

Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Aug'21 (in hrs)	Sep'21 (in hrs)	Port	Aug'21 (in hrs)	Sep'21 (in hrs)
JNPCT	27.88	34.93	JNPCT	74.45	85.58
NSICT	15.67	19.53	NSICT	63.47	64.35
GTI	13.50	20.60	GTI	82.05	80.95
NSIGT	16.58	22.53	NSIGT	99.18	94.23
BMCT/PSA	14.77	18.52	BMCT/PSA	70.00	73.15

Critical Incident Summary

Jawaharlal Nehru Port Terminals

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

Month	Import Cycle - Dwell Time	Export Cycle - Dwell Time	CFS Dwell Time	ICD
Sep'21	22.0 hrs	80.8 hrs	79.9 hrs	114.1 hrs
Aug'21	16.1 hrs	79.5 hrs	81.5 hrs	117.7 hrs

Port Dwell Time

IMPORT

Mode	Aug'21 (in hrs)	Sep'21 (in hrs)
Overall	18.2	23.9
Truck	15.7	19.9
Train	39.6	50.2

EXPORT

Mode	Aug'21 (in hrs)	Sep'21 (in hrs)
Overall	96.6	97.3
Truck	92.9	92.4
Train	119.6	123.7

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



Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Aug'21 (in hrs)	Sep'21 (in hrs)
CFS	82.5	83.6
ICD	117.7	114.1

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

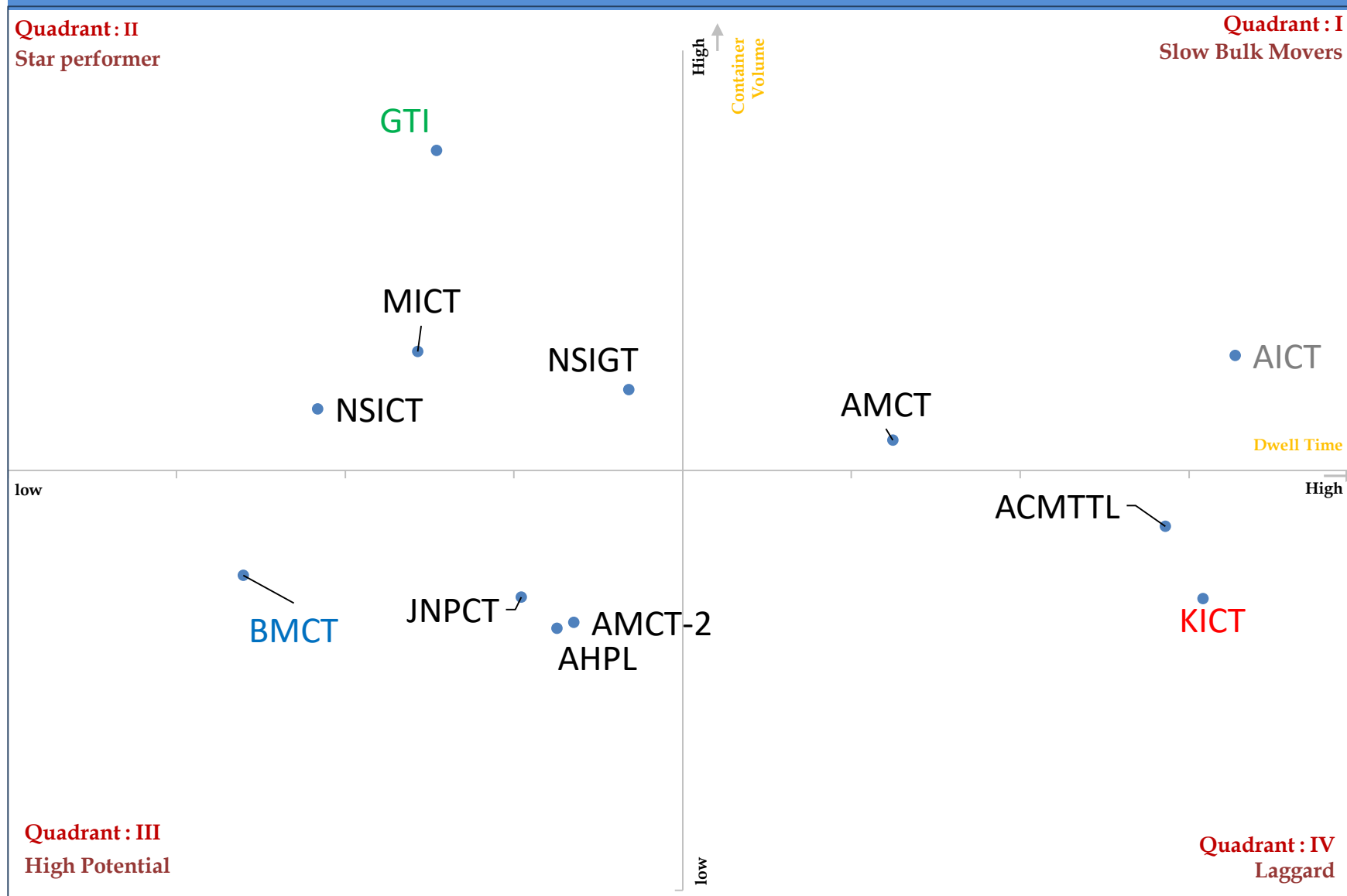
The marked entries showcase decrease in performance in comparison to Aug'21



Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index - Sep'21



Performance benchmarking for Port Terminals covered under LDB project for Sep'21

Top Performing Terminal

Gateway Terminals India (GTI)

Aug'21	Sep'21
41.2 Hrs	43.1 Hrs.

Low Performing Terminal

Kandla International Container Terminal (KICT)

Aug'21	Sep'21
60.2 Hrs	101.5 Hrs

Note: The performance benchmarking is based on performance index



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

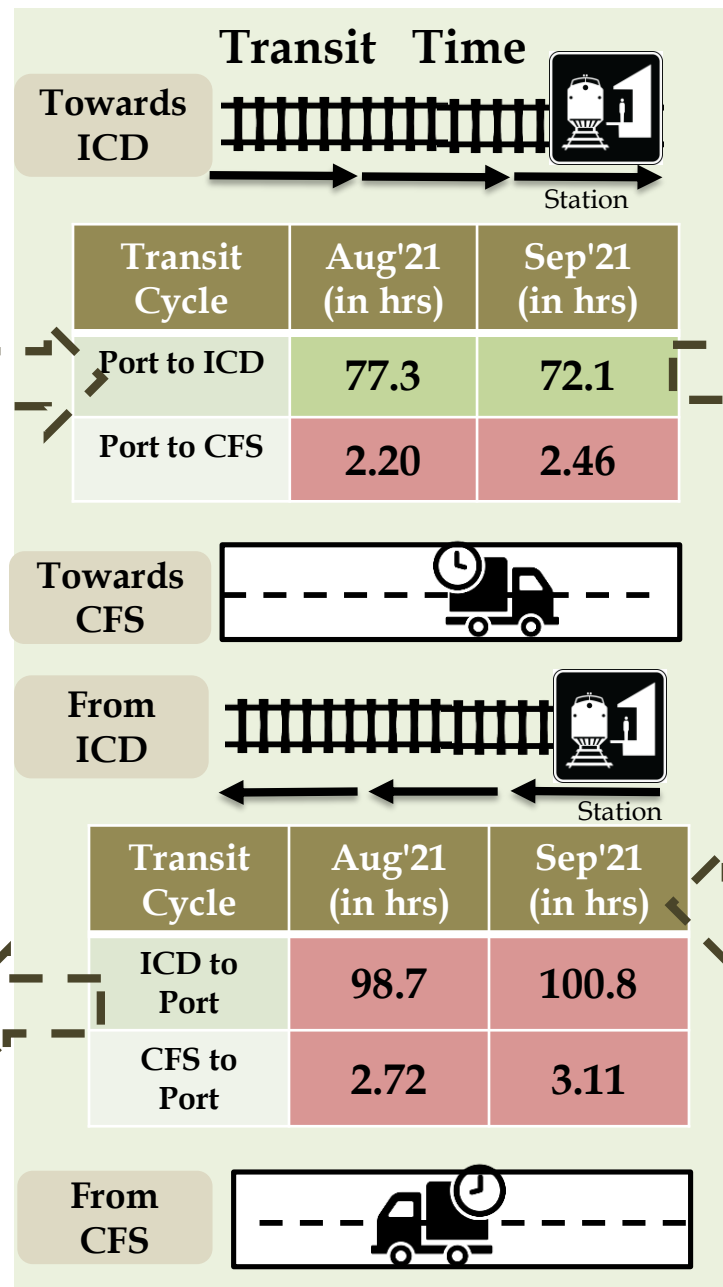
High Potential : consist of entities which have catered relatively lower container volume in lower dwell time

