Terminal wise Dwell Time Performance – Snapshot

Import Cycle				Export Cycle		
Port	Sep'21 (in hrs)	Oct'21 (in hrs)		Port	Sep'21 (in hrs)	Oct'21 (in hrs)
JNPCT	34.93	34.17		JNPCT	85.58	76.03
NSICT	19.53	19.93		NSICT	64.35	58.95
GTI	20.60	18.47		GTI	80.95	77.67
NSIGT	22.53	20.88		NSIGT	94.23	84.20
BMCT/PSA	18.52	21.57		BMCT/PSA	73.15	60.43

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- Container handling performance for both Import and Export Cycle has improved as compared to last month.
- Container handling performance at CFS and ICD has deteriorated as compared to last month.

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time	ICD
Oct'21	21.3 hrs 3%	75.5 hrs 7%	87.7 hrs 10%	114.4 hrs 0.3%
Sep'21	22.0 hrs	80.8 hrs	79.9 hrs	114.1 hrs

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	Sep'21 (in hrs)	Oct'21 (in hrs)
Overall	23.9	24.5
Truck	19.9	19.8
Train	50.2	60.0

EXPORT

Mode	Sep'21 (in hrs)	Oct'21 (in hrs)
Overall	97.3	92.5
Truck	92.4	88.3
Train	123.7	116.7

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

Entity	Sep'21 (in hrs)	Oct'21 (in hrs)
CFS	83.6	88.8
ICD	114.1	114.4

The marked entries showcase increase in performance in comparison to Sep'21

The marked entries showcase decrease in performance in comparison to Sep'21

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Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – Oct'21

Quadrant : II
Star performer

High
Container Volume

GTI

Quadrant : I
Slow Bulk Movers

MICT
NSIGT
AICT
NSICT
AMCT

Dwell Time

low

High

ACMTTL

JNPCT
AMCT-2
AHPL
KICT
BMCT

Quadrant : III
High Potential

low

Quadrant : IV
Laggard
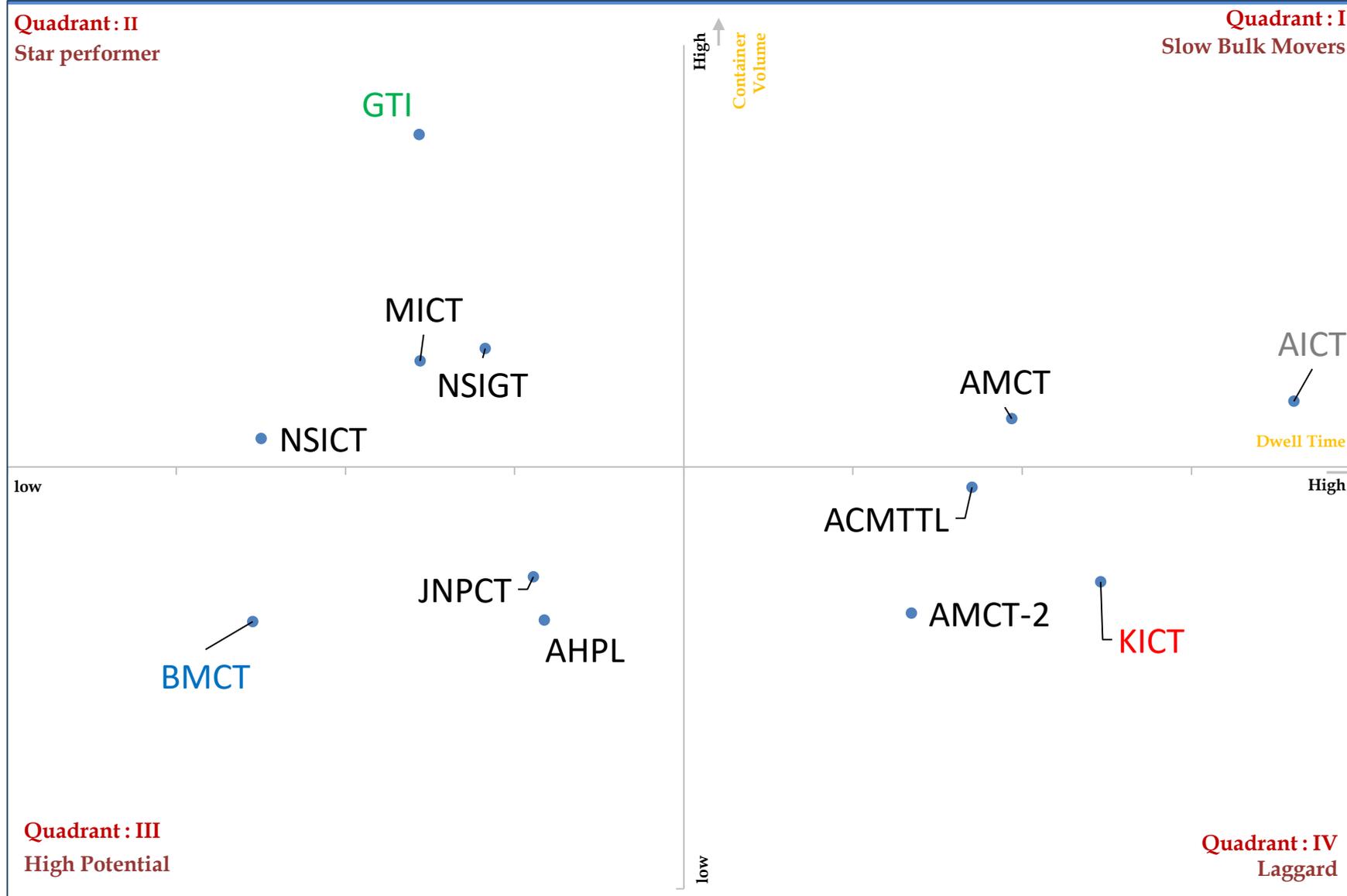
Performance benchmarking for Port Terminals covered under LDB project for Oct'21

Top Performing Terminal	
Gateway Terminals India (GTI)	
Sep'21	Oct'21
43.1 Hrs	43.2 Hrs.

Low Performing Terminal	
Kandla International Container Terminal (KICT)	
Sep'21	Oct'21
101.5 Hrs	94.1 Hrs

Note: The performance benchmarking is based on performance index

The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Sep'21

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
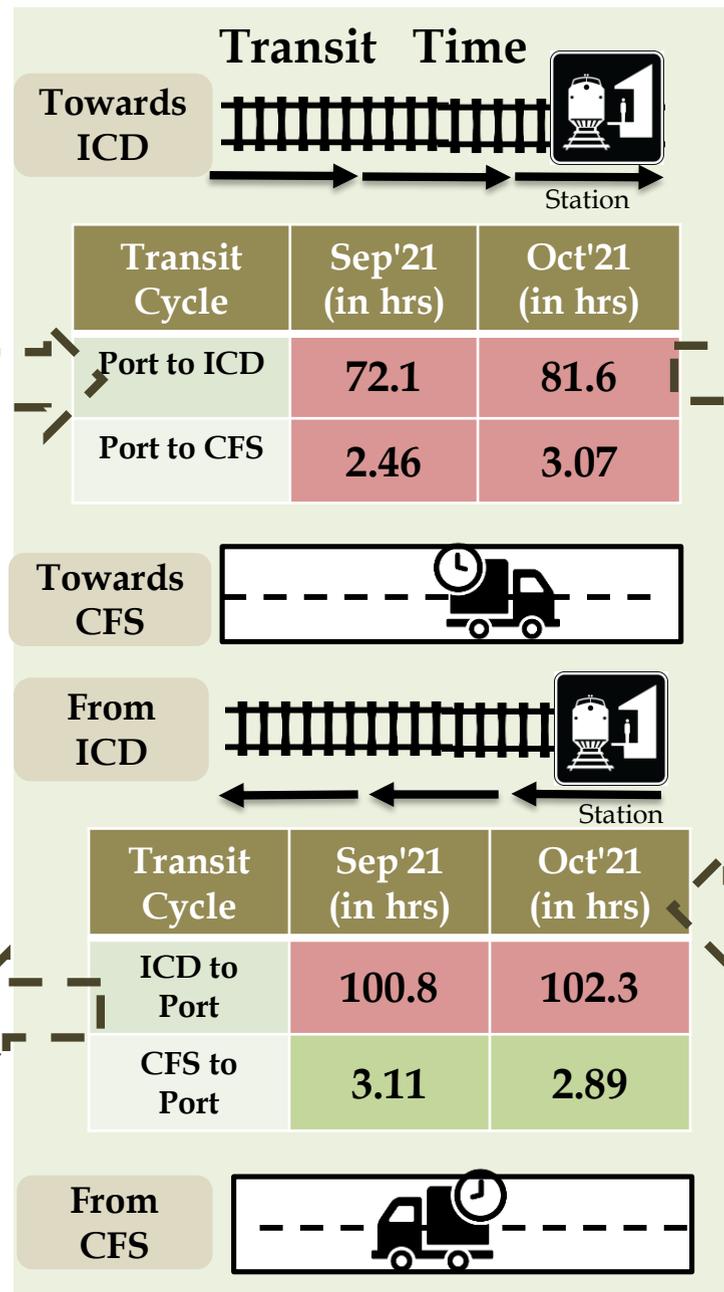
High Potential : consist of entities which have catered relatively lower container volume in lower dwell time

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	Sep'21 (in hrs)	Oct'21 (in hrs)
Overall	22.0	21.3
Truck	20.4	19.3
Train	32.0	37.4

Transit Time

Towards ICD — Station

Transit Cycle	Sep'21 (in hrs)	Oct'21 (in hrs)
Port to ICD	72.1	81.6
Port to CFS	2.46	3.07

Towards CFS

From ICD — Station

Transit Cycle	Sep'21 (in hrs)	Oct'21 (in hrs)
ICD to Port	100.8	102.3
CFS to Port	3.11	2.89

From CFS

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

ICD   CFS

Entity	Sep'21 (in hrs)	Oct'21 (in hrs)
CFS	79.9	87.7
ICD	114.1	114.4

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	83%	17%
Export	80%	20%

The marked entries showcase the increase in performance as compared to Sep'21

The marked entries showcase the decrease in performance as compared to Sep'21

EXPORT

Port Dwell Time

Mode	Sep'21 (in hrs)	Oct'21 (in hrs)
Overall	80.8	75.5
Truck	80.6	75.3
Train	82.5	77.0

← Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (Oct'21 – in hrs)			Compared to Sep'21	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	21.3	3%	⬆
	Port Dwell Time for Truck Bound Containers	19.3	5%	⬆
	Port Dwell time for Train Bound Containers	37.4	17%	⬇
	Port Dwell time Direct Port Delivery (DPD) containers	44.4	27%	⬇
	Port Dwell time Containers bound for CFS	18.6	9%	⬇
	Port Dwell for Empty Containers	26.9	15%	⬆
	Port Dwell for Laden Containers	20.1	1%	⬇
TRANSIT TIME	Port to ICD	81.6	13%	⬇
	Port to CFS	3.07	25%	⬇

EXPORT CYCLE DWELL TIME (Oct'21– in hrs)			Compared to Sep'21	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	75.5	7%	⬆
	Port Dwell Time for Truck Bound Containers	75.3	7%	⬆
	Port Dwell time for Train Bound Containers	77.0	7%	⬆
	Port Dwell time Direct Port Entry (DPE) containers	79.9	6%	⬆
	Port Dwell time Containers bound from CFS	74.8	7%	⬆
	Port Dwell for Empty Containers	67.6	6%	⬆
	Port Dwell for Laden Containers	77.9	6%	⬆
TRANSIT TIME	ICD to Port	102.3	1%	⬇
	CFS to Port	2.89	7%	⬆

⬆⬇ The arrows depict increase/decrease in performance of the stakeholders in comparison to Sep'21

# 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	Sep'21 (in hrs)	Oct'21 (in hrs)
Overall Parking Plaza	5.86	6.13

Container Handled: Day wise (Oct'21)

Parking Plaza	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPT Central Parking Plaza	49%	47%	4%
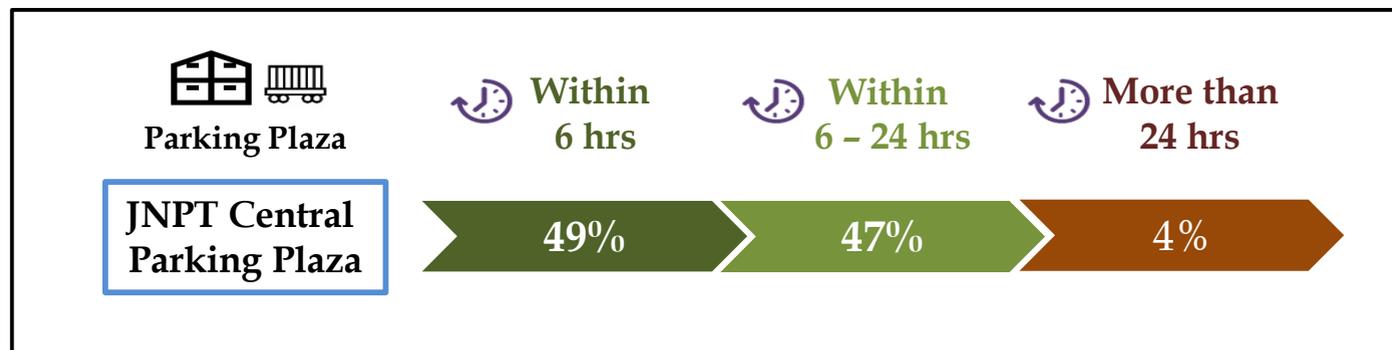
Parking Plaza Gate Out – Terminal In

