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Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	Jan'20 (in hrs)	Feb'20 (in hrs)
JNPCT	21.1	23.1
NSICT	18.2	18.7
GTI	15.3	15.2
NSIGT	19.8	20.3
BMCT/PSA	19.8	19.2

Export Cycle		
Port	Jan'20 (in hrs)	Feb'20 (in hrs)
JNPCT	22.4	69.1
NSICT	35.5	52.9
GTI	26.8	65.1
NSIGT	15.8	69.1
BMCT/PSA	21.6	66.7

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- In Import Cycle, Truck bound container handling performance at Port Terminal has deteriorated which has led to decrease Port to CFS Transit Time and CFS Dwell Time
- Parking plaza at JNPT has also seen the increase in the waiting time

Month	Import Cycle – Dwell Time (Truck Bound)	Port to CFS	CFS Dwell Time	Parking Plaza Dwell Time
Feb'20	17.1 hrs 4%	2.4 hrs 3%	82.1 hrs 5%	7.4 hrs 7%
Jan'20	16.4 hrs	2.3 hrs	78.5 hrs	6.9 hrs

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	Jan'20 (in hrs)	Feb'20 (in hrs)
Overall	19.2	19.9
Truck	17.52	18.6
Train	35.2	33.4

EXPORT

Mode	Jan'20 (in hrs)	Feb'20 (in hrs)
Overall	84.2	81.6
Truck	83.6	80.6
Train	89.6	90.0

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 Jan'20

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

Entity	Jan'20 (in hrs)	Feb'20 (in hrs)
CFS	80.7	82.5
ICD	122.5	124.5

Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – Feb'20

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High
Container Volume

GTI

AICT

MICT

NSIGT

BMCT

NSICT

JNPCT

AMCT

ACMTTL

AHPPL

Dwell Time

low

High

low

Quadrant : III
High Potential

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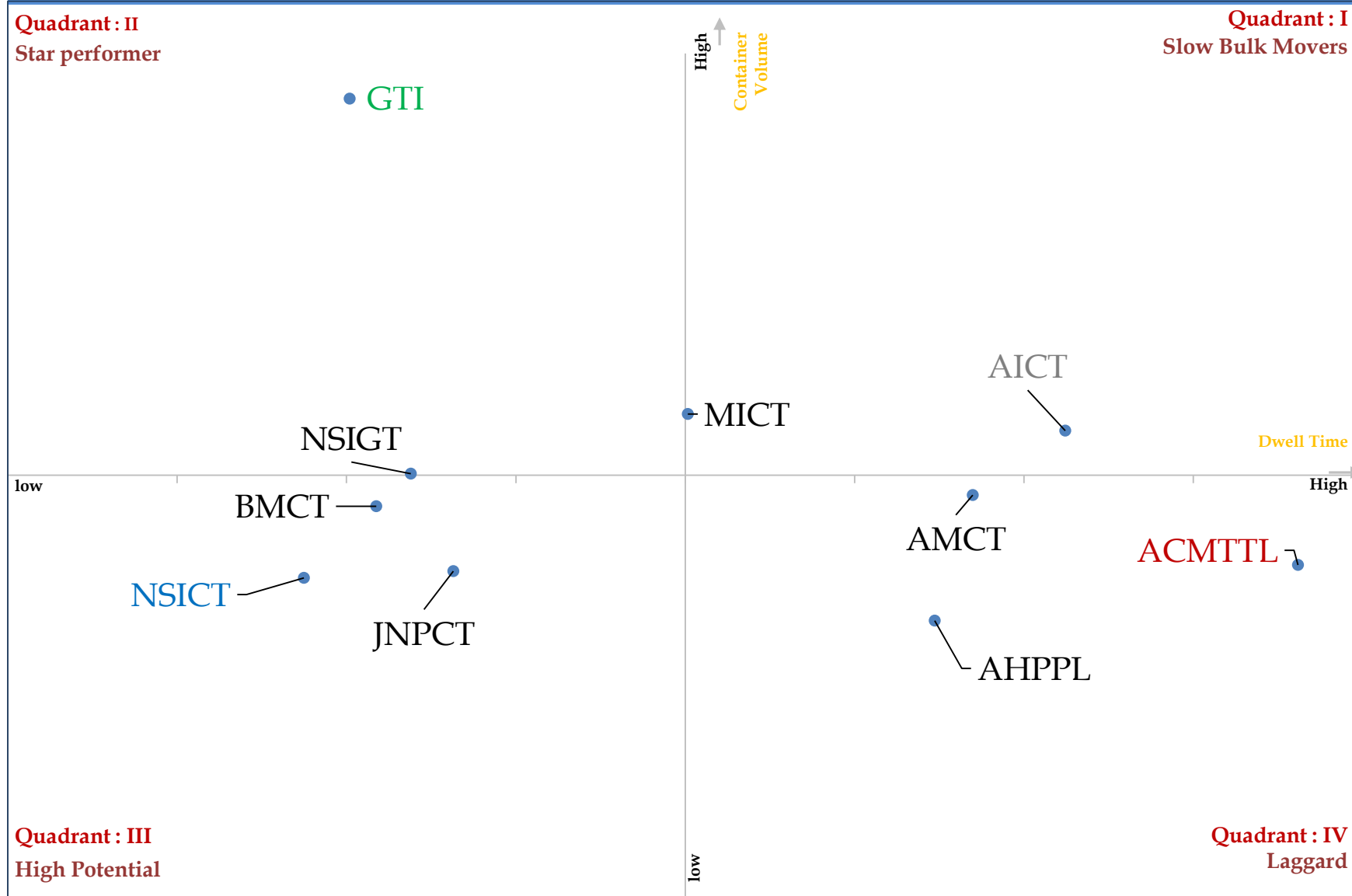
Performance benchmarking for Port Terminals covered under LDB project for Feb'20

Top Performing Terminal	
Gateway Terminals India	
Jan'20	Feb'20
32.1 hrs	33.6 hrs ⬇

Low Performing Terminal	
Adani CMA Mundra Terminal (ACMTTL)	
Jan'20	Feb'20
81.7 hrs	84.1 hrs ⬇

Note: The performance benchmarking is based on performance index

⬆⬇ The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Jan'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	Jan'20 (in hrs)	Feb'20 (in hrs)
Overall	18.0	18.4
Truck	16.4	17.1
Train	33.6	29.8

EXPORT

Mode	Jan'20 (in hrs)	Feb'20 (in hrs)
Overall	67.3	65.4
Truck	68.4	66.2
Train	49.3	52.1

Transit Time

Towards ICD — Station

Transit Cycle	Jan'20 (in hrs)	Feb'20 (in hrs)
Port to ICD	71.6	74.2
Port to CFS	2.3	2.4

Towards CFS

From ICD — Station

Transit Cycle	Jan'20 (in hrs)	Feb'20 (in hrs)
ICD to Port	58.8	57.9
CFS to Port	4.1	3.9

From CFS

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

ICD   CFS

Entity	Jan'20 (in hrs)	Feb'20 (in hrs)
CFS	78.5	82.1
ICD	122.5	124.5

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	84%	16%
Export	85%	15%

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (Feb'20 – in hrs)			Compared to Jan'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	18.4	2% 🔻
	Port Dwell Time for Truck Bound Containers	17.1	5% 🔻
	Port Dwell time for Train Bound Containers	29.8	11% 🔺
	Port Dwell time Direct Port Delivery (DPD) containers	29.4	3% 🔺
	Port Dwell time Containers bound for CFS	15.0	7% 🔻
	Port Dwell for Empty Containers	28.7	0.2% 🔺
	Port Dwell for Laden Containers	18.4	2% 🔻
TRANSIT TIME	Port to ICD	74.2	4% 🔻
	Port to CFS	2.4	3% 🔻

EXPORT CYCLE DWELL TIME (Feb'20– in hrs)			Compared to Jan'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	65.4	3% 🔺
	Port Dwell Time for Truck Bound Containers	66.2	3% 🔺
	Port Dwell time for Train Bound Containers	52.1	6% 🔻
	Port Dwell time Direct Port Entry (DPE) containers	70.2	0.2% 🔺
	Port Dwell time Containers bound from CFS	61.3	4% 🔺
	Port Dwell for Empty Containers	67.9	5% 🔺
	Port Dwell for Laden Containers	65.0	3% 🔺
TRANSIT TIME	ICD to Port	57.9	2% 🔺
	CFS to Port	3.9	5% 🔺

🔺🔻 The arrows depict increase/ decrease in performance of the stakeholders in comparison to Jan'20

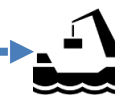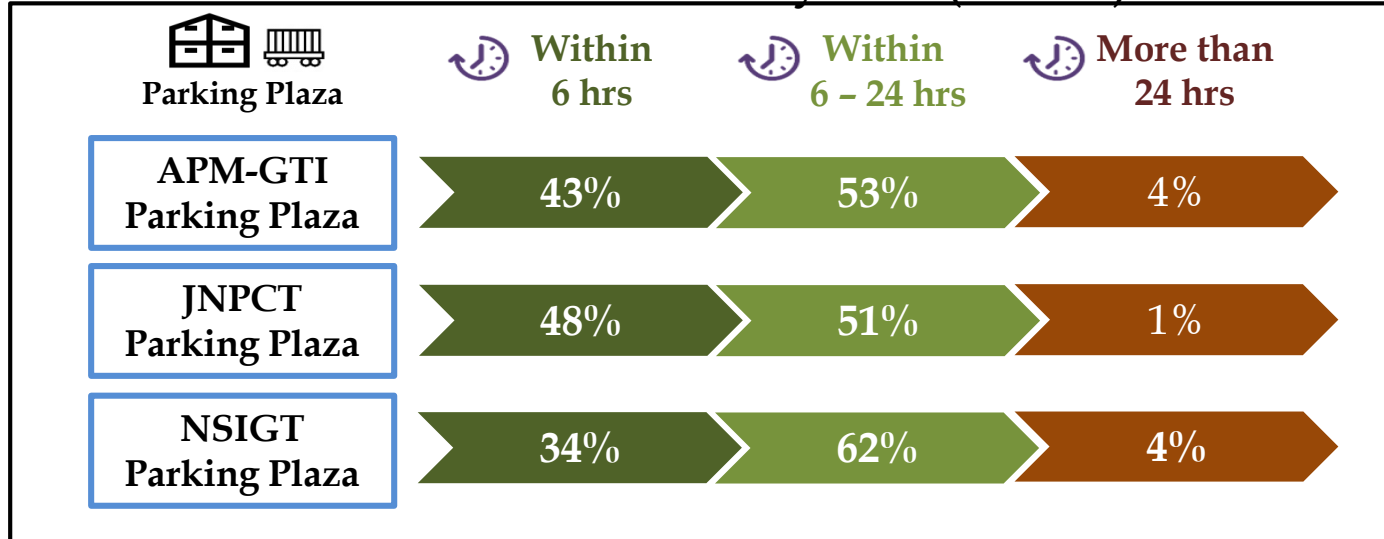# JNPT Region: Parking Plaza Dwell Time Analysis

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	Jan'20 (in hrs)	Feb'20 (in hrs)
Overall Parking Plaza	6.9	7.4

Parking Plaza	Jan'20 (in hrs)	Feb'20 (in hrs)
APM-GTI Parking Plaza	6.4	6.8
JNPCT Parking Plaza	5.9	6.2
NSIGT Parking Plaza	7.8	8.3

Container Handled: Day wise (Feb'20)

