Port Dwell Time

Mode	May'20 (in hrs)	June'20 (in hrs)
Overall	64.7	37.6
Truck	60.3	32.5
Train	66.2	50.9

EXPORT

Mode	May'20 (in hrs)	June'20 (in hrs)
Overall	60.0	68.8
Truck	61.3	67.7
Train	52.9	73.5

Transit Time

Towards ICD — Station

Transit Cycle	May'20 (in hrs)	June'20 (in hrs)
Port to ICD	92.2	67.7
Port to CFS	2.6	2.5

Towards CFS

From ICD — Station

Transit Cycle	May'20 (in hrs)	June'20 (in hrs)
ICD to Port	58.8	63.2
CFS to Port	2.7	2.9

From CFS

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

ICD   **CFS**

Entity	May'20 (in hrs)	June'20 (in hrs)
CFS	91.2	95.6
ICD	143.3	140.1

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	77%	23%
Export	73%	27%

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

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

Container Lifecycle (Export Cycle) ←

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (June'20 – in hrs)			Compared to May'20	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	37.6	42%	⬆
	Port Dwell Time for Truck Bound Containers	32.5	46%	⬆
	Port Dwell time for Train Bound Containers	50.9	23%	⬆
	Port Dwell time Direct Port Delivery (DPD) containers	54.0	30%	⬆
	Port Dwell time Containers bound for CFS	32.3	50%	⬆
	Port Dwell for Empty Containers	86.1	16%	⬇
	Port Dwell for Laden Containers	30.9	47%	⬆
TRANSIT TIME	Port to ICD	67.7	27%	⬆
	Port to CFS	2.5	3%	⬆

EXPORT CYCLE DWELL TIME (June'20– in hrs)			Compared to May'20	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	68.8	15%	⬇
	Port Dwell Time for Truck Bound Containers	67.7	10%	⬇
	Port Dwell time for Train Bound Containers	73.5	39%	⬇
	Port Dwell time Direct Port Entry (DPE) containers	71.7	6%	⬇
	Port Dwell time Containers bound from CFS	58.9	4%	⬇
	Port Dwell for Empty Containers	71.3	30%	⬇
	Port Dwell for Laden Containers	69.0	15%	⬇
TRANSIT TIME	ICD to Port	63.2	8%	⬇
	CFS to Port	2.9	5%	⬇

⬆⬇ The arrows depict increase/decrease in performance of the stakeholders in comparison to May'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	May'20 (in hrs)	June'20 (in hrs)
Overall Parking Plaza	4.57	5.6

Parking Plaza	May'20 (in hrs)	June'20 (in hrs)
APM-GTI Parking Plaza	4.4	5.4
JNPCT Parking Plaza	4.4	5.7
NSIGT Parking Plaza	4.9	5.9
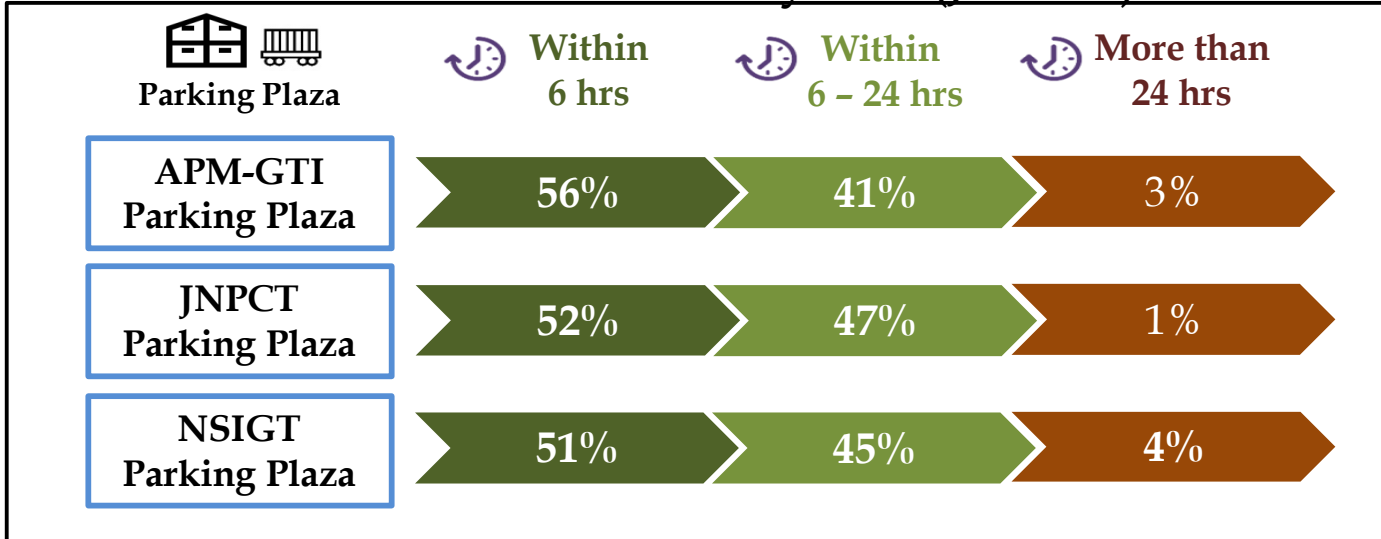
Parking Plaza Gate Out – Terminal In

Mode	May'20 (in hrs)	June'20 (in hrs)
Overall Parking Plaza to JNPT Port	1.3	1.7

Port	May'20 (in hrs)	June'20 (in hrs)
JNPCT	1.3	2.1
NSICT	1.1	1.2
GTI	1.2	1.6
NSIGT	1.0	1.1
BMCT	2.0	2.6

Container Handled: Day wise (June'20)

Parking Plaza	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
APM-GTI Parking Plaza	56%	41%	3%
JNPCT Parking Plaza	52%	47%	1%
NSIGT Parking Plaza	51%	45%	4%

Container Handled: Day wise (June'20)

Port Terminals	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPCT	85%	14%	1%
NSICT	90%	9%	1%
GTI	92%	7%	1%
NSIGT	87%	12%	1%
BMCT	84%	15%	1%

CFS/ICD Performance Benchmarking & Performance Index - Western Corridor
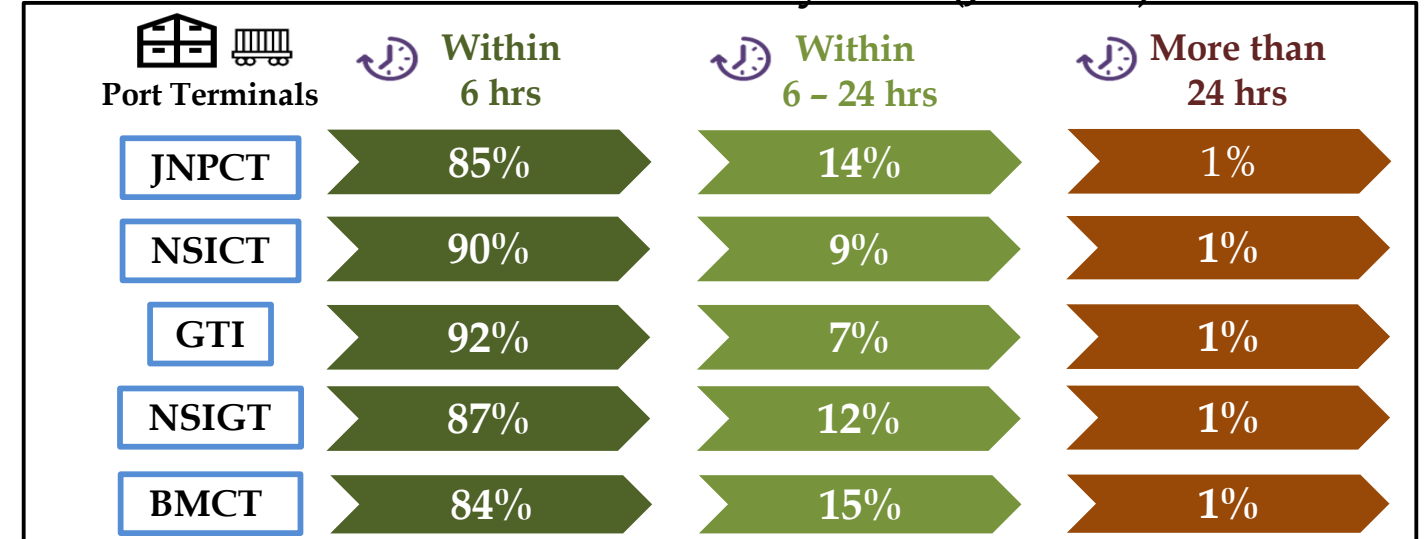
CFS | Performance Benchmarking | **ICD**

Top Performing CFS		
JWR CFS		
May'20	June'20	
73.0 hrs	75.9 hrs	↓

Low Performing CFS		
Navkar Corporation Yard 2 CFS, Panvel		
May'20	June'20	
103.8 hrs	117.1 hrs	↓

Top Performing ICD		
Albatross Inland Ports ICD, Dadri		
May'20	June'20	
144.3 hrs	105.3 hrs	↑

Low Performing ICD		
GatewayRail Freight ICD, Pyala		
May'20	June'20	
112.0 hrs	149.4 hrs	↓