Mode	Sep'21 (in hrs)	Oct'21 (in hrs)
Overall Parking Plaza to JNPT Port	1.51	1.20

Port	Sep'21 (in hrs)	Oct'21 (in hrs)
JNPCT	0.9	1.4
NSICT	1.1	0.9
GTI	1.9	1.1
NSIGT	1.3	1.3
BMCT	1.9	2.6

Container Handled: Day wise (Oct'21)

Port Terminals	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPCT	93%	6%	1%
NSICT	93%	6%	1%
GTI	93%	6%	1%
NSIGT	95%	4%	1%
BMCT	90%	9%	1%

CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

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

Top Performing CFS		
AllCargo Logistics		
Sep'21	Oct'21	⬇
62.3 hrs	77.8 hrs	

Top Performing ICD		
Navkar ICD, Tumb		
Sep'21	Oct'21	⬇
106.9 hrs	111.6 hrs	

Low Performing CFS		
A V Joshi CFS		
Sep'21	Oct'21	⬇
98.9 hrs	120.0 hrs	

Low Performing ICD		
Adani Logistics Park ICD, Gurgaon		
Sep'21	Oct'21	⬇
134.4 hrs	142.3 hrs	

Note: The performance benchmarking is based on performance index
⬆⬇ The arrows depict increase/decrease in overall performance of the stakeholders as compared to Sep'21

Performance Index: Western Corridor CFS

Quadrant : II — Star performer
Quadrant : I — Slow Bulk Movers
Quadrant : III — High Potential
Quadrant : IV — Laggard

AllCargo Logistics
Ameya Logistics CFS, Navi Mumbai
Mundhra CFS, Mundra
A V Joshi CFS

High — Container Volume — Dwell Time — High — low
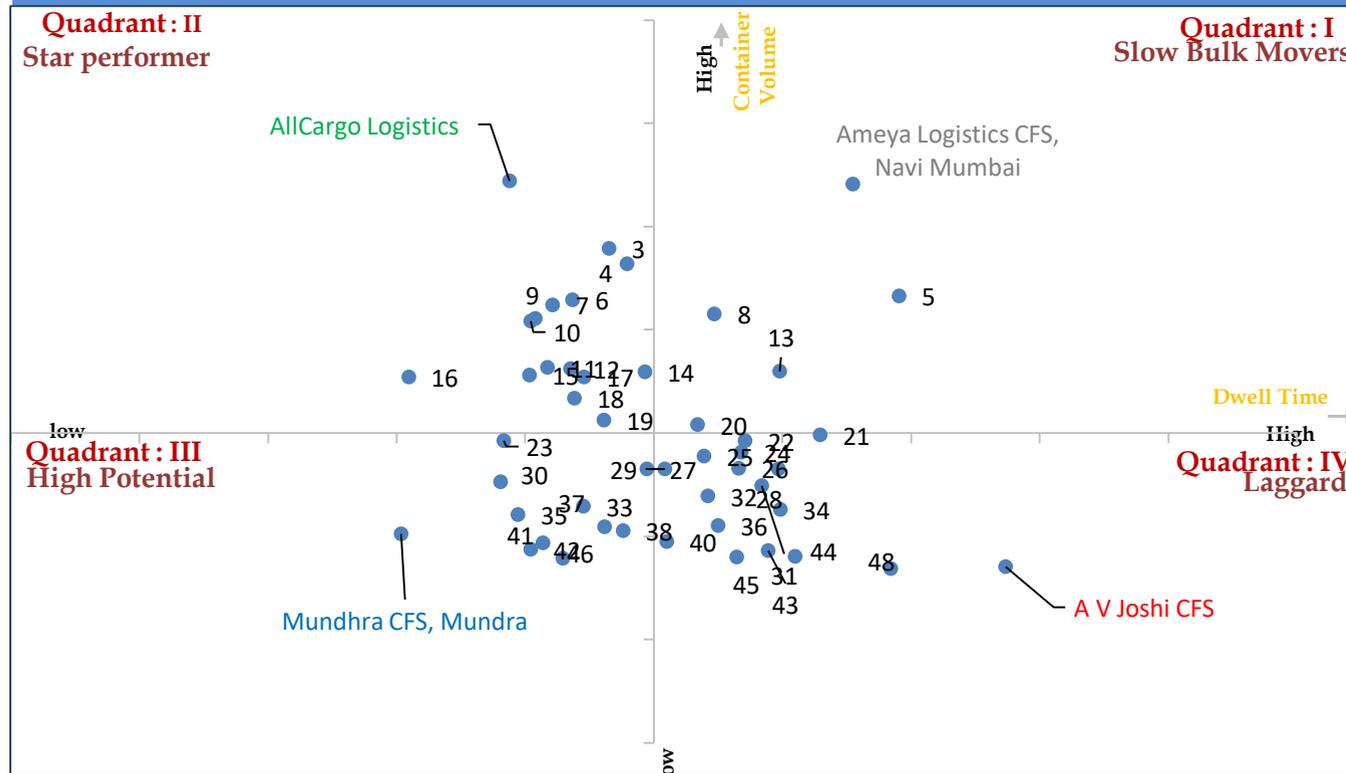
Kindly refer to Annexure section for the names of CFS

Performance Index: ICD

Quadrant : II — Star performer
Quadrant : I — Slow Bulk Movers
Quadrant : III — High Potential
Quadrant : IV — Laggard

Navkar ICD, Tumb
Gateway Rail Freight ICD, Gurgaon
ACTL ICD, Faridabad
Hind Terminals Logistics Park ICD, Palwal
CMA CGM Logistics Park, Dadri
Gateway Rail Freight ICD, Pyala
Allcargo Logistics Park ICD, Dadri
Albatross Inland Ports ICD, Dadri
APM Terminals ICD, Dadri
Adani Logistics Park ICD, Gurgaon
Pristine ICD Chawapail

High — Container Volume — Dwell Time — High — low

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
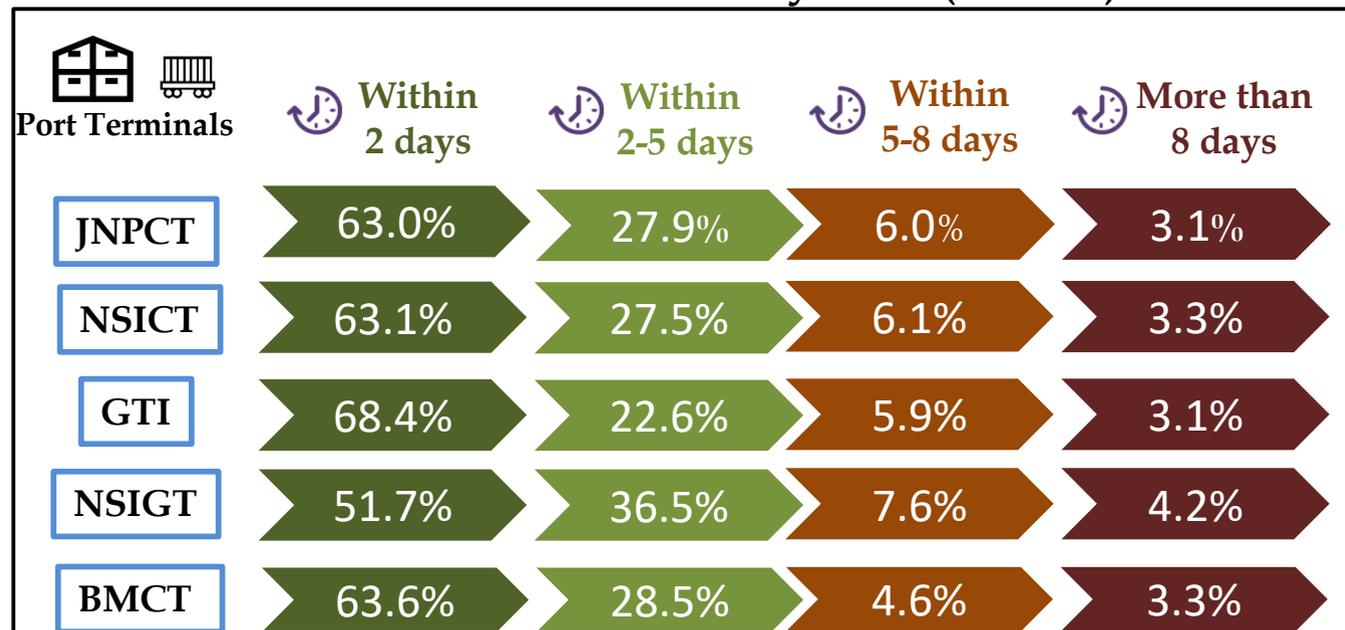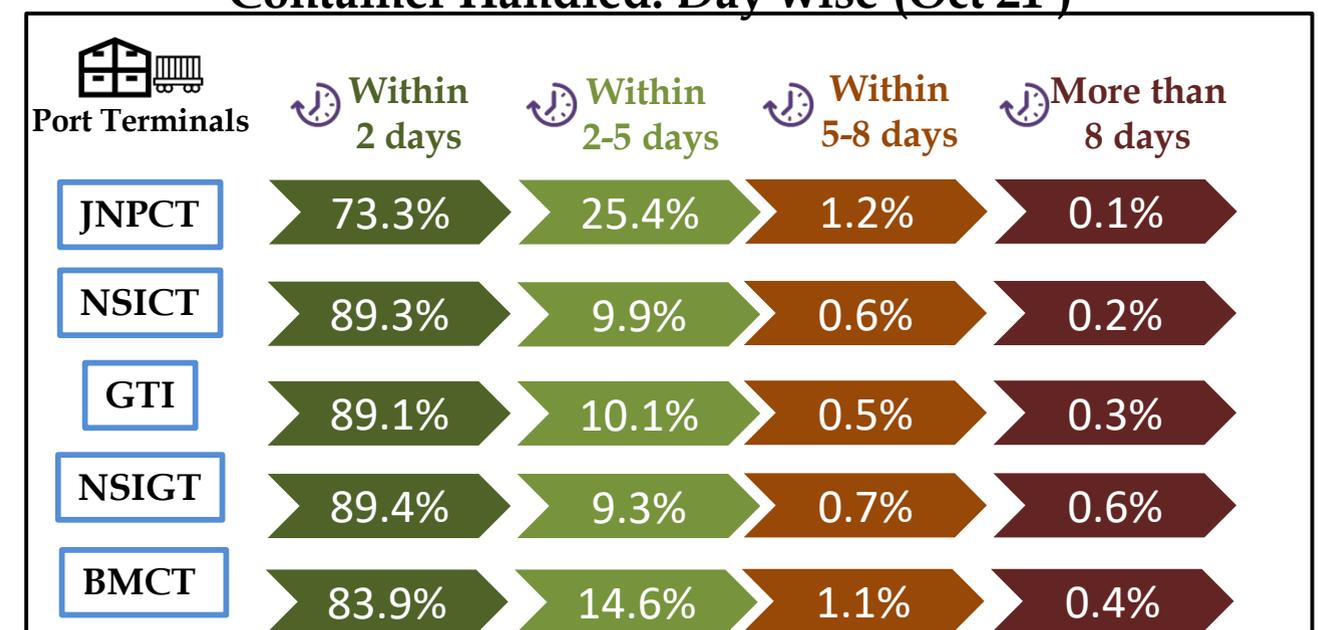
PORT IMPORT via TRAIN
(17% of total import volume at JNPT Port)

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	Sep'21 (in hrs)	Oct'21 (in hrs)
JNPCT	35.0	33.7
NSICT	31.6	39.0
GTI	30.9	33.3
NSIGT	42.0	46.7
BMCT	25.7	33.9

Container Handled: Day wise (Oct'21)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	63.0%	27.9%	6.0%	3.1%
NSICT	63.1%	27.5%	6.1%	3.3%
GTI	68.4%	22.6%	5.9%	3.1%
NSIGT	51.7%	36.5%	7.6%	4.2%
BMCT	63.6%	28.5%	4.6%	3.3%