Parking Plaza	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
APM-GTI Parking Plaza	43%	53%	4%
JNPCT Parking Plaza	48%	51%	1%
NSIGT Parking Plaza	34%	62%	4%

Parking Plaza Gate Out – Terminal In

Mode	Jan'20 (in hrs)	Feb'20 (in hrs)
Overall Parking Plaza to JNPT Port	1.95	1.9

Port	Jan'20 (in hrs)	Feb'20 (in hrs)
JNPCT	1.8	2.1
NSICT	1.4	1.6
GTI	2.5	2.1
NSIGT	1.7	1.7
BMCT	3.0	2.5

Container Handled: Day wise (Feb'20)

Port Terminals	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPCT	81%	17%	2%
NSICT	82%	16%	2%
GTI	88%	11%	1%
NSIGT	83%	16%	1%
BMCT	83%	16%	1%

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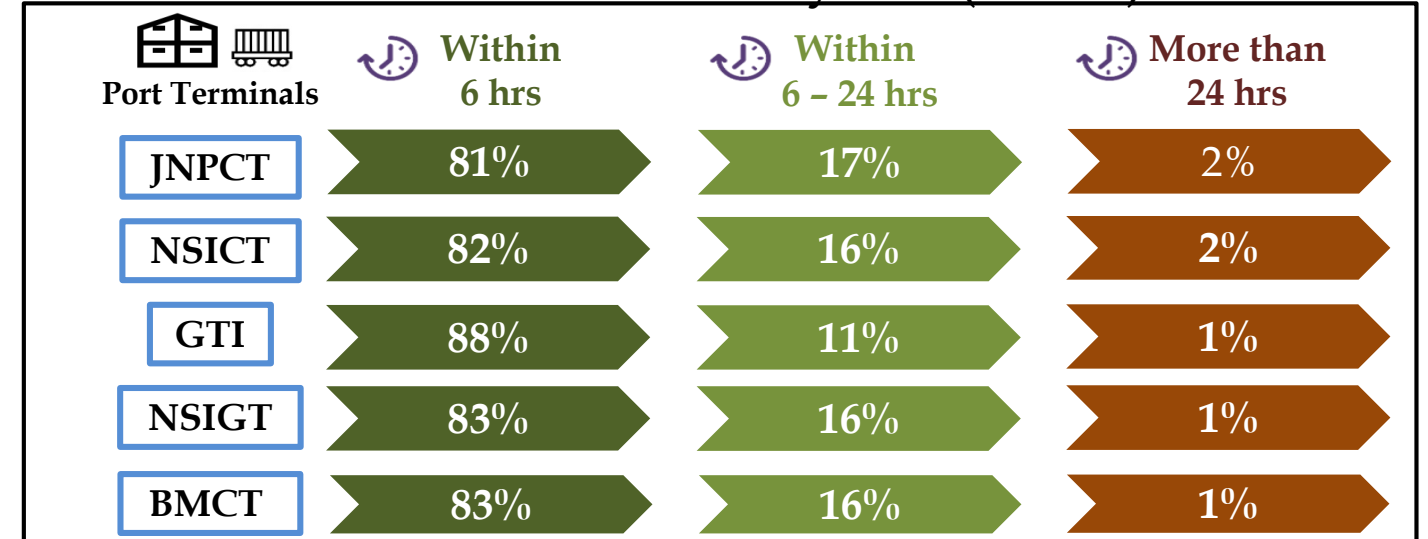
CFS   **Performance Benchmarking**   **ICD**

Top Performing CFS

Transindia Logistics Park, Navi Mumbai

Jan'20	Feb'20
76.0 hrs	81.4 hrs

Low Performing CFS

Take Care Logistics CFS

Jan'20	Feb'20
101.4 hrs	123.0 hrs

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

Top Performing ICD
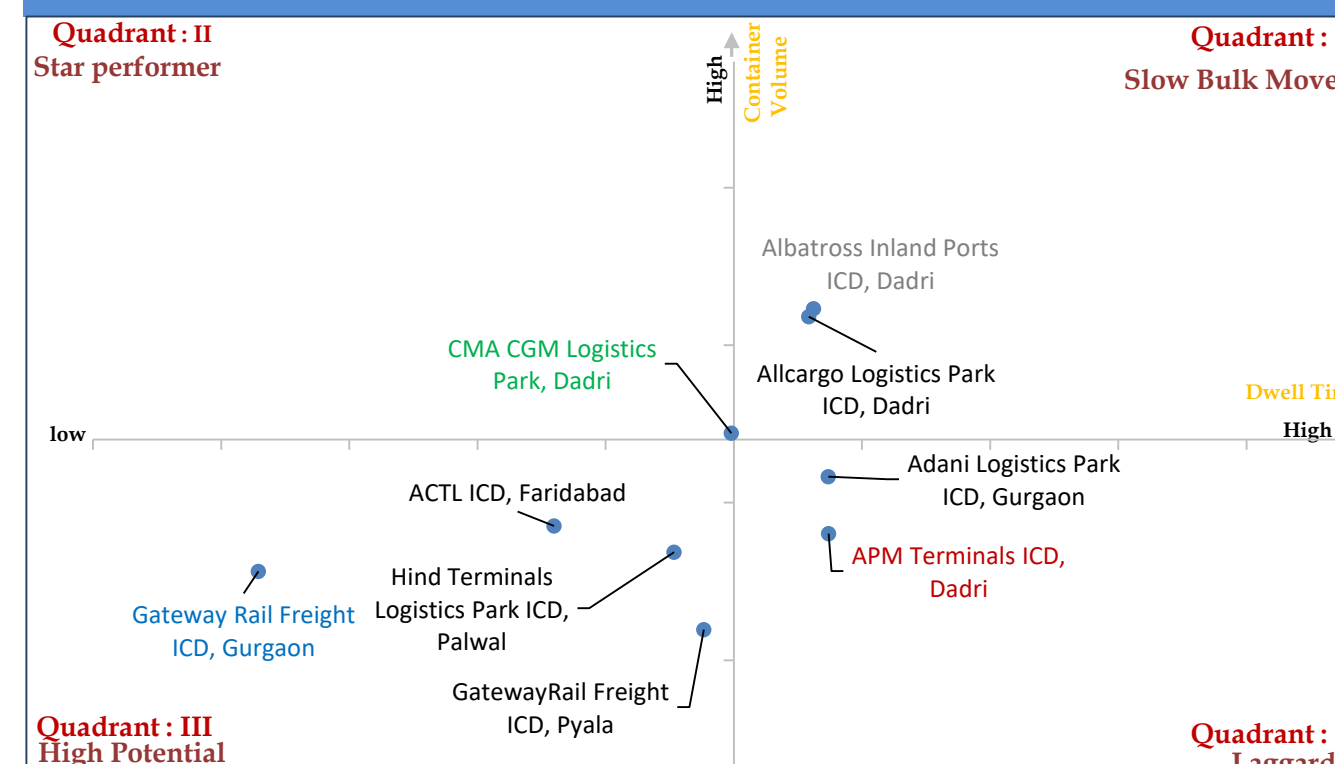
CMA CGM Logistics Park, Dadri

Jan'20	Feb'20
122.5 hrs	125.5 hrs

Low Performing ICD

APM Terminals ICD, Dadri

Jan'20	Feb'20
139.7 hrs	136.1 hrs

Performance Index: Western Corridor CFS

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

Transindia Logistics Park, Navi Mumbai

2

CWC Hind Terminal CFS, Navi Mumbai

5

4
6

7

8

9
10
11

13

14
12

15

17
16

18

19

20

22
24
23

27
26
28

21

Maharashtra State Corp CFS

Take Care Logistics CFS

Container Volume — High / low

Dwell Time — High

Quadrant : III
High Potential
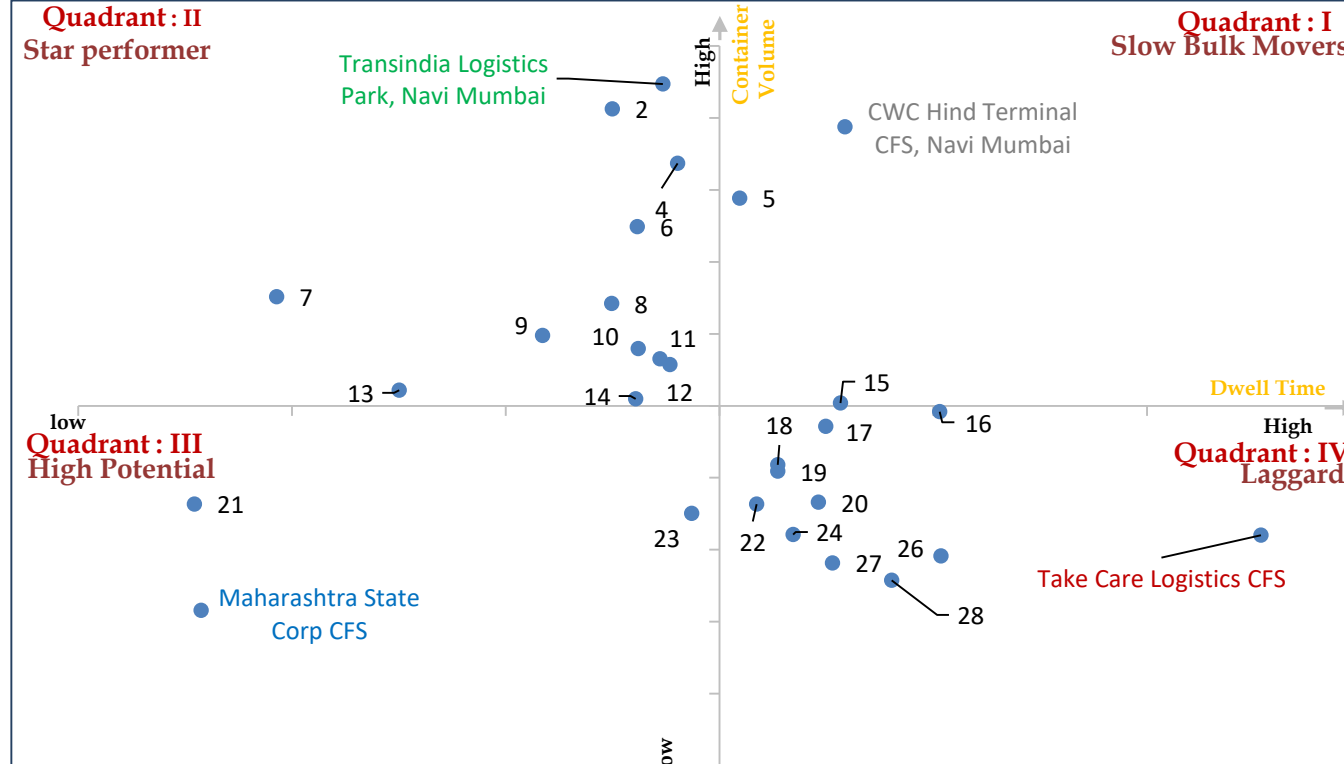
Quadrant : IV
Laggard