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

Performance Index: Western Corridor CFS

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

JWR CFS

Container Volume — High

18 | 10 | 2

13 | 21

11

CWC Hind Terminal CFS, Navi Mumbai

Dwell Time

low | High

Quadrant : III
High Potential

Quadrant : IV
Laggard

8

6

9 | 12 | 23

3

16 | 19 | 20

22 | 1 | 4 | 17

Balmer & Lawrie CFS, Navi Mumbai

Navkar Corporation Yard 2 CFS, Panvel

Kindly refer to Annexure section for the names of CFS

Performance Index: ICD

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

Albatross Inland Ports ICD, Dadri

Container Volume — High

Gateway Rail Freight ICD, Gurgaon

Hind Terminals Logistics Park ICD, Palwal

Allcargo Logistics Park ICD, Dadri

CMA CGM Logistics Park, Dadri

Dwell Time

low | High

Adani Logistics Park ICD, Gurgaon

APM Terminals ICD, Dadri

ACTL ICD, Faridabad

GatewayRail Freight ICD, Pyala

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
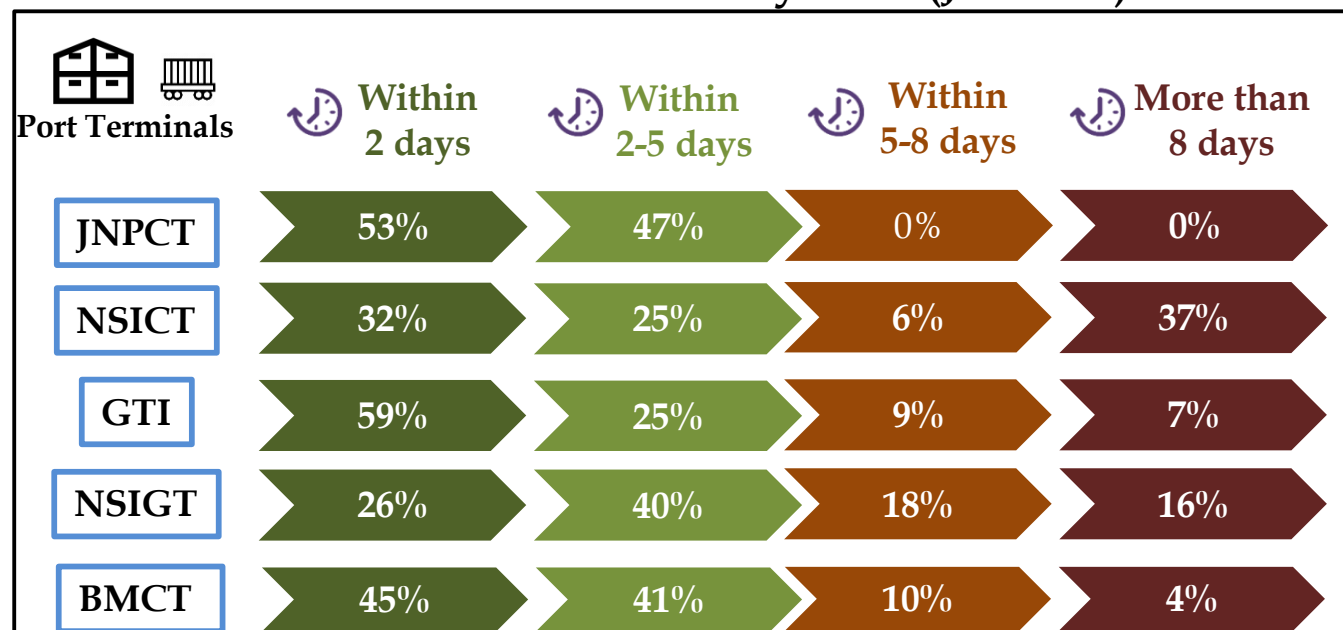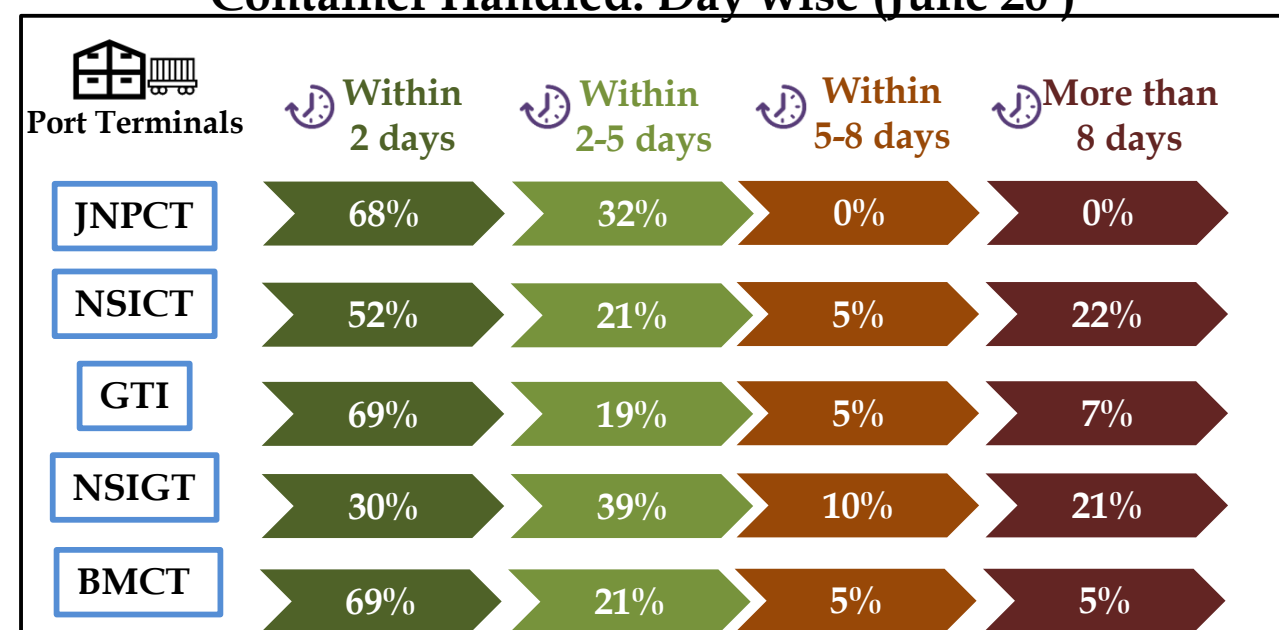
PORT IMPORT via TRAIN
(23% of total import volume at JNPT Port)

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	May'20 (in hrs)	June'20 (in hrs)
JNPCT	40.7	45.3
NSICT	95.0	83.5
GTI	51.5	36.3
NSIGT	83.6	83.3
BMCT	54.1	55.1

Container Handled: Day wise (June'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	53%	47%	0%	0%
NSICT	32%	25%	6%	37%
GTI	59%	25%	9%	7%
NSIGT	26%	40%	18%	16%
BMCT	45%	41%	10%	4%

PORT IMPORT via TRUCK
(77% 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	May'20 (in hrs)	June'20 (in hrs)
JNPCT	40.5	33.4
NSICT	80.6	43.6
GTI	53.1	25.4
NSIGT	73.9	77.9
BMCT	51.3	29.0

Container Handled: Day wise (June'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	68%	32%	0%	0%
NSICT	52%	21%	5%	22%
GTI	69%	19%	5%	7%
NSIGT	30%	39%	10%	21%
BMCT	69%	21%	5%	5%

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

June'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	56.1 hrs	42.0 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	35.9 hrs	84.3 hrs

GTI

Port Dwell time based on transit type

June'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	52.8 hrs	25.1 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	23.7 hrs	81.6 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

June'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	-	28.0 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	27.1 hrs	92.1 hrs

NSIGT

Port Dwell time based on transit type

June'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	-	72.6 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	69.3 hrs	-

BMCT

Port Dwell time based on transit type

June'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	51.3 hrs	28.3 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	30.3 hrs	69.6 hrs

JNPT Region: Congestion Analysis (Import Cycle)

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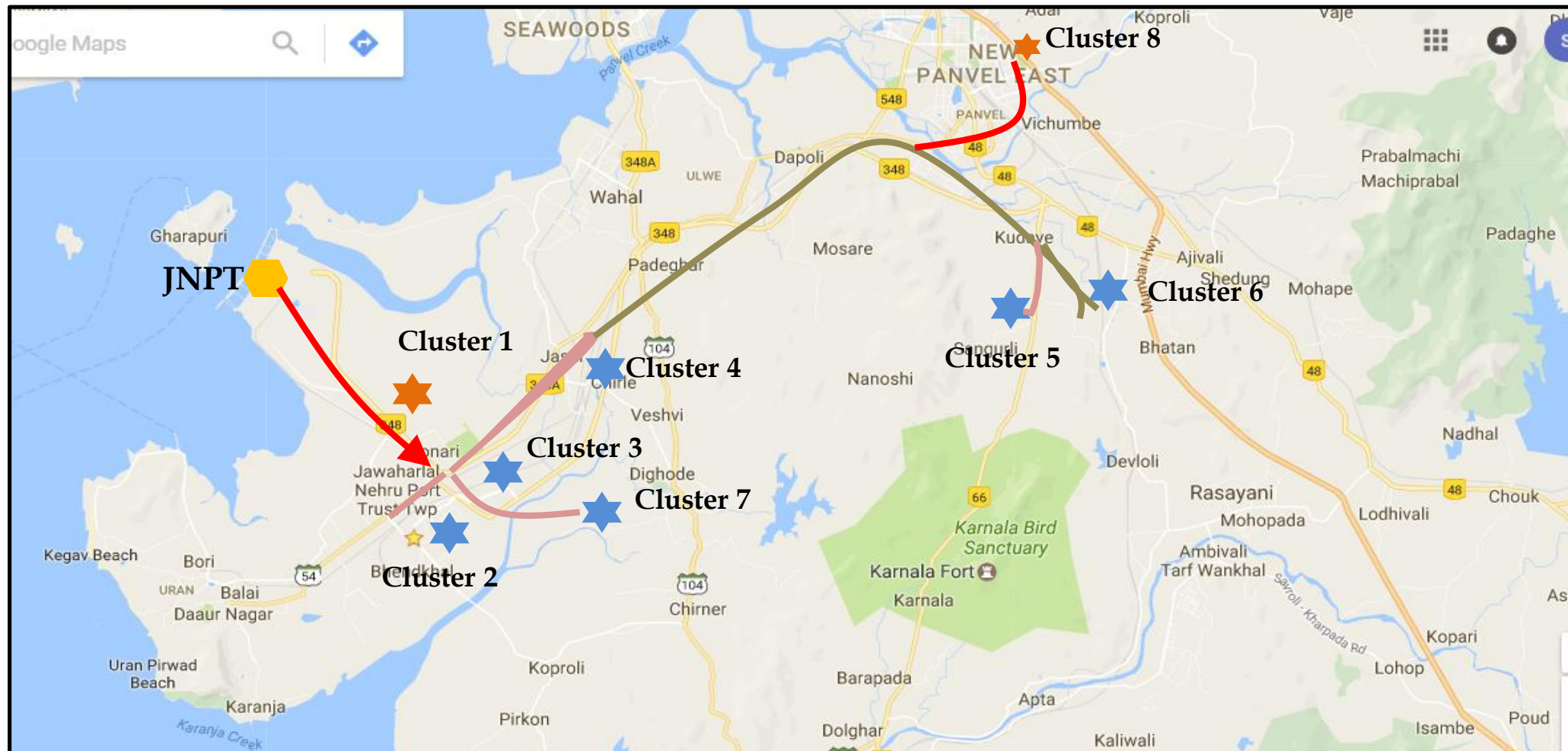
Clusters with bottleneck	
CLUSTER 1	JNPT Area