PORT IMPORT via TRUCK
(83% 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	Sep'21 (in hrs)	Oct'21 (in hrs)
JNPCT	34.9	34.2
NSICT	18.4	17.8
GTI	18.8	16.5
NSIGT	19.9	17.9
BMCT	16.9	20.4

Container Handled: Day wise (Oct'21)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	73.3%	25.4%	1.2%	0.1%
NSICT	89.3%	9.9%	0.6%	0.2%
GTI	89.1%	10.1%	0.5%	0.3%
NSIGT	89.4%	9.3%	0.7%	0.6%
BMCT	83.9%	14.6%	1.1%	0.4%

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the detailed JNPT region port performance in the month of Oct'21

JNPCT

Port Dwell time based on transit type

Oct'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	41.2 hrs	35.0 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	34.9 hrs	31.3 hrs

GTI

Port Dwell time based on transit type

Oct'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	38.9 hrs	15.8 hrs

Port Dwell time based on transit type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	17.4 hrs	32.9 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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The below tables depict the detailed JNPT region port performance in the month of Oct'21

NSICT

Port Dwell time based on transit type

Oct'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	67.4 hrs	16.7 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	18.1 hrs	26.6 hrs

NSIGT

Port Dwell time based on transit type

Oct'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	62.8 hrs	16.5 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	19.6 hrs	23.2 hrs

BMCT

Port Dwell time based on transit type

Oct'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	34.2 hrs	20.1 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	20.6 hrs	26.8 hrs

JNPT Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPT region in Import Cycle in month of Oct'21
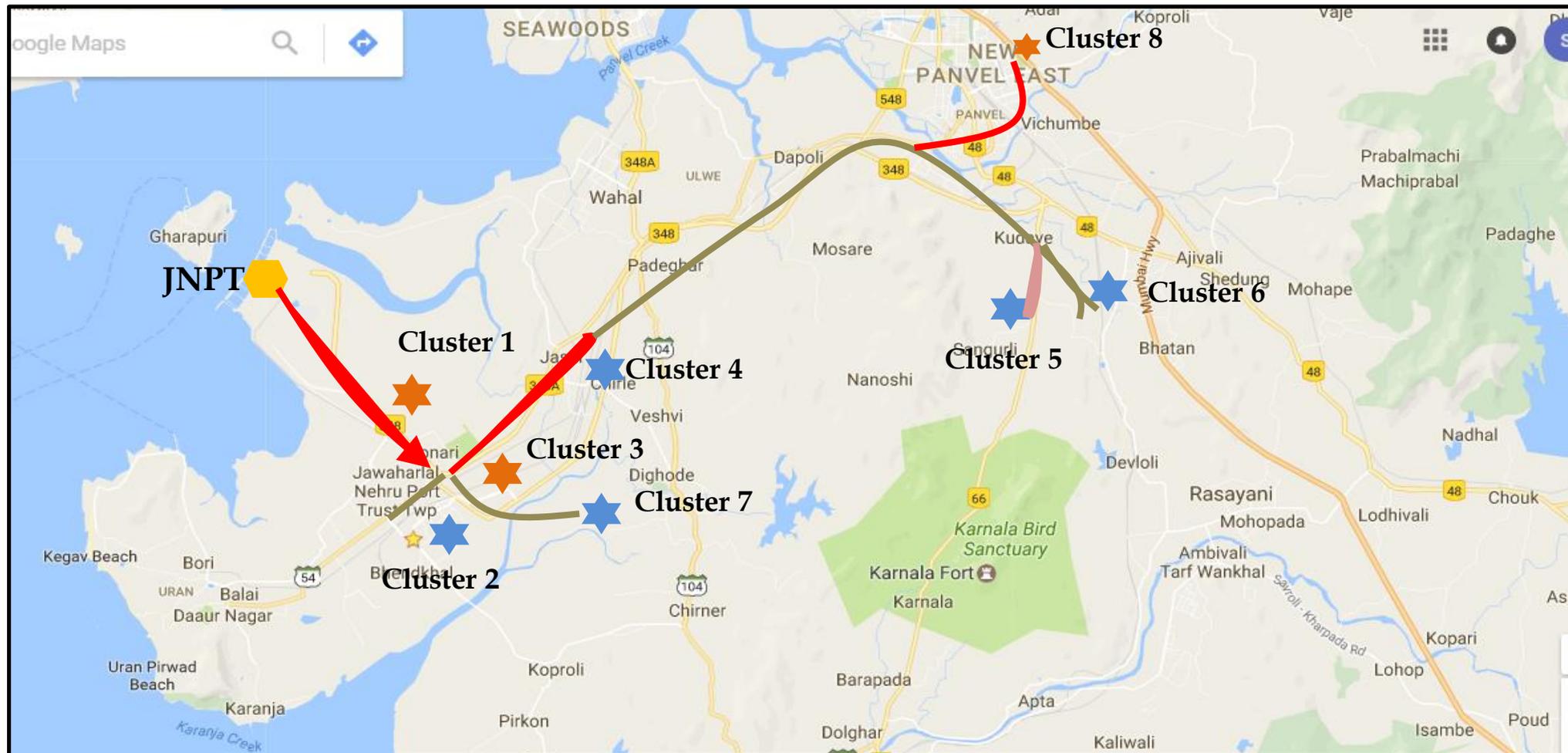
Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 3	Sonari area, JNPT road
CLUSTER 8	Taloja, Navi Mumbai

Clusters without bottleneck

CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 4	Chirle area, JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road

Legends
- High Congestion
- Medium Congestion
- Low Congestion
- Cluster with bottleneck
- Cluster without bottleneck

GTI Terminal
Congestion Level
Import Cycle :-

JNPCT Terminal
Congestion Level
Import Cycle :-

NSICT Terminal
Congestion Level
Import Cycle :-

NSIGT Terminal
Congestion Level
Import Cycle :-

BMCT Terminal
Congestion Level
Import 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	Oct'21
Mumbai region	74%
NH3	1%
Pune	5%
NH8	10%
others	10%

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

Heat Map via Truck: Oct'21
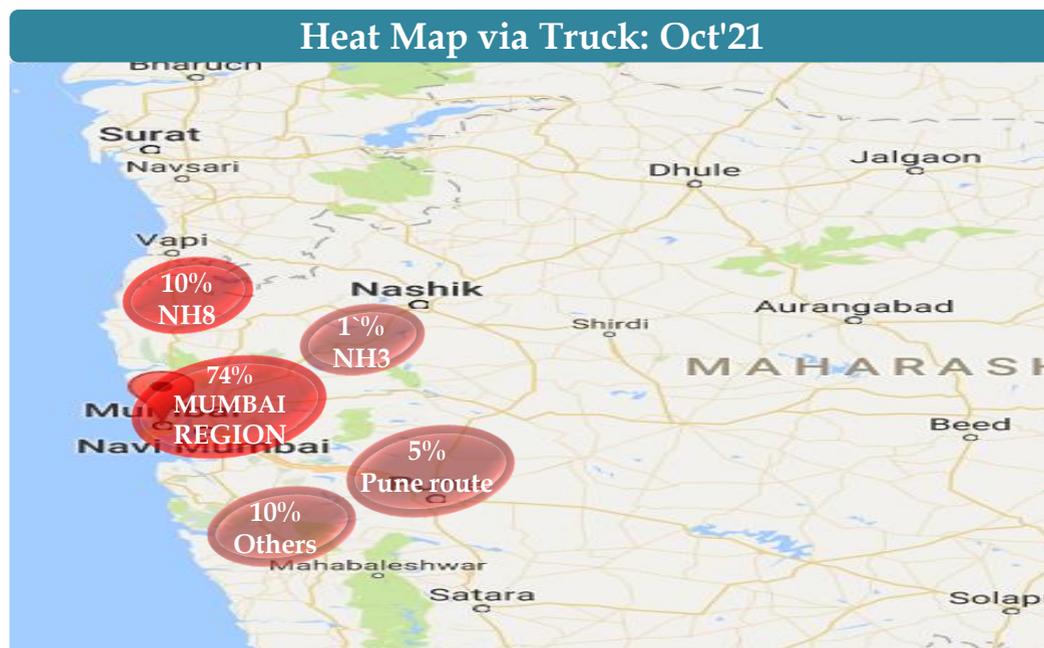
Train
VOLUME WISE CONTAINER MOVEMENT

Region	Oct'21
Vadodra Route	33%
Ratlam Route	23%
Wardha Route	20%
Kota Route	18%
Bhopal Route	6%

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

Container movement via Rail – Oct'21

Western Corridor Toll Plaza Analysis
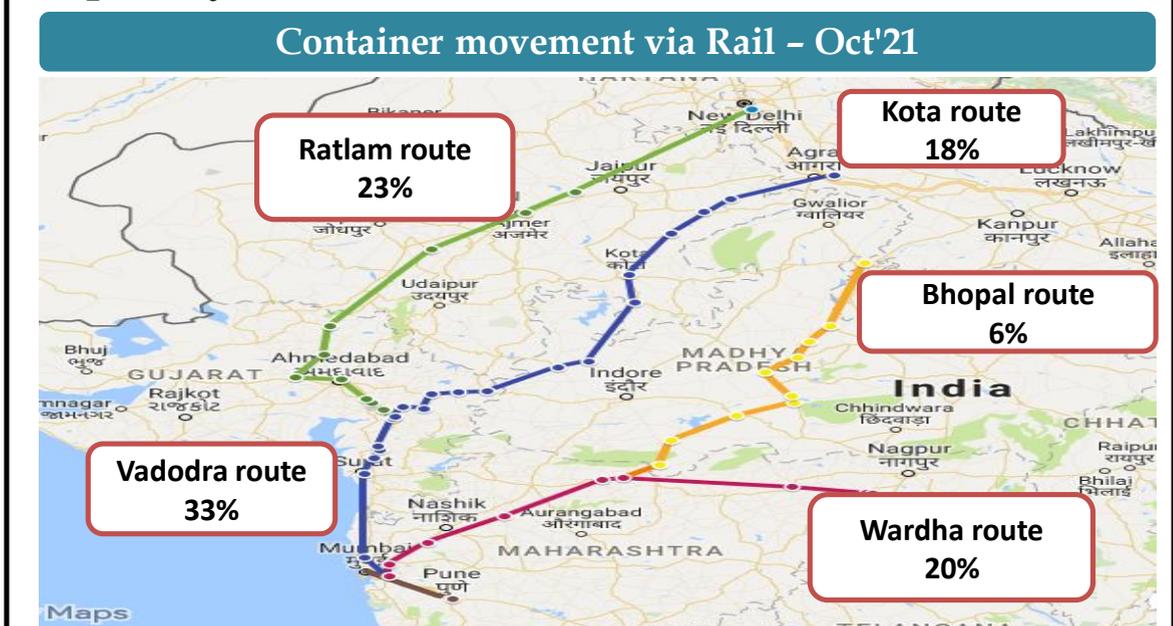
Avg. Speed between Toll to Toll Plazas