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

CMA CGM Logistics Park, Dadri

Allcargo Logistics Park ICD, Dadri

Adani Logistics Park ICD, Gurgaon

ACTL ICD, Faridabad

APM Terminals ICD, Dadri

Gateway Rail Freight ICD, Gurgaon

Hind Terminals Logistics Park ICD, Palwal

GatewayRail Freight ICD, Pyala

Container Volume — High / low

Dwell Time — High

Quadrant : III
High Potential

Quadrant : IV
Laggard

Import Cycle Analysis

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in import cycle
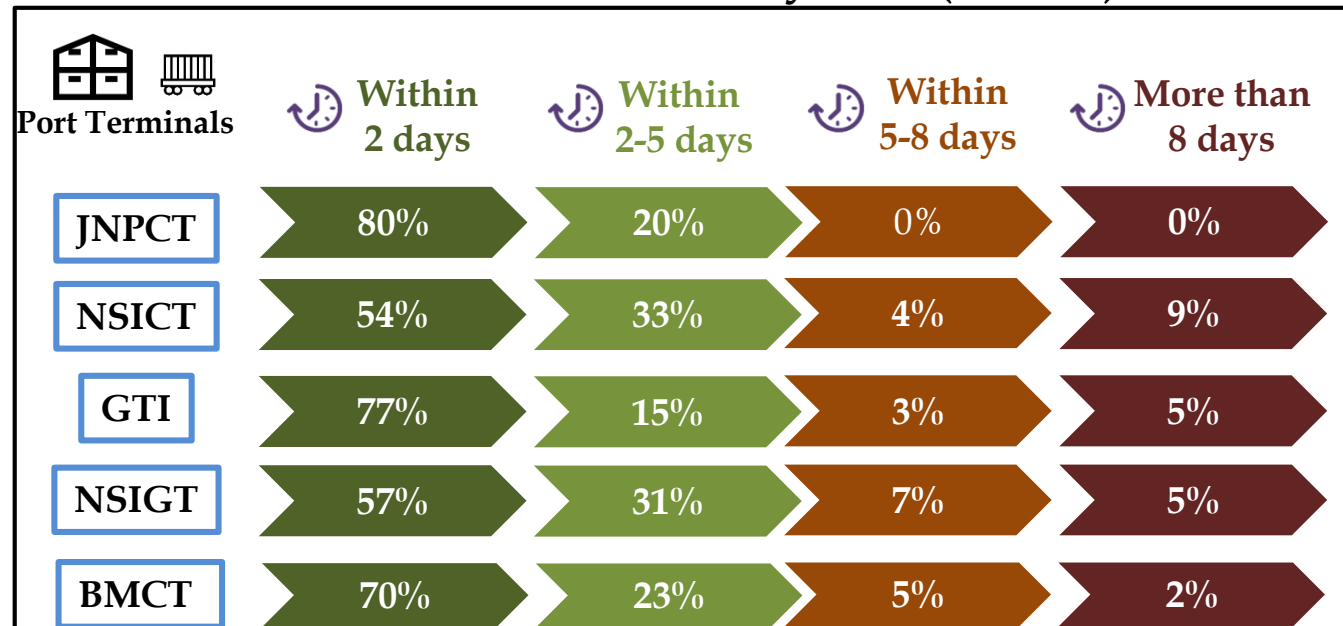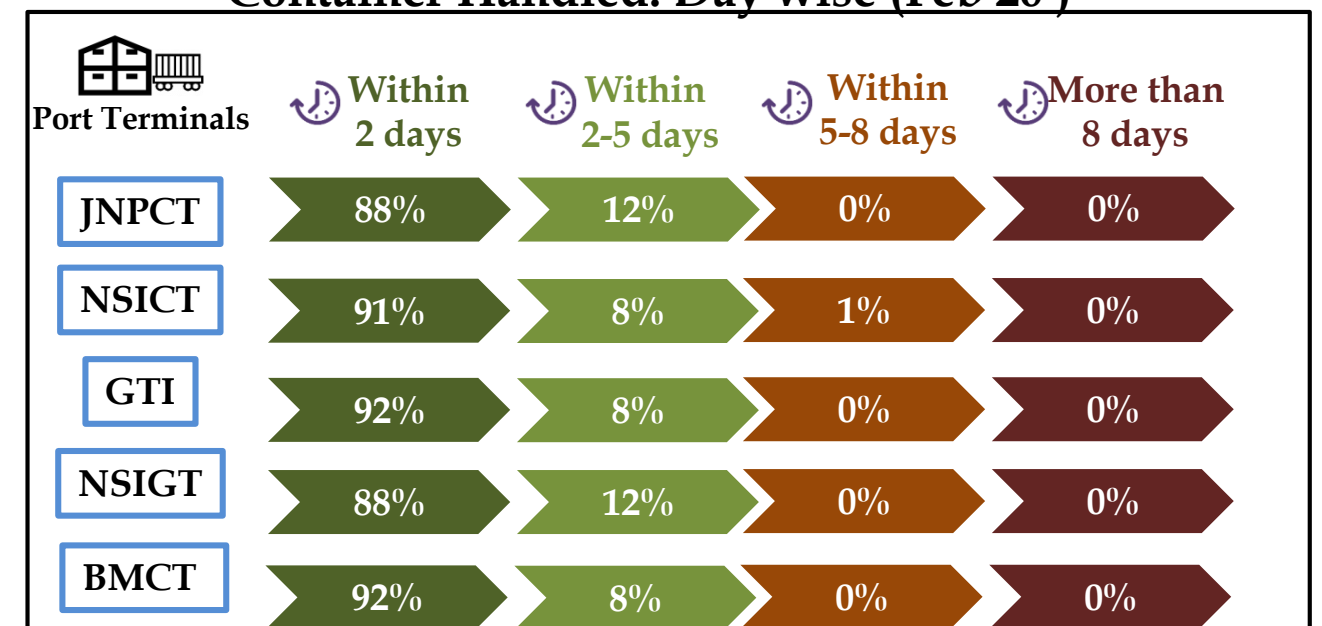
PORT IMPORT via TRAIN
(16% of total import volume at JNPT Port)

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	Jan'20 (in hrs)	Feb'20 (in hrs)
JNPCT	23.9	26.4
NSICT	37.4	43.8
GTI	29.1	22.3
NSIGT	44.5	41.9
BMCT	32.2	25.6

Container Handled: Day wise (Feb'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	80%	20%	0%	0%
NSICT	54%	33%	4%	9%
GTI	77%	15%	3%	5%
NSIGT	57%	31%	7%	5%
BMCT	70%	23%	5%	2%

PORT IMPORT via TRUCK
(84% 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	Jan'20 (in hrs)	Feb'20 (in hrs)
JNPCT	20.8	22.7
NSICT	16.5	16.7
GTI	13.8	14.3
NSIGT	16.5	17.2
BMCT	18.6	18.7

Container Handled: Day wise (Feb'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	88%	12%	0%	0%
NSICT	91%	8%	1%	0%
GTI	92%	8%	0%	0%
NSIGT	88%	12%	0%	0%
BMCT	92%	8%	0%	0%

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

Feb'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	32.9 hrs	21.5 hrs

Port Dwell time based on container type

Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	22.6 hrs	27.6 hrs

GTI

Port Dwell time based on transit type

Feb'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.5 hrs	12.2 hrs

Port Dwell time based on container type

Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	13.5 hrs	30.0 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

Feb'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	53.0 hrs	15.8 hrs

Port Dwell time based on container type

Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	16.5 hrs	23.4 hrs

NSIGT

Port Dwell time based on transit type

Feb'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	29.8 hrs	13.6 hrs

Port Dwell time based on container type

Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	17.4 hrs	29.5 hrs

BMCT

Port Dwell time based on transit type

Feb'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	28.3 hrs	17.0 hrs

Port Dwell time based on container type

Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	18.3 hrs	31.0 hrs

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The Below map indicate congestion around JNPT region in Import Cycle in month of Feb'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	Feb'20
Mumbai region	56%
NH3	4%
Pune	6%
NH8	24%
others	10%

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

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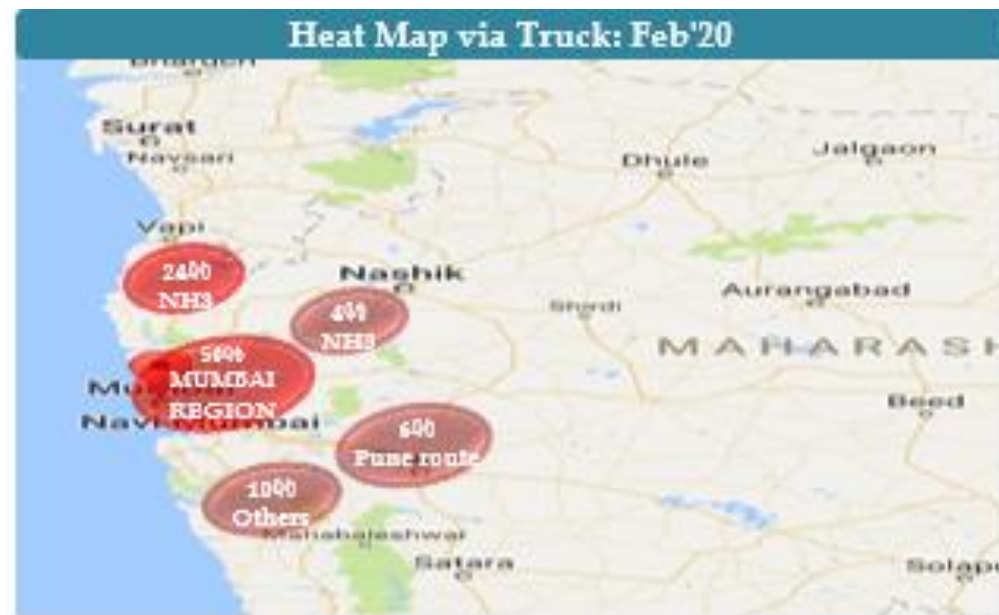
Train
VOLUME WISE CONTAINER MOVEMENT

Region	Feb'20
Vadodra Route	29%
Ratlam Route	23%
Wardha Route	19%
Kota Route	18%
Bhopal Route	11%

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

Container movement via Rail – Feb'20

Western Corridor Toll Plaza Analysis
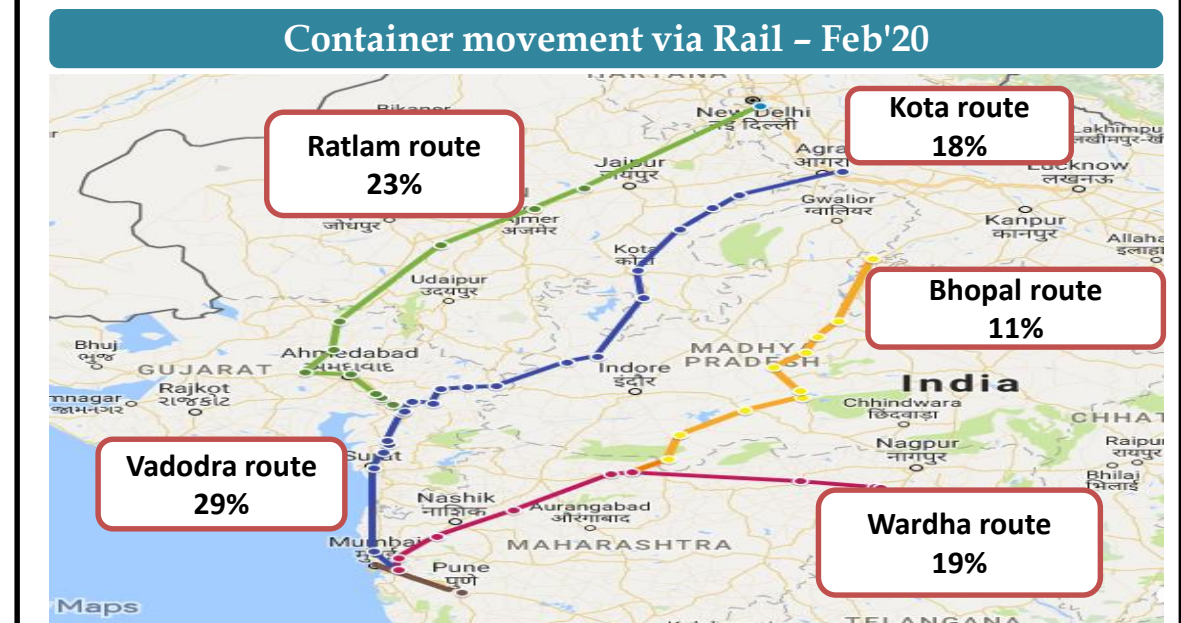
Avg. Speed between Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Jan'20 (in km/hrs)	Feb'20 (in km/hrs)
JNPT	JNPT	Khaniwade	94	13.4	13.5
	JNPT	Khalapur	60	6.9	3.13
	Khaniwade	Charoti	50	37.0	38.0
	Charoti	Boriach	126	29.3	28.7
	Boriach	Bharthan	142	33.8	34.9