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
- 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	June'20
Mumbai region	70%
NH3	4%
Pune	4%
NH8	13%
others	10%

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

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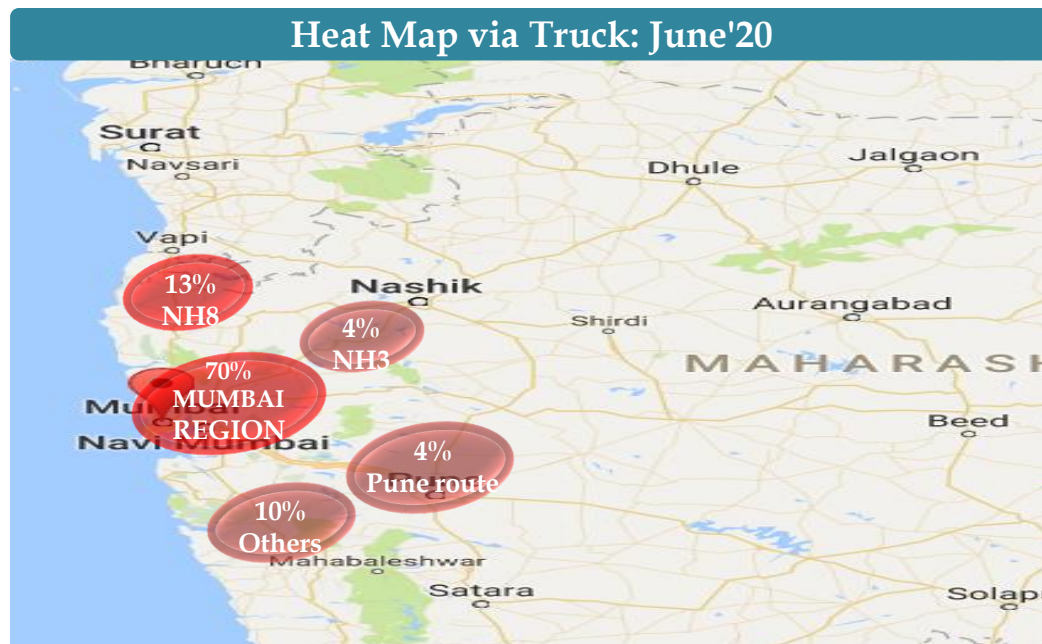
Train
VOLUME WISE CONTAINER MOVEMENT

Region	June'20
Vadodra Route	33%
Ratlam Route	26%
Wardha Route	16%
Kota Route	22%
Bhopal Route	3%

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

Container movement via Rail – June'20

Western Corridor Toll Plaza Analysis
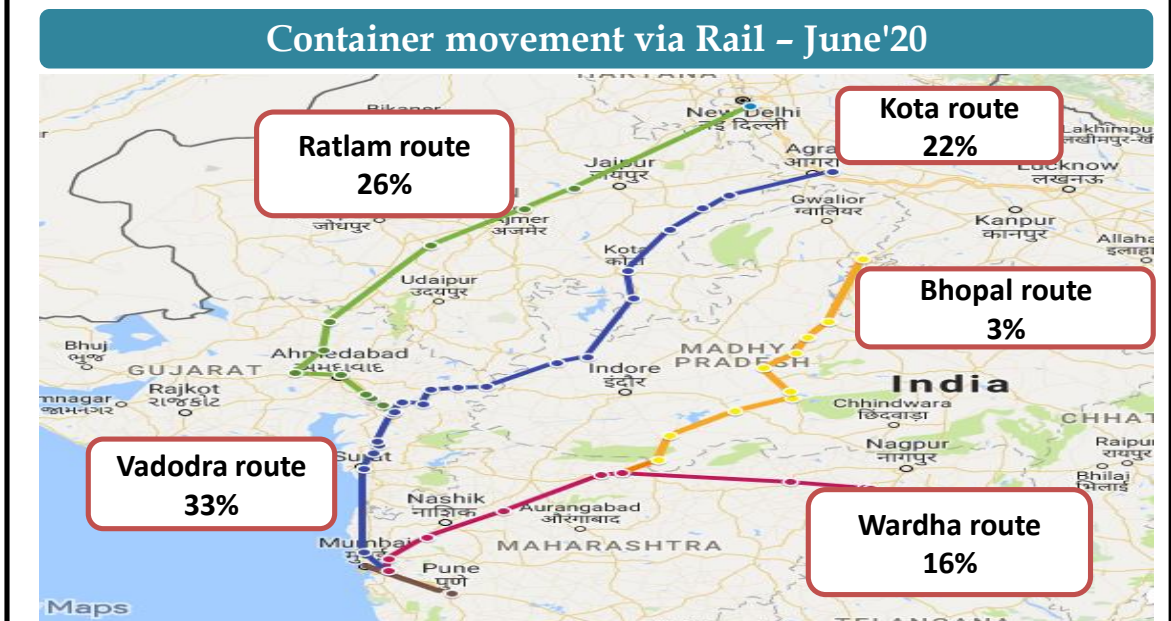
Avg. Speed between Toll Plazas

Source	Destination Toll Plaza	Inter Distance (Km)	May'20 (in km/hrs)	June'20 (in km/hrs)
JNPT	Khaniwade	94	17.0	14.3
JNPT	Khalapur	60	4.0	3.3
Khaniwade	Charoti	50	33.6	30.8
Charoti	Boriach	126	29.5	29.2
Boriach	Bharthan	142	33.2	35.1
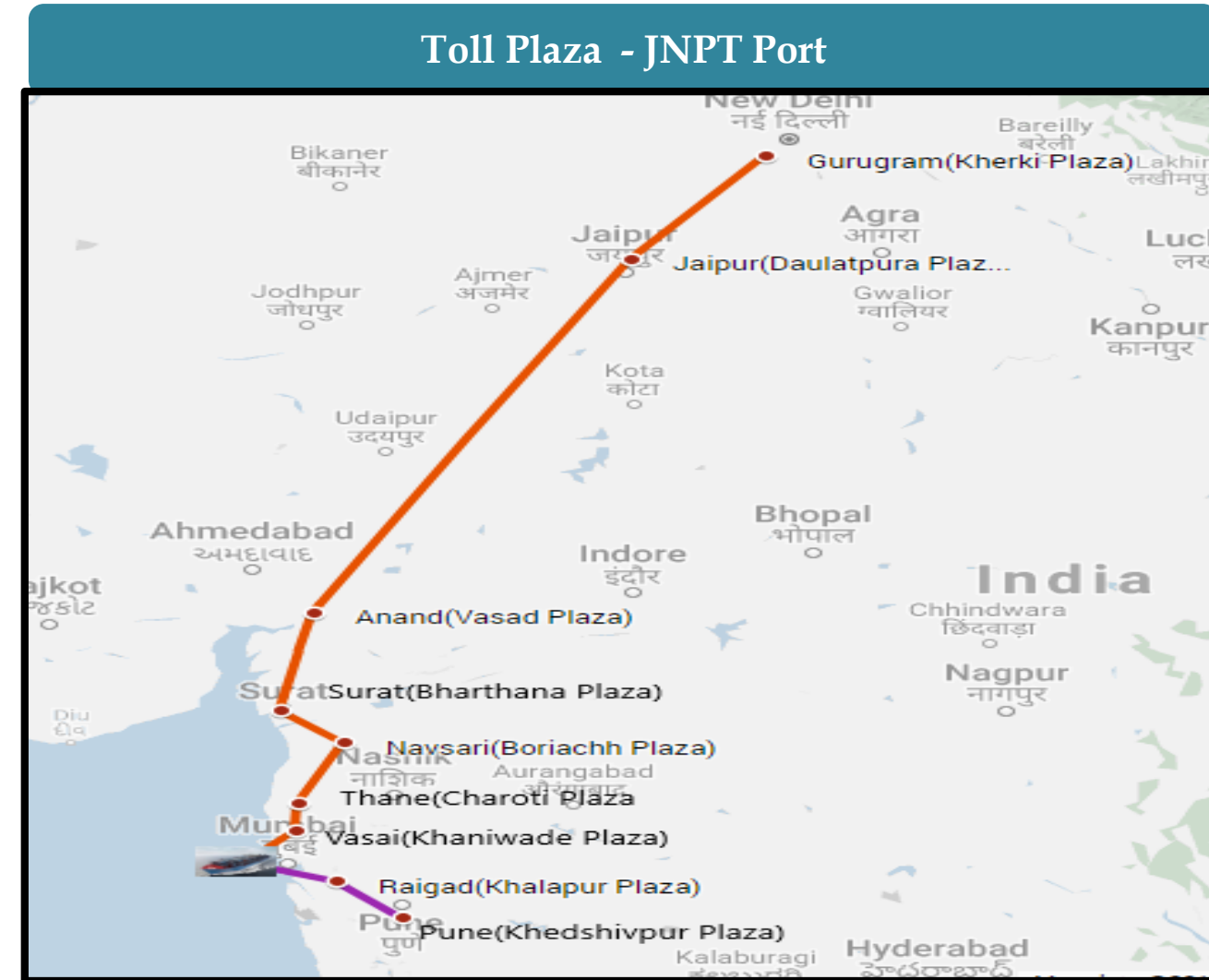
(Source column grouped under: JNPT)

