Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	Dec'19 (in hrs)	Jan'20 (in hrs)
JNPCT	24.8	21.1
NSICT	17.3	18.2
GTI	15.1	15.3
NSIGT	18.9	19.8
BMCT/PSA	17.9	19.8

Export Cycle		
Port	Dec'19 (in hrs)	Jan'20 (in hrs)
JNPCT	21.1	22.4
NSICT	39.5	35.5
GTI	20.8	26.8
NSIGT	14.9	15.8
BMCT/PSA	22.7	21.6

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- In Import Cycle, Train bound container handling performance at Port Terminal has decreased which has led to decrease Port to ICD Transit Time and ICD Dwell Time

Month	Import Cycle – Dwell Time (Rail Bound)	Port to ICD	ICD Dwell Time
Jan'20	33.6 hrs	71.6 hrs	122.5 hrs
Dec'19	32.4 hrs	67.2 hrs	120.8 hrs

(Import Cycle – Dwell Time: 4% ↓ | Port to ICD: 6% ↓ | ICD Dwell Time: 1% ↓)

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	Dec'19 (in hrs)	Jan'20 (in hrs)
Overall	19.1	19.2
Truck	17.5	17.52
Train	34.0	35.2

EXPORT

Mode	Dec'19 (in hrs)	Jan'20 (in hrs)
Overall	81.7	84.2
Truck	81.8	83.6
Train	81.2	89.6

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

Entity	Dec'19 (in hrs)	Jan'20 (in hrs)
CFS	75.1	80.7
ICD	120.8	122.5

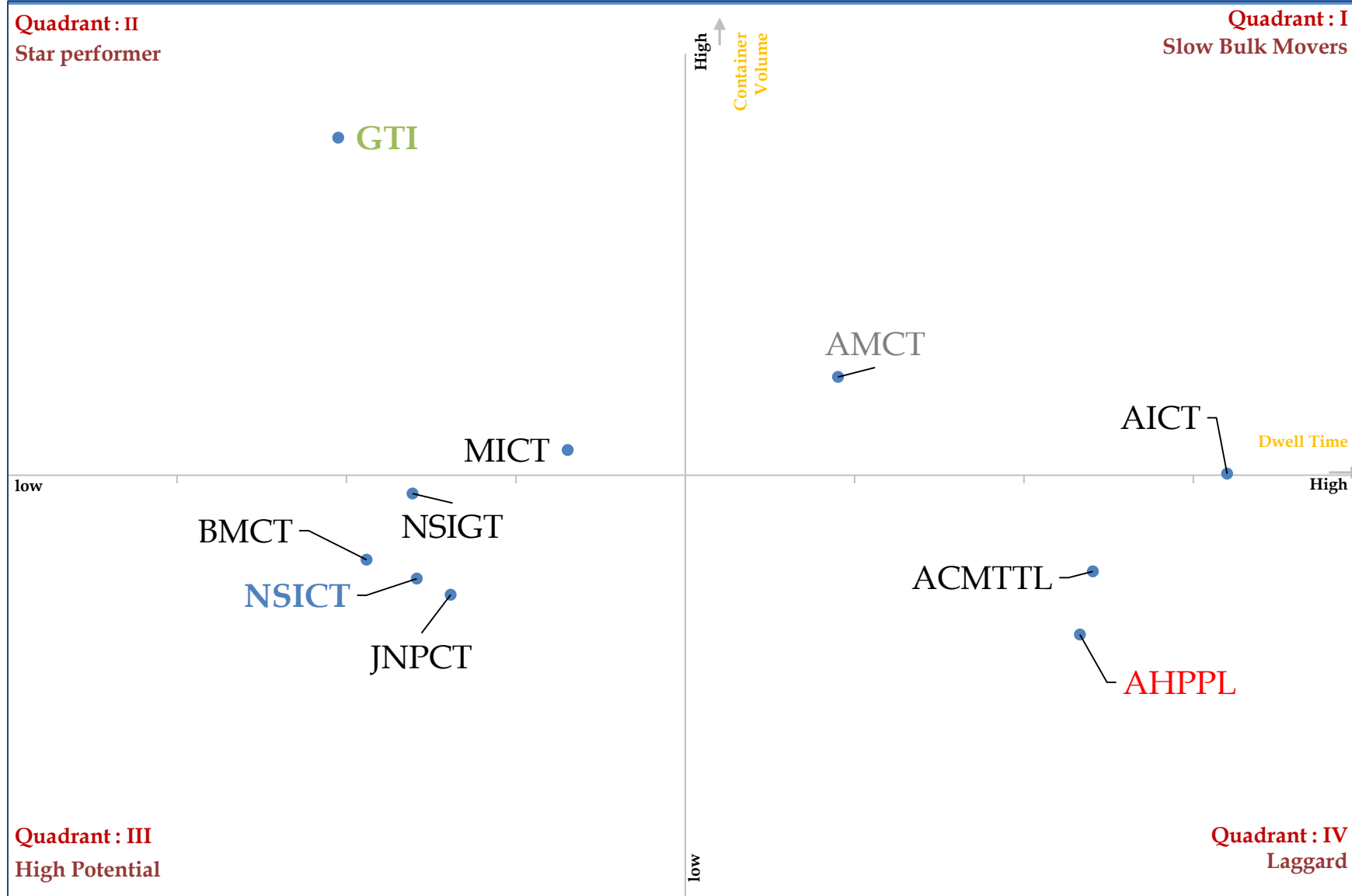The marked entries showcase increase in performance in comparison to Dec'19

The marked entries showcase decrease in performance in comparison to Dec'19

Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – Jan'20

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High — Container Volume

• GTI

AMCT

AICT

MICT •

Dwell Time — High

low

BMCT

NSIGT

NSICT

ACMTTL

JNPCT

AHPPL

Quadrant : III
High Potential

Quadrant : IV
Laggard

low

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

Top Performing Terminal	
Gateway Terminals India	
Dec'19	Jan'20
34.1 hrs	32.5 hrs ⬆

Low Performing Terminal	
Adani Hazira Port Private Limited (AHPPL)	
Dec'19	Jan'20
83.3 hrs	73.2 hrs ⬆

Note: The performance benchmarking is based on performance index

The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Dec'19

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
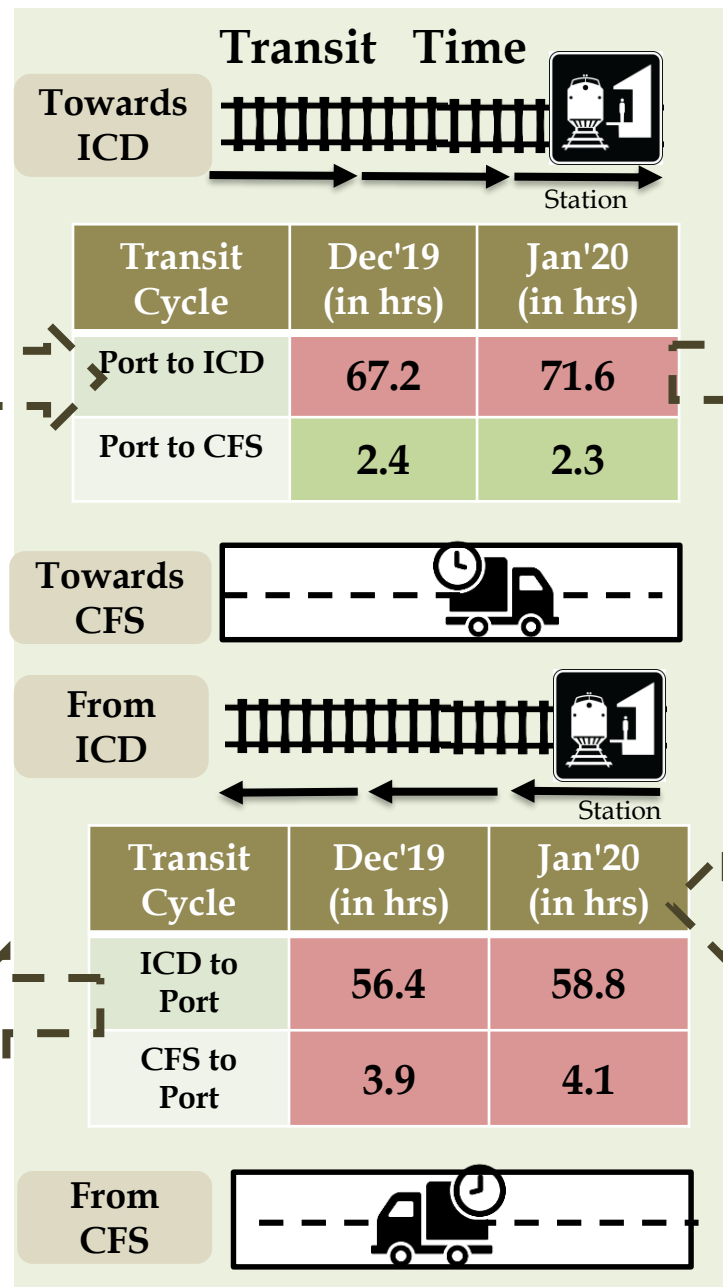
Container Transportation- JNPT Port Terminals

Container Lifecycle (Import Cycle) →

Port Dwell Time

IMPORT

Mode	Dec'19 (in hrs)	Jan'20 (in hrs)
Overall	17.8	18.0
Truck	16.1	16.4
Train	32.4	33.6

EXPORT

Mode	Dec'19 (in hrs)	Jan'20 (in hrs)
Overall	66.7	67.3
Truck	68.1	68.4
Train	52.1	49.3

Transit Time

Towards ICD — Station

Transit Cycle	Dec'19 (in hrs)	Jan'20 (in hrs)
Port to ICD	67.2	71.6
Port to CFS	2.4	2.3

Towards CFS

From ICD — Station

Transit Cycle	Dec'19 (in hrs)	Jan'20 (in hrs)
ICD to Port	56.4	58.8
CFS to Port	3.9	4.1

From CFS

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

ICD   CFS

Entity	Dec'19 (in hrs)	Jan'20 (in hrs)
CFS	72.8	78.5
ICD	120.8	122.5

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	82%	18%
Export	83%	17%

The marked entries showcase the increase in performance as compared to Dec'19

The marked entries showcase the decrease in performance as compared to Dec'19

Container Lifecycle (Export Cycle) ←

JNPT Region: Parking Plaza Dwell Time Analysis

Container handling performance around Parking Plaza and JNPT Port Terminal is depicted below for the month Dec'19 and Jan'20

Parking Plaza Gate In – Gate Out

Parking Plaza Gate Out – Terminal In

Waiting Time at Parking Plaza

Mode	Dec'19 (in hrs)	Jan'20 (in hrs)
Overall	7.5	6.9

Transit time from Parking plaza to JNPT Port Terminal

Mode	Dec'19 (in hrs)	Jan'20 (in hrs)
Overall	2.0	1.95

Export Cycle

The marked entries showcase the increase in performance compared to last month

The marked entries showcase the decrease in performance compared to last month

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
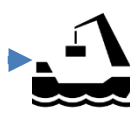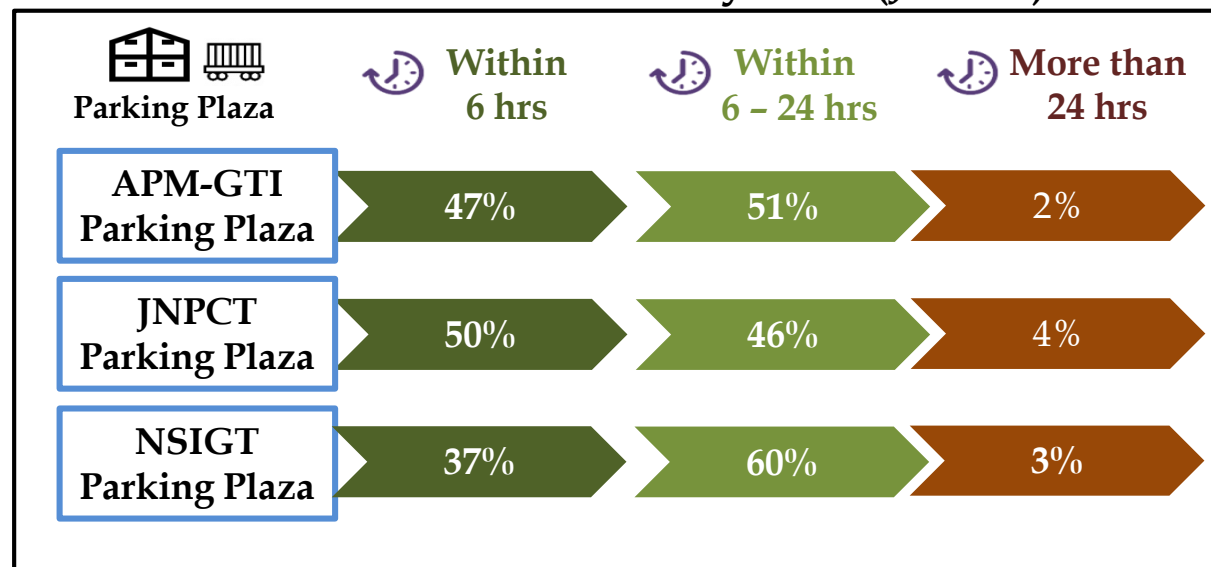
Export Cycle