Source	Destination Toll Plaza	Inter Distance (Km)	Sep'21 (in km/hrs)	Oct'21 (in km/hrs)
JNPT	Khaniwade	94	12.2	12.5
Khaniwade	Charoti	50	35.8	34.5
Charoti	Boriach	126	28.2	28.1
Boriach	Bharthan	142	32.1	31.0
Bharthan	Vasad	60	38.7	37.3
Khalalpur	Khedshivpur	105	31.2	32.4
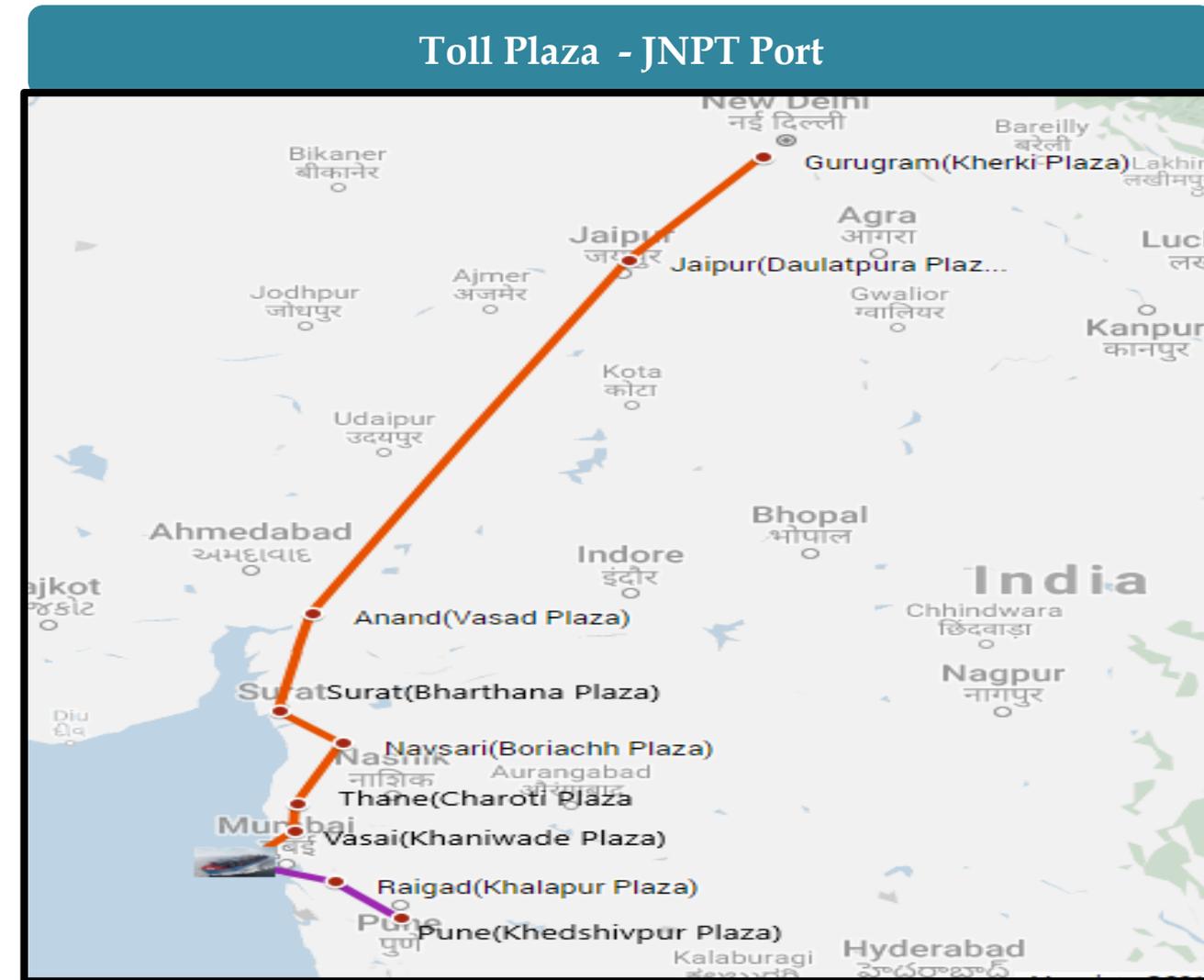
(The leftmost column for all rows is labeled "JNPT" as a row group.)

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
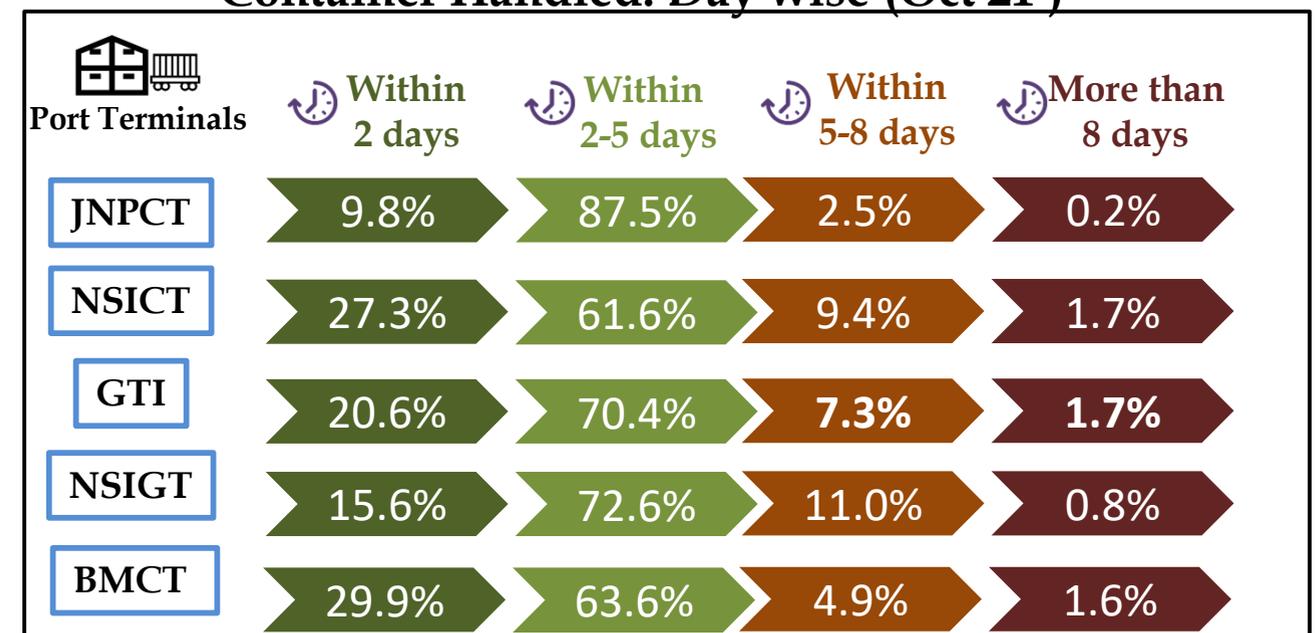
PORT EXPORT via TRAIN
(20% of total export volume at JNPT Port)

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

Port	Sep'21 (in hrs)	Oct'21 (in hrs)
NSICT	16.8	11.7
GTI	114.8	107.7
NSIGT	114.1	114.4
BMCT	61.8	41.2

Due to low volume count JNPCT rai bound container analysis has been removed.

Container Handled: Day wise (Oct'21)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
NSICT	70.7%	16.3%	10.5%	2.5%
GTI	12.3	43.3%	**28.4%**	**16.0%**
NSIGT	8.3%	44.3%	36.4%	11.0%
BMCT	55.3%	29.1%	9.2%	6.4%
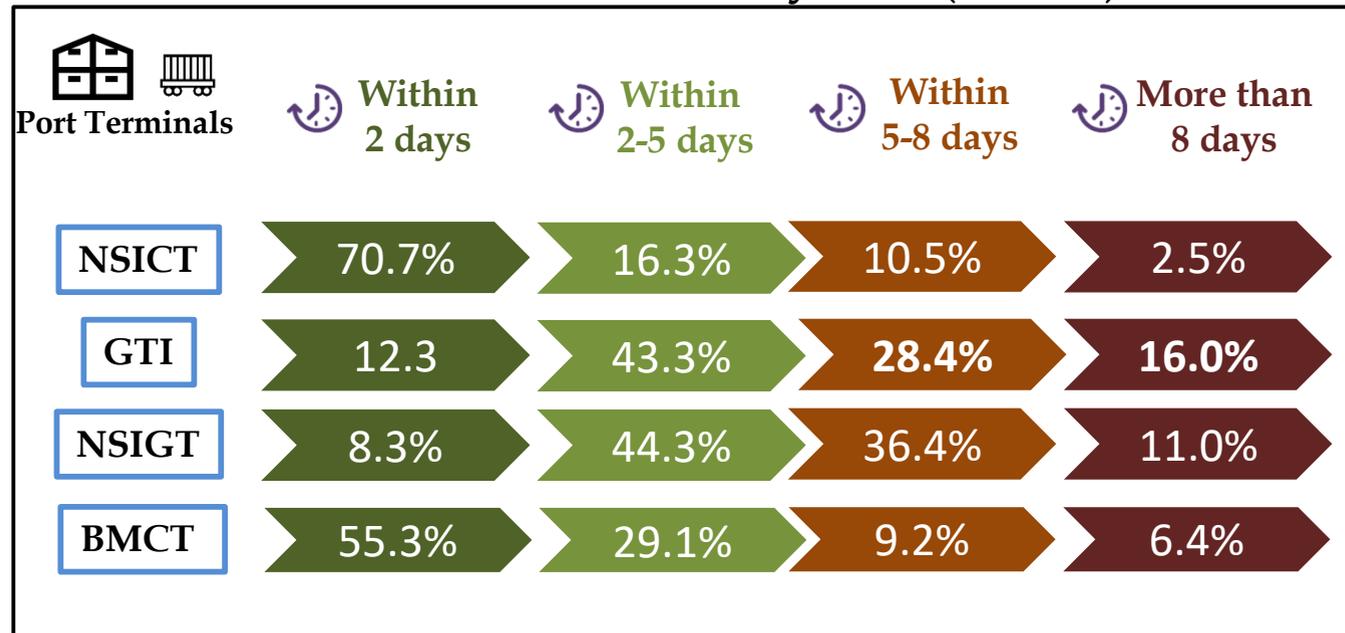
PORT EXPORT via TRUCK
(80% of total export volume at JNPT Port)

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

Port	Sep'21 (in hrs)	Oct'21 (in hrs)
JNPCT	85.6	75.7
NSICT	72.3	71.5
GTI	76.9	73.7
NSIGT	91.7	81.5
BMCT	75.2	65.7

Container Handled: Day wise (Oct'21)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	9.8%	87.5%	2.5%	0.2%
NSICT	27.3%	61.6%	9.4%	1.7%
GTI	20.6%	70.4%	**7.3%**	**1.7%**
NSIGT	15.6%	72.6%	11.0%	0.8%
BMCT	29.9%	63.6%	4.9%	1.6%

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 Oct'21

JNPCT

Port Dwell time based on transit type

Oct'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	80.2 hrs	77.6 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	78.6 hrs	74.3 hrs

GTI

Port Dwell time based on transit type

Oct'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	79.2 hrs	73.5 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	81.9 hrs	67.9 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 Oct'21

NSICT

Port Dwell time based on transit type

Oct'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.0 hrs	70.0 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	59.9 hrs	37.5 hrs

NSIGT

Port Dwell time based on transit type

Oct'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	86.4 hrs	79.6 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	85.4 hrs	44.5 hrs

BMCT

Port Dwell time based on transit type

Oct'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	59.2 hrs

Port Dwell time based on container type

Oct'21	Laden Containers	Empty Containers
Dwell time (in hrs)	60.6 hrs	58.9 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of Oct'21
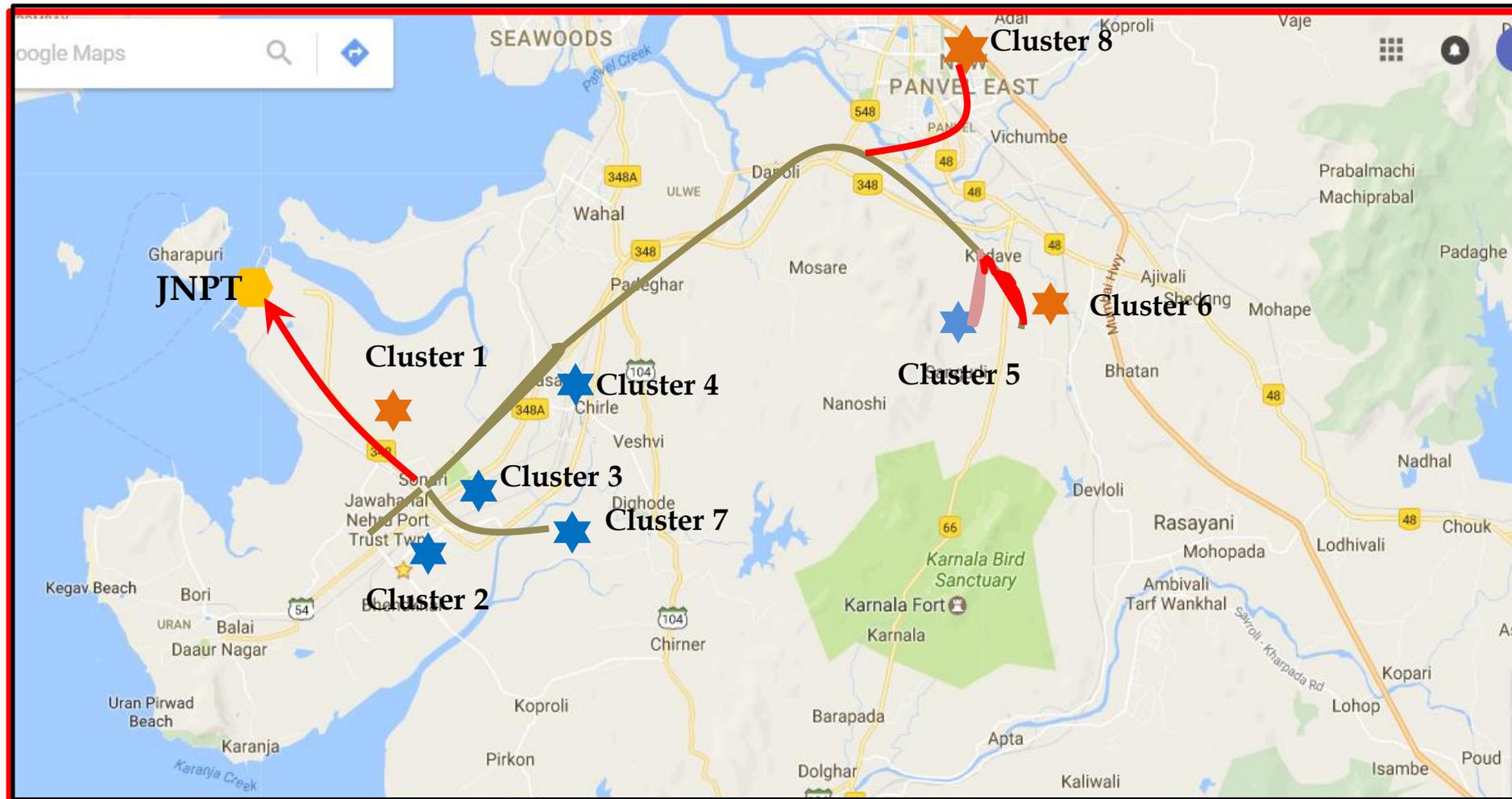
Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 8	Taloja, Navi Mumbai