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
(15% 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	Jan'20 (in hrs)	Feb'20 (in hrs)
JNPCT	83.3	69.9
NSICT	6.3	5.6
GTI	85.1	84.6
NSIGT	73.3	70.9
BMCT	94.0	73.8

Container Handled: Day wise (Feb'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	13%	87%	0%	0%
NSICT	86%	14%	0%	0%
GTI	33%	32%	25%	10%
NSIGT	20%	80%	0%	0%
BMCT	37%	30%	24%	9%
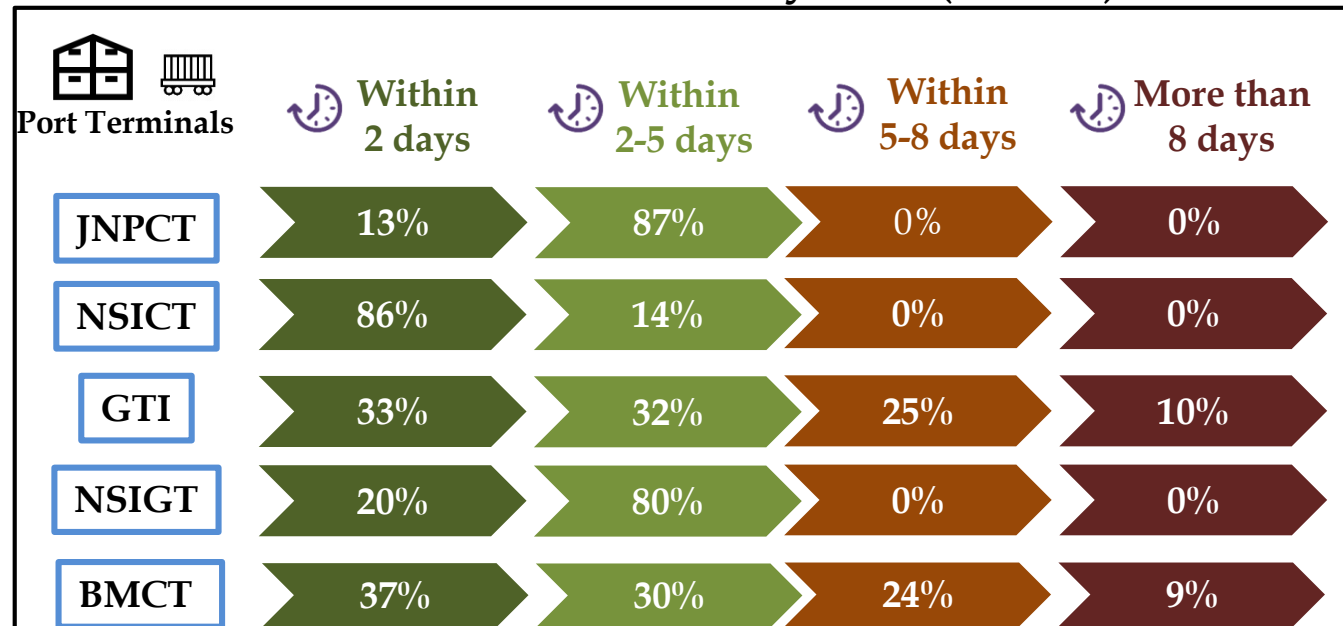
PORT EXPORT via TRUCK
(85% of total export volume at JNPT Port)

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	Jan'20 (in hrs)	Feb'20 (in hrs)
JNPCT	74.2	69.0
NSICT	68.7	67.3
GTI	63.5	63.6
NSIGT	69.4	68.8
BMCT	77.6	66.3

Container Handled: Day wise (Feb'20)
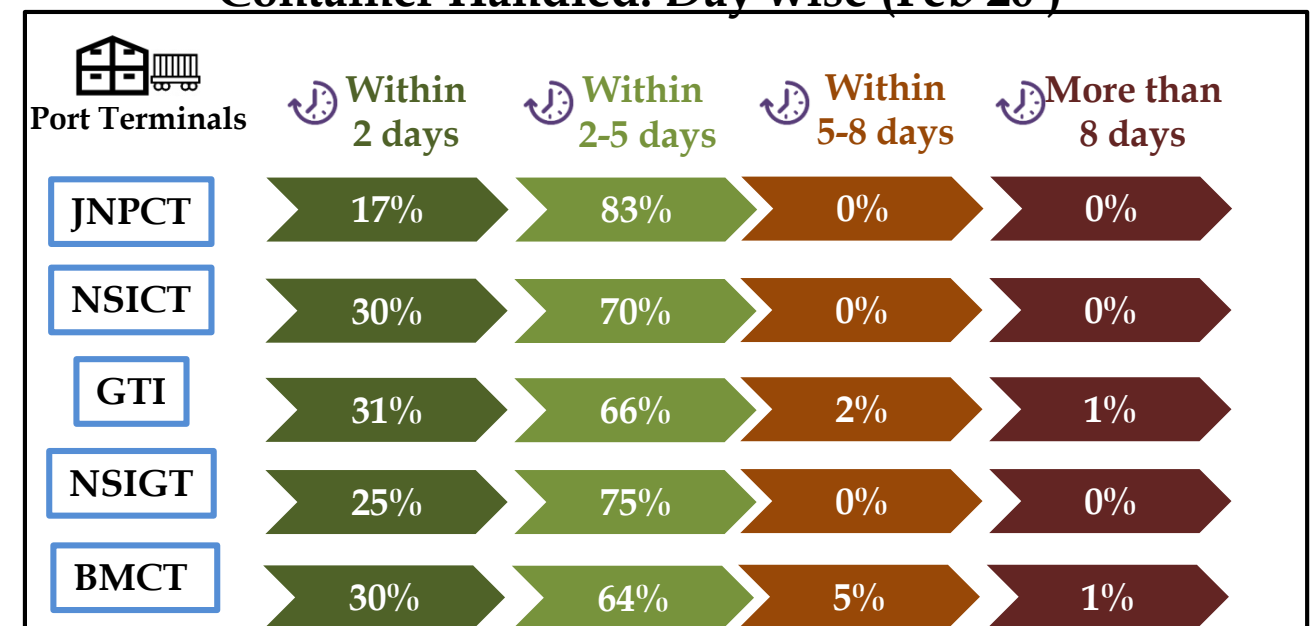
Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	17%	83%	0%	0%
NSICT	30%	70%	0%	0%
GTI	31%	66%	2%	1%
NSIGT	25%	75%	0%	0%
BMCT	30%	64%	5%	1%

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

JNPCT

Port Dwell time based on transit type

Feb'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	70.1 hrs	65.2 hrs

Port Dwell time based on container type

Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	65.7 hrs	72.0 hrs

GTI

Port Dwell time based on transit type

Feb'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	68.8 hrs	58.0 hrs

Port Dwell time based on container type

Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	64.3 hrs	63.5 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 Feb'20

NSICT

Port Dwell time based on transit type		
Feb'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	70.1 hrs	64.2 hrs

Port Dwell time based on container type		
Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	61.8 hrs	-

NSIGT

Port Dwell time based on transit type		
Feb'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.5 hrs	65.1 hrs

Port Dwell time based on container type		
Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	67.5 hrs	-

BMCT

Port Dwell time based on transit type		
Feb'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	60.0 hrs

Port Dwell time based on container type		
Feb'20	Laden Containers	Empty Containers
Dwell time (in hrs)	66.6 hrs	66.8 hrs

JNPT Region: Congestion Analysis (Export Cycle)

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

Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 3	Sonari area,JNPT road
CLUSTER 4	Chirle area , JNPT road
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road
CLUSTER 8	Taloja, Navi Mumbai

Clusters without bottleneck

CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway

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	17%
Kota Route	18%
Bhopal Route	6%

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

Container movement via Rail – Feb'20

CFS and ICD Performance
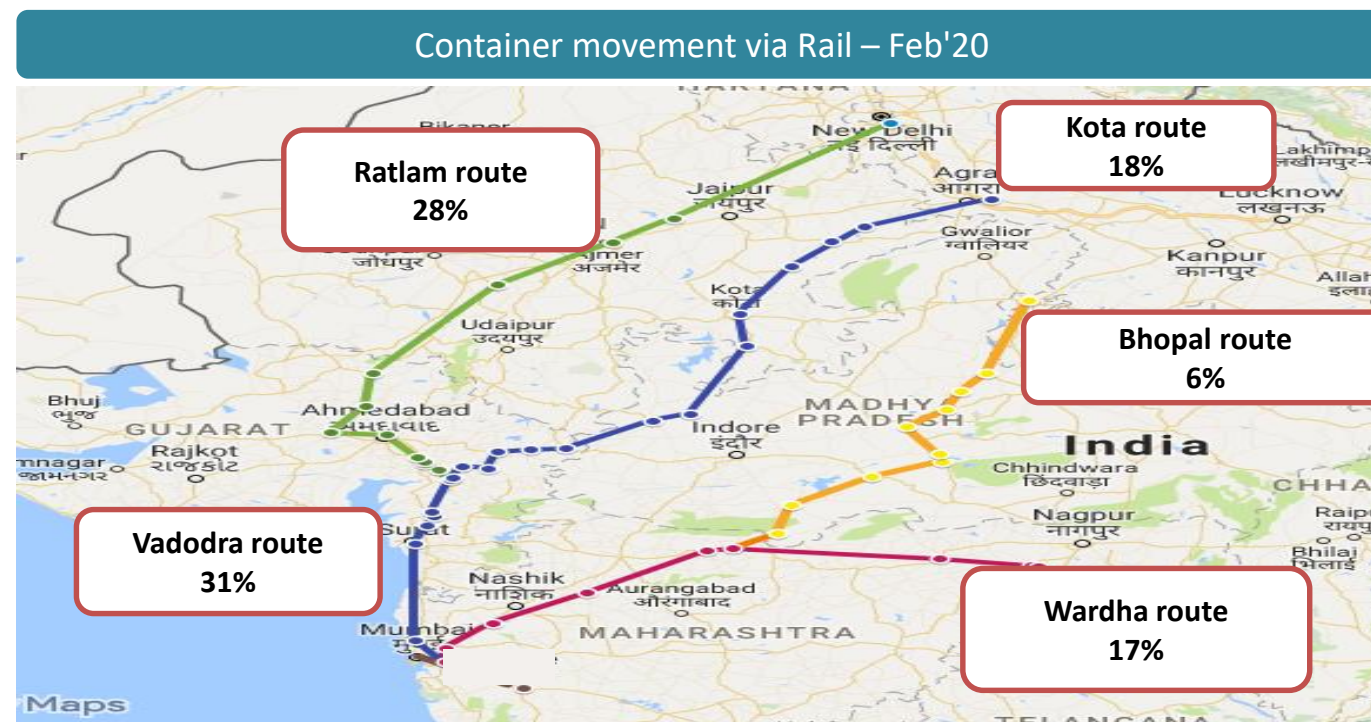
CFS and ICD Performance