Toll Plaza - JNPT Port

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
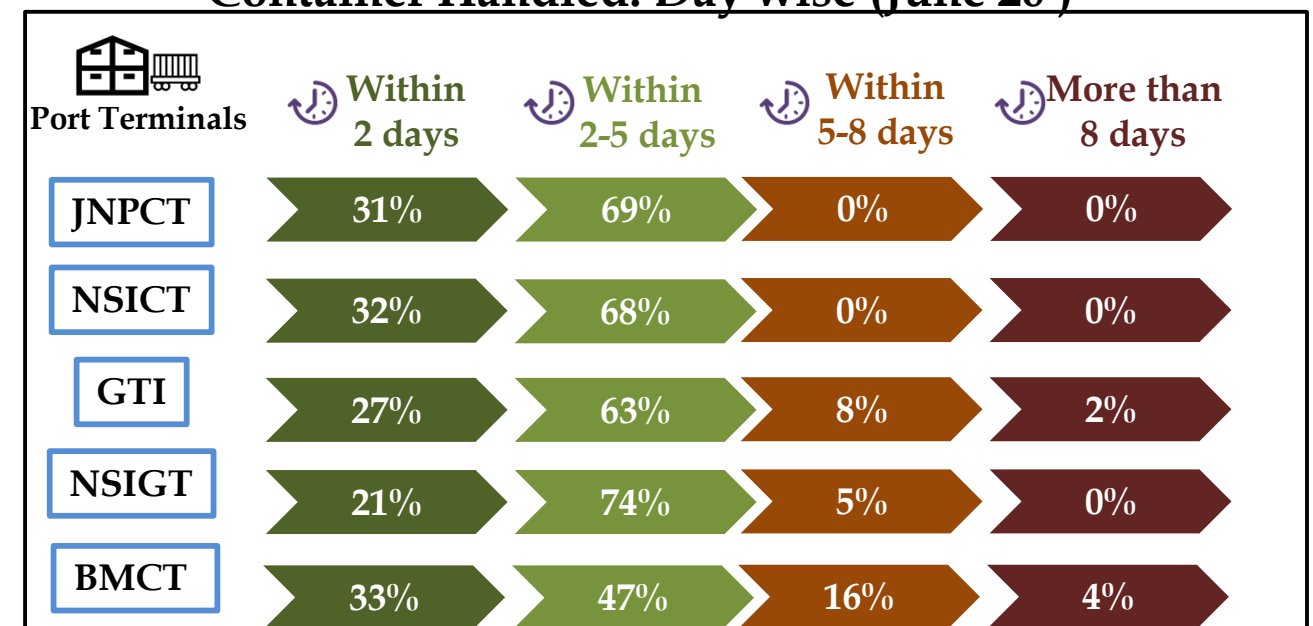
PORT EXPORT via TRAIN
(27% of total export volume at JNPT Port)

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	May'20 (in hrs)	June'20 (in hrs)
JNPCT	66.9	58.2
NSICT	11.3	38.9
GTI	100.0	114.6
NSIGT	79.3	71.7
BMCT	70.8	86.1

Container Handled: Day wise (June'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	25%	75%	0%	0%
NSICT	58%	41%	1%	0%
GTI	16%	36%	27%	21%
NSIGT	26%	58%	16%	0%
BMCT	31%	30%	23%	16%
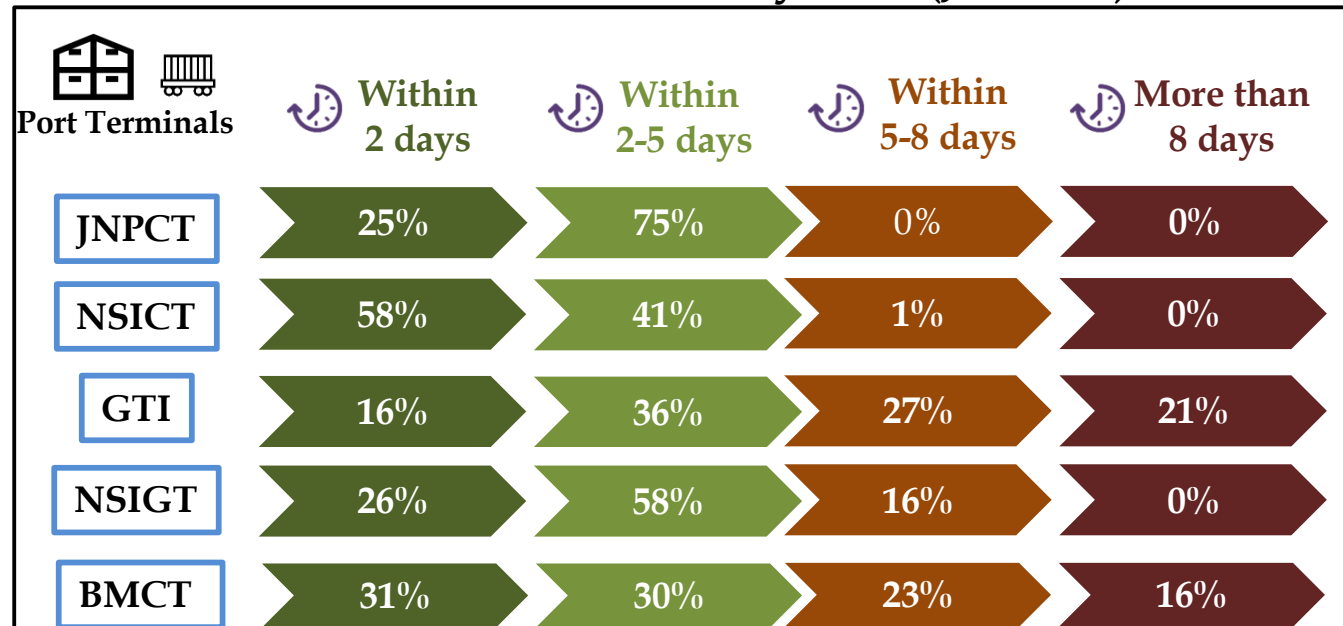
PORT EXPORT via TRUCK
(73% of total export volume at JNPT Port)

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	May'20 (in hrs)	June'20 (in hrs)
JNPCT	54.5	65.1
NSICT	58.9	65.4
GTI	63.8	68.9
NSIGT	68.8	76.4
BMCT	58.9	67.5

Container Handled: Day wise (June'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	31%	69%	0%	0%
NSICT	32%	68%	0%	0%
GTI	27%	63%	8%	2%
NSIGT	21%	74%	5%	0%
BMCT	33%	47%	16%	4%

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 June'20

JNPCT

### Port Dwell time based on transit type

June'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	69.3 hrs	53.3 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	61.3 hrs	68.2 hrs

GTI

Port Dwell time based on transit type

June'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	74.5 hrs	61.5 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	73.7 hrs	64.7 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 June'20

NSICT

Port Dwell time based on transit type

June'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	68.3 hrs	58.7 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	67.5 hrs	81.9 hrs

NSIGT

Port Dwell time based on transit type

June'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	77.1 hrs	68.1 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	76.2 hrs	-

BMCT

Port Dwell time based on transit type

June'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	55.6 hrs

Port Dwell time based on container type

June'20	Laden Containers	Empty Containers
Dwell time (in hrs)	66.1 hrs	81.6 hrs

The Below map indicate congestion around JNPT region in Export Cycle in month of June'20
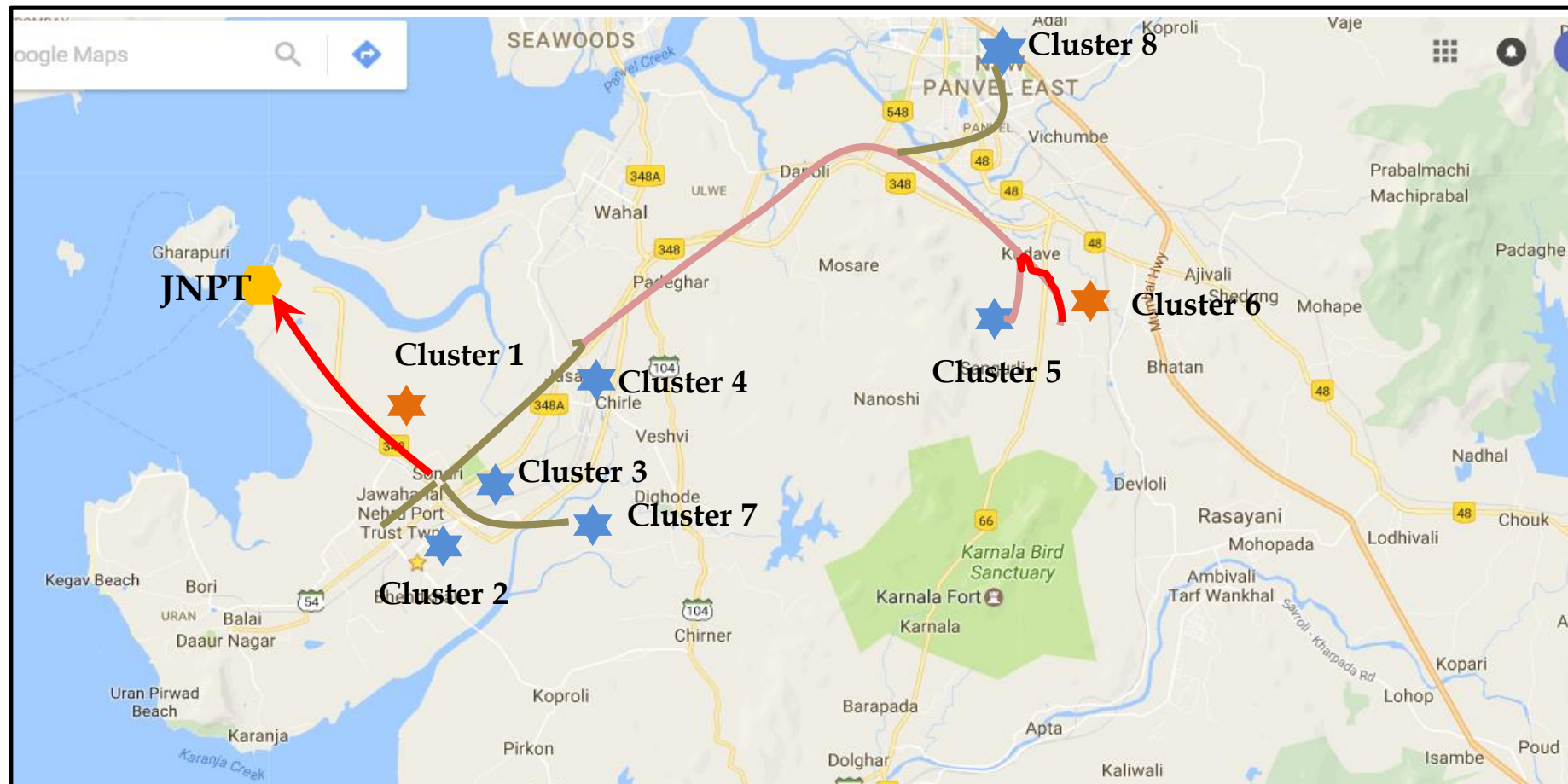
Clusters with bottleneck