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

Container Lifecycle (Import Cycle)

Port Dwell Time			
IMPORT	Mode	Aug'21 (in hrs)	Sep'21 (in hrs)
	Overall	16.1	22.0
	Truck	14.8	20.4
	Train	26.5	32.0

EXPORT	Mode	Aug'21 (in hrs)	Sep'21 (in hrs)
	Overall	79.5	80.8
	Truck	79.0	80.6
	Train	83.3	82.5



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

Entity	Aug'21 (in hrs)	Sep'21 (in hrs)
CFS	81.5	79.9
ICD	117.7	114.1

Volume distribution at port terminal - Truck/Rail

	Truck	Rail
Import	83%	17%
Export	79%	21%

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (Sep'21 - in hrs)			Compared to Aug'21
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	22.0	37% ↓
	Port Dwell Time for Truck Bound Containers	20.4	38% ↓
	Port Dwell time for Train Bound Containers	32.0	21% ↓
	Port Dwell time Direct Port Delivery (DPD) containers	34.9	2% ↓
	Port Dwell time Containers bound for CFS	17.0	31% ↓
	Port Dwell for Empty Containers	31.7	53% ↓
	Port Dwell for Laden Containers	20.0	32% ↓
TRANSIT TIME	Port to ICD	72.1	7% ↑
	Port to CFS	2.46	12% ↓

EXPORT CYCLE DWELL TIME (Sep'21- in hrs)			Compared to Aug'21
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	80.8	2% ↓
	Port Dwell Time for Truck Bound Containers	80.6	2% ↓
	Port Dwell time for Train Bound Containers	82.5	1% ↑
	Port Dwell time Direct Port Entry (DPE) containers	84.8	4% ↓
	Port Dwell time Containers bound from CFS	80.3	1% ↓
	Port Dwell for Empty Containers	72,2	4% ↓
	Port Dwell for Laden Containers	82.8	1% ↓
TRANSIT TIME	ICD to Port	100.8	2% ↓
	CFS to Port	3.11	14% ↓

↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to Aug'21

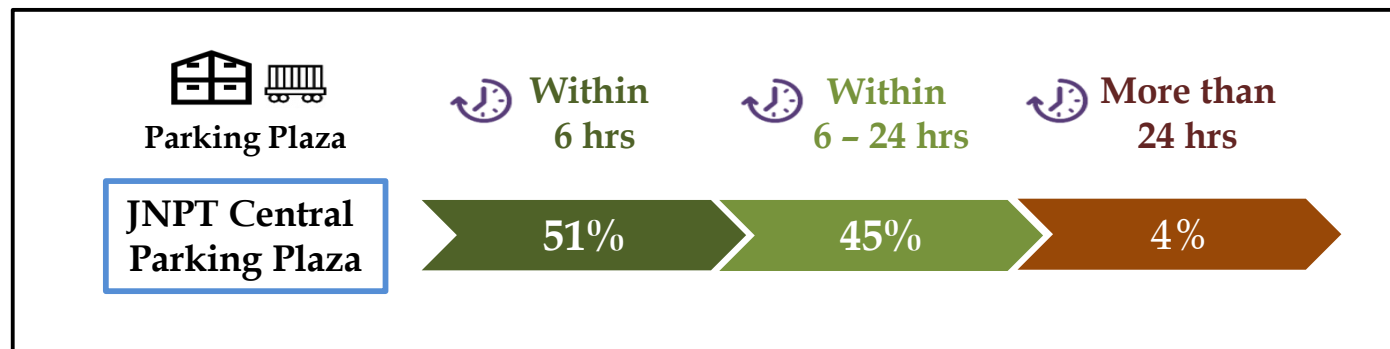
The below table depicts the Parking Plaza & Parking Plaza to Port Transit Performance at JNPT Port Terminals and their volume bifurcation in export cycle