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

CFS Dwell Time (in hrs.)

| CFS	Jan'20	Feb'20	CFS	Jan'20	Feb'20
Ameya Logistics CFS, Navi Mumbai	83.3	86.7	Maersk Annex (APM)CFS, Navi Mumbai	90.3	97.3
APM (Maersk India) CFS, Navi Mumbai	76.0	79.5	Maharashtra State Corp CFS	-	49.3
Apollo Logisolutions CFS, Panvel	85.6	93.7	Navkar Corporation Yard 1 CFS, Panvel	95.8	100.7
Ashte Logistics CFS, Panvel	88.6	89.4	Navkar Corporation Yard 2 CFS, Panvel	72.0	100.6
Balmer & Lawrie CFS, Navi Mumbai	76.3	92.2	Navkar Corporation Yard 3 CFS, Panvel	71.3	79.6
Continental Warehousing CFS, Navi Mumbai	70.8	77.8	Ocean Gate CFS, Panvel	80.9	93.2
CWC Hind Terminal CFS, Navi Mumbai	92.5	94.0	Punjab Conware CFS, Navi Mumbai	54.0	63.1
Dronagiri Rail Terminal CFS, Navi Mumbai	66.1	48.9	Sarveshwar CFS	88.6	89.4
EFC Logistics India	82.2	81.2	Seabird CFS, Navi Mumbai	84.4	92.7
Gateway Distriparks CFS, Navi Mumbai	74.1	77.9	Speedy Multimode CFS, JNPT	69.9	79.7
Indev Logistics CFS, Panvel	86.8	90.5	Take Care Logistics CFS	88.7	123.0
International Cargo Terminal CFS	81.2	82.4	TG Terminals CFS	90.9	87.9
International Cargo Terminals (ULA) CFS, Navi Mumbai	80.2	81.9	Transindia Logistics Park, Navi Mumbai	69.8	81.4
JWC Logistics Park CFS	71.6	73.1	Vaishno Logistics CFS, Navi Mumbai	70.2	83.4
JWR CFS	52.1	54.6			

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

Average: 82.1 hrs.

© DMICDC Logistics Data Services Limited
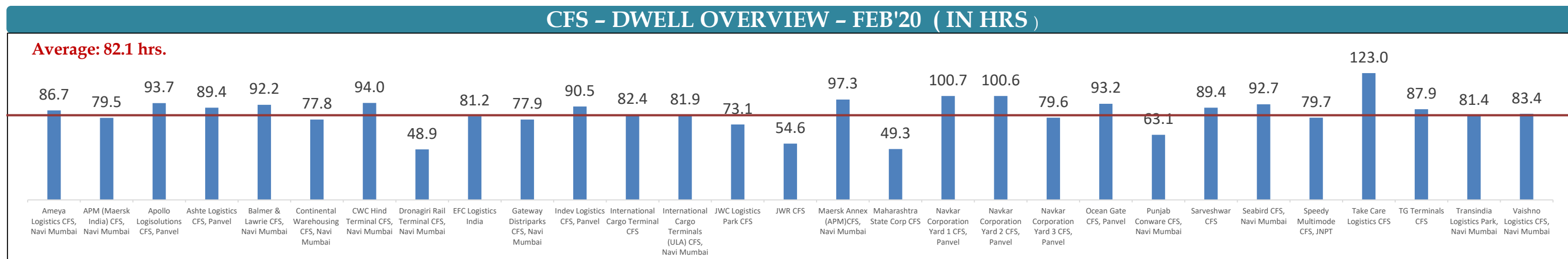
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Jan'20 (in hrs)	Feb'20 (in hrs)
ACTL ICD, Faridabad	129.1	106.4
Adani Logistics Park ICD, Gurgaon	134.5	136.0
Albatross Inland Ports ICD, Dadri	131.3	134.4
Allcargo Logistics Park ICD, Dadri	109.8	133.9
APM Terminals ICD, Dadri	139.7	136.1
CMA CGM Logistics Park, Dadri	122.5	125.5
Gateway Rail Freight ICD, Gurgaon	72.3	74.5
GatewayRail Freight ICD, Pyala	126.6	122.6
Hind Terminals Logistics Park ICD, Palwal	96.1	119.4

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

Avg. 124.5 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
106.4	136.0	134.4	133.9	136.1	125.5	74.5	122.6	119.4

Trend Analysis
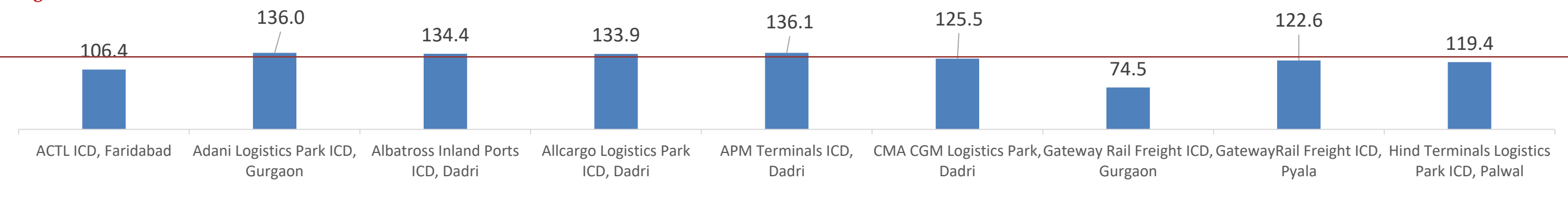
Western Corridor Port – Yearly Analysis

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

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region
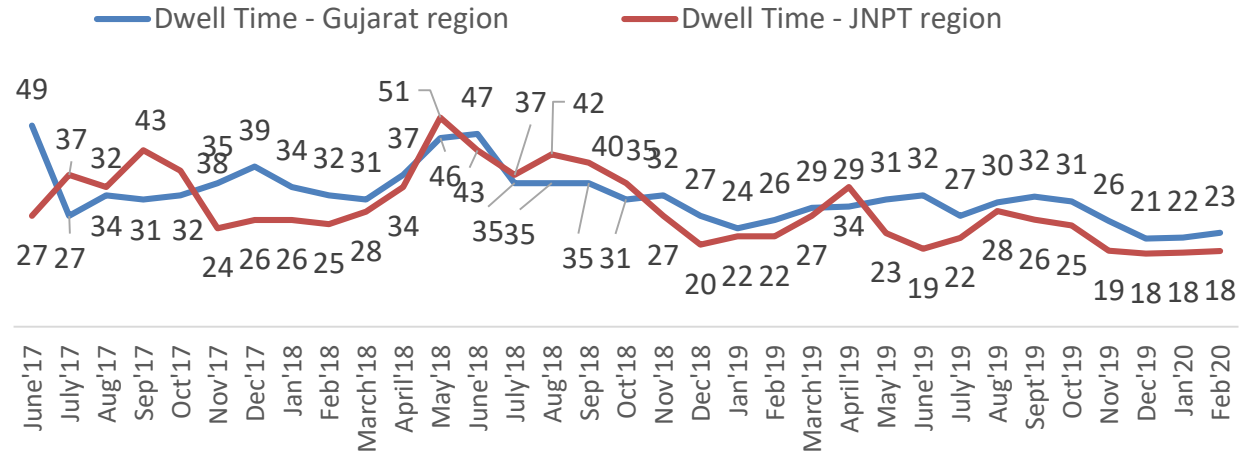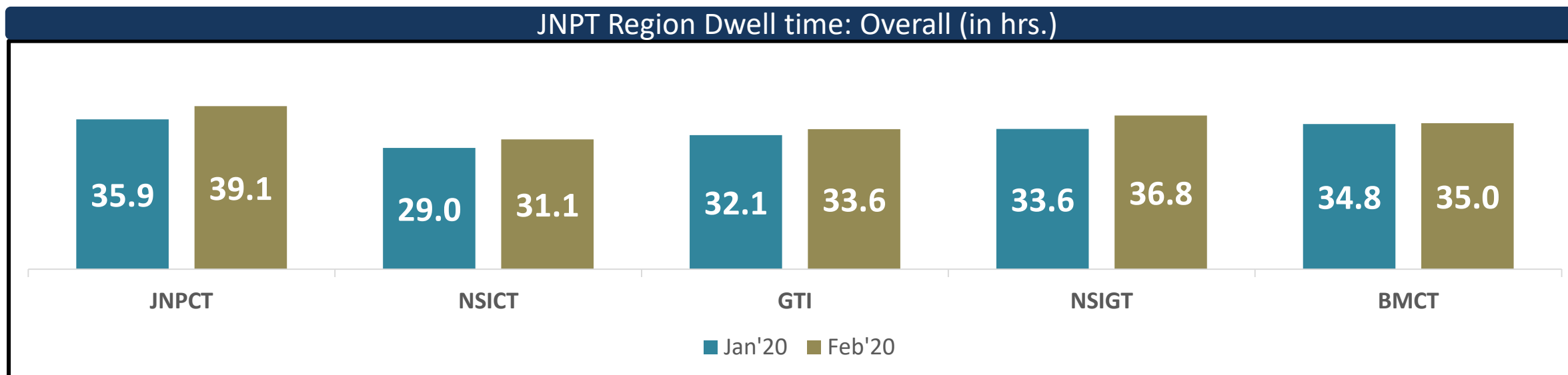