Clusters without bottleneck

CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area, JNPT road
CLUSTER 4	Chirle area, JNPT road
CLUSTER 5	Plaspa area, Coach Kanyakumari Highway
CLUSTER 7	Patilpada area, Khopate JNPT road

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

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

GTI Terminal	JNPCT Terminal	NSICT Terminal	NSIGT Terminal	BMCT Terminal
Congestion Level Export Cycle :-	**Congestion Level** Export Cycle :-	**Congestion Level** Export Cycle :-	**Congestion Level** Export Cycle :-	**Congestion Level** Export Cycle :-

JNPT Port	
Route	**Percentage of Container Movement**
Vadodra Route	29%
Ratlam Route	21%
Wardha Route	21%
Kota Route	14%
Bhopal Route	15%

The map shows the volume wise container movement through different railway routes in export cycle for Oct'21

Container movement via Rail – Oct'21
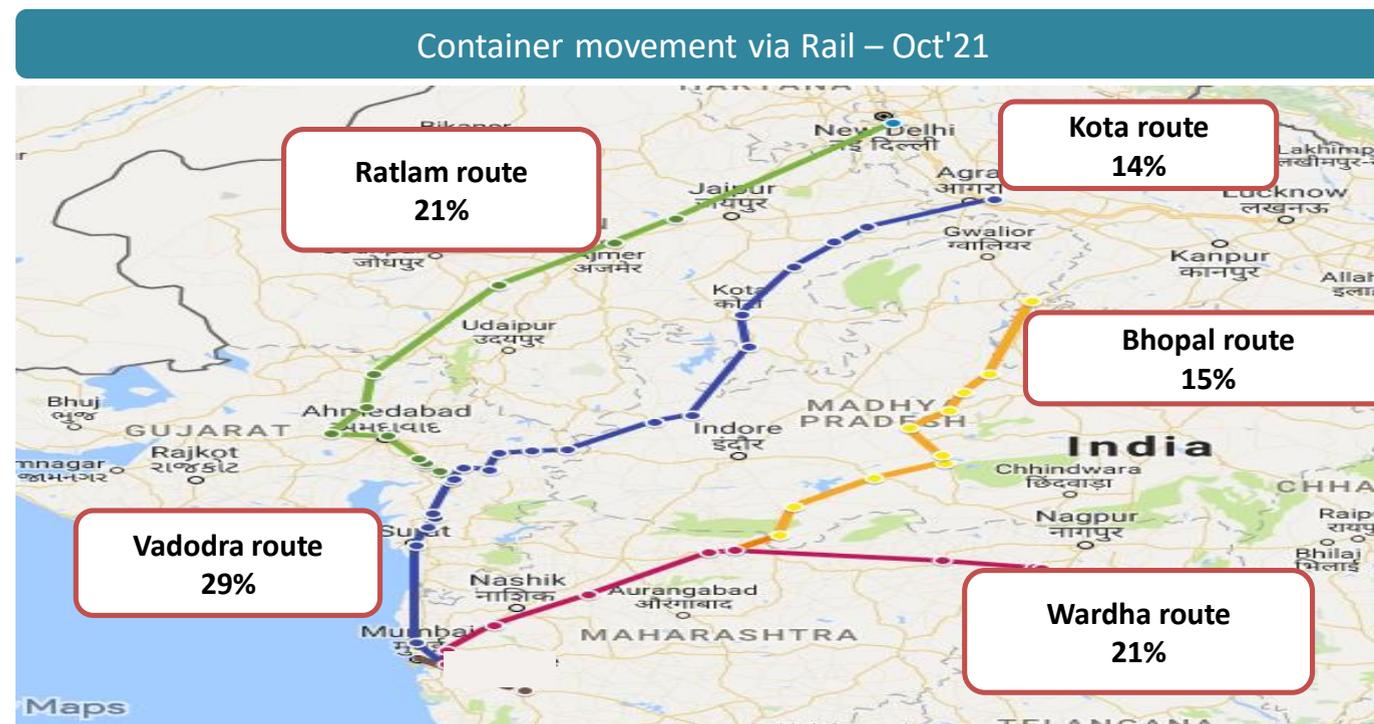
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

Below table and graphs show the dwell time of the respective CFSs for the month of Oct'21

CFS Dwell Time (in hrs.)

CFS	Sep'21 (in hrs)	Oct'21 (in hrs)	CFS	Sep'21 (in hrs)	Oct'21 (in hrs)
AllCargo Logistics	62.29	77.78	Sarveshwar CFS	88.74	94.33
Ameya Logistics CFS, Navi Mumbai	93.25	107.07	TG Terminals CFS	82.90	89.49
Gateway Distriparks CFS, Navi Mumbai	76.50	86.24	Vaishno Logistics CFS, Navi Mumbai	85.44	91.03
CWC Hind Terminal CFS, Navi Mumbai	92.38	110.97	Apollo Logisolutions CFS, Panvel	86.68	99.25
International Cargo Terminal CFS	74.60	83.12	Dronagiri Rail Terminal CFS, Navi Mumbai	80.17	84.08
Speedy Multimode CFS, JNPT	74.21	81.46	Navkar Corporation Yard 2 CFS, Panvel	93.19	100.85
JWR CFS	76.15	79.95	Ocean Gate CFS, Panvel	73.72	78.51
Continental Warehousing CFS, Navi Mumbai	64.38	79.59	Indev Logistics CFS, Panvel	87.02	85.90
Navkar Corporation Yard 3 CFS, Panvel	85.76	80.99	Balmer & Lawrie CFS, Navi Mumbai	81.26	87.45
JWC Logistics Park CFS	110.97	82.96	APM (Maersk India) CFS, Navi Mumbai	90.57	99.80
International Cargo Terminals (ULA) CFS, Navi Mumbai	80.74	89.31	Navkar Corporation Yard 1 CFS, Panvel	99.76	102.15
EFC Logistics India	73.24	79.48	Maersk Annex (APM)CFS, Navi Mumbai	95.83	97.15
Punjab Conware CFS, Navi Mumbai	79.13	84.13	Maharashtra State Corp CFS	70.91	82.32
Seabird CFS, Navi Mumbai	80.43	83.31	Take Care Logistics CFS	96.58	110.26
Ashte Logistics CFS, Panvel	93.29	104.26			

CFS – DWELL OVERVIEW – OCT'21 (IN HRS)
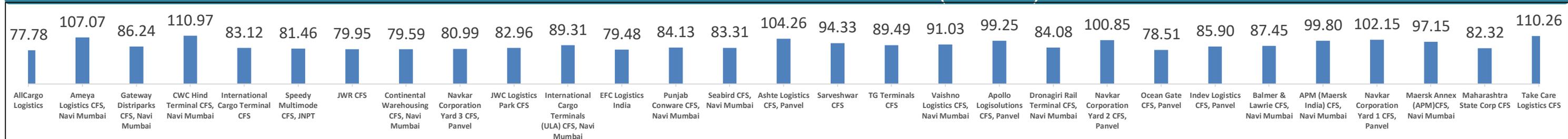
Average: 87.7 hrs.

ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Sep'21 (in hrs)	Oct'21 (in hrs)
ACTL ICD, Faridabad	116.0	123.8
Adani Logistics Park ICD, Gurgaon	134.4	142.3
Albatross Inland Ports ICD, Dadri	111.9	120.7
Allcargo Logistics Park ICD, Dadri	112.8	110.7
APM Terminals ICD, Dadri	130.4	135.1
CMA CGM Logistics Park, Dadri	97.9	92.6
Gateway Rail Freight ICD, Gurgaon	116.3	94.9
GatewayRail Freight ICD, Pyala	133.2	128.3
Hind Terminals Logistics Park ICD, Palwal	142.7	136.0
Navkar ICD, Tumb	106.9	111.6
Pristine ICD Chawapail	109.4	106.1

ICD – DWELL OVERVIEW (OCT'21)   (In Hrs)

Avg. 114.4 hrs.

Trend Analysis
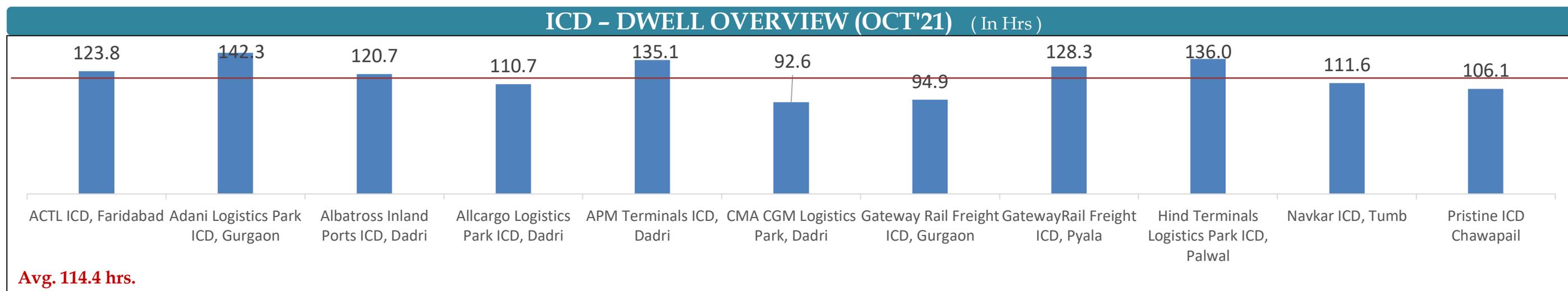
Western Corridor Port – Yearly Analysis

Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Oct'21

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region
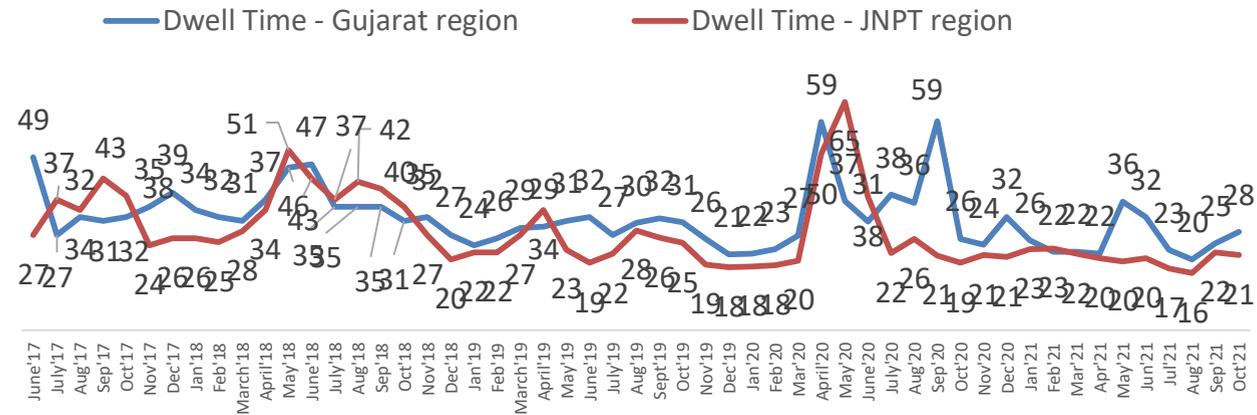
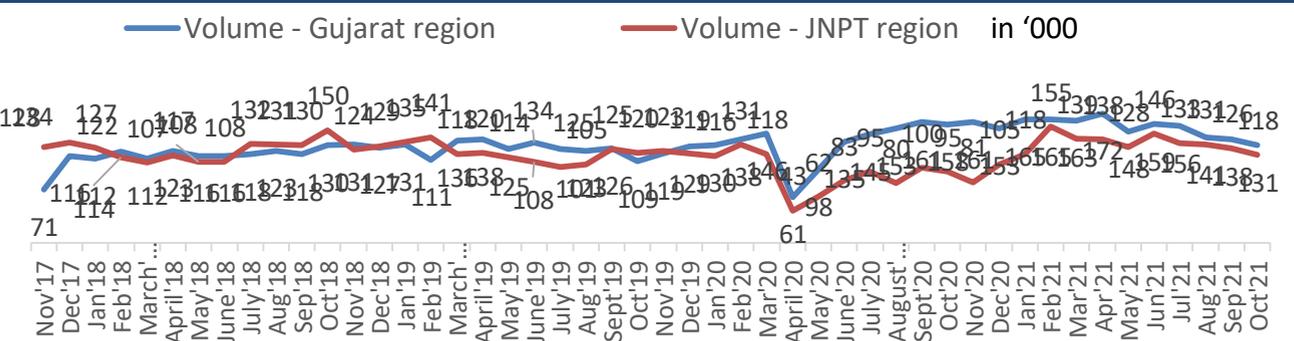### Volume – Gujarat Region Vs JNPT Region
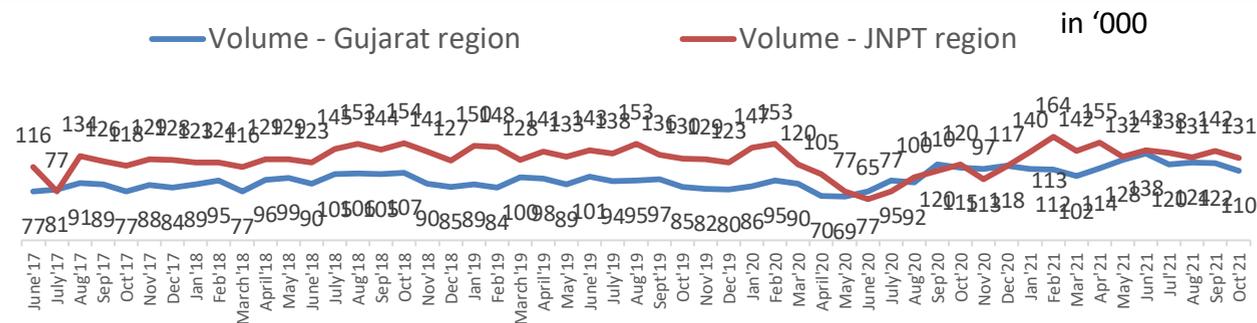
In Import cycle, for the month of Oct'21 APSEZ port has catered 18% **less volume** than JNPT Port, and has maintained 23% **higher dwell time** than JNPT Port.