Parking Plaza Gate In – Gate Out

Overall – 6.9 hrs		
Parking Plaza	**Dec'19 (in hrs)**	**Jan'20 (in hrs)**
APM-GTI Parking Plaza	-	6.4
JNPCT Parking Plaza	6.3	5.9
NSIGT Parking Plaza	7.7	7.8

Container Handled: Day wise (Jan'20)

Parking Plaza	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
APM-GTI Parking Plaza	47%	51%	2%
JNPCT Parking Plaza	50%	46%	4%
NSIGT Parking Plaza	37%	60%	3%

Parking Plaza Gate Out – Terminal In

Overall – 1.95 hrs		
Port	**Dec'19 (in hrs)**	**Jan'20 (in hrs)**
JNPCT	1.7	1.8
NSICT	1.7	1.4
GTI	2.0	2.5
NSIGT	2.2	1.7
BMCT	2.6	3.0

Container Handled: Day wise (Jan'20)
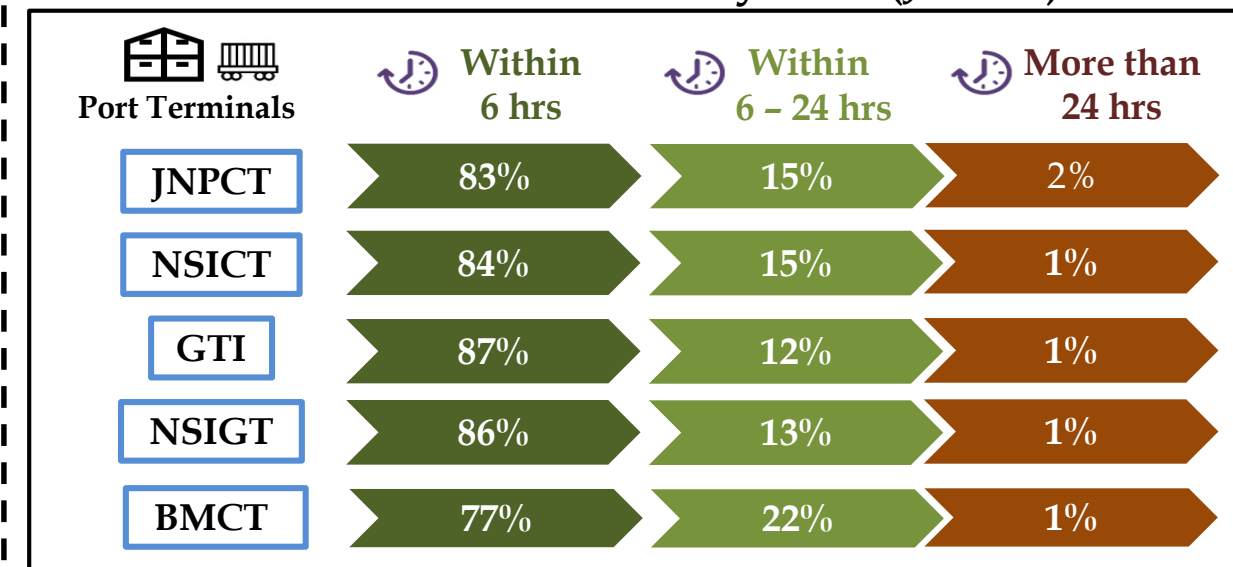
Port Terminals	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPCT	83%	15%	2%
NSICT	84%	15%	1%
GTI	87%	12%	1%
NSIGT	86%	13%	1%
BMCT	77%	22%	1%

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (Jan'20 – in hrs)			Compared to Dec'19	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	18.0	1%	↓
	Port Dwell Time for Truck Bound Containers	16.4	2%	↓
	Port Dwell time for Train Bound Containers	33.6	4%	↓
	Port Dwell time Direct Port Delivery (DPD) containers	30.4	6%	↓
	Port Dwell time Containers bound for CFS	14.1	7%	↑
	Port Dwell for Empty Containers	28.7	22%	↓
	Port Dwell for Laden Containers	18.0	1%	↑
TRANSIT TIME	Port to ICD	71.6	6%	↓
	Port to CFS	2.3	4%	↑

EXPORT CYCLE DWELL TIME (Jan'20– in hrs)			Compared to Dec'19	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	67.3	1%	↓
	Port Dwell Time for Truck Bound Containers	68.4	0.4%	↓
	Port Dwell time for Train Bound Containers	49.3	5%	↑
	Port Dwell time Direct Port Entry (DPE) containers	70.4	3%	↓
	Port Dwell time Containers bound from CFS	63.6	6%	↓
	Port Dwell for Empty Containers	71.2	7%	↑
	Port Dwell for Laden Containers	67.2	1%	↓
TRANSIT TIME	ICD to Port	58.8	4%	↓
	CFS to Port	4.1	6%	↓

↑↓ The arrows depict increase/ decrease in performance of the stakeholders in comparison to Dec'19
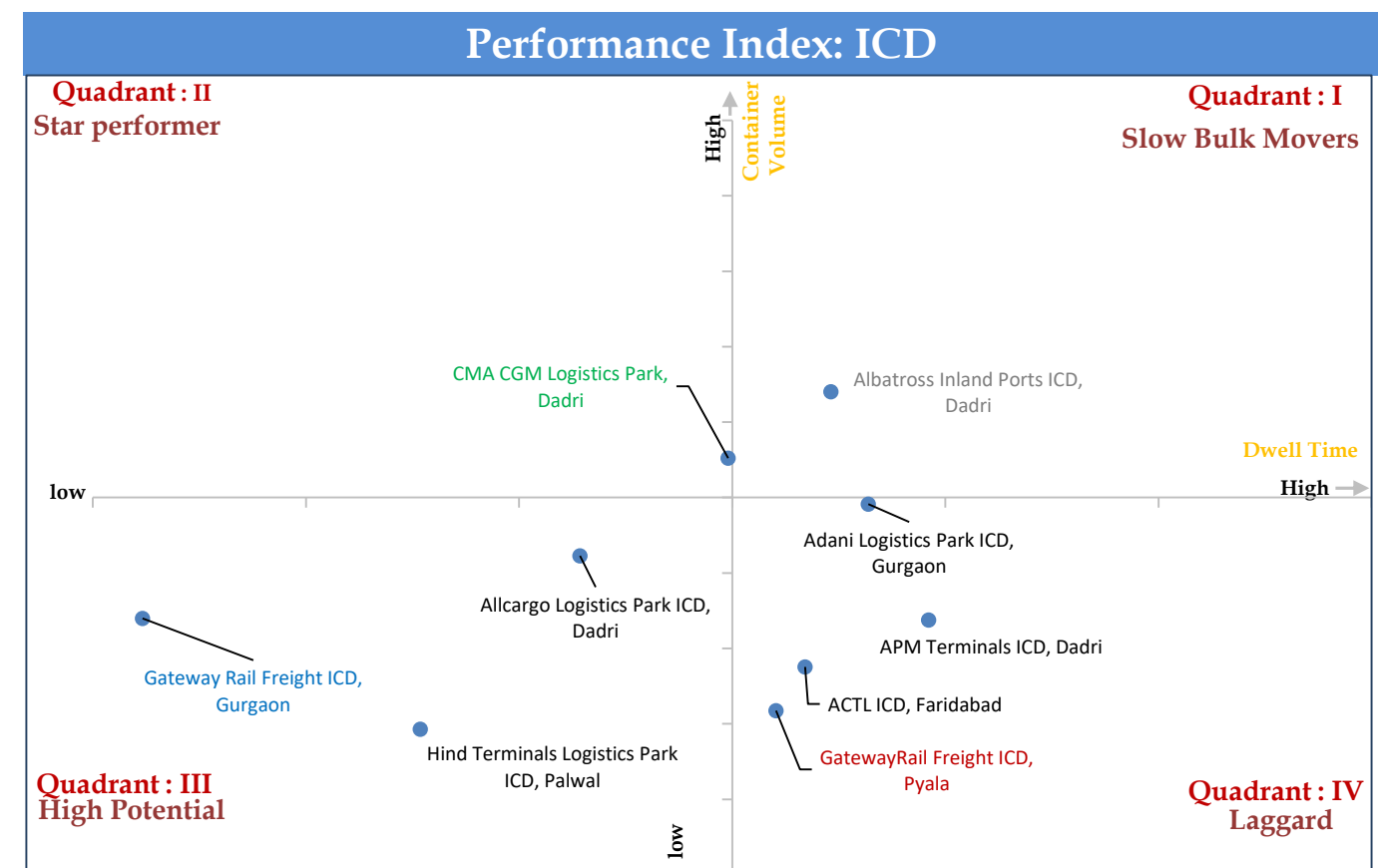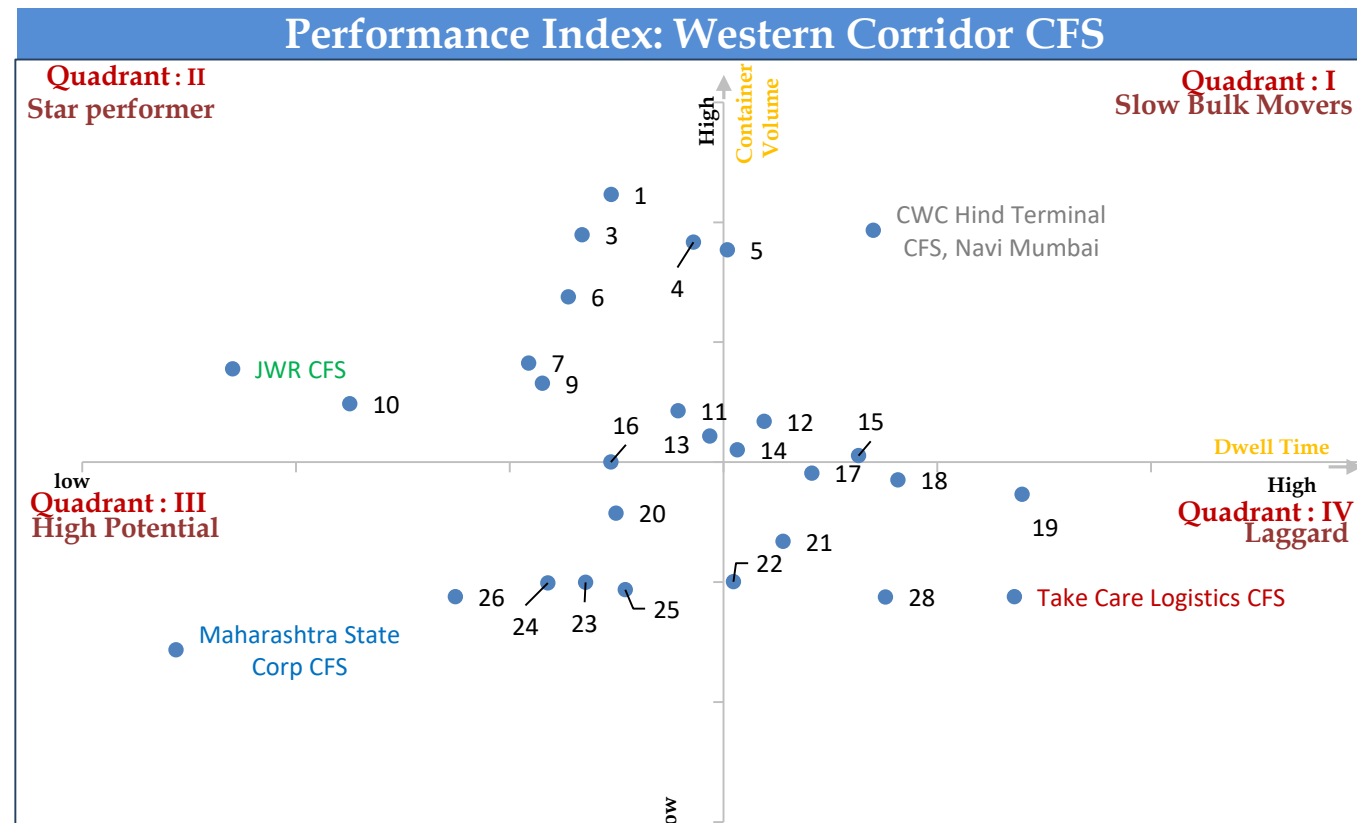
CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