Volume – Gujarat Region Vs JNPT Region
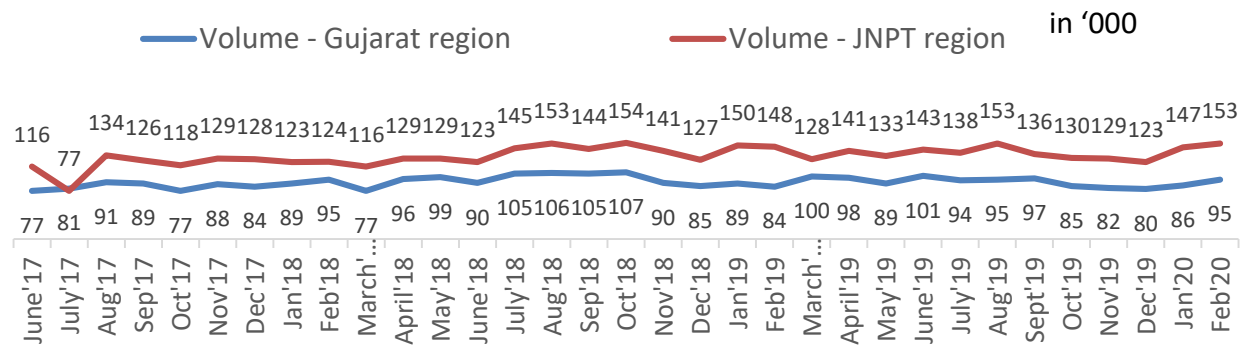
In Import cycle, for the month of Feb'20 JNPT port has catered 61% **more volume** than APSEZ Port, and has maintained 20% **lower dwell time** than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region
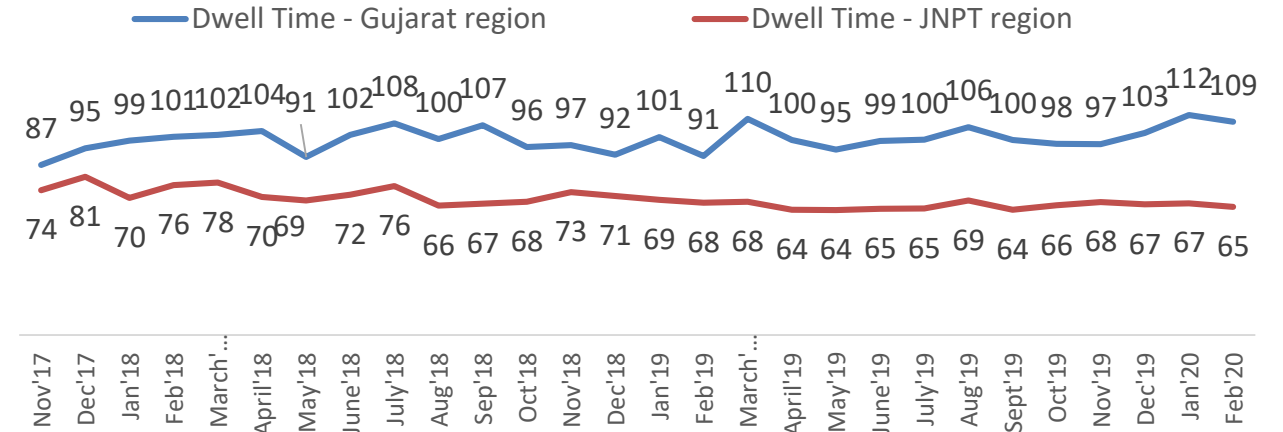
Volume – Gujarat Region Vs JNPT Region
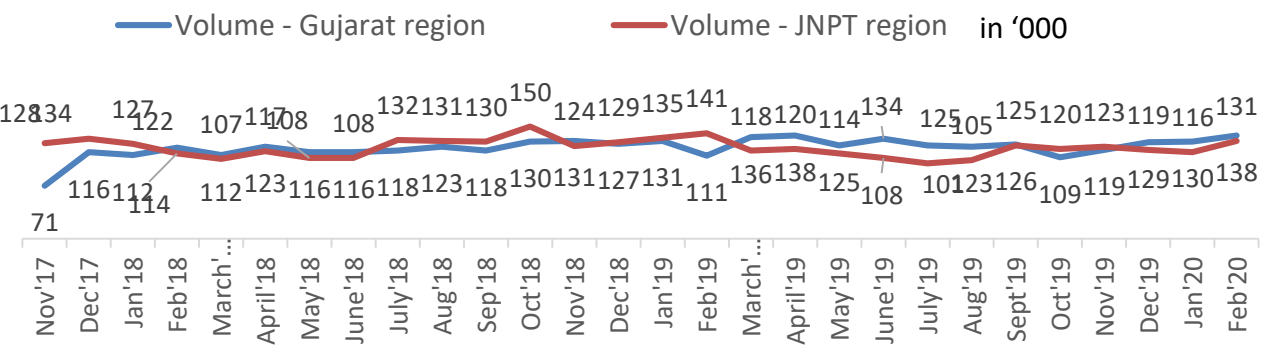
In Export cycle, for the month Feb'20 JNPT port catered 5**% more volume** then JNPT Port, and has maintained 40% **lower dwell time** than APSEZ Port

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
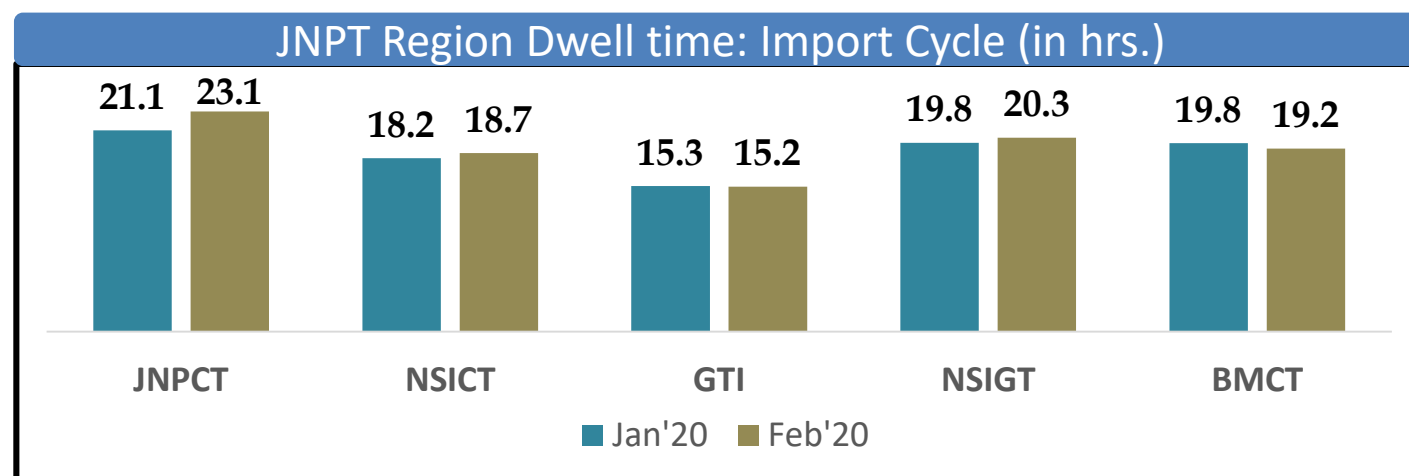
JNPT Region Dwell time: Overall (in hrs.)

Terminal	Jan'20	Feb'20
JNPCT	35.9	39.1
NSICT	29.0	31.1
GTI	32.1	33.6
NSIGT	33.6	36.8
BMCT	34.8	35.0

The overall JNPT region average dwell time for Feb'20 is **34.9 hrs** as compared to **32.9 hrs** in Jan'20

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

JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Feb'20 is **18.4 hrs.**

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

Terminal	Jan'20	Feb'20
JNPCT	21.1	23.1
NSICT	18.2	18.7
GTI	15.3	15.2
NSIGT	19.8	20.3
BMCT	19.8	19.2

JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Feb'20 is **65.4 hrs.**

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

Terminal	Jan'20	Feb'20
JNPCT	74.9	69.1
NSICT	50.3	52.9
GTI	65.1	65.1
NSIGT	69.6	69.1
BMCT	78.5	66.7
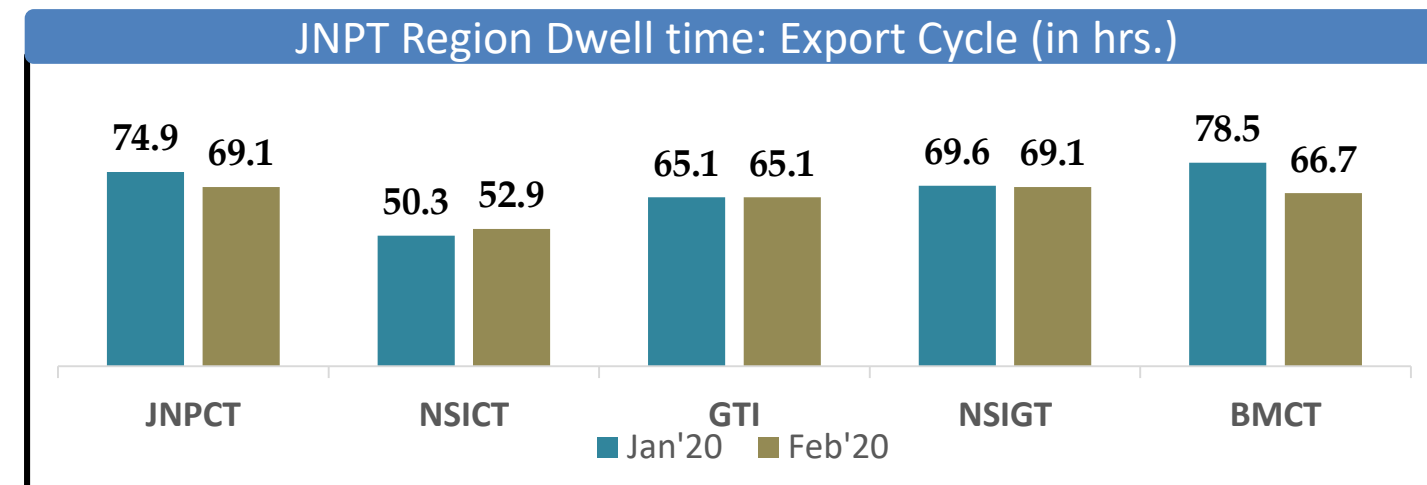
ANNEXURE

Container movement around JNPT Port terminal region via Truck

HEAT MAP : GTI Port Terminal
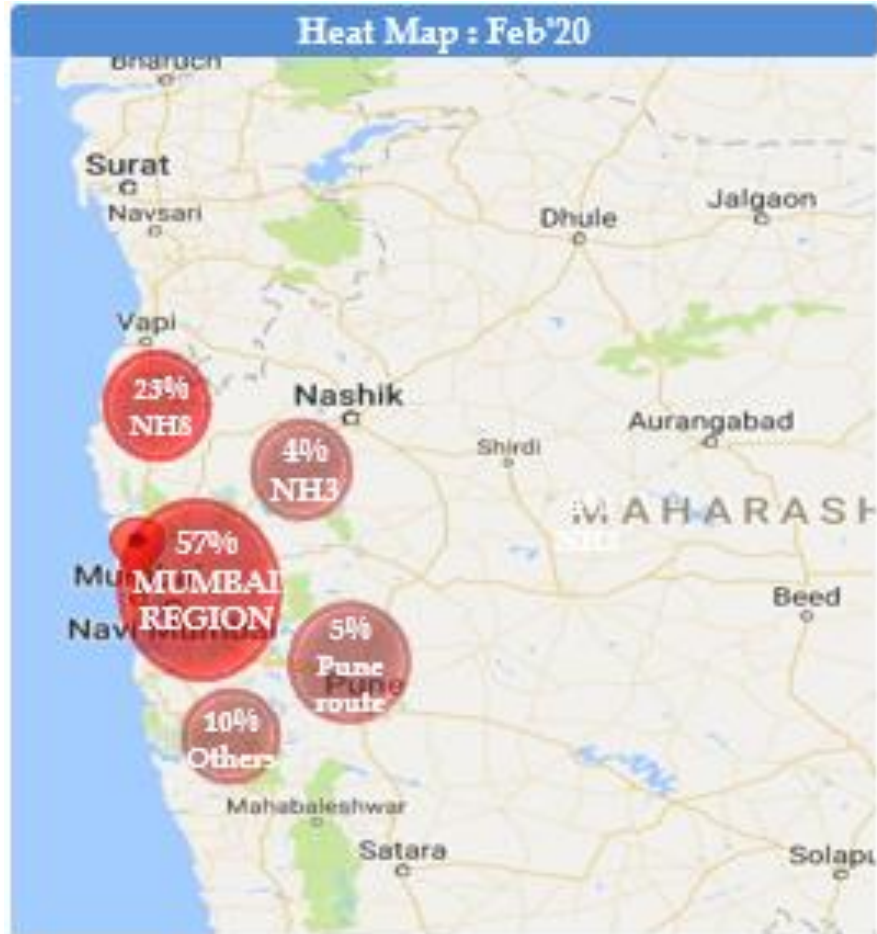
HEAT MAP : JNPCT Port Terminal