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 Region: Container Movement via Train

JNPT Port	
Route	**Percentage of Container Movement**
Vadodra Route	31%
Ratlam Route	25%
Wardha Route	29%
Kota Route	9%
Bhopal Route	6%

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

Container movement via Rail – June'20
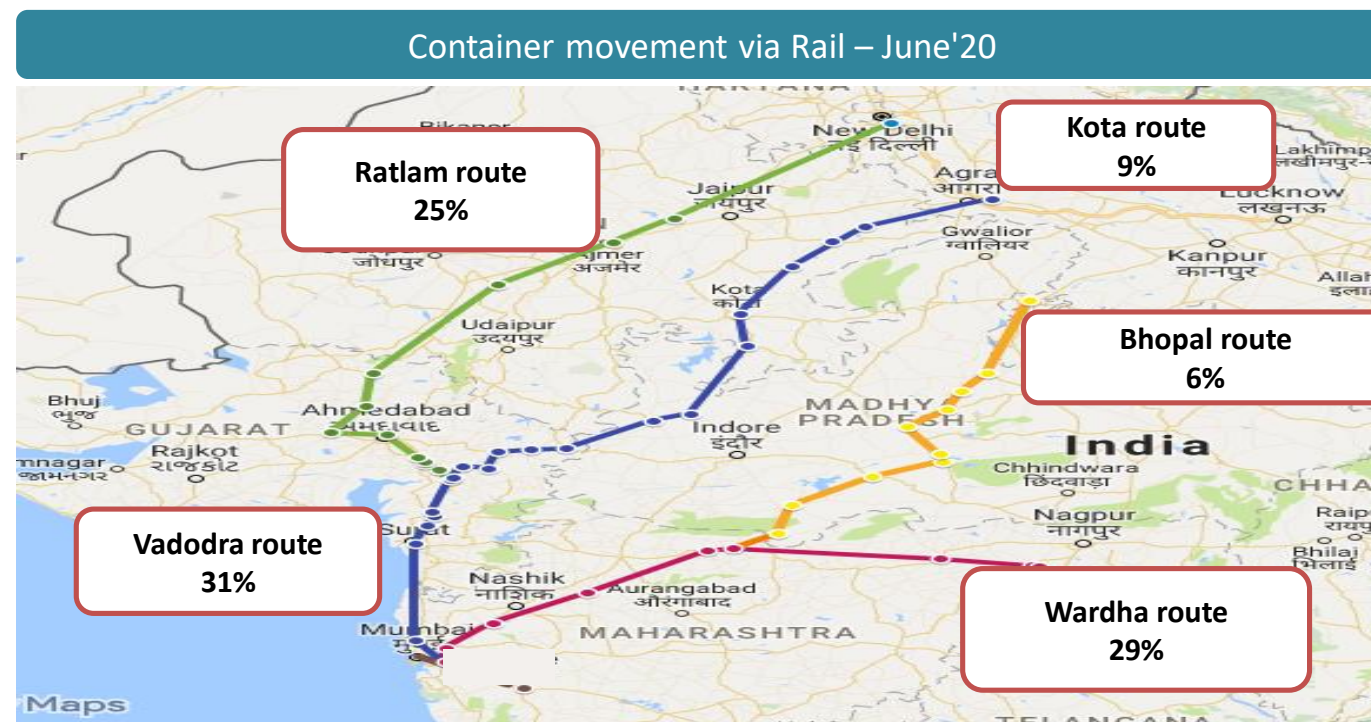
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)

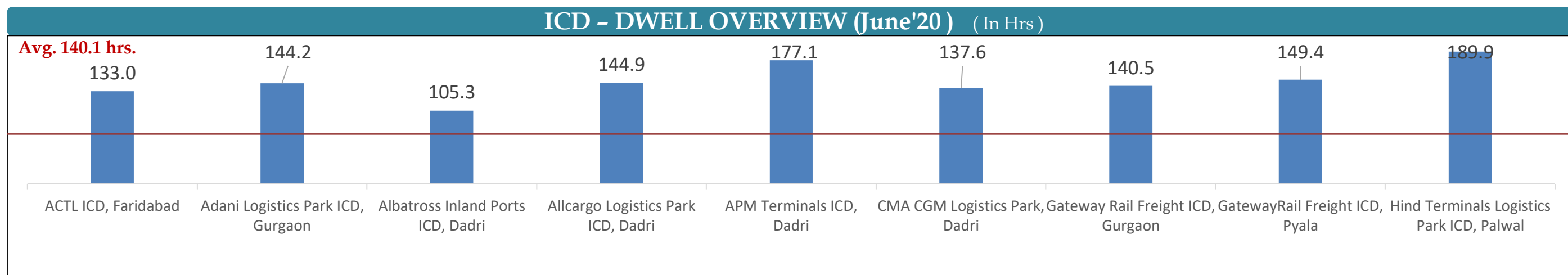| CFS	May'20	June'20	CFS	May'20	June'20
AllCargo Logistics	-	96.4	JWC Logistics Park CFS	95.9	97.1
Ameya Logistics CFS, Navi Mumbai	86.0	90.7	JWR CFS	73.0	75.9
APM (Maersk India) CFS, Navi Mumbai	89.5	100.2	Navkar Corporation Yard 2 CFS, Panvel	103.8	117.1
Apollo Logisolutions CFS, Panvel	98.2	102.0	Navkar Corporation Yard 3 CFS, Panvel	100.4	90.1
Balmer & Lawrie CFS, Navi Mumbai	-	78.9	Ocean Gate CFS, Panvel	-	105.1
Continental Warehousing CFS, Navi Mumbai	-	93.3	Punjab Conware CFS, Navi Mumbai	75.3	81.6
CWC Hind Terminal CFS, Navi Mumbai	114.1	114.1	Sarveshwar CFS	-	92.8
Dronagiri Rail Terminal CFS, Navi Mumbai	89.7	92.1	Seabird CFS, Navi Mumbai	-	97.9
EFC Logistics India	74.4	96.5	Speedy Multimode CFS, JNPT	73.7	98.3
Gateway Distriparks CFS, Navi Mumbai	82.9	88.2	TG Terminals CFS	-	95.0
International Cargo Terminal CFS	97.1	101.3	Vaishno Logistics CFS, Navi Mumbai	76.8	99.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	96.7			

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

Average: 95.6 hrs.
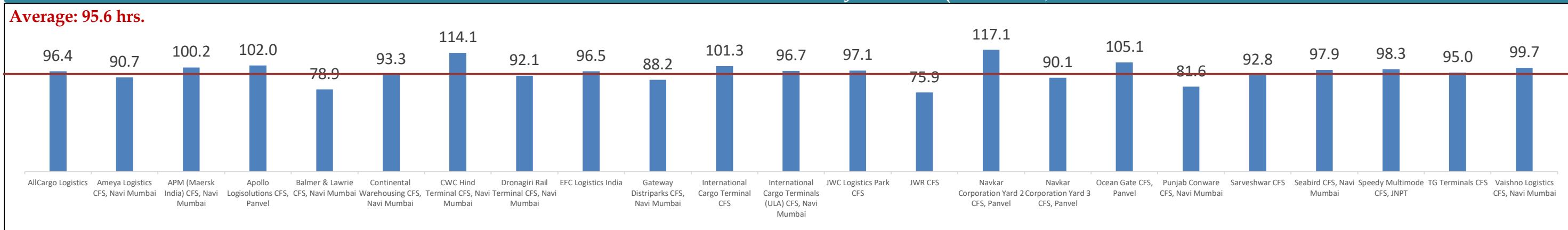
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	**May'20 (in hrs)**	**June'20 (in hrs)**
ACTL ICD, Faridabad	118.0	133.0
Adani Logistics Park ICD, Gurgaon	148.0	144.2
Albatross Inland Ports ICD, Dadri	144.3	105.3
Allcargo Logistics Park ICD, Dadri	144.0	144.9
APM Terminals ICD, Dadri	145.0	177.1
CMA CGM Logistics Park, Dadri	156.9	137.6
Gateway Rail Freight ICD, Gurgaon	122.2	140.5
GatewayRail Freight ICD, Pyala	112.0	149.4
Hind Terminals Logistics Park ICD, Palwal	156.6	189.9

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

Avg. 140.1 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
133.0	144.2	105.3	144.9	177.1	137.6	140.5	149.4	189.9