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

Top Performing CFS		
JWR CFS		
Dec'19	Jan'20	
49.0 hrs	52.1 hrs	▼

Low Performing CFS		
Take Care Logistics CFS		
Dec'19	Jan'20	
88.7 hrs	101.4 hrs	▼

Top Performing ICD		
CMA CGM Logistics Park, Dadri		
Dec'19	Jan'20	
126.5 hrs	122.5 hrs	▲

Low Performing ICD		
GatewayRail Freight ICD, Pyala		
Dec'19	Jan'20	
128.1 hrs	126.6 hrs	▲

Note: The performance benchmarking is based on performance index
The arrows depict increase/decrease in overall performance of the stakeholders as compared to Dec'19

Performance Index: Western Corridor CFS

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High — Container Volume

1
3
5
4
6
CWC Hind Terminal CFS, Navi Mumbai
7
9
JWR CFS
10
16
11
13
12
14
15
Dwell Time — High
17
18
20
19
21
22
26
24 23 25
28
Take Care Logistics CFS
Maharashtra State Corp CFS

low
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

High — Container Volume

CMA CGM Logistics Park, Dadri
Albatross Inland Ports ICD, Dadri

low
Dwell Time — High

Adani Logistics Park ICD, Gurgaon
Allcargo Logistics Park ICD, Dadri
APM Terminals ICD, Dadri
Gateway Rail Freight ICD, Gurgaon
ACTL ICD, Faridabad
Hind Terminals Logistics Park ICD, Palwal
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
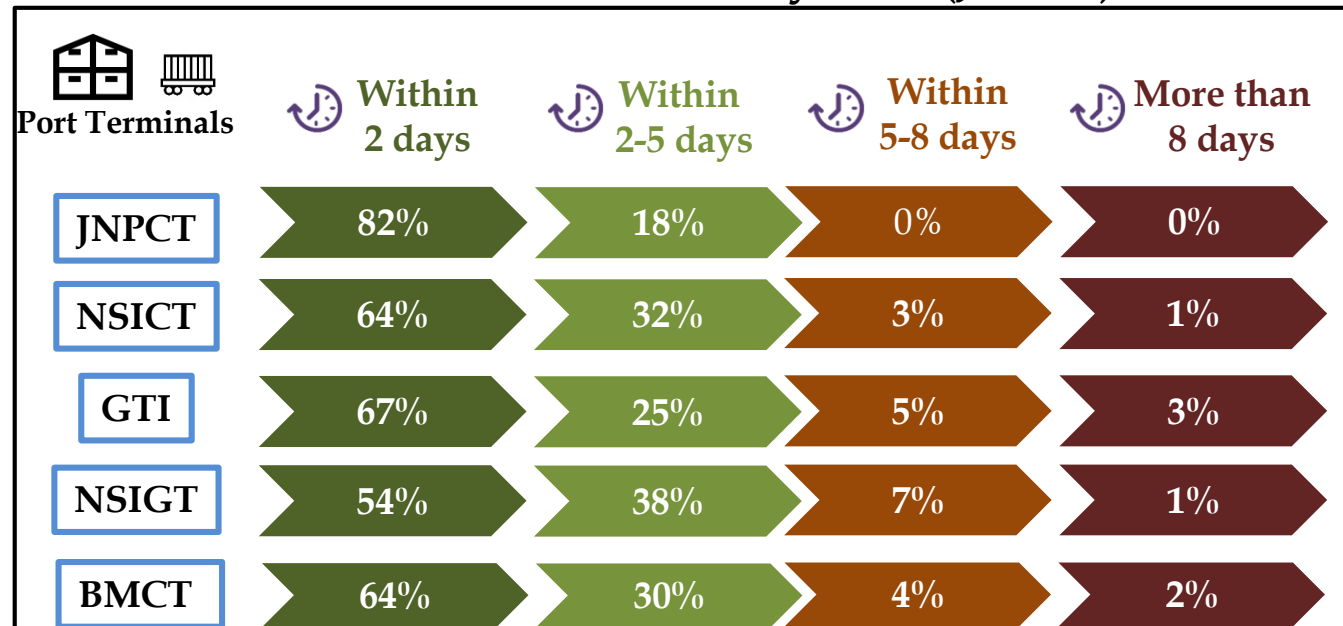
PORT IMPORT via TRAIN
(18% of total import volume at JNPT Port)

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

Port	Dec'19 (in hrs)	Jan'20 (in hrs)
JNPCT	28.7	23.9
NSICT	49.0	37.4
GTI	26.0	29.1
NSIGT	42.5	44.5
BMCT	24.6	32.2

Container Handled: Day wise (Jan'20)

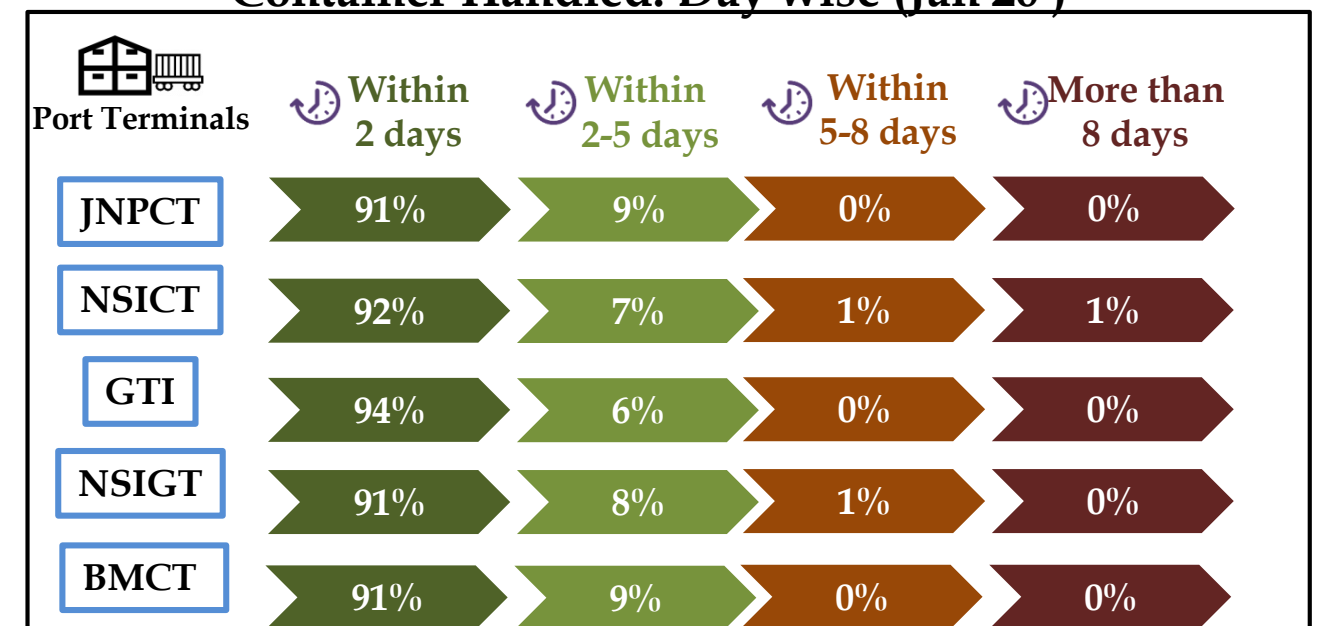| Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	82%	18%	0%	0%
NSICT	64%	32%	3%	1%
GTI	67%	25%	5%	3%
NSIGT	54%	38%	7%	1%
BMCT	64%	30%	4%	2%

PORT IMPORT via TRUCK
(82% of total import volume at JNPT Port)

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

Port	Dec'19 (in hrs)	Jan'20 (in hrs)
JNPCT	24.4	20.8
NSICT	14.5	16.5
GTI	13.7	13.8
NSIGT	15.2	16.5
BMCT	17.4	18.6

Container Handled: Day wise (Jan'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	91%	9%	0%	0%
NSICT	92%	7%	1%	1%
GTI	94%	6%	0%	0%
NSIGT	91%	8%	1%	0%
BMCT	91%	9%	0%	0%

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

Jan'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	34.8 hrs	19.2 hrs

Port Dwell time based on container type

Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	20.7 hrs	33.5 hrs

GTI

Port Dwell time based on transit type

Jan'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.9 hrs	11.7 hrs

Port Dwell time based on container type

Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	14.5 hrs	24.5 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

Jan'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	39.1 hrs	13.2 hrs

Port Dwell time based on container type

Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	15.0 hrs	28.2 hrs

NSIGT

Port Dwell time based on transit type

Jan'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	35.5 hrs	13.8 hrs

Port Dwell time based on container type

Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	18.3 hrs	30.7 hrs

BMCT

Port Dwell time based on transit type

Jan'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.3 hrs	16.2 hrs

Port Dwell time based on container type

Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	18.5 hrs	32.3 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 Jan'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
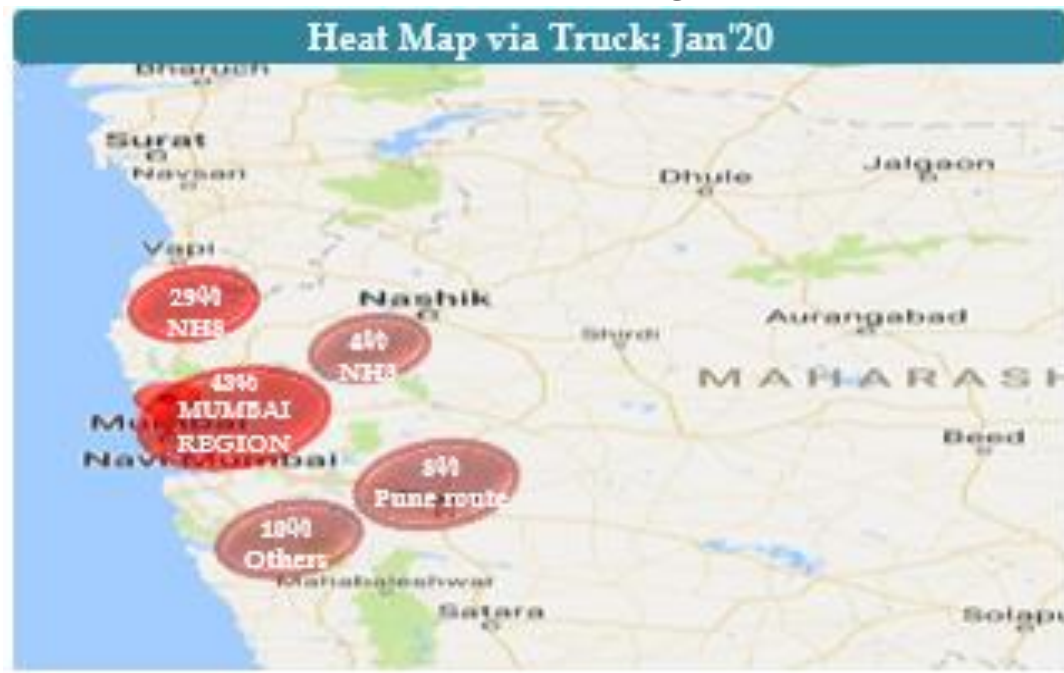 2) Analysis consist of CFS covered under LDB project

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

Truck
HEAT MAP : OVERALL MUMBAI REGION

Region	Jan'20
Mumbai region	48%
NH3	4%
Pune	8%
NH8	29%
others	10%

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

Heat Map via Truck: Jan'20

Train
VOLUME WISE CONTAINER MOVEMENT

Region	Jan'20
Vadodra Route	30%
Ratlam Route	26%
Wardha Route	15%
Kota Route	20%
Bhopal Route	9%