Parking Plaza Gate In - Gate Out

Mode	Aug'21 (in hrs)	Sep'21 (in hrs)
Overall Parking Plaza	5.20	5.86

Container Handled: Day wise (Sep'21)

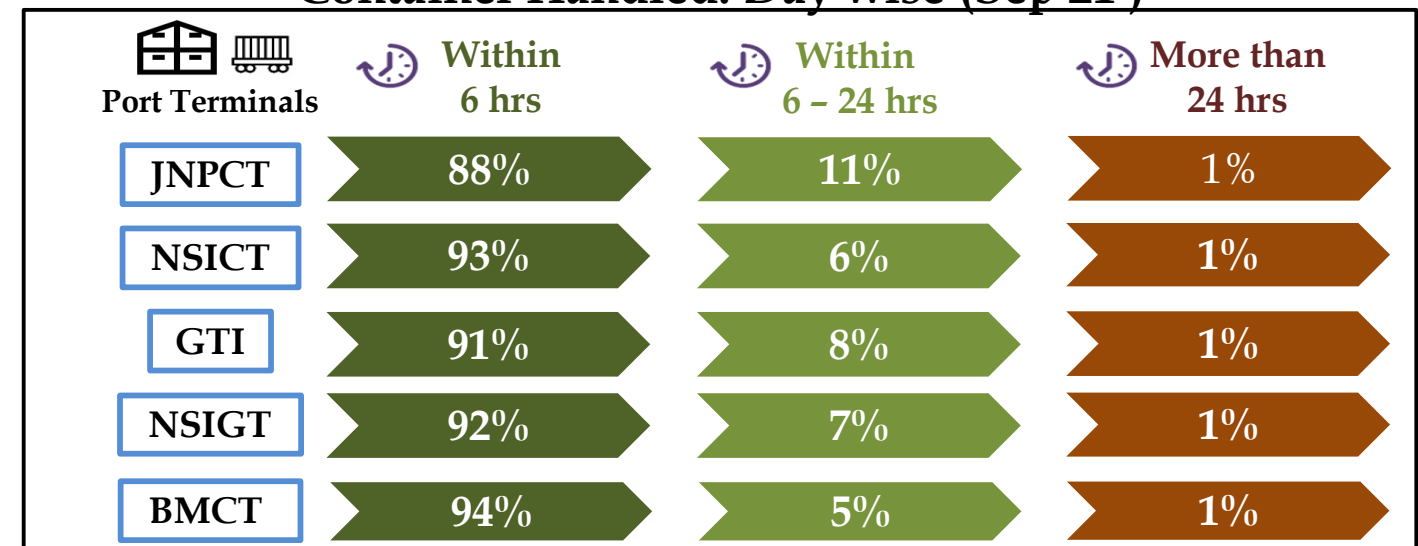


Parking Plaza Gate Out - Terminal In

Mode	Aug'21 (in hrs)	Sep'21 (in hrs)
Overall Parking Plaza to JNPT Port	1.08	1.51

Port	Aug'21 (in hrs)	Sep'21 (in hrs)
JNPCT	1.3	0.9
NSICT	0.7	1.1
GTI	0.9	1.9
NSIGT	0.9	1.3
BMCT	2.4	1.9