HEAT MAP : NSICT Port Terminal
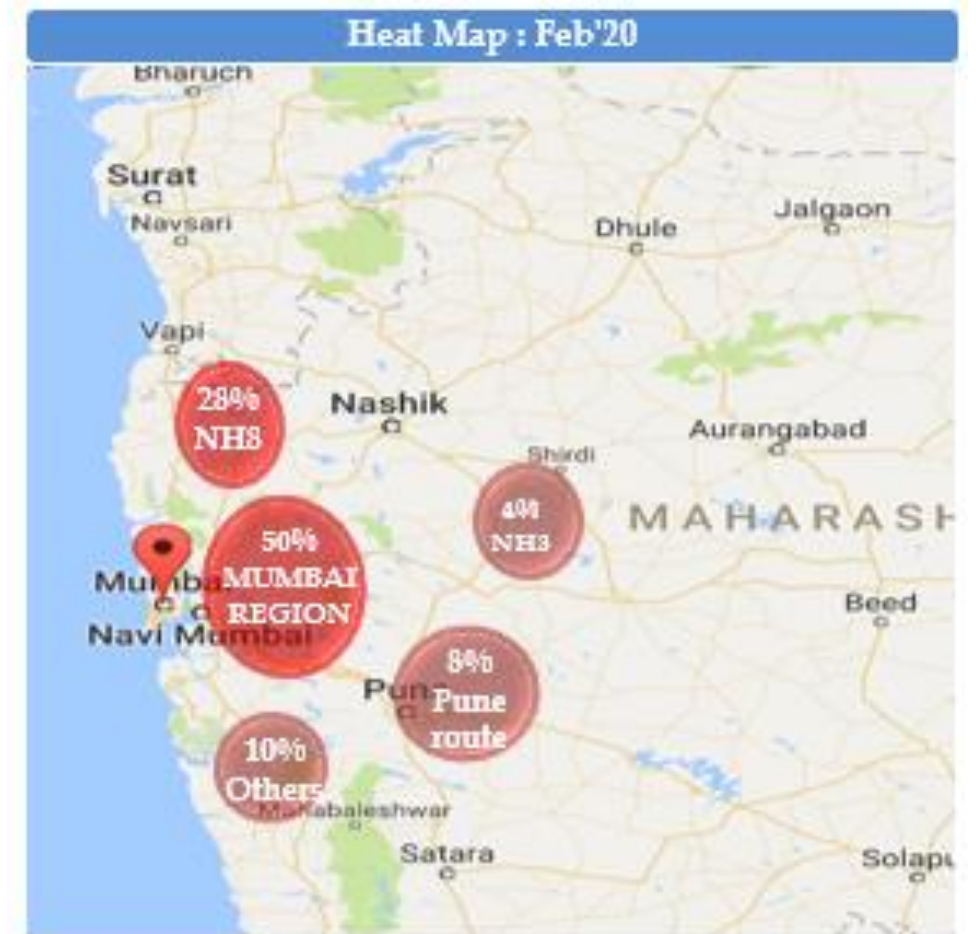
Region	Jan'20	Feb'20
Mumbai region	49%	57%
NH3	3%	4%
Pune	8%	5%
NH8	30%	23%
others	10%	10%

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

Region	Jan'20	Feb'20
Mumbai region	39%	52%
NH3	3%	3%
Pune	8%	5%
NH8	40%	31%
others	10%	10%

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

Region	Jan'20	Feb'20
Mumbai region	57%	50%
NH3	2%	4%
Pune	8%	8%
NH8	24%	28%
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
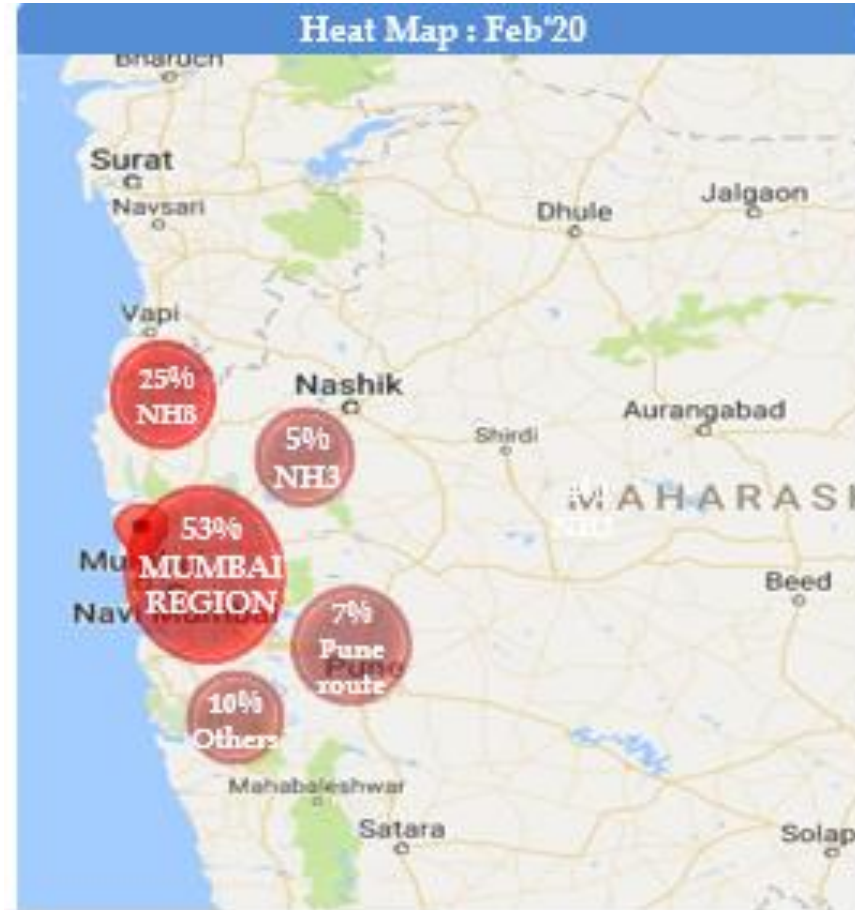
Region	Jan'20	Feb'20
Mumbai region	50%	53%
NH3	4%	5%
Pune	10%	7%
NH8	26%	25%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal
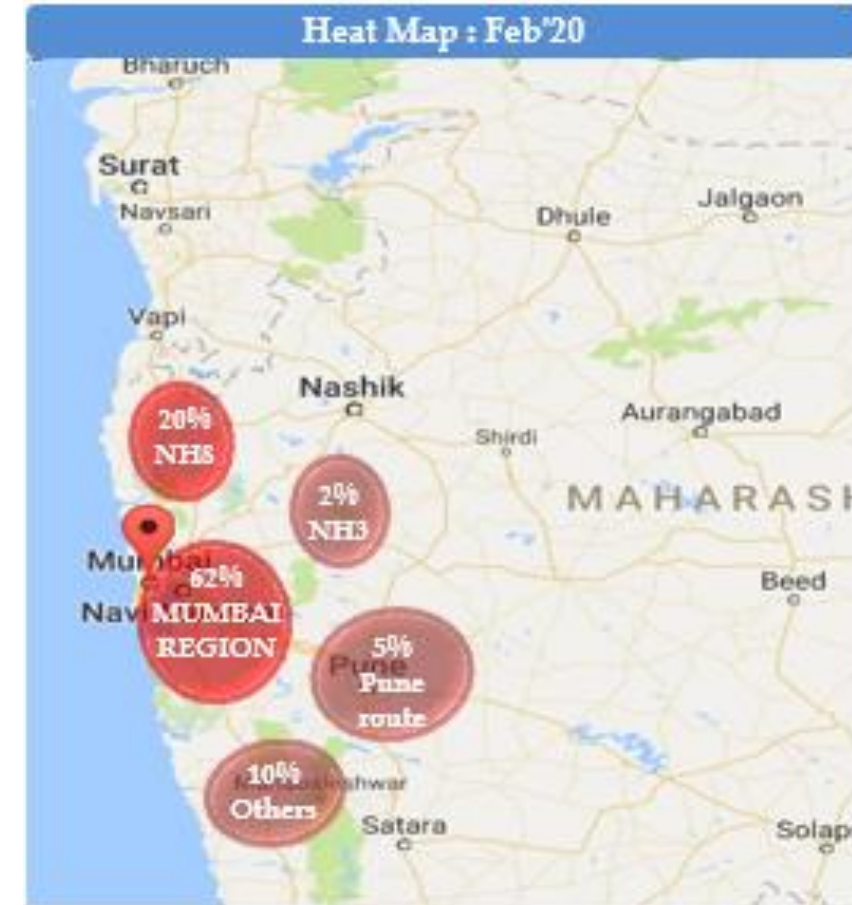
Region	Jan'20	Feb'20
Mumbai region	47%	62%
NH3	7%	2%
Pune	8%	5%
NH8	28%	20%
others	10%	10%

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 Feb'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.3	3.8	2.1	2.9	2.6
Punjab Conware CFS, Navi Mumbai	2.7	3.6	2.2	2.4	2.5
JWC Logistics Park CFS	3.2	5.2	2.9	5.4	5.7
CWC Hind Terminal CFS, Navi Mumbai	2.6	3.3	2.0	5.2	2.6
Dronogiri Rail Terminal CFS, Navi Mumbai	5.8	4.1	3.2	3.2	3.2
Navkar Corporation Yard 2 CFS, Panvel	5.7	7.0	5.7	5.1	6.3
Vaishno Logistics CFS, Navi Mumbai	5.6	4.0	2.7	2.3	2.6
Speedy Multimode CFS, JNPT	3.1	3.1	1.9	2.3	1.9
Balmer & Lawrie CFS, Navi Mumbai	2.4	3.7	2.0	3.0	2.9
Navkar Corporation Yard 3 CFS, Panvel	5.6	6.1	4.2	4.8	6.1
Ashte Logistics CFS, Panvel	2.1	4.6	4.3	4.3	5.8
Continental Warehousing CFS, Navi Mumbai	2.2	4.0	1.6	2.1	2.8
SBW Logistics CFS, Navi Mumbai	3.4	7.5	7.2	12.4	15.4
Maharashtra State Corp CFS	2.8	3.0	2.0	2.3	2.1
Internation Cargo Terminal CFS	2.8	3.3	2.3	2.2	3.2
Seabird CFS, Navi Mumbai	5.1	3.8	2.0	2.1	2.2
Apollo Logisolutions CFS, Panvel	8.7	5.4	3.9	3.6	4.5
Ameya Logistics CFS, Navi Mumbai	3.5	4.5	3.1	4.2	3.4
Transindia Logistics Park, Navi Mumbai	3.7	3.9	2.5	2.7	3.7
Ocean Gate CFS, Panvel	2.9	4.6	2.2	3.1	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.2	3.6	3.8	2.9	3.2
Indev Logistics CFS, Panvel	4.3	3.2	4.3	3.3	5.2
CWC Dronagiri CFS, Navi Mumbai					
APM (Maersk India) CFS, Navi Mumbai	1.4	3.1	1.9	3.1	2.1