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

Container movement via Rail – Jan'20

Western Corridor Toll Plaza Analysis
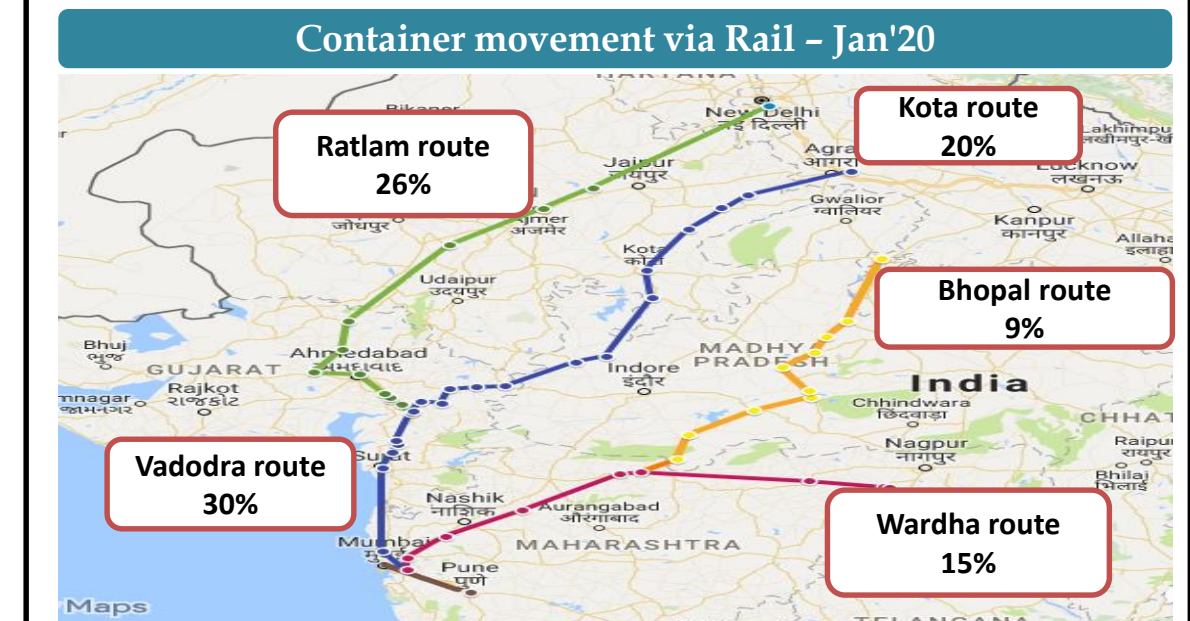
Avg. Speed between Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Dec'19 (in km/hrs)	Jan'20 (in km/hrs)
JNPT	JNPT	Khaniwade	94	15.7	13.4
	JNPT	Khalapur	60	5.0	6.9
	Khaniwade	Charoti	50	37.4	37.0
	Charoti	Boriach	126	29.0	29.3
	Boriach	Bharthan	142	33.8	33.8
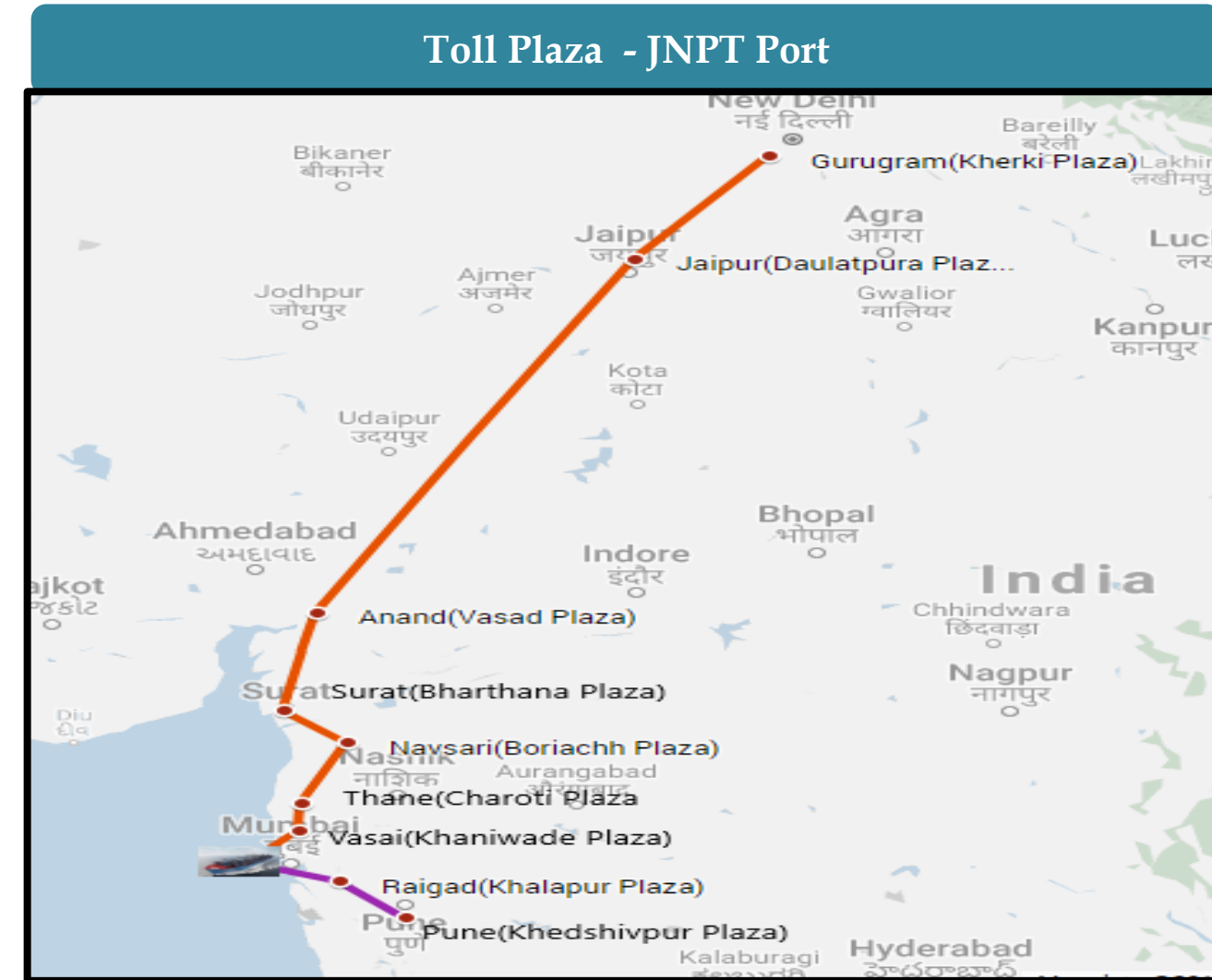
Toll Plaza - JNPT Port

Export Cycle Analysis

JNPT Region: Dwell Time Performance (Export Cycle)

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Logistics Redefined

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
(17% 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	Dec'19 (in hrs)	Jan'20 (in hrs)
JNPCT	86.8	83.3
NSICT	8.0	6.3
GTI	70.8	85.1
NSIGT	83.7	73.3
BMCT	95.4	94.0

Container Handled: Day wise (Jan'20)

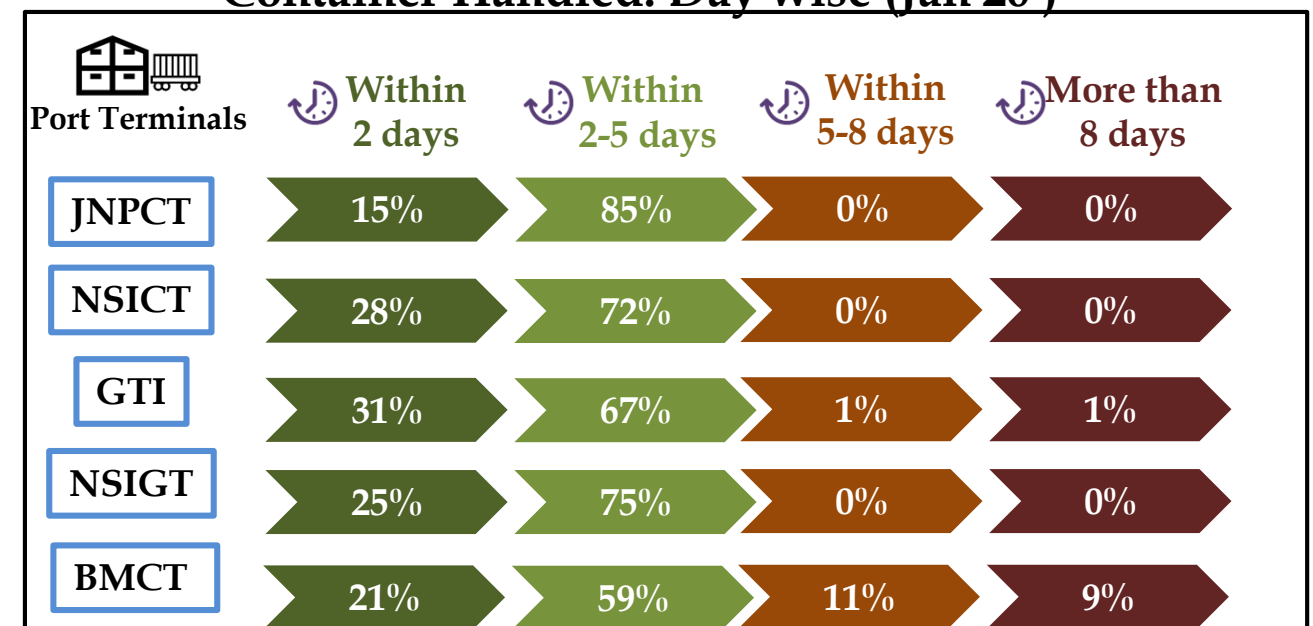| Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	14%	86%	0%	0%
NSICT	89%	11%	0%	0%
GTI	32%	34%	25%	9%
NSIGT	21%	79%	0%	0%
BMCT	37%	20%	30%	13%
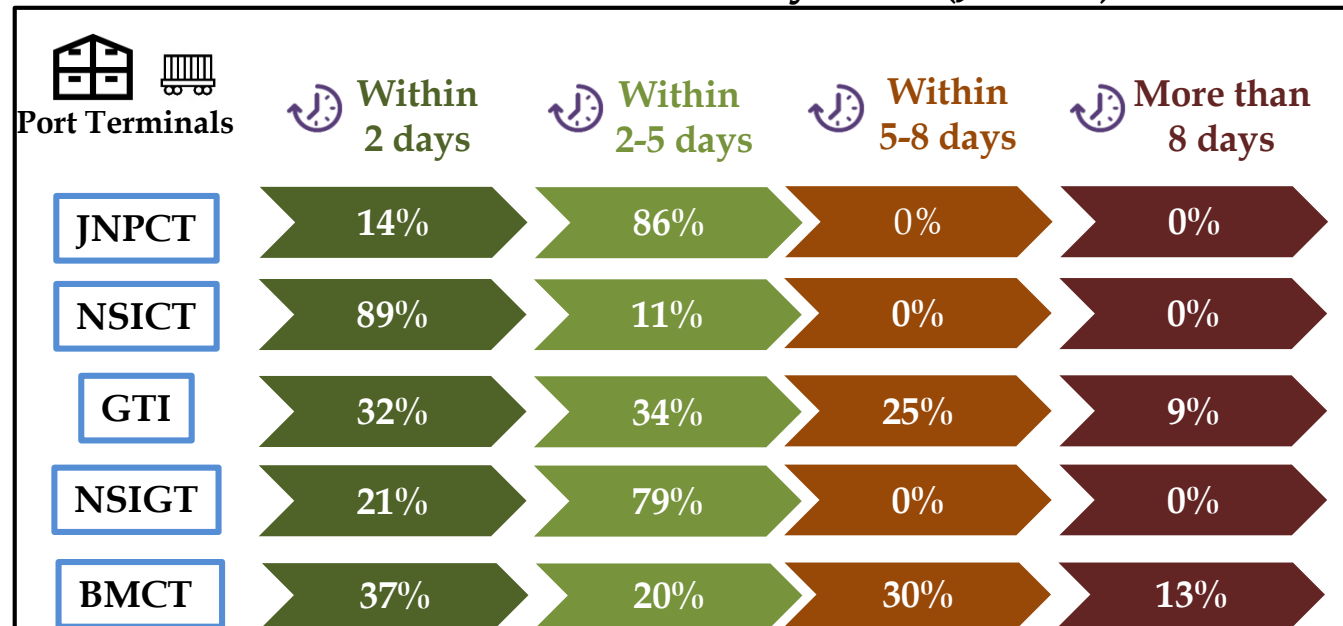
PORT EXPORT via TRUCK
(83% of total export volume at JNPT Port)

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	Dec'19 (in hrs)	Jan'20 (in hrs)
JNPCT	76.3	74.2
NSICT	76.3	68.7
GTI	63.0	63.5
NSIGT	65.1	69.4
BMCT	75.1	77.6

Container Handled: Day wise (Jan'20)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	15%	85%	0%	0%
NSICT	28%	72%	0%	0%
GTI	31%	67%	1%	1%
NSIGT	25%	75%	0%	0%
BMCT	21%	59%	11%	9%