Export Cycle

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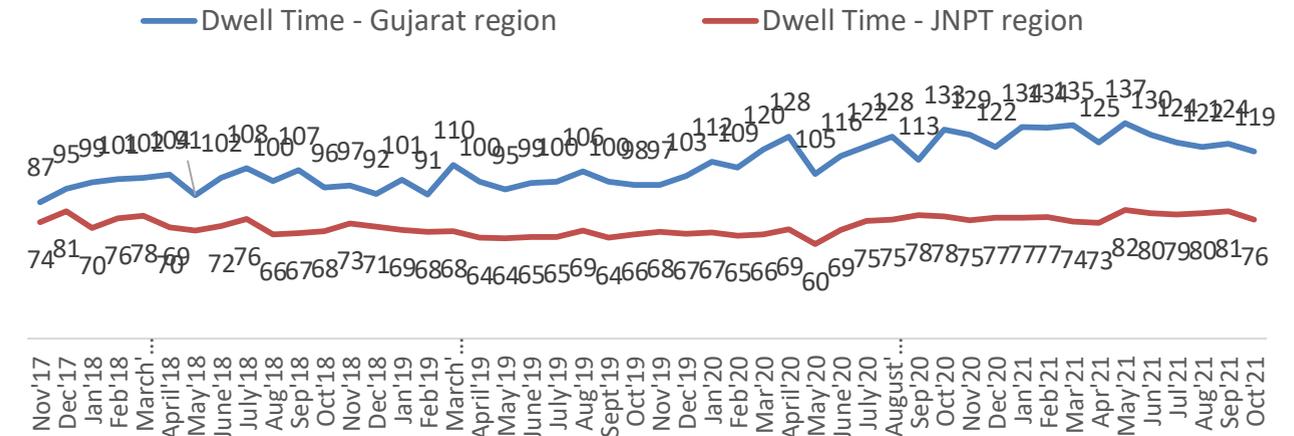
Volume – Gujarat Region Vs JNPT Region

In Export cycle, for the month Oct'21 JNPT port catered 10% **less volume** than APSEZ Port, and has maintained 37% **lower dwell time** than APSEZ Port

JNPT port dwell time trend :

The below table shows the overall port dwell time (i.e. import and export cycle combined) trend (Month of Month) of all the JNPT Port terminals. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal
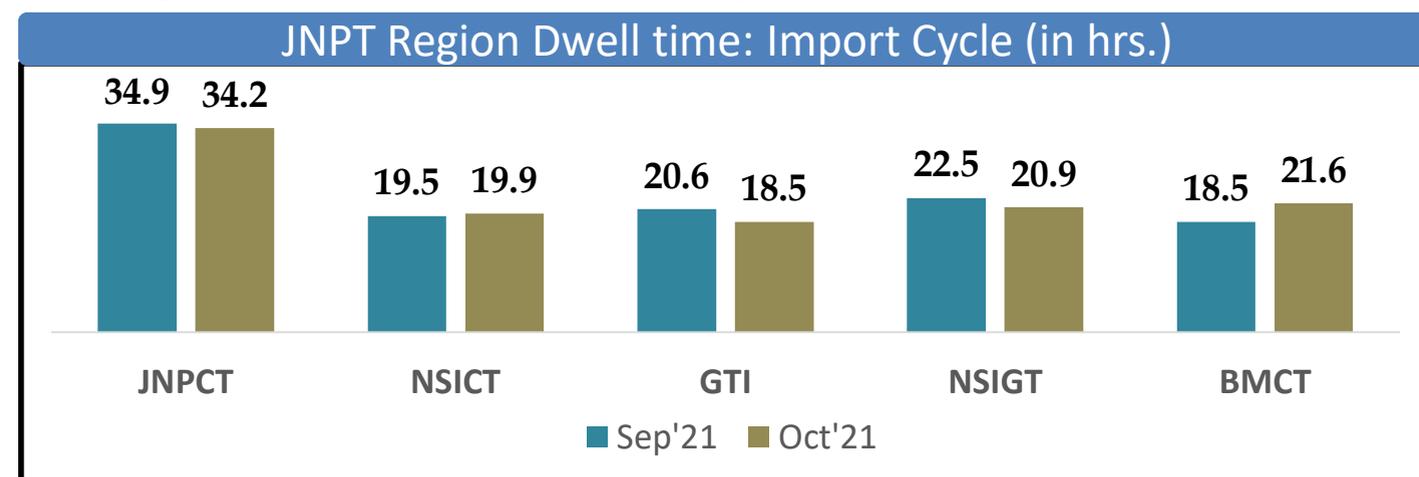
JNPT Region Dwell time: Overall (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
Sep'21	49.6	34.0	43.1	57.7	28.4
Oct'21	51.8	31.5	43.2	48.2	30.8
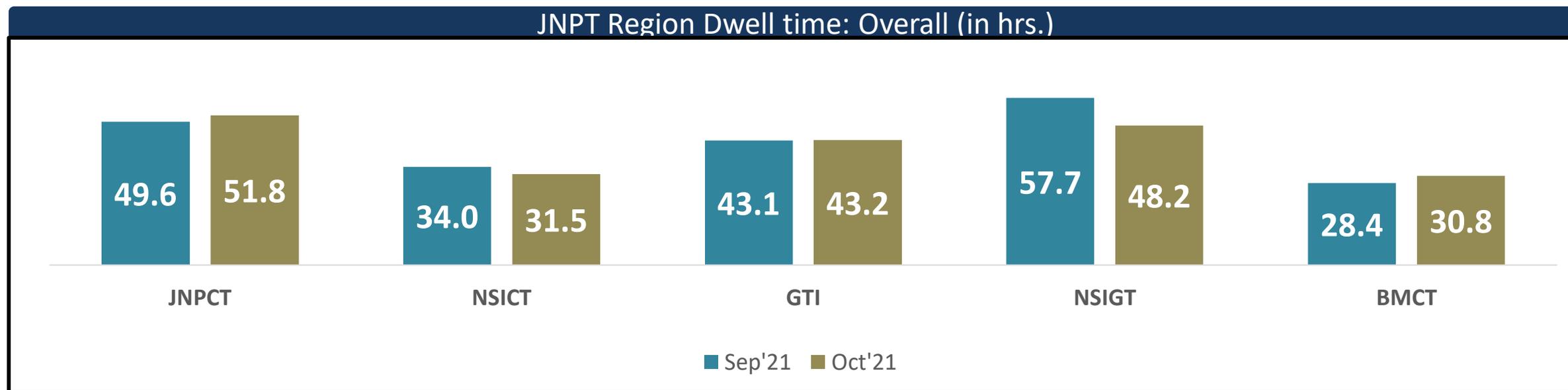
The overall JNPT region average dwell time for Oct'21 is **42.2 hrs** as compared to **43.0 hrs** in Sep'21

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of Oct'21
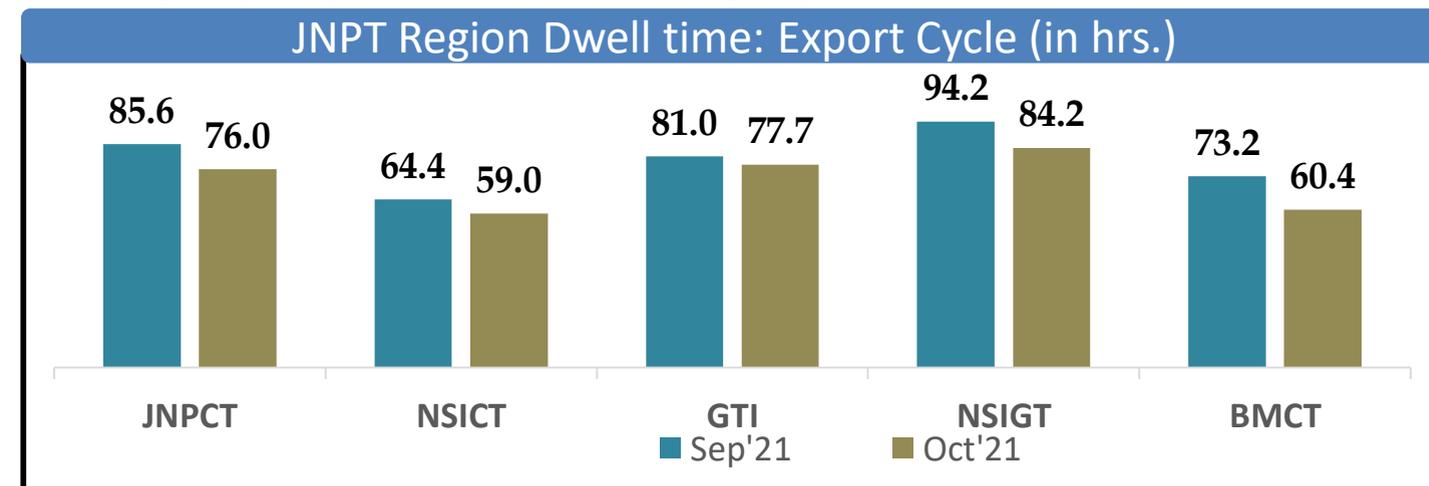
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Oct'21 is **23.1 hrs.**

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

	JNPCT	NSICT	GTI	NSIGT	BMCT
Sep'21	34.9	19.5	20.6	22.5	18.5
Oct'21	34.2	19.9	18.5	20.9	21.6

JNPT Export cycle Trend

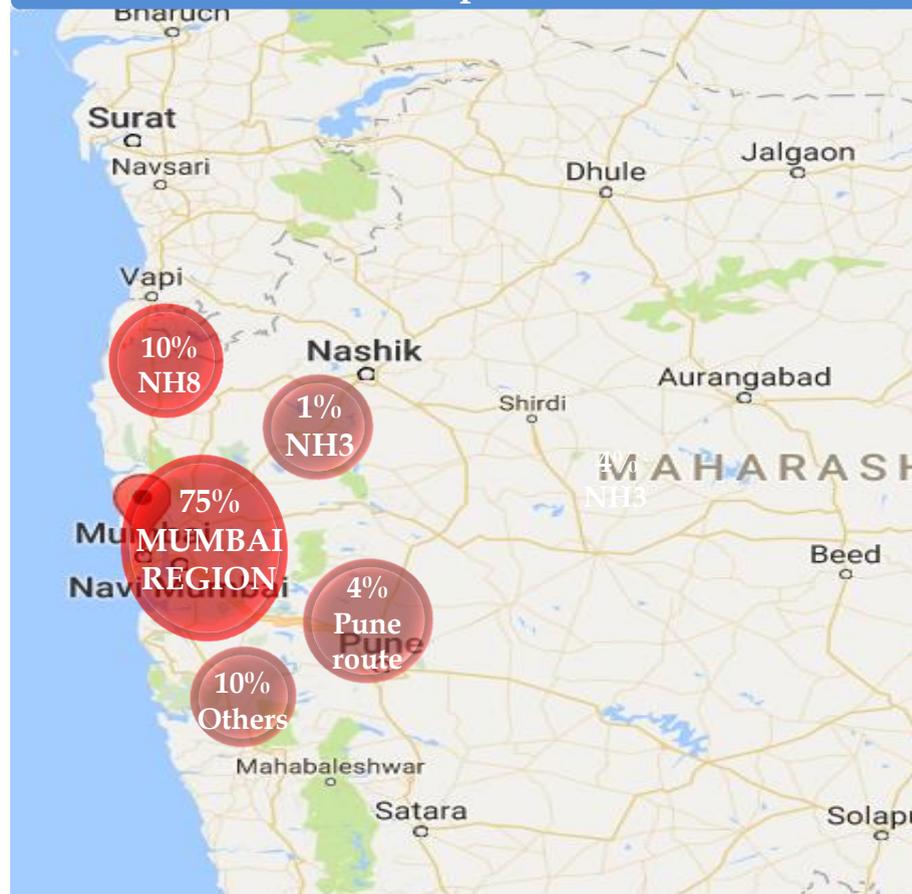The average export cycle dwell time of JNPT region port terminals for Oct'21 is **75.5 hrs.**