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 June'20

Import Cycle

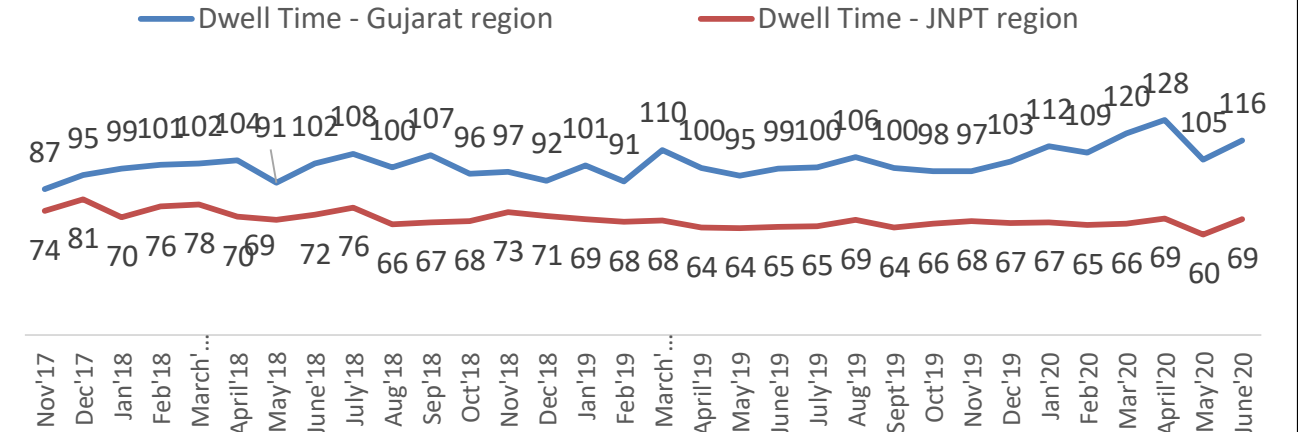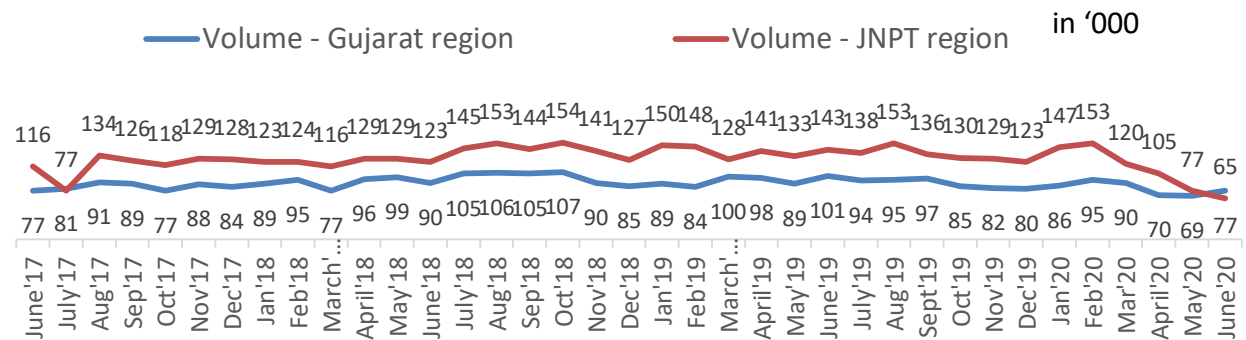### Dwell Time – Gujarat Region Vs JNPT Region
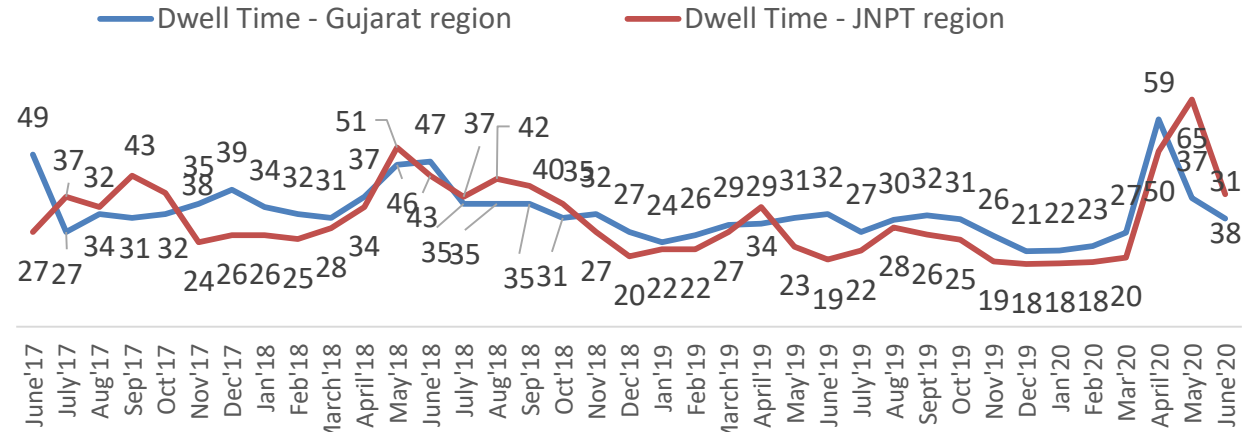
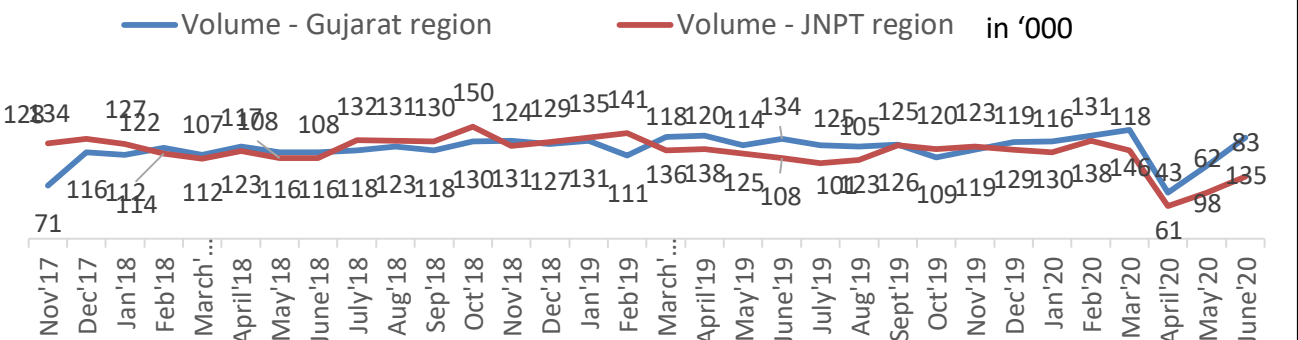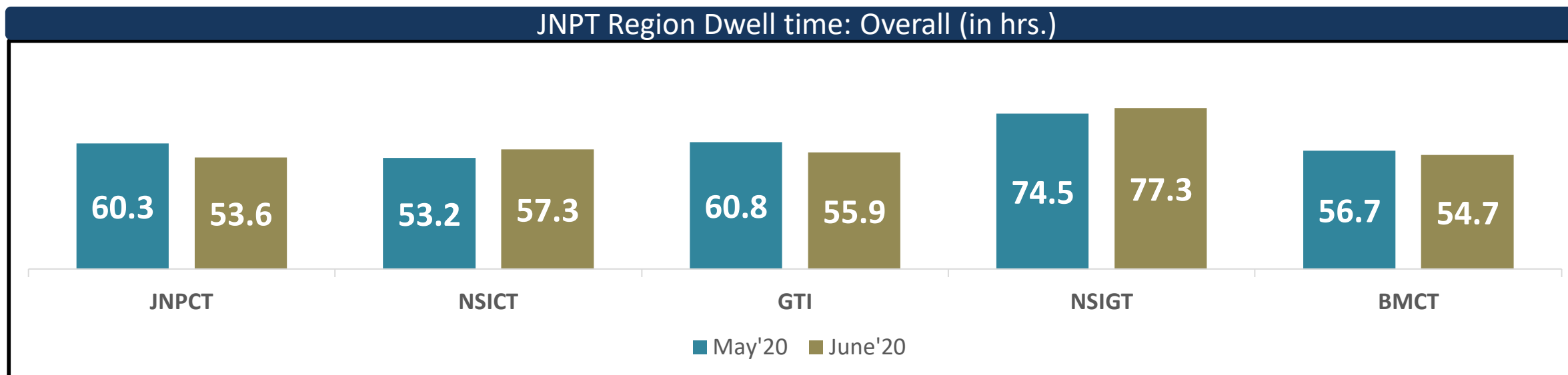### Volume – Gujarat Region Vs JNPT Region

In Import cycle, for the month of June'20 JNPT port has catered 16% **less volume** than APSEZ Port, and has maintained 22% **higher 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 June'20 JNPT port catered 39% **more volume** then JNPT Port, and has maintained 41% **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
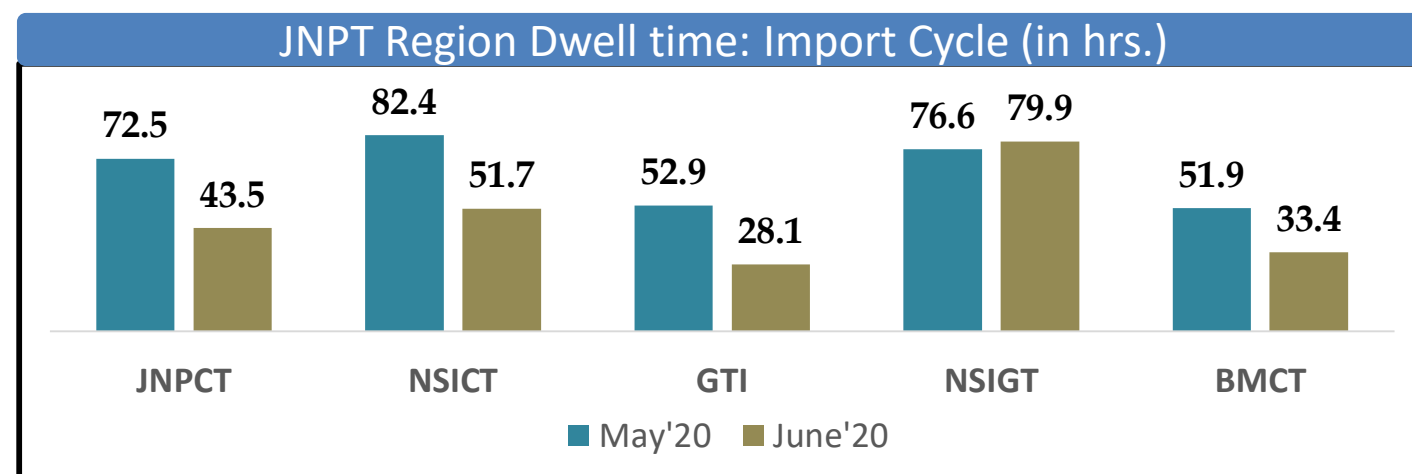
JNPT Region Dwell time: Overall (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
May'20	60.3	53.2	60.8	74.5	56.7
June'20	53.6	57.3	55.9	77.3	54.7