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 Jan'20

JNPCT

Port Dwell time based on transit type

Jan'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	68.7 hrs	68.6 hrs

Port Dwell time based on container type

Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	68.8 hrs	80.9 hrs

GTI

Port Dwell time based on transit type

Jan'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	67.0 hrs	57.5 hrs

Port Dwell time based on container type

Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	64.2 hrs	64.5 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 Jan'20

NSICT

Port Dwell time based on transit type		
Jan'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.2 hrs	64.9 hrs

Port Dwell time based on container type		
Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	63.8 hrs	48.0 hrs

NSIGT

Port Dwell time based on transit type		
Jan'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.2 hrs	65.4 hrs

Port Dwell time based on container type		
Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	69.1 hrs	48.5 hrs

BMCT

Port Dwell time based on transit type		
Jan'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	70.8 hrs

Port Dwell time based on container type		
Jan'20	Laden Containers	Empty Containers
Dwell time (in hrs)	78.1 hrs	79.6 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of Jan'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	32%
Ratlam Route	28%
Wardha Route	17%
Kota Route	17%
Bhopal Route	6%

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


Container movement via Rail – Jan'20

CFS and ICD Performance
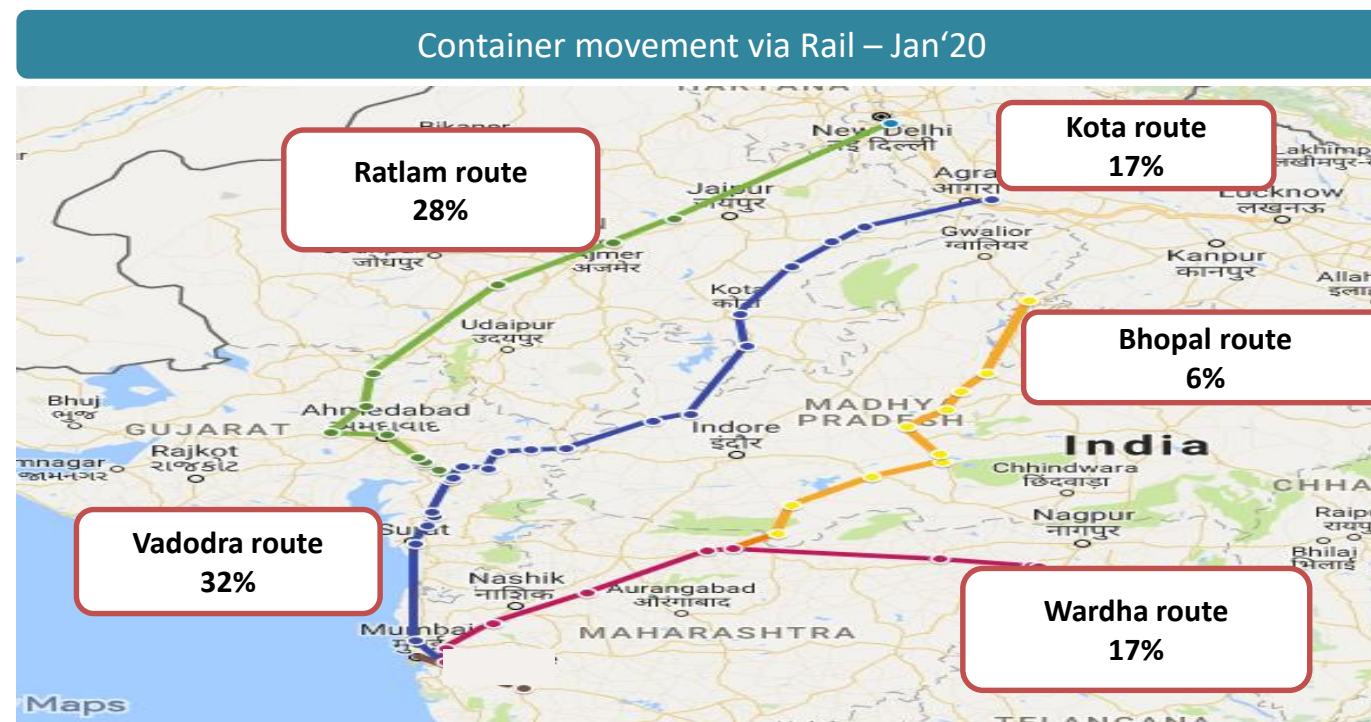
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)

CFS	Dec'19	Jan'20	CFS	Dec'19	Jan'20
Ameya Logistics CFS, Navi Mumbai	81.3	83.3	Maersk Annex (APM)CFS, Navi Mumbai	90.3	83.7
APM (Maersk India) CFS, Navi Mumbai	74.7	76.0	Maharashtra State Corp CFS	-	48.5
Apollo Logisolutions CFS, Panvel	72.0	85.6	Navkar Corporation Yard 1 CFS, Panvel	95.8	93.3
Ashte Logistics CFS, Panvel	85.4	88.6	Navkar Corporation Yard 2 CFS, Panvel	72.0	94.1
Balmer & Lawrie CFS, Navi Mumbai	68.4	76.3	Navkar Corporation Yard 3 CFS, Panvel	71.3	83.9
Continental Warehousing CFS, Navi Mumbai	69.0	70.8	Ocean Gate CFS, Panvel	80.9	76.9
CWC Hind Terminal CFS, Navi Mumbai	76.8	92.5	Punjab Conware CFS, Navi Mumbai	54.0	59.5
Dronagiri Rail Terminal CFS, Navi Mumbai	49.3	66.1	Sarveshwar CFS	88.6	101.9
EFC Logistics India	73.6	82.2	Seabird CFS, Navi Mumbai	84.4	91.6
Gateway Distriparks CFS, Navi Mumbai	79.4	74.1	Speedy Multimode CFS, JNPT	69.9	73.3
Indev Logistics CFS, Panvel	79.8	86.8	Take Care Logistics CFS	88.7	101.4
International Cargo Terminal CFS	74.4	81.2	TG Terminals CFS	90.9	74.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	75.7	80.2	Transindia Logistics Park, Navi Mumbai	69.8	76.0
JWC Logistics Park CFS	70.9	71.6	Vaishno Logistics CFS, Navi Mumbai	70.2	72.0
JWR CFS	49.0	52.1			

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

Average: 78.5 hrs.
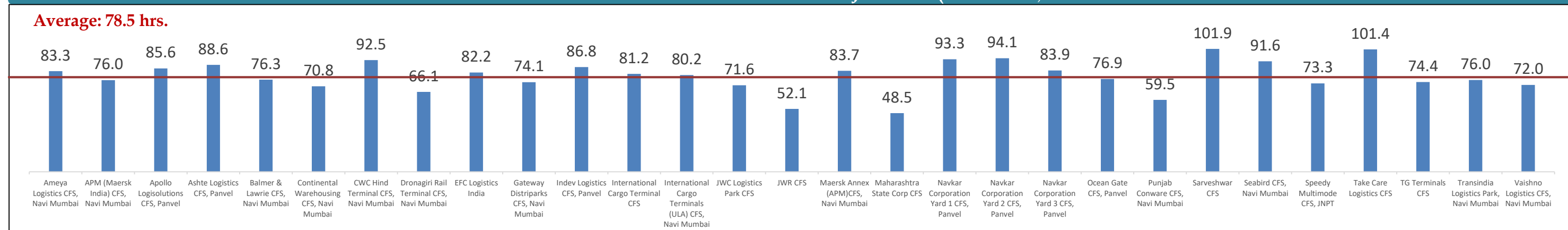
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Dec'19 (in hrs)	Jan'20 (in hrs)
ACTL ICD, Faridabad	122.7	129.1
Adani Logistics Park ICD, Gurgaon	119.0	134.5
Albatross Inland Ports ICD, Dadri	129.9	131.3
Allcargo Logistics Park ICD, Dadri	115.0	109.8
APM Terminals ICD, Dadri	142.3	139.7
CMA CGM Logistics Park, Dadri	126.5	122.5
Gateway Rail Freight ICD, Gurgaon	79.8	72.3
GatewayRail Freight ICD, Pyala	128.2	126.6
Hind Terminals Logistics Park ICD, Palwal	133.3	96.1

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

Avg. 122.5 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
129.1	134.5	131.3	109.8	139.7	122.5	72.3	126.6	96.1

Trend Analysis
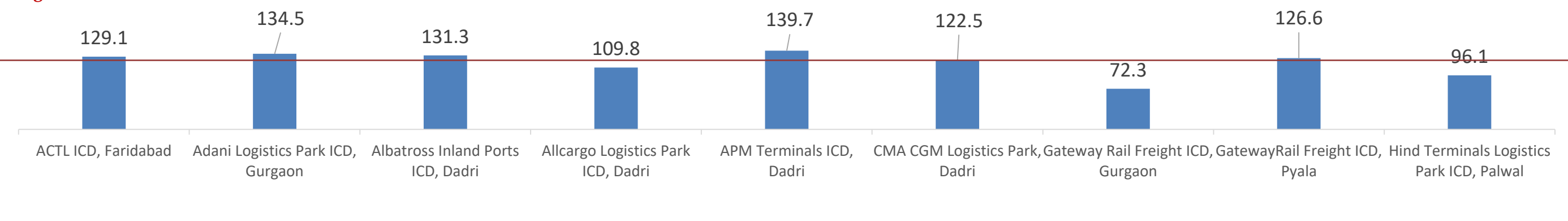
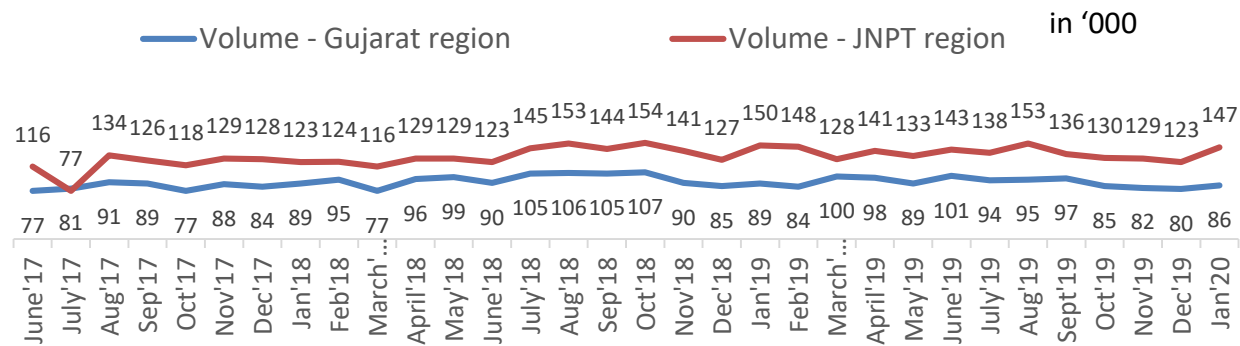# Western Corridor Port – Yearly Analysis

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

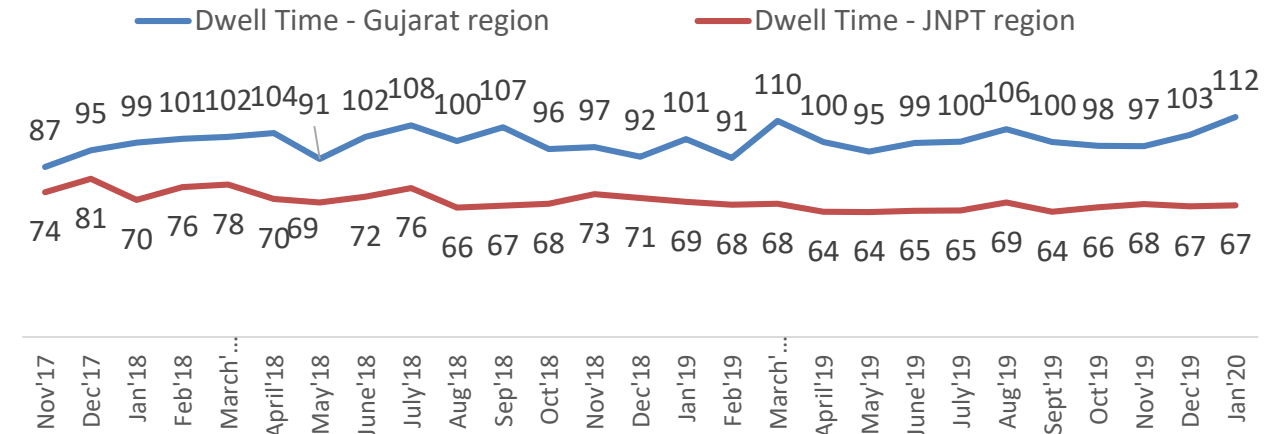## Import Cycle

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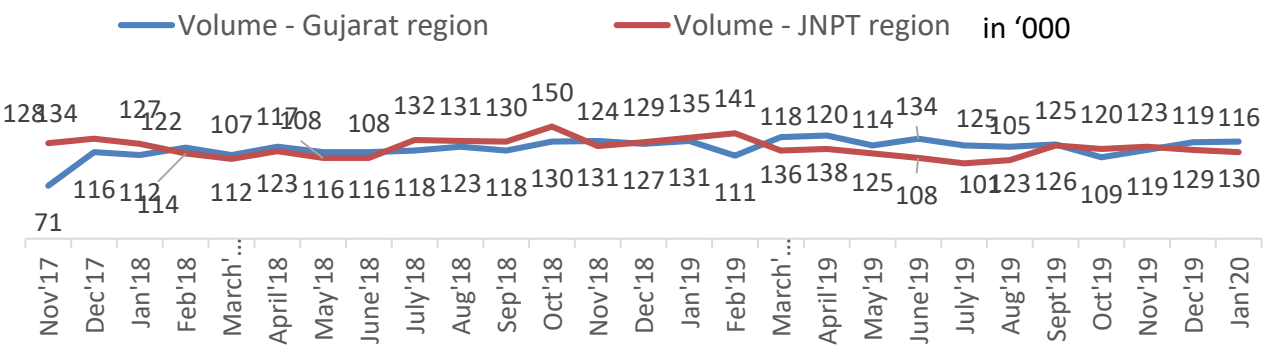
Volume – Gujarat Region Vs JNPT Region