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

	JNPCT	NSICT	GTI	NSIGT	BMCT
Sep'21	85.6	64.4	81.0	94.2	73.2
Oct'21	76.0	59.0	77.7	84.2	60.4

ANNEXURE

NLDS
NICDC LOGISTICS DATA SERVICES LTD
Logistics Redefined

HEAT MAP : GTI Port Terminal

Region	Sep'21	Oct'21
Mumbai region	74%	75%
NH3	1%	1%
Pune	5%	4%
NH8	10%	10%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal
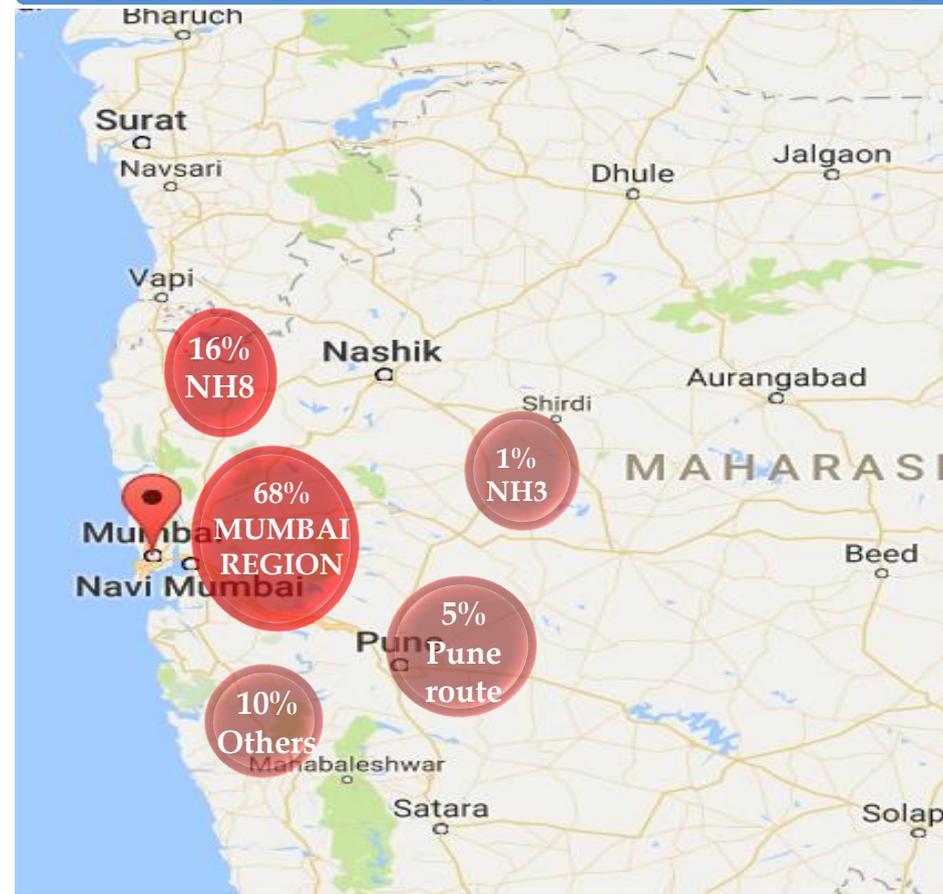
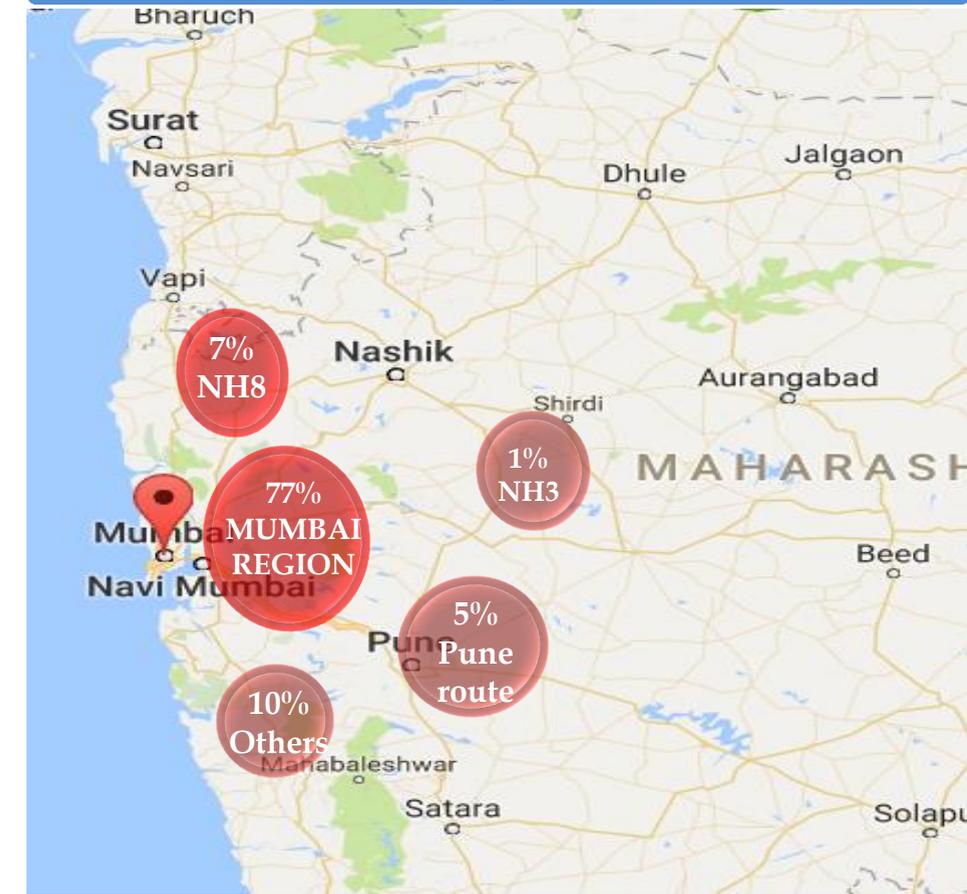| Region	Sep'21	Oct'21
Mumbai region	64%	68%
NH3	1%	1%
Pune	7%	5%
NH8	18%	16%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal

Region	Sep'21	Oct'21
Mumbai region	76%	77%
NH3	1%	1%
Pune	5%	5%
NH8	8%	7%
others	10%	10%

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

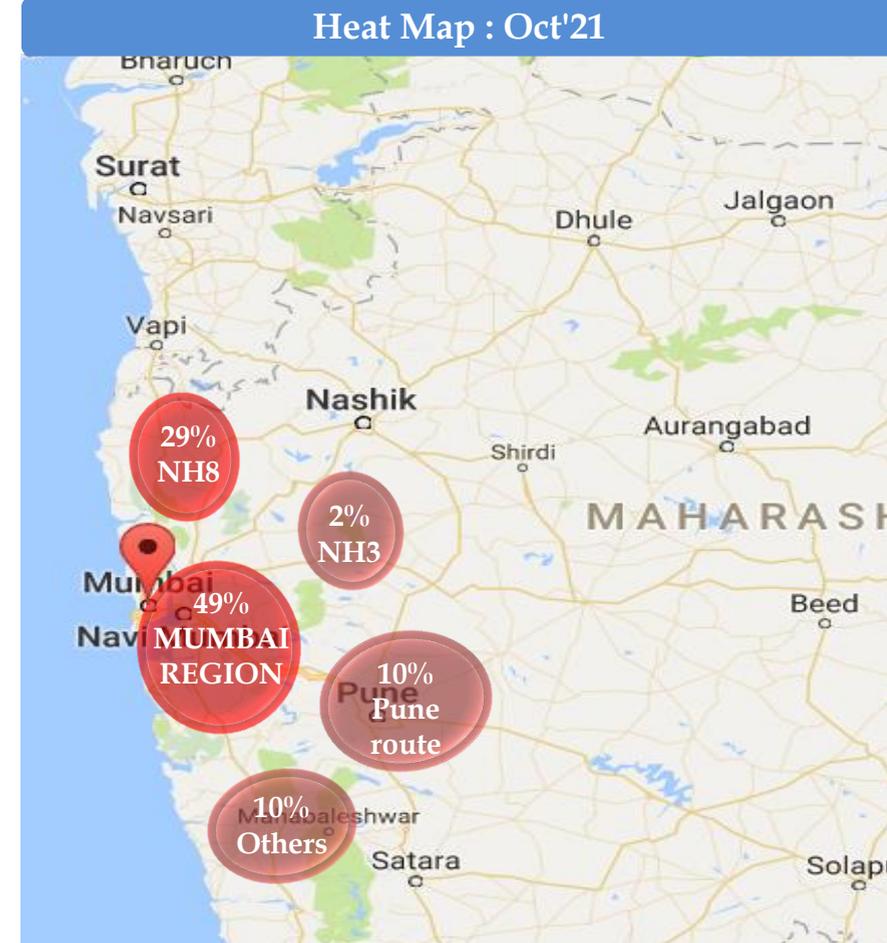# Container movement around JNPT Port terminal region via Truck

HEAT MAP : NSIGT Port Terminal

Region	Sep'21	Oct'21
Mumbai region	76%	77%
NH3	1%	1%
Pune	5%	4%
NH8	8%	8%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal

Region	Sep'21	Oct'21
Mumbai region	72%	49%
NH3	1%	2%
Pune	5%	10%
NH8	12%	29%
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 Oct'21					
CFS Out Port in (Export Cycle in Hrs)					
CFS	**JNPCT**	**GTI**	**NSICT**	**NSIGT**	**BMCT**
Gateway Distriparks CFS, Navi Mumbai	1.6	2.1	1.7	2.1	4.0
Punjab Conware CFS, Navi Mumbai	2.2	2.1	3.2	2.3	3.5
JWC Logistics Park CFS	3.0	3.3	3.4	2.9	3.2
CWC Hind Terminal CFS, Navi Mumbai	1.7	2.5	2.1	2.2	3.9
Dronogiri Rail Terminal CFS, Navi Mumbai	1.6	2.5	1.7	2.2	2.9
Navkar Corporation Yard 2 CFS, Panvel	6.0	6.4	5.1	5.8	4.2
Vaishno Logistics CFS, Navi Mumbai	3.6	2.3	2.7	3.1	3.8
Speedy Multimode CFS, JNPT	2.4	2.3	2.4	2.1	2.8
Balmer & Lawrie CFS, Navi Mumbai	3.4	4.6	2.1	3.1	3.1
Navkar Corporation Yard 3 CFS, Panvel	4.8	5.4	4.7	4.9	9.5
Ashte Logistics CFS, Panvel	2.8	4.2	3.1	2.9	4.3
Continental Warehousing CFS, Navi Mumbai	1.9	1.9	2.2	2.1	2.2
SBW Logistics CFS, Navi Mumbai	5.3	10.8	11.2	10.7	12.8
Maharashtra State Corp CFS	2.2	2.4	2.3	3.0	2.8
Internation Cargo Terminal CFS	2.4	2.5	2.1	2.8	3.1
Seabird CFS, Navi Mumbai	4.4	1.6	2.5	3.2	1.7
Apollo Logisolutions CFS, Panvel	5.1	3.7	3.0	3.2	3.4
Ameya Logistics CFS, Navi Mumbai	1.8	2.8	3.4	2.6	4.9
Transindia Logistics Park, Navi Mumbai	2.6	2.4	2.6	2.4	2.3
Ocean Gate CFS, Panvel	2.2	3.3	2.3	3.3	2.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.8	4.0	3.5	3.1	1.7
Indev Logistics CFS, Panvel	2.7	3.6	2.7	3.3	4.4
CWC Dronagiri CFS, Navi Mumbai	-	-	-	-	-
APM (Maersk India) CFS, Navi Mumbai	4.0	1.9	2.0	1.5	1.5