Container Handled: Day wise (Sep'21)





Performance Benchmarking



Top Performing CFS

AllCargo Logistics	
Aug'21	Sep'21
68.2 hrs	62.3 hrs ↑

Low Performing CFS

Hind Terminals CFS, Hazira	
Aug'21	Sep'21
125.5 hrs.	112.8 hrs ↑

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

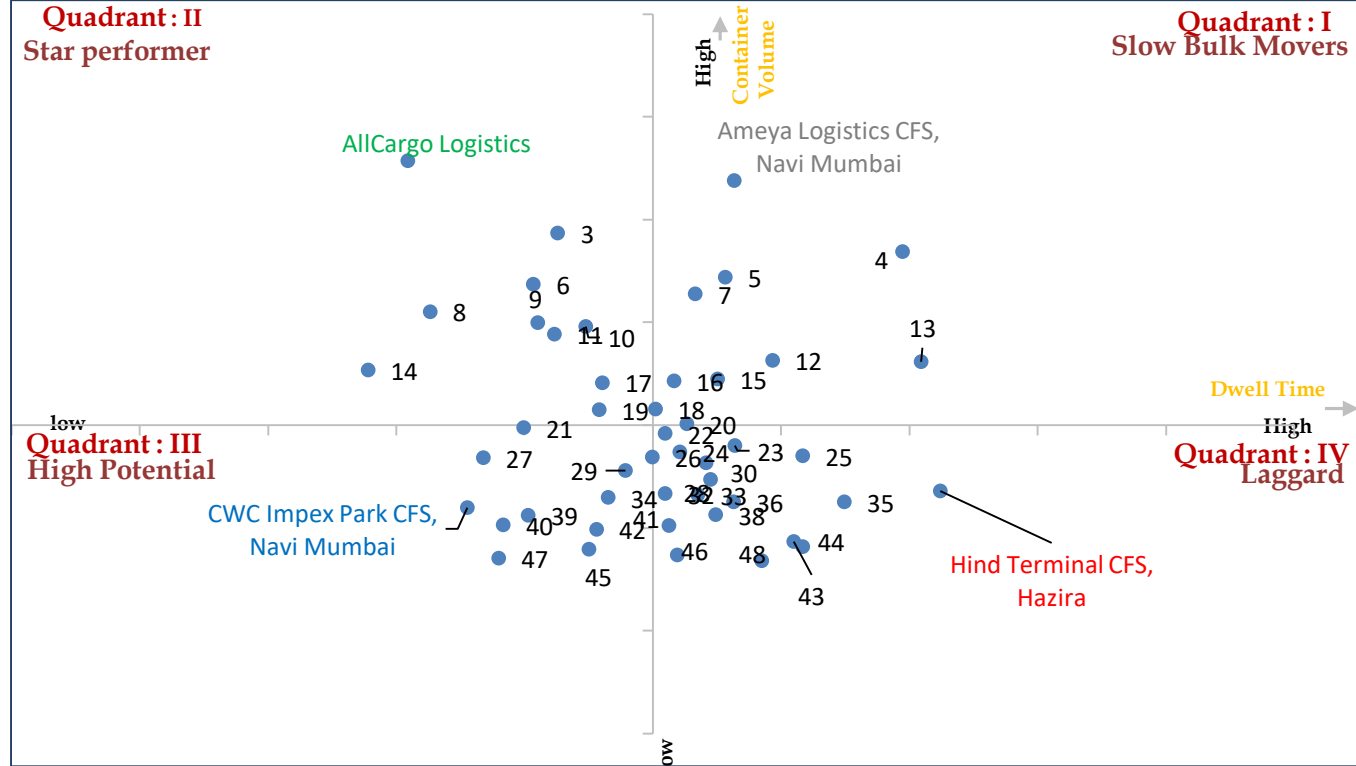
Top Performing ICD

Gateway Rail Freight ICD, Gurgaon	