Export Cycle

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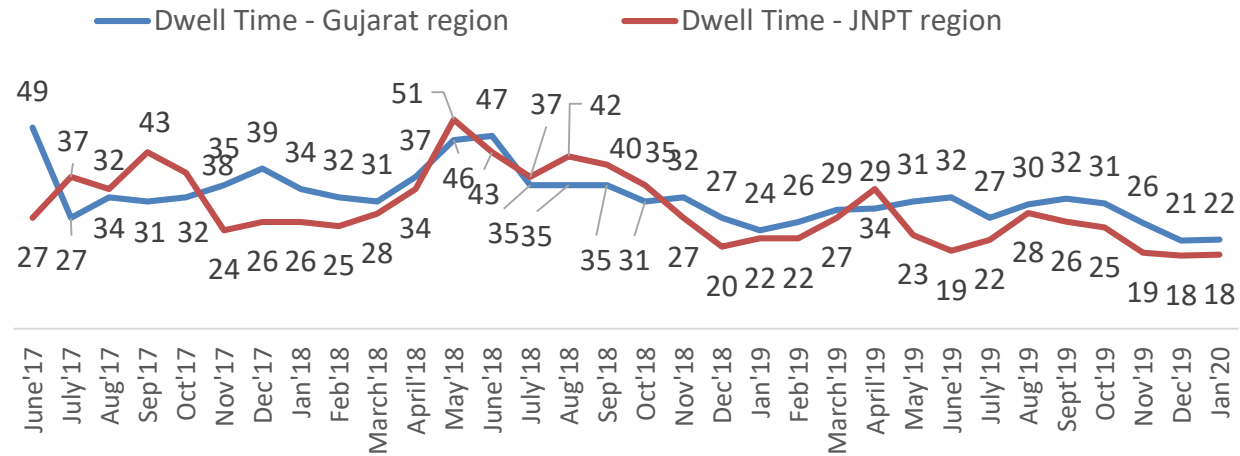
Volume – Gujarat Region Vs JNPT Region

In Import cycle, for the month of Jan'20 JNPT port has catered 71% **more volume** than APSEZ Port, and has maintained 17% **lower dwell time** than APSEZ Port
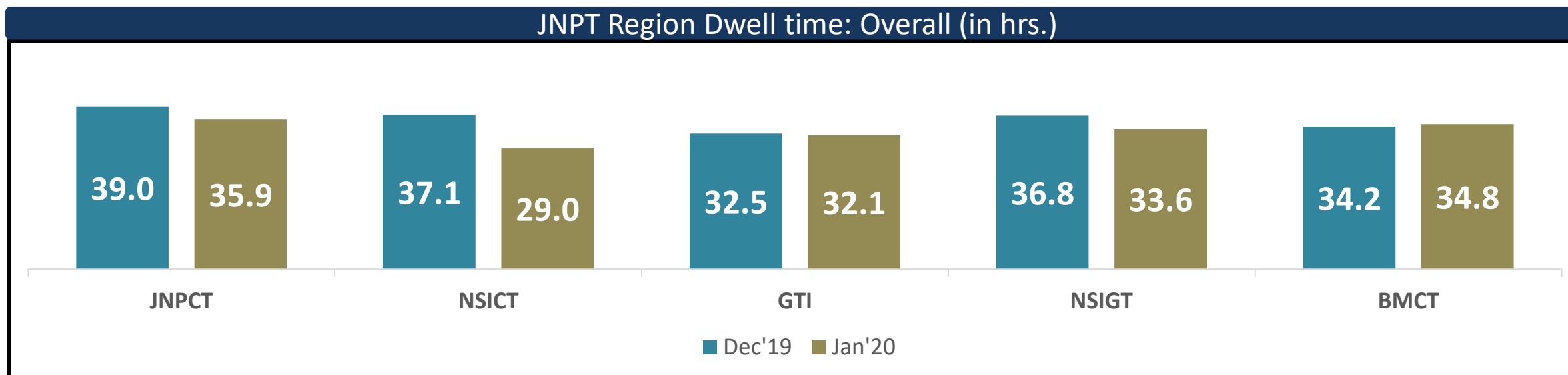
In Export cycle, for the month Jan'20 JNPT port catered **11% more volume** then JNPT Port, and has maintained 40% **lower dwell time** than APSEZ Port

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
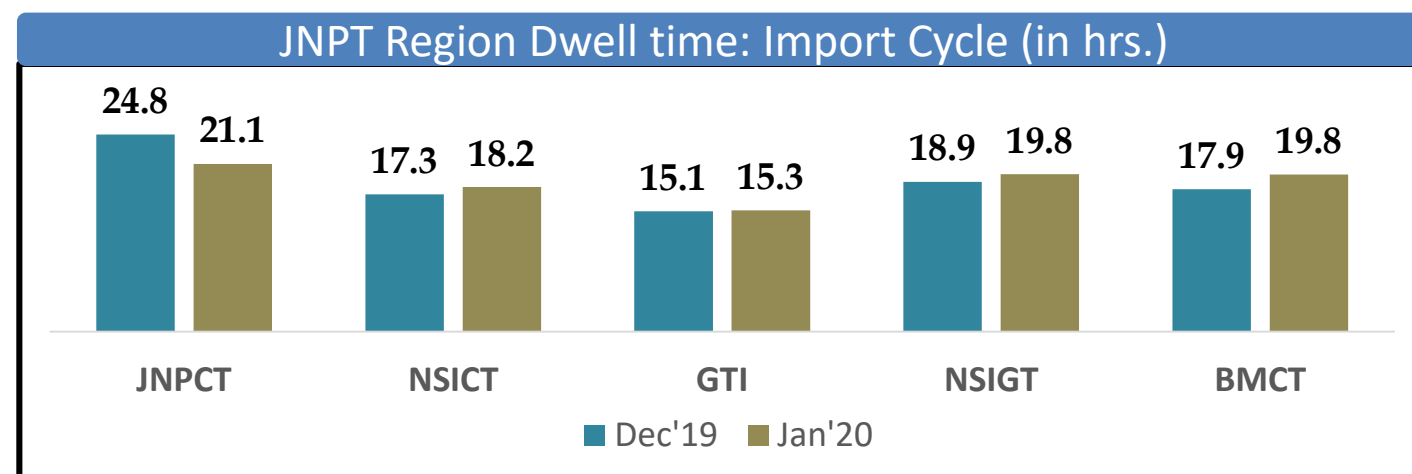
JNPT Region Dwell time: Overall (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
Dec'19	39.0	37.1	32.5	36.8	34.2
Jan'20	35.9	29.0	32.1	33.6	34.8

■ Dec'19   ■ Jan'20

> The overall JNPT region average dwell time for Jan'20 is **32.9 hrs** as compared to **35.0 hrs** in Dec'19

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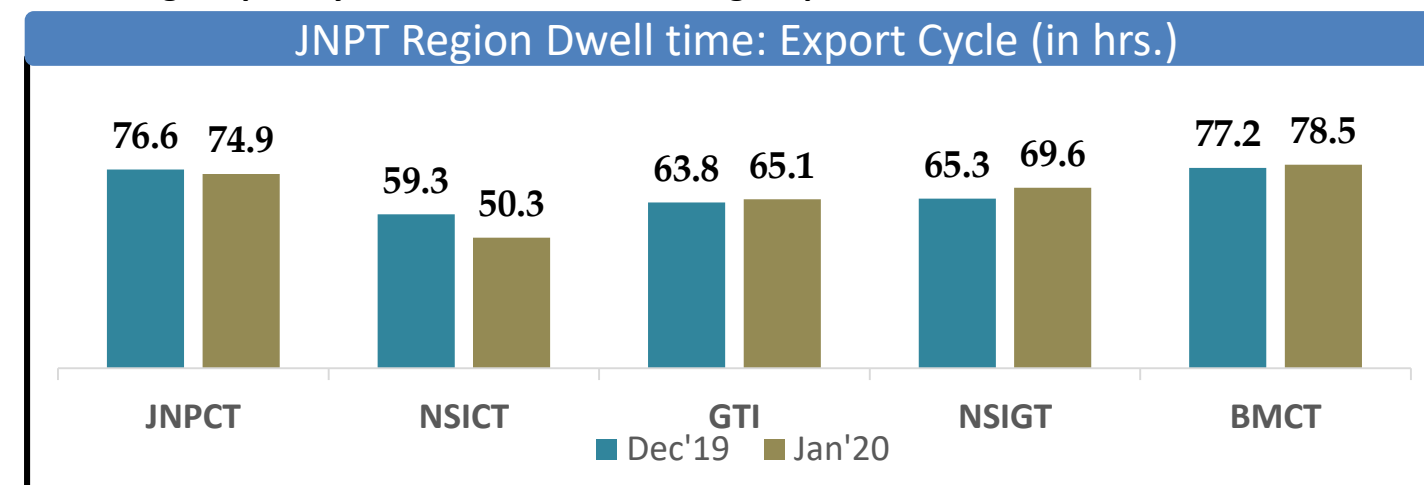
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Jan'20 is **18.0 hrs.**

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

	JNPCT	NSICT	GTI	NSIGT	BMCT
Dec'19	24.8	17.3	15.1	18.9	17.9
Jan'20	21.1	18.2	15.3	19.8	19.8

■ Dec'19   ■ Jan'20

JNPT Export cycle Trend

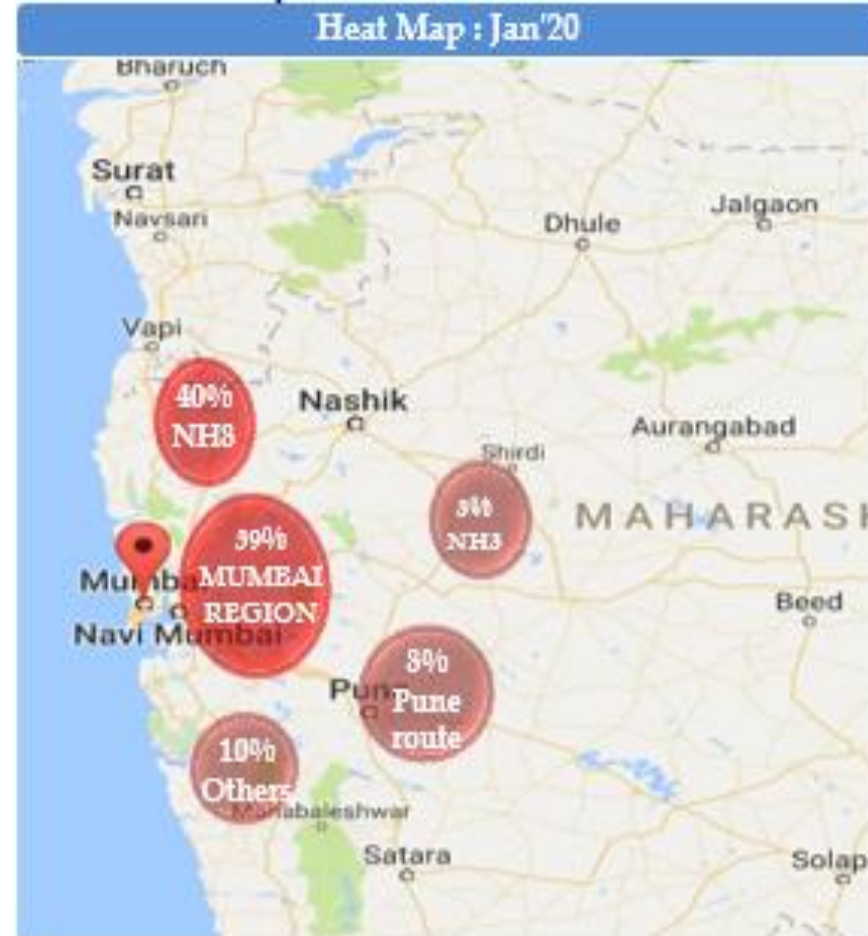The average export cycle dwell time of JNPT region port terminals for Jan'20 is **67.3 hrs.**