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	Oct'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	2.3
Internation Cargo Terminal CFS	2.3
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	3.2
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	4.9
Seabird CFS, Navi Mumbai	3.7
Balmer & Lawrie CFS, Navi Mumbai	2.6
Ashte Logistics CFS, Panvel	4.0
Continental Warehousing CFS, Navi Mumbai	1.9
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	10.1
Navkar Corporation Yard 1 CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.3
Maersk Annex (APM)CFS, Navi Mumbai	2.2
Speedy Multimode CFS, JNPT	2.5
Apollo Logisolutions CFS, Panvel	3.8
Navkar Corporation Yard 2 CFS, Panvel	4.5
Punjab Conware CFS, Navi Mumbai	3.0
Vaishno Logistics CFS, Navi Mumbai	2.5
JWC Logistics Park CFS	3.7
SBW Logistics CFS, Navi Mumbai	5.2
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	18.4

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	Oct'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	1.5
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	2.4
Transindia Logistics Park, Navi Mumbai	2.6
Indev Logistics CFS, Panvel	3.0
Navkar Corporation Yard 3 CFS, Panvel	3.9
Seabird CFS, Navi Mumbai	3.2
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	3.1
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	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.9
Maersk Annex (APM)CFS, Navi Mumbai	1.2
Speedy Multimode CFS, JNPT	1.9
Apollo Logisolutions CFS, Panvel	2.6
Navkar Corporation Yard 2 CFS, Panvel	4.0
Punjab Conware CFS, Navi Mumbai	2.4
Vaishno Logistics CFS, Navi Mumbai	3.7
JWC Logistics Park CFS	2.9
SBW Logistics CFS, Navi Mumbai	6.2
Ocean Gate CFS, Panvel	3.1
Maharashtra State Corp CFS	12.9

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	Oct'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	2.5
Internation Cargo Terminal CFS	2.2
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.8
Indev Logistics CFS, Panvel	3.4
Navkar Corporation Yard 3 CFS, Panvel	4.8
Seabird CFS, Navi Mumbai	3.8
Balmer & Lawrie CFS, Navi Mumbai	2.2
Ashte Logistics CFS, Panvel	3.9
Continental Warehousing CFS, Navi Mumbai	2.0
CWC Hind Terminal CFS, Navi Mumbai	2.3
Dronogiri Rail Terminal CFS, Navi Mumbai	27.5
Navkar Corporation Yard 1 CFS, Panvel	6.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.1
Maersk Annex (APM)CFS, Navi Mumbai	2.7
Speedy Multimode CFS, JNPT	3.0
Apollo Logisolutions CFS, Panvel	4.5
Navkar Corporation Yard 2 CFS, Panvel	5.3
Punjab Conware CFS, Navi Mumbai	7.8
Vaishno Logistics CFS, Navi Mumbai	3.1
JWC Logistics Park CFS	3.7
SBW Logistics CFS, Navi Mumbai	8.4
Ocean Gate CFS, Panvel	3.8
Maharashtra State Corp CFS	8.9

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	Oct'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	2.2
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	4.8
Seabird CFS, Navi Mumbai	4.3
Balmer & Lawrie CFS, Navi Mumbai	2.5
Ashte Logistics CFS, Panvel	3.8
Continental Warehousing CFS, Navi Mumbai	2.2
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	7.0
Navkar Corporation Yard 1 CFS, Panvel	4.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.9
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	2.6
Apollo Logisolutions CFS, Panvel	3.9
Navkar Corporation Yard 2 CFS, Panvel	3.9
Punjab Conware CFS, Navi Mumbai	5.5
Vaishno Logistics CFS, Navi Mumbai	2.5
JWC Logistics Park CFS	2.9
SBW Logistics CFS, Navi Mumbai	6.1
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	21.9

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	Oct'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.0
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	2.4
Ameya Logistics CFS, Navi Mumbai	2.2
Transindia Logistics Park, Navi Mumbai	3.7
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	4.7
Seabird CFS, Navi Mumbai	3.9
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	3.9
Continental Warehousing CFS, Navi Mumbai	2.1
CWC Hind Terminal CFS, Navi Mumbai	3.0
Dronogiri Rail Terminal CFS, Navi Mumbai	8.5
Navkar Corporation Yard 1 CFS, Panvel	4.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.2
Maersk Annex (APM)CFS, Navi Mumbai	2.1
Speedy Multimode CFS, JNPT	3.1
Apollo Logisolutions CFS, Panvel	2.7
Navkar Corporation Yard 2 CFS, Panvel	6.3
Punjab Conware CFS, Navi Mumbai	5.9
Vaishno Logistics CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	3.6
SBW Logistics CFS, Navi Mumbai	6.3
Ocean Gate CFS, Panvel	4.2
Maharashtra State Corp CFS	10.4

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 Oct'21				
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	2.5	2.3
Cluster 2	6	13	2.3	2.5
Cluster 3	6	11	6.9	2.3
Cluster 4	1	13	2.5	2.3
Cluster 5	2	25	3.5	3.3
Cluster 6	6	25	3.9	4.2
Cluster 7	4	12	2.1	2.4
Cluster 8	1	34	5.2	10.8

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Oct'21				
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	2.4
Cluster 2	6	13	2.0	2.6
Cluster 3	6	11	3.1	2.2
Cluster 4	1	13	3.7	3.6
Cluster 5	2	25	3.0	2.6
Cluster 6	6	25	3.4	4.8
Cluster 7	4	12	2.4	1.9
Cluster 8	1	34	6.2	5.3

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

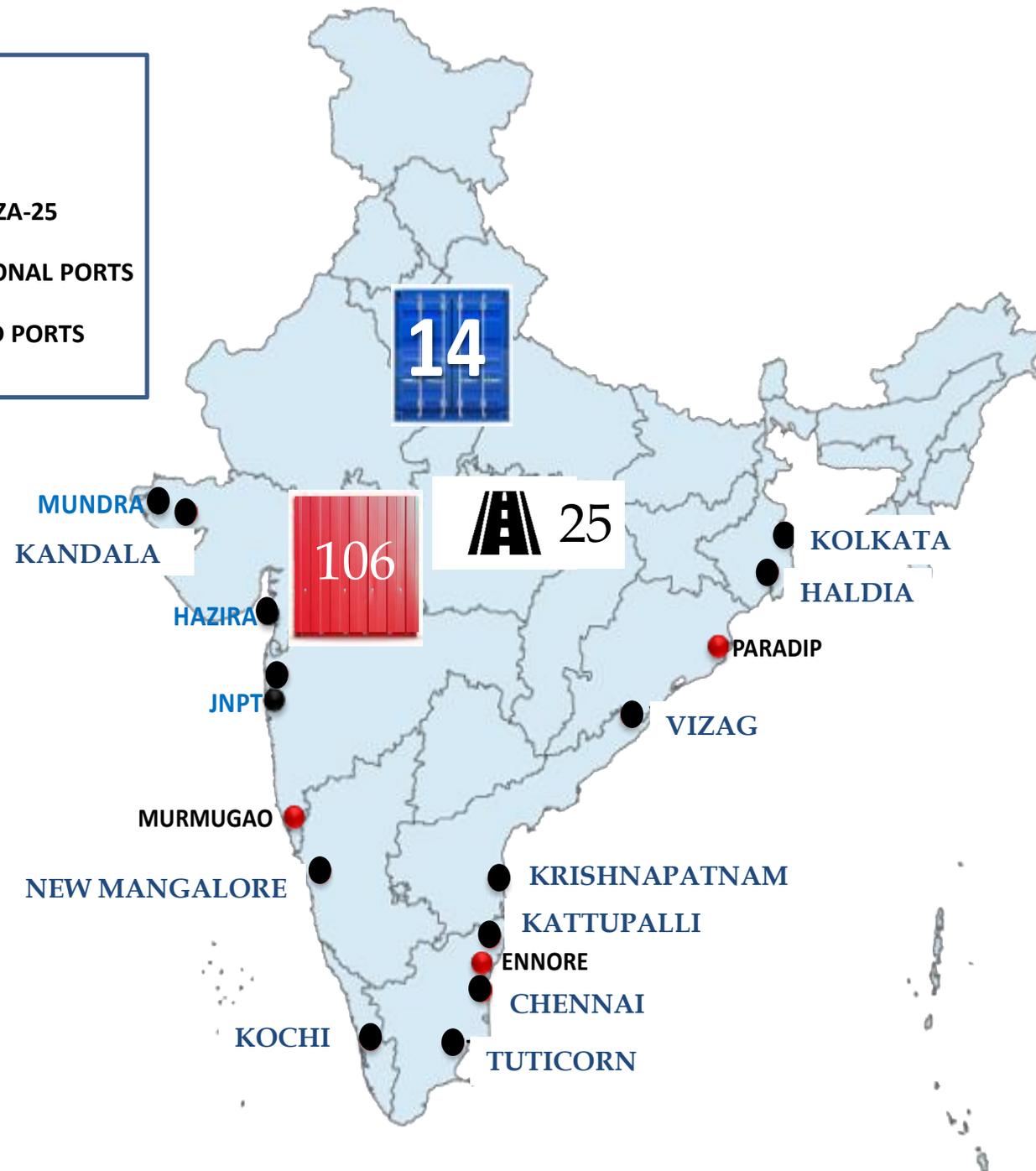| NSICT terminal for month of Oct'21				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	3.0	2.4
Cluster 2	6	13	2.5	2.1
Cluster 3	6	11	8.3	2.4
Cluster 4	1	13	3.1	2.7
Cluster 5	2	25	3.8	2.8
Cluster 6	6	25	4.6	3.1
Cluster 7	4	12	2.1	2.6
Cluster 8	1	34	8.4	11.2

CFS Cluster : NSIGT Terminal

NSIGT terminal for month of Oct'21				
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	2.6	2.1
Cluster 2	6	13	2.2	2.5
Cluster 3	6	11	2.0	2.7
Cluster 4	1	13	2.5	3.1
Cluster 5	2	25	3.0	3.1
Cluster 6	6	25	3.9	3.3
Cluster 7	4	12	2.2	2.4
Cluster 8	1	34	6.1	10.7

CFS Cluster : BMCT Terminal

BMCT terminal for month of Oct'21				
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	3.1	2.8
Cluster 2	6	13	2.4	3.1
Cluster 3	6	11	2.0	2.9
Cluster 4	1	13	2.1	3.8
Cluster 5	2	25	3.9	2.9
Cluster 6	6	25	4.2	4.3
Cluster 7	4	12	2.2	2.3
Cluster 8	1	34	6.3	12.8

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

Map figures: 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 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

#	CFS Name	#	CFS Name
1	AllCargo Logistics	25	Sarveshwar CFS
2	Ameya Logistics CFS, Navi Mumbai	26	Seabird CFS, Mundra
3	Gateway Distriparks CFS, Navi Mumbai	27	TG Terminals CFS
4	Saurashtra CFS, Mundra	28	Honey Comb CFS, Mundra
5	CWC Hind Terminal CFS, Navi Mumbai	29	Vaishno Logistics CFS, Navi Mumbai
6	International Cargo Terminal CFS	30	Ashutosh CFS, Mundra
7	Speedy Multimode CFS, JNPT	31	Apollo Logisolutions CFS, Panvel
8	Adani CFS, Hazira	32	Rishi CFS, Mundra
9	JWR CFS	33	Dronagiri Rail Terminal CFS, Navi Mumbai
10	Continental Warehousing CFS, Navi Mumbai	34	Navkar Corporation Yard 2 CFS, Panvel
11	Navkar Corporation Yard 3 CFS, Panvel	35	Ocean Gate CFS, Panvel
12	JWC Logistics Park CFS	36	Hind Terminal CFS, Hazira
13	Hind Terminals Pvt. Ltd. CFS, Mundra	37	Indev Logistics CFS, Panvel
14	International Cargo Terminals (ULA) CFS, Navi Mumbai	38	Balmer & Lawrie CFS, Navi Mumbai
15	EFC Logistics India	39	Mundhra CFS, Mundra
16	Adani CFS Eximyard, Mundra	40	Transworld CFS, Mundra
17	Punjab Conware CFS, Navi Mumbai	41	Seabird CFS, Hazira
18	Seabird CFS, Navi Mumbai	42	Empezar Logistics CFS
19	CWC CFS, Mundra	43	APM (Maersk India) CFS, Navi Mumbai
20	AllCargo CFS, Mundra	44	Navkar Corporation Yard 1 CFS, Panvel
21	Ashte Logistics CFS, Panvel	45	Maersk Annex (APM)CFS, Navi Mumbai
22	TG Terminals CFS, Mundra	46	Maharashtra State Corp CFS
23	MICT CFS, Mundra	47	A V Joshi CFS
24	Landmark CFS, Mundra	48	Take Care Logistics CFS

THANK YOU