■ May'20 ■ June'20

> The overall JNPT region average dwell time for June'20 is **57.4 hrs** as compared to **62.0 hrs** in May'20

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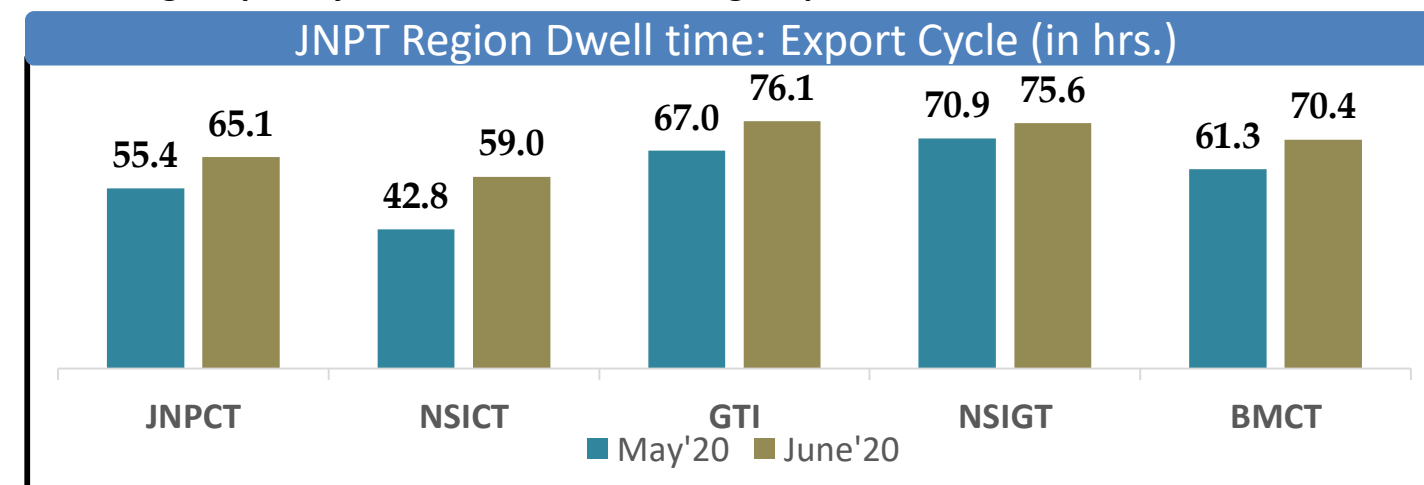
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for June'20 is **37.6 hrs.**

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

	JNPCT	NSICT	GTI	NSIGT	BMCT
May'20	72.5	82.4	52.9	76.6	51.9
June'20	43.5	51.7	28.1	79.9	33.4

■ May'20 ■ June'20

JNPT Export cycle Trend

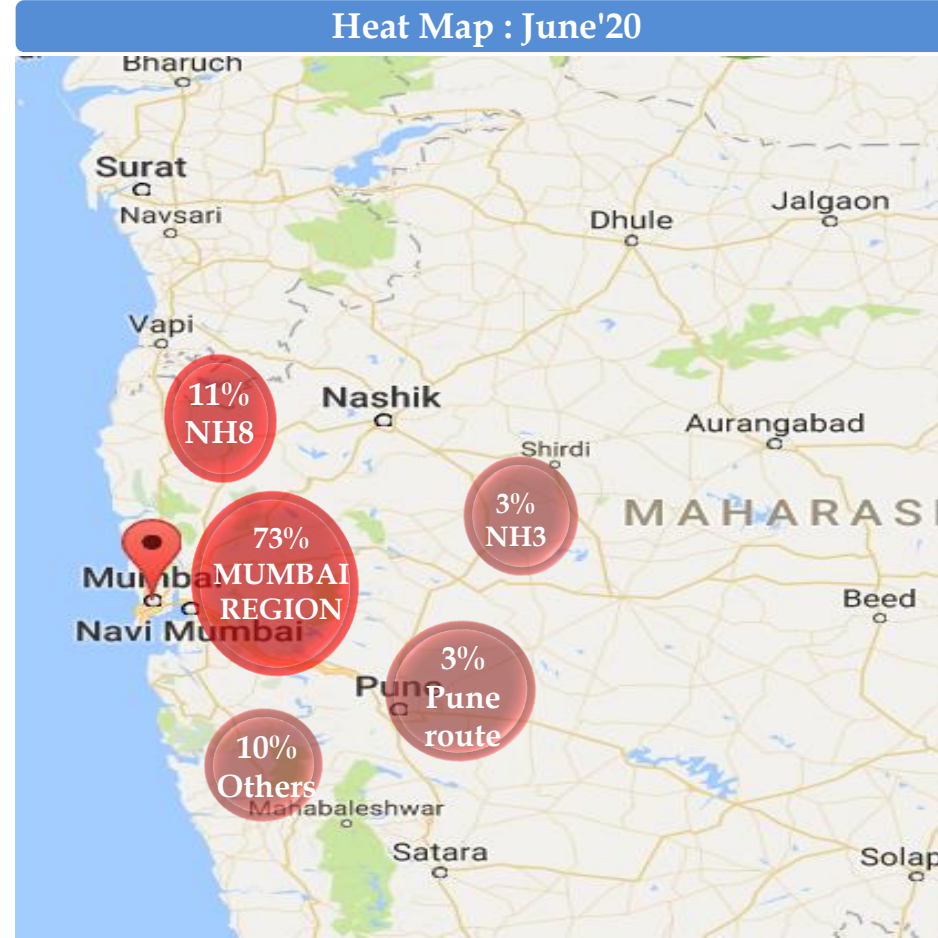The average export cycle dwell time of JNPT region port terminals for June'20 is **68.8 hrs.**

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

	JNPCT	NSICT	GTI	NSIGT	BMCT
May'20	55.4	42.8	67.0	70.9	61.3
June'20	65.1	59.0	76.1	75.6	70.4

■ May'20 ■ June'20

ANNEXURE

Container movement around JNPT Port terminal region via Truck

HEAT MAP : GTI Port Terminal

Heat Map : June'20

Region	May'20	June'20
Mumbai region	79%	65%
NH3	2%	6%
Pune	2%	5%
NH8	7%	14%
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 : June'20

Region	May'20	June'20
Mumbai region	81%	73%
NH3	1%	3%
Pune	1%	3%
NH8	7%	11%
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 : June'20

Region	May'20	June'20
Mumbai region	86%	75%
NH3	1%	4%
Pune	1%	2%
NH8	2%	9%
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 : June'20

Region	May'20	June'20
Mumbai region	87%	70%
NH3	0%	4%
Pune	1%	2%
NH8	2%	13%
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 : June'20

Region	May'20	June'20
Mumbai region	83%	70%
NH3	1%	3%
Pune	1%	5%
NH8	5%	12%
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 June'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	**JNPCT**	**GTI**	**NSICT**	**NSIGT**	**BMCT**
Gateway Distriparks CFS, Navi Mumbai	2.0	2.1	1.4	1.7	2.2
Punjab Conware CFS, Navi Mumbai	1.8	2.6	2.0	1.6	2.6
JWC Logistics Park CFS	3.1	3.2	2.3	2.3	3.4
CWC Hind Terminal CFS, Navi Mumbai	1.9	2.6	2.2	1.2	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	2.2	2.1	1.6	1.3	2.5
Navkar Corporation Yard 2 CFS, Panvel	4.5	8.2	7.8	3.3	6.1
Vaishno Logistics CFS, Navi Mumbai	2.7	2.3	2.0	1.7	2.3
Speedy Multimode CFS, JNPT	2.2	2.8	1.8	2.2	2.1
Balmer & Lawrie CFS, Navi Mumbai	3.0	5.4	3.8	26.9	26.9
Navkar Corporation Yard 3 CFS, Panvel	7.0	6.0	5.4	18.7	5.8
Ashte Logistics CFS, Panvel	5.3	4.4	2.5	-	3.0
Continental Warehousing CFS, Navi Mumbai	2.3	3.6	2.0	1.4	2.6
SBW Logistics CFS, Navi Mumbai	3.5	4.5	7.5	-	6.0
Maharashtra State Corp CFS	3.2	2.5	2.1	2.4	3.0
Internation Cargo Terminal CFS	1.9	3.2	2.0	2.4	2.7
Seabird CFS, Navi Mumbai	2.7	4.0	2.2	4.3	3.2
Apollo Logisolutions CFS, Panvel	2.9	4.0	3.6	2.2	3.2
Ameya Logistics CFS, Navi Mumbai	2.5	2.7	2.2	2.0	3.1
Transindia Logistics Park, Navi Mumbai	2.0	2.9	1.8	1.9	3.9
Ocean Gate CFS, Panvel	4.2	3.8	2.8	2.4	3.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.3	2.9	2.1	1.5	4.1
Indev Logistics CFS, Panvel	3.0	4.5	4.3	-	3.7
CWC Dronagiri CFS, Navi Mumbai	1.5	-	-	-	2.9
APM (Maersk India) CFS, Navi Mumbai	2.1	2.4	1.7	1.1	3.4