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

	JNPCT	NSICT	GTI	NSIGT	BMCT
Dec'19	76.6	59.3	63.8	65.3	77.2
Jan'20	74.9	50.3	65.1	69.6	78.5

■ Dec'19   ■ Jan'20

ANNEXURE

Container movement around JNPT Port terminal region via Truck

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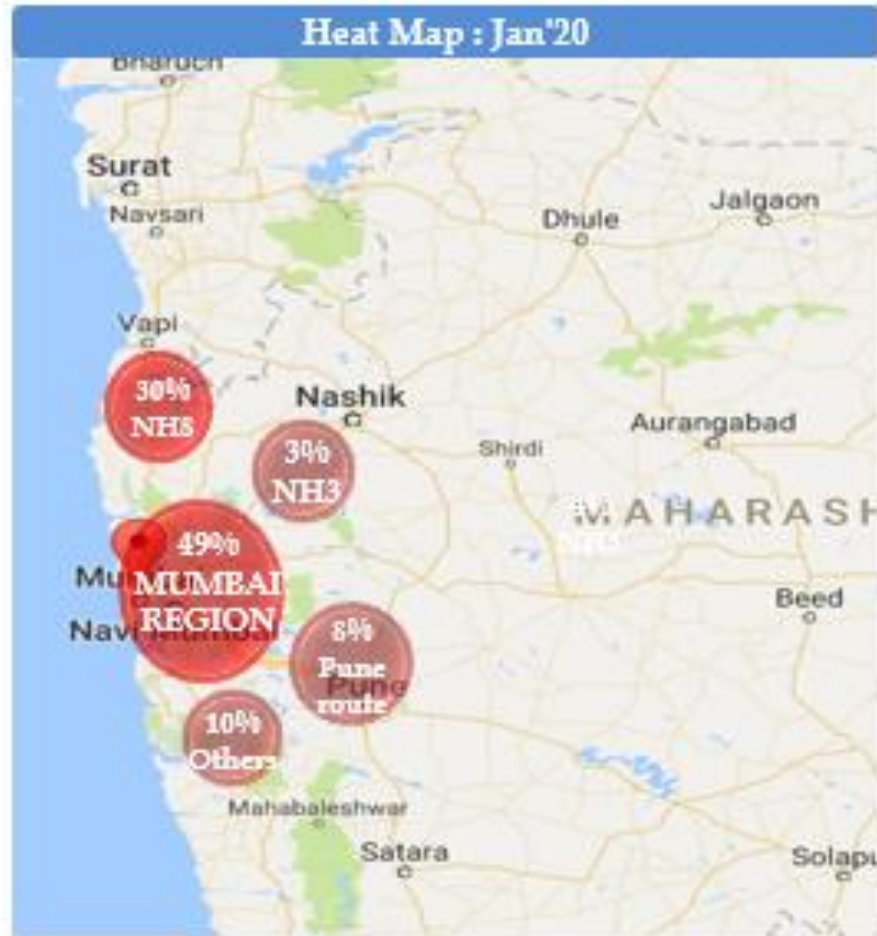
HEAT MAP : JNPCT Port Terminal

HEAT MAP : NSICT Port Terminal

Region	Dec'19	Jan'20
Mumbai region	37%	49%
NH3	4%	3%
Pune	14%	8%
NH8	35%	30%
others	10%	10%

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

Region	Dec'19	Jan'20
Mumbai region	39%	39%
NH3	3%	3%
Pune	11%	8%
NH8	37%	40%
others	10%	10%

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

Region	Dec'19	Jan'20
Mumbai region	44%	57%
NH3	4%	2%
Pune	12%	8%
NH8	30%	24%
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

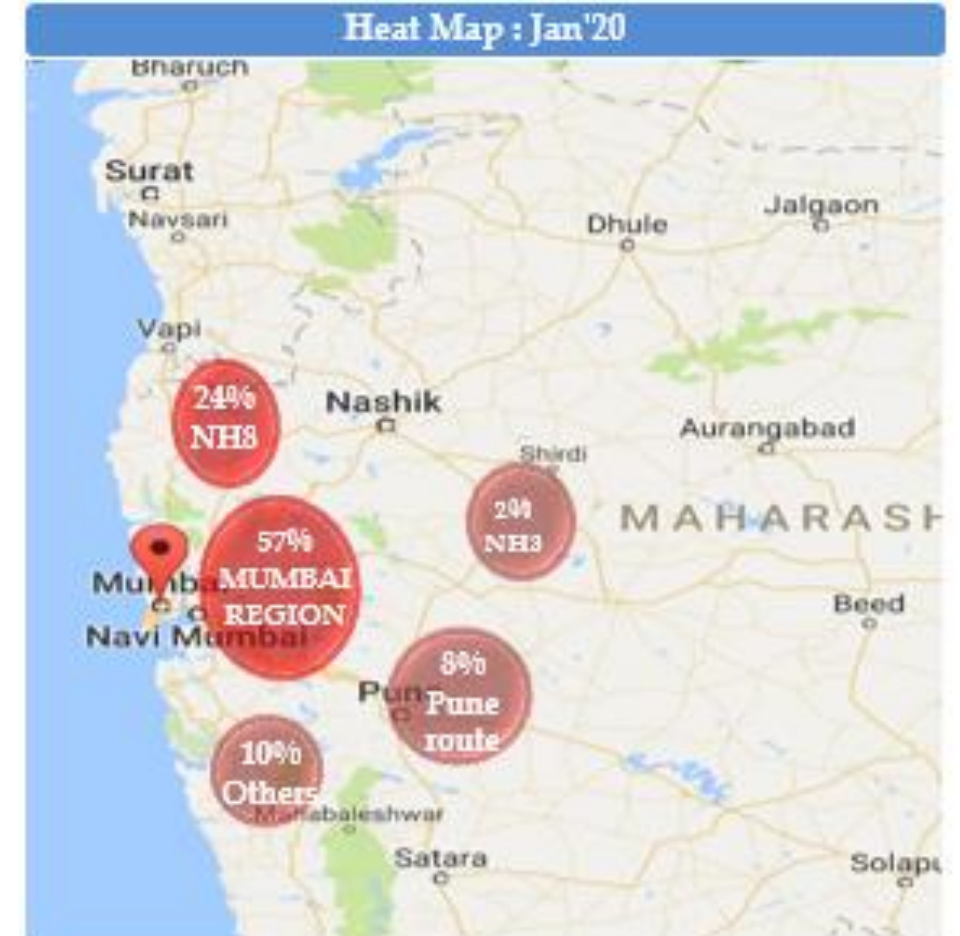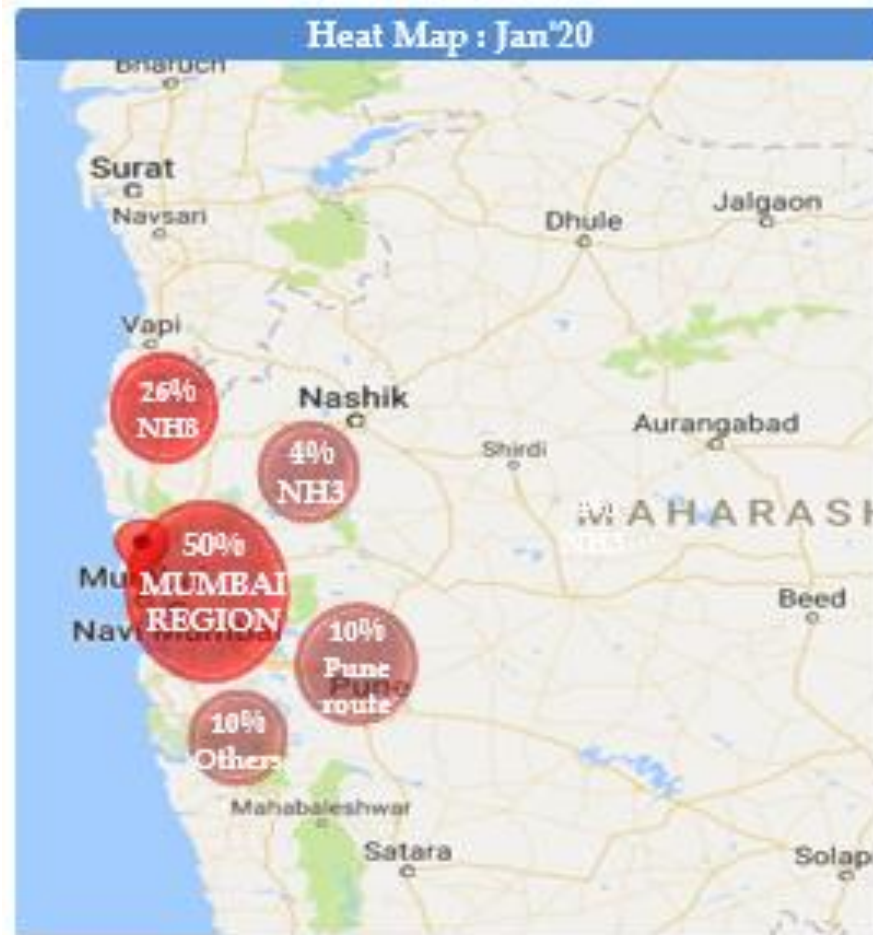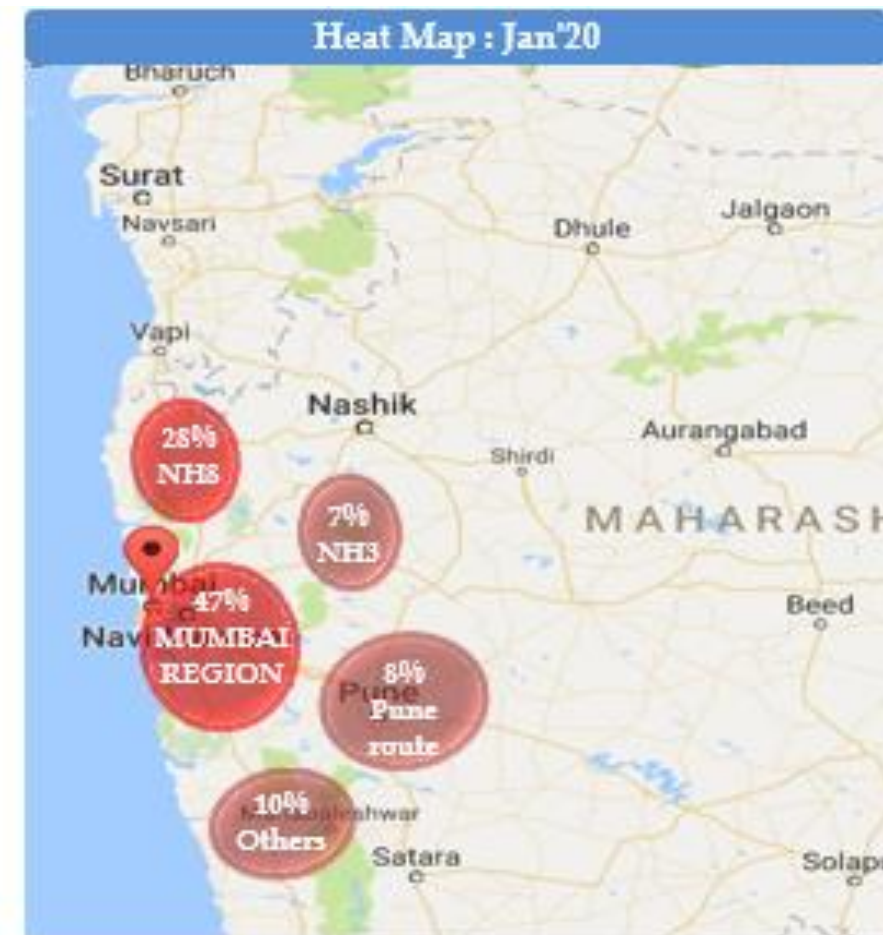| Region	Dec'19	Jan'20
Mumbai region	38%	50%
NH3	3%	4%
Pune	18%	10%
NH8	31%	26%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal

Region	Dec'19	Jan'20
Mumbai region	55%	47%
NH3	2%	7%
Pune	9%	8%
NH8	24%	28%
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 Jan'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	**JNPCT**	**GTI**	**NSICT**	**NSIGT**	**BMCT**
Gateway Distriparks CFS, Navi Mumbai	1.7	5.3	2.0	3.4	2.0
Punjab Conware CFS, Navi Mumbai	3.4	4.1	2.1	2.8	2.2
JWC Logistics Park CFS	4.7	6.0	2.9	5.2	3.7
CWC Hind Terminal CFS, Navi Mumbai	2.0	3.3	2.4	2.6	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	3.2	4.6	2.4	2.9	2.1
Navkar Corporation Yard 2 CFS, Panvel	8.1	7.8	6.1	6.5	5.8
Vaishno Logistics CFS, Navi Mumbai	3.5	4.8	2.5	3.0	2.3
Speedy Multimode CFS, JNPT	2.4	3.9	1.9	2.6	2.2
Balmer & Lawrie CFS, Navi Mumbai	3.1	2.8	1.5	3.7	2.4
Navkar Corporation Yard 3 CFS, Panvel	5.2	8.6	4.8	6.3	5.7
Ashte Logistics CFS, Panvel	3.1	6.0	3.0	4.2	6.0
Continental Warehousing CFS, Navi Mumbai	1.5	3.4	2.3	3.1	2.0
SBW Logistics CFS, Navi Mumbai	10.6	7.7	13.0	7.9	5.2
Maharashtra State Corp CFS	1.5	3.5	2.2	2.3	2.1
Internation Cargo Terminal CFS	2.3	5.3	2.8	4.2	3.1
Seabird CFS, Navi Mumbai	2.1	4.1	2.1	3.0	3.8
Apollo Logisolutions CFS, Panvel	3.6	4.6	3.2	3.8	4.2
Ameya Logistics CFS, Navi Mumbai	2.4	5.0	3.1	3.8	3.5
Transindia Logistics Park, Navi Mumbai	2.3	4.1	3.0	2.9	2.1
Ocean Gate CFS, Panvel	2.8	5.0	2.5	3.4	4.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.6	4.5	2.9	2.9	3.4
Indev Logistics CFS, Panvel	4.2	6.1	3.6	7.2	5.8
APM (Maersk India) CFS, Navi Mumbai	1.5	3.0	2.2	2.3	2.9

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	**Jan'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	2.0
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	4.6
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	3.1
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	2.1
Dronogiri Rail Terminal CFS, Navi Mumbai	2.0
Navkar Corporation Yard 1 CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	2.0
Apollo Logisolutions CFS, Panvel	3.8
Navkar Corporation Yard 2 CFS, Panvel	3.5
Punjab Conware CFS, Navi Mumbai	2.1
Vaishno Logistics CFS, Navi Mumbai	1.9
JWC Logistics Park CFS	2.9
SBW Logistics CFS, Navi Mumbai	3.5
Ocean Gate CFS, Panvel	2.9
Maharashtra State Corp CFS	2.7

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	**Jan'20 (in hrs)**
Gateway Distriparks CFS, Navi Mumbai	2.1
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	2.3
Ameya Logistics CFS, Navi Mumbai	1.7
Transindia Logistics Park, Navi Mumbai	2.4
Indev Logistics CFS, Panvel	5.1
Navkar Corporation Yard 3 CFS, Panvel	3.0
Seabird CFS, Navi Mumbai	2.4
Balmer & Lawrie CFS, Navi Mumbai	1.8
Ashte Logistics CFS, Panvel	2.5
Continental Warehousing CFS, Navi Mumbai	1.3
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	1.5
Navkar Corporation Yard 1 CFS, Panvel	3.9
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.8
Maersk Annex (APM)CFS, Navi Mumbai	2.0
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	3.3
Navkar Corporation Yard 2 CFS, Panvel	3.2
Punjab Conware CFS, Navi Mumbai	1.9
Vaishno Logistics CFS, Navi Mumbai	1.5
JWC Logistics Park CFS	2.4
SBW Logistics CFS, Navi Mumbai	4.0
Ocean Gate CFS, Panvel	2.3
Maharashtra State Corp CFS	1.6

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	Jan'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.9
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	2.3
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.3
Indev Logistics CFS, Panvel	5.6
Navkar Corporation Yard 3 CFS, Panvel	3.3
Seabird CFS, Navi Mumbai	2.8
Balmer & Lawrie CFS, Navi Mumbai	1.6
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.3
CWC Hind Terminal CFS, Navi Mumbai	1.6
Dronogiri Rail Terminal CFS, Navi Mumbai	1.4
Navkar Corporation Yard 1 CFS, Panvel	3.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	1.6
Apollo Logisolutions CFS, Panvel	10.3
Navkar Corporation Yard 2 CFS, Panvel	3.6
Punjab Conware CFS, Navi Mumbai	2.3
Vaishno Logistics CFS, Navi Mumbai	3.4
JWC Logistics Park CFS	2.9
SBW Logistics CFS, Navi Mumbai	13.4
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	25.0

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	Jan'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	2.3
Ameya Logistics CFS, Navi Mumbai	1.7
Transindia Logistics Park, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	4.8
Navkar Corporation Yard 3 CFS, Panvel	3.0
Seabird CFS, Navi Mumbai	2.2
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	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	2.0
Navkar Corporation Yard 1 CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	8.0
Navkar Corporation Yard 2 CFS, Panvel	3.9
Punjab Conware CFS, Navi Mumbai	2.1
Vaishno Logistics CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	2.5
SBW Logistics CFS, Navi Mumbai	3.8
Ocean Gate CFS, Panvel	2.7
Maharashtra State Corp CFS	8.1

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

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

AVERAGE DELIVERY TIME (In Hrs)- BMCT TO ALL CFS IN MUMBAI	
CFS	Jan'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	1.6
Internation Cargo Terminal CFS	2.3
Ameya Logistics CFS, Navi Mumbai	1.7
Transindia Logistics Park, Navi Mumbai	2.3
Indev Logistics CFS, Panvel	4.3
Navkar Corporation Yard 3 CFS, Panvel	2.8
Seabird CFS, Navi Mumbai	2.1
Balmer & Lawrie CFS, Navi Mumbai	1.6
Ashte Logistics CFS, Panvel	2.5
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	2.0
Navkar Corporation Yard 1 CFS, Panvel	4.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	2.4
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	3.2
Navkar Corporation Yard 2 CFS, Panvel	3.7
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	2.3
JWC Logistics Park CFS	1.9
SBW Logistics CFS, Navi Mumbai	5.1
Ocean Gate CFS, Panvel	3.3
Maharashtra State Corp CFS	1.5

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 Jan'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.0	3.9
Cluster 2	6	13	2.2	3.9
Cluster 3	6	11	2.1	4.1
Cluster 4	1	13	1.9	4.8
Cluster 5	2	25	2.9	5.5
Cluster 6	6	25	3.8	6.1
Cluster 7	4	12	2.0	4.1
Cluster 8	1	34	3.5	7.7

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Jan'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	2.4
Cluster 2	6	13	1.9	2.1
Cluster 3	6	11	1.7	2.6
Cluster 4	1	13	1.5	3.5
Cluster 5	2	25	2.3	3.8
Cluster 6	6	25	3.2	4.2
Cluster 7	4	12	1.7	2.3
Cluster 8	1	34	4.0	10.6

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

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 Jan'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.6	1.9
Cluster 2	6	13	2.0	2.3
Cluster 3	6	11	2.6	2.1
Cluster 4	1	13	3.4	0.0
Cluster 5	2	25	3.0	2.7
Cluster 6	6	25	3.6	3.6
Cluster 7	4	12	2.1	3.0
Cluster 8	1	34	13.4	13.0

CFS Cluster : NSIGT Terminal

JNPCT terminal for month of Jan'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	2.6
Cluster 2	6	13	1.9	3.2
Cluster 3	6	11	2.0	2.9
Cluster 4	1	13	2.1	3.0
Cluster 5	2	25	2.6	4.3
Cluster 6	6	25	3.9	6.3
Cluster 7	4	12	1.7	3.1
Cluster 8	1	34	3.8	7.9

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Jan'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	2.2
Cluster 2	6	13	1.9	2.7
Cluster 3	6	11	2.0	2.2
Cluster 4	1	13	2.3	2.3
Cluster 5	2	25	2.6	3.9
Cluster 6	6	25	3.5	5.8
Cluster 7	4	12	1.7	2.1
Cluster 8	1	34	5.1	5.2

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

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)
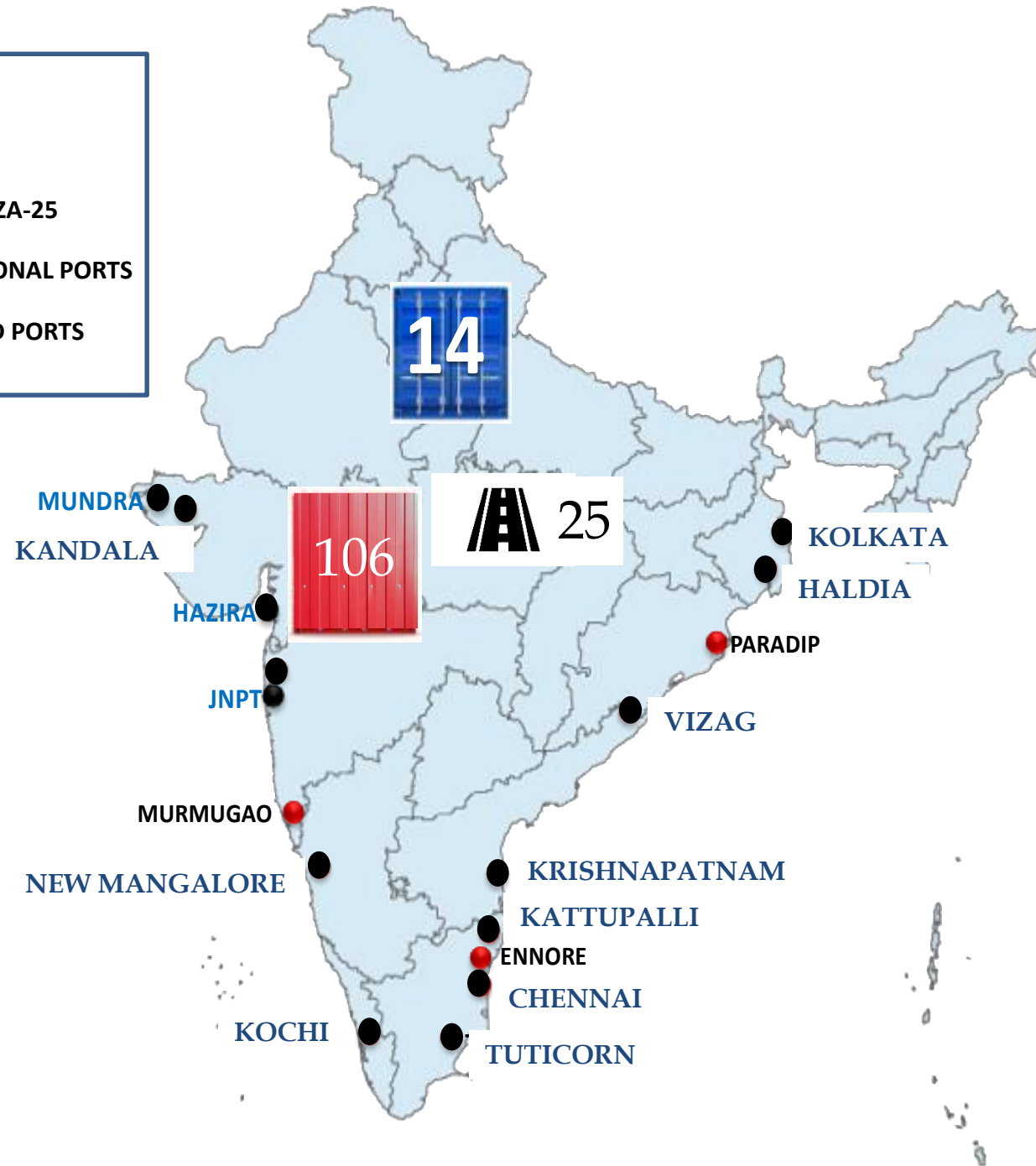
Below mentioned are all the CFS in the respective Clusters :

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

DLDS
DMICDC LOGISTICS DATA SERVICES LTD
Logistics Redefined

List of CFS name used in CFS Performance Index

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

THANK YOU