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	Feb'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	2.4
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.8
Indev Logistics CFS, Panvel	3.9
Navkar Corporation Yard 3 CFS, Panvel	3.3
Seabird CFS, Navi Mumbai	2.7
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	3.0
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	2.1
Dronogiri Rail Terminal CFS, Navi Mumbai	1.9
Navkar Corporation Yard 1 CFS, Panvel	3.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.3
Maersk Annex (APM)CFS, Navi Mumbai	2.3
Speedy Multimode CFS, JNPT	3.4
Apollo Logisolutions CFS, Panvel	4.0
Navkar Corporation Yard 2 CFS, Panvel	3.4
Punjab Conware CFS, Navi Mumbai	2.3
Vaishno Logistics CFS, Navi Mumbai	2.3
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	3.8
Ocean Gate CFS, Panvel	2.6
Maharashtra State Corp CFS	17.6

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	Feb'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	1.6
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.6
Indev Logistics CFS, Panvel	4.9
Navkar Corporation Yard 3 CFS, Panvel	3.2
Seabird CFS, Navi Mumbai	2.7
Balmer & Lawrie CFS, Navi Mumbai	1.6
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	1.6
Navkar Corporation Yard 1 CFS, Panvel	3.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	2.6
Speedy Multimode CFS, JNPT	1.9
Apollo Logisolutions CFS, Panvel	4.7
Navkar Corporation Yard 2 CFS, Panvel	3.5
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	1.6
JWC Logistics Park CFS	2.3
SBW Logistics CFS, Navi Mumbai	3.6
Ocean Gate CFS, Panvel	2.7
Maharashtra State Corp CFS	1.1

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	Feb'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	1.7
Internation Cargo Terminal CFS	2.6
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.9
Indev Logistics CFS, Panvel	4.3
Navkar Corporation Yard 3 CFS, Panvel	6.4
Seabird CFS, Navi Mumbai	4.0
Balmer & Lawrie CFS, Navi Mumbai	1.7
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	3.7
Navkar Corporation Yard 1 CFS, Panvel	4.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	9.1
Navkar Corporation Yard 2 CFS, Panvel	4.4
Punjab Conware CFS, Navi Mumbai	3.5
Vaishno Logistics CFS, Navi Mumbai	9.3
JWC Logistics Park CFS	3.0
SBW Logistics CFS, Navi Mumbai	3.6
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	19.8

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	Feb'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	2.2
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	2.4
Indev Logistics CFS, Panvel	4.4
Navkar Corporation Yard 3 CFS, Panvel	2.7
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	1.9
Ashte Logistics CFS, Panvel	2.4
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	7.3
Navkar Corporation Yard 1 CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.3
Maersk Annex (APM)CFS, Navi Mumbai	2.3
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	7.3
Navkar Corporation Yard 2 CFS, Panvel	5.5
Punjab Conware CFS, Navi Mumbai	2.9
Vaishno Logistics CFS, Navi Mumbai	3.3
JWC Logistics Park CFS	2.4
SBW Logistics CFS, Navi Mumbai	4.2
Ocean Gate CFS, Panvel	2.5
Maharashtra State Corp CFS	13.3

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	Feb'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.8
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.5
Indev Logistics CFS, Panvel	4.0
Navkar Corporation Yard 3 CFS, Panvel	3.1
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	1.7
Ashte Logistics CFS, Panvel	2.6
Continental Warehousing CFS, Navi Mumbai	1.3
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	2.1
Navkar Corporation Yard 1 CFS, Panvel	3.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.4
Maersk Annex (APM)CFS, Navi Mumbai	2.3
Speedy Multimode CFS, JNPT	2.1
Apollo Logisolutions CFS, Panvel	3.6
Navkar Corporation Yard 2 CFS, Panvel	3.0
Punjab Conware CFS, Navi Mumbai	2.1
Vaishno Logistics CFS, Navi Mumbai	2.4
JWC Logistics Park CFS	2.0
SBW Logistics CFS, Navi Mumbai	3.0
Ocean Gate CFS, Panvel	2.5
Maharashtra State Corp CFS	1.3

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 Feb'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	3.4	3.1
Cluster 2	6	13	2.3	3.5
Cluster 3	6	11	2.5	3.7
Cluster 4	1	13	2.3	4.0
Cluster 5	2	25	2.7	4.9
Cluster 6	6	25	3.4	5.4
Cluster 7	4	12	2.1	4.0
Cluster 8	1	34	3.8	7.5

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Feb'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	1.9	3.1
Cluster 2	6	13	1.9	2.5
Cluster 3	6	11	1.8	4.0
Cluster 4	1	13	1.6	5.6
Cluster 5	2	25	2.5	3.0
Cluster 6	6	25	3.6	5.6
Cluster 7	4	12	1.9	3.5
Cluster 8	1	34	3.6	3.4

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

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 Feb'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	1.9
Cluster 2	6	13	2.2	2.1
Cluster 3	6	11	3.9	2.1
Cluster 4	1	13	9.3	0.0
Cluster 5	2	25	3.0	2.6
Cluster 6	6	25	4.4	4.3
Cluster 7	4	12	1.9	2.5
Cluster 8	1	34	3.6	7.2

CFS Cluster : NSIGT Terminal

JNPCT terminal for month of Feb'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	2.3
Cluster 2	6	13	2.2	2.9
Cluster 3	6	11	2.0	2.4
Cluster 4	1	13	3.3	2.3
Cluster 5	2	25	2.5	4.2
Cluster 6	6	25	4.1	4.3
Cluster 7	4	12	1.8	2.7
Cluster 8	1	34	4.2	12.4

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Feb'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	1.9
Cluster 2	6	13	2.1	2.8
Cluster 3	6	11	2.0	2.3
Cluster 4	1	13	2.4	2.6
Cluster 5	2	25	2.3	4.4
Cluster 6	6	25	3.1	5.8
Cluster 7	4	12	1.9	3.4
Cluster 8	1	34	3.0	15.4

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

LDB Operations Snapshot

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

Map labels:
14
106
25
MUNDRA
KANDALA
HAZIRA
JNPT
MURMUGAO
NEW MANGALORE
KOCHI
TUTICORN
KOLKATA
HALDIA
PARADIP
VIZAG
KRISHNAPATNAM
KATTUPALLI
ENNORE
CHENNAI
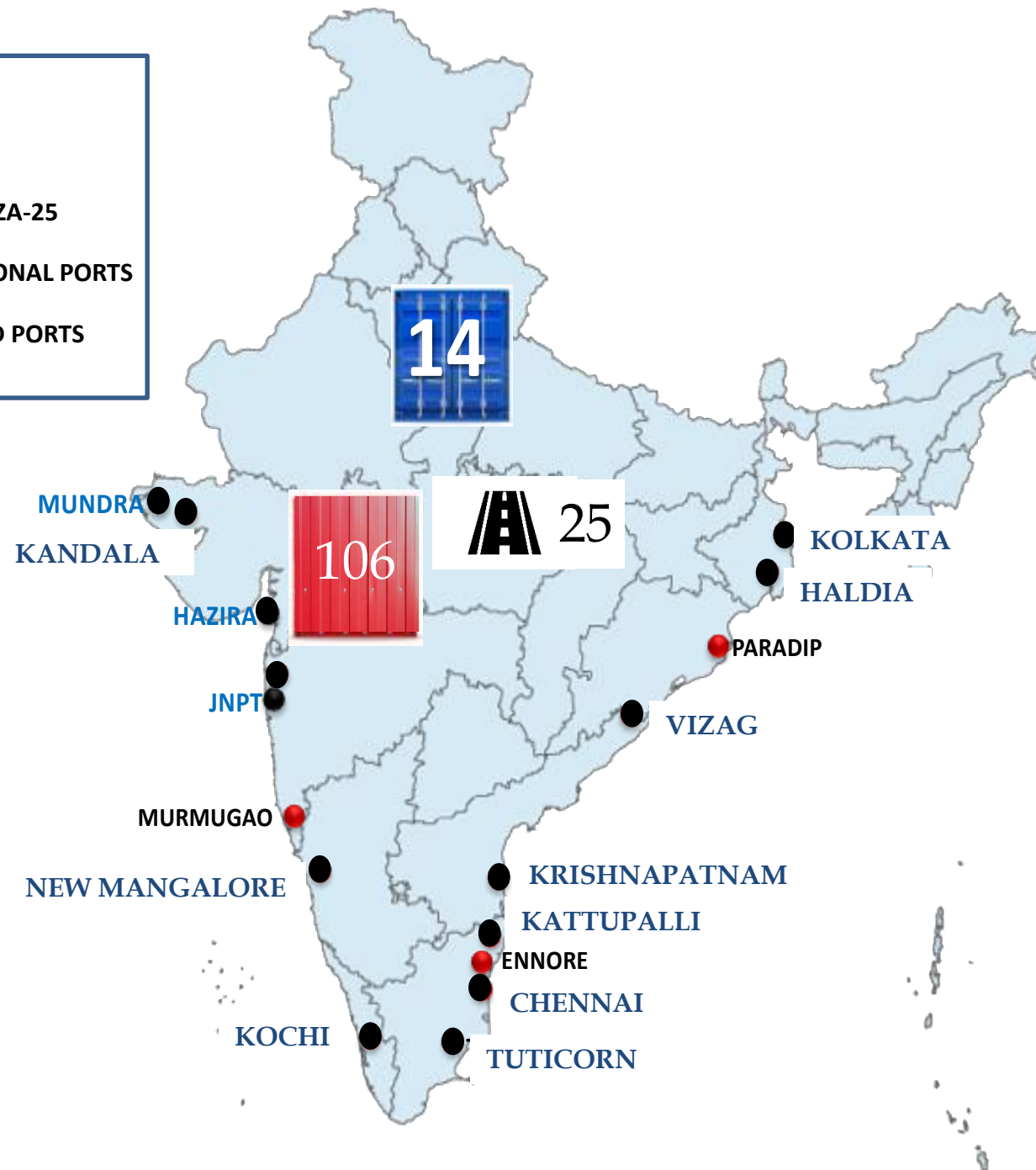
Below mentioned are all the CFS in the respective Clusters :

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	Transindia Logistics Park, Navi Mumbai		16	Navkar Corporation Yard 2 CFS, Panvel
2	Gateway Distriparks CFS, Navi Mumbai		17	Seabird CFS, Navi Mumbai
3	CWC Hind Terminal CFS, Navi Mumbai		18	Sarveshwar CFS
4	International Cargo Terminal CFS		19	Ashte Logistics CFS, Panvel
5	Ameya Logistics CFS, Navi Mumbai		20	Balmer & Lawrie CFS, Navi Mumbai
6	Navkar Corporation Yard 3 CFS, Panvel		21	Dronagiri Rail Terminal CFS, Navi Mumbai
7	JWR CFS		22	TG Terminals CFS
8	Continental Warehousing CFS, Navi Mumbai		23	Vaishno Logistics CFS, Navi Mumbai
9	JWC Logistics Park CFS		24	Indev Logistics CFS, Panvel
10	Speedy Multimode CFS, JNPT		25	Take Care Logistics CFS
11	EFC Logistics India		26	Navkar Corporation Yard 1 CFS, Panvel
12	International Cargo Terminals (ULA) CFS, Navi Mumbai		27	Ocean Gate CFS, Panvel
13	Punjab Conware CFS, Navi Mumbai		28	Maersk Annex (APM)CFS, Navi Mumbai
14	APM (Maersk India) CFS, Navi Mumbai		29	Maharashtra State Corp CFS
15	Apollo Logisolutions CFS, Panvel			

THANK YOU