CFS DELIVERY TIME ANALYSIS

DLDS
DMICDC LOGISTICS DATA SERVICES LTD
Logistics Redefined

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	**June'20 (in hrs)**
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	2.0
Ameya Logistics CFS, Navi Mumbai	2.3
Transindia Logistics Park, Navi Mumbai	2.1
Indev Logistics CFS, Panvel	3.5
Navkar Corporation Yard 3 CFS, Panvel	4.2
Seabird CFS, Navi Mumbai	2.1
Balmer & Lawrie CFS, Navi Mumbai	3.0
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.8
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	4.5
Navkar Corporation Yard 1 CFS, Panvel	3.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.3
Maersk Annex (APM)CFS, Navi Mumbai	3.4
Speedy Multimode CFS, JNPT	2.4
Apollo Logisolutions CFS, Panvel	4.2
Navkar Corporation Yard 2 CFS, Panvel	3.2
Punjab Conware CFS, Navi Mumbai	2.4
Vaishno Logistics CFS, Navi Mumbai	3.6
JWC Logistics Park CFS	4.2
SBW Logistics CFS, Navi Mumbai	6.4
Ocean Gate CFS, Panvel	2.9
Maharashtra State Corp CFS	2.1

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	**June'20 (in hrs)**
Gateway Distriparks CFS, Navi Mumbai	2.2
APM (Maersk India) CFS, Navi Mumbai	1.7
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	1.9
Indev Logistics CFS, Panvel	3.5
Navkar Corporation Yard 3 CFS, Panvel	3.9
Seabird CFS, Navi Mumbai	1.7
Balmer & Lawrie CFS, Navi Mumbai	2.3
Ashte Logistics CFS, Panvel	2.5
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.4
Dronogiri Rail Terminal CFS, Navi Mumbai	35.8
Navkar Corporation Yard 1 CFS, Panvel	3.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.7
Maersk Annex (APM)CFS, Navi Mumbai	3.3
Speedy Multimode CFS, JNPT	1.5
Apollo Logisolutions CFS, Panvel	3.8
Navkar Corporation Yard 2 CFS, Panvel	3.2
Punjab Conware CFS, Navi Mumbai	2.3
Vaishno Logistics CFS, Navi Mumbai	1.6
JWC Logistics Park CFS	3.7
SBW Logistics CFS, Navi Mumbai	4.5
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	1.4

CFS DELIVERY TIME ANALYSIS

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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	June'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	1.7
Internation Cargo Terminal CFS	1.8
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	3.5
Navkar Corporation Yard 3 CFS, Panvel	2.7
Seabird CFS, Navi Mumbai	2.7
Balmer & Lawrie CFS, Navi Mumbai	2.8
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	4.1
Navkar Corporation Yard 1 CFS, Panvel	3.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.7
Maersk Annex (APM)CFS, Navi Mumbai	2.7
Speedy Multimode CFS, JNPT	1.5
Apollo Logisolutions CFS, Panvel	4.6
Navkar Corporation Yard 2 CFS, Panvel	5.2
Punjab Conware CFS, Navi Mumbai	2.1
Vaishno Logistics CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	3.6
SBW Logistics CFS, Navi Mumbai	8.6
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	15.3

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	June'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	1.6
Internation Cargo Terminal CFS	3.1
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	1.8
Indev Logistics CFS, Panvel	4.2
Navkar Corporation Yard 3 CFS, Panvel	12.9
Seabird CFS, Navi Mumbai	-
Balmer & Lawrie CFS, Navi Mumbai	3.4
Ashte Logistics CFS, Panvel	2.6
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.6
Dronogiri Rail Terminal CFS, Navi Mumbai	2.9
Navkar Corporation Yard 1 CFS, Panvel	5.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.7
Maersk Annex (APM)CFS, Navi Mumbai	2.8
Speedy Multimode CFS, JNPT	1.3
Apollo Logisolutions CFS, Panvel	4.7
Navkar Corporation Yard 2 CFS, Panvel	2.7
Punjab Conware CFS, Navi Mumbai	3.9
Vaishno Logistics CFS, Navi Mumbai	2.5
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	7.4
Ocean Gate CFS, Panvel	3.2
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	June'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	1.7
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	3.0
Navkar Corporation Yard 3 CFS, Panvel	3.2
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	2.6
Ashte Logistics CFS, Panvel	2.2
Continental Warehousing CFS, Navi Mumbai	1.9
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	1.9
Navkar Corporation Yard 1 CFS, Panvel	3.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	2.7
Speedy Multimode CFS, JNPT	2.1
Apollo Logisolutions CFS, Panvel	4.0
Navkar Corporation Yard 2 CFS, Panvel	2.5
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	3.7
JWC Logistics Park CFS	3.7
SBW Logistics CFS, Navi Mumbai	4.3
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	2.6

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 June'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	2.8
Cluster 2	6	13	2.3	2.7
Cluster 3	6	11	2.3	2.6
Cluster 4	1	13	3.6	2.3
Cluster 5	2	25	3.6	3.5
Cluster 6	6	25	3.5	4.5
Cluster 7	4	12	2.1	2.9
Cluster 8	1	34	6.4	4.5

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of June'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	2.2
Cluster 2	6	13	1.9	2.1
Cluster 3	6	11	2.0	2.5
Cluster 4	1	13	1.6	2.7
Cluster 5	2	25	3.5	3.7
Cluster 6	6	25	3.6	4.5
Cluster 7	4	12	1.9	2.3
Cluster 8	1	34	4.5	3.5

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 June'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	1.8
Cluster 2	6	13	2.4	2.0
Cluster 3	6	11	3.4	2.0
Cluster 4	1	13	2.1	0.0
Cluster 5	2	25	3.3	2.5
Cluster 6	6	25	3.5	4.3
Cluster 7	4	12	2.1	2.0
Cluster 8	1	34	8.6	7.5

CFS Cluster : NSIGT Terminal

JNPCT terminal for month of June'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	1.3	2.2
Cluster 2	6	13	2.7	1.6
Cluster 3	6	11	2.0	2.0
Cluster 4	1	13	2.5	1.7
Cluster 5	2	25	3.0	2.4
Cluster 6	6	25	4.5	2.2
Cluster 7	4	12	1.8	1.9
Cluster 8	1	34	7.4	0.0

CFS Cluster : BMCT Terminal

JNPCT terminal for month of June'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	2.1	2.1
Cluster 2	6	13	2.2	3.1
Cluster 3	6	11	2.0	2.8
Cluster 4	1	13	3.7	2.3
Cluster 5	2	25	3.4	3.4
Cluster 6	6	25	3.0	3.7
Cluster 7	4	12	2.1	3.1
Cluster 8	1	34	4.3	6.0

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 (map):
- 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

Map callouts: 14, 106, 25
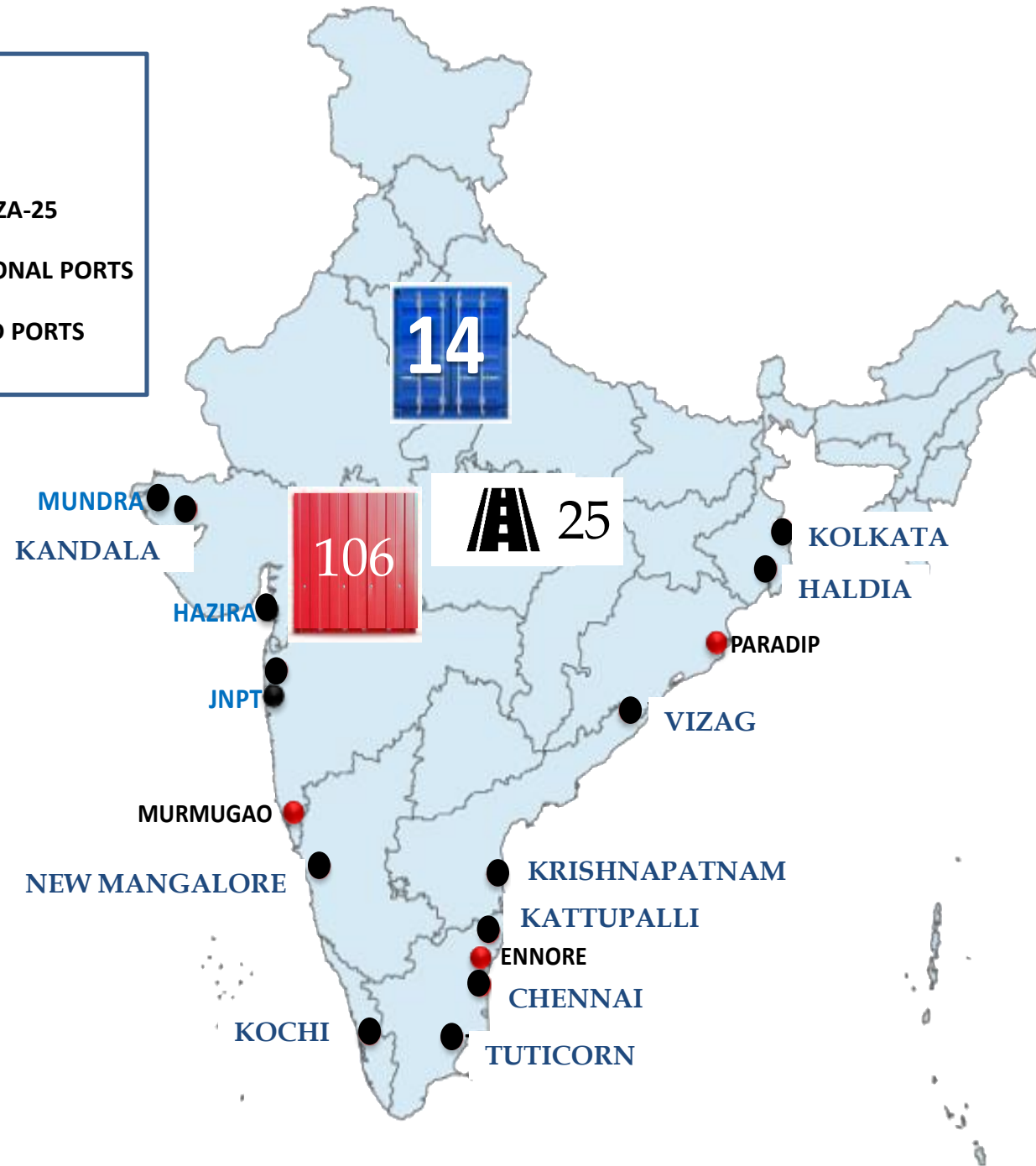
Below mentioned are all the CFS in the respective Clusters :

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 8
SBW

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

List of CFS name used in CFS Performance Index

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

THANK YOU