Aug'21	Sep'21
106.3 hrs	116.3 hrs ↓

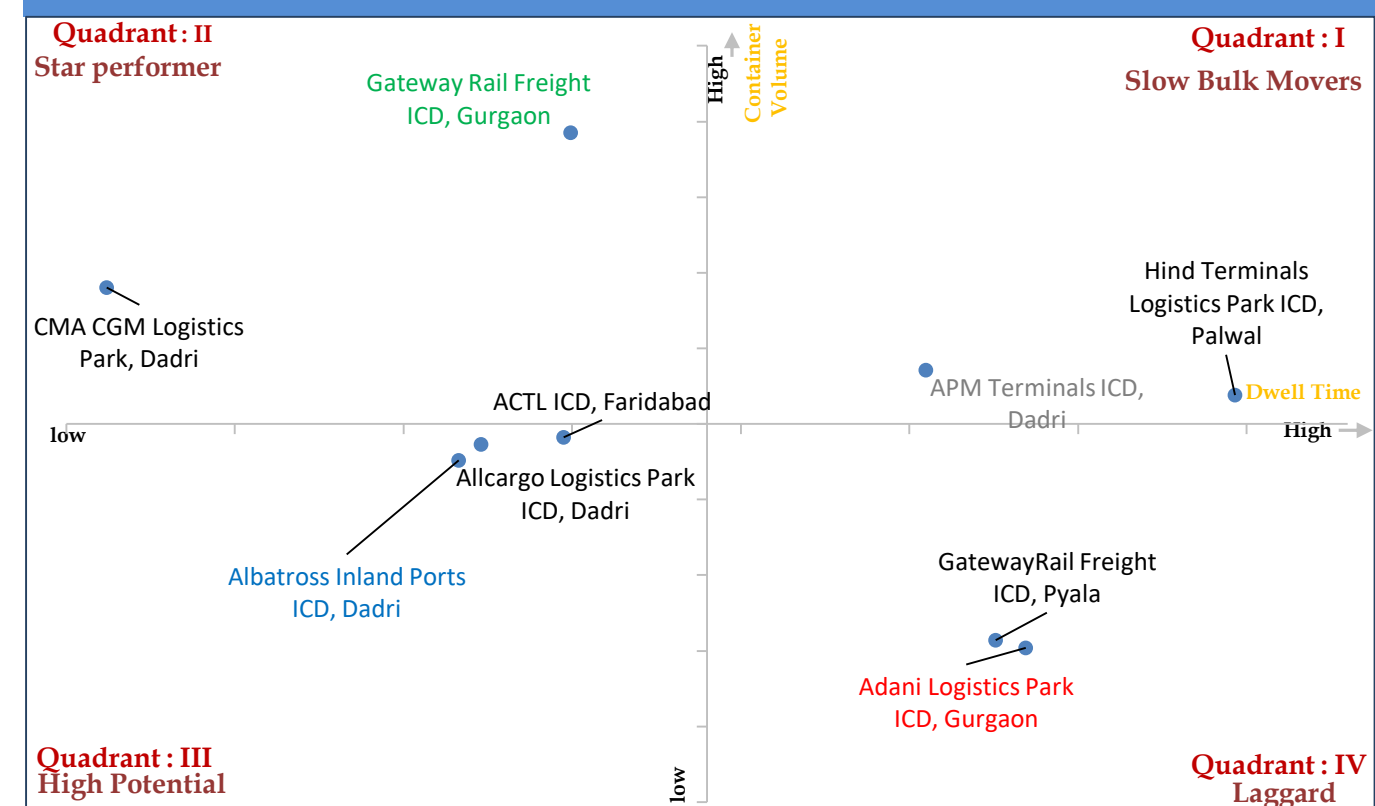
Low Performing ICD

Adani Logistics Park ICD, Gurgaon	
Aug'21	Sep'21
119.8 hrs	134.4 hrs ↓

Performance Index: Western Corridor CFS



Performance Index: ICD



Kindly refer to Annexure section for the names of CFS

Import Cycle Analysis

The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in import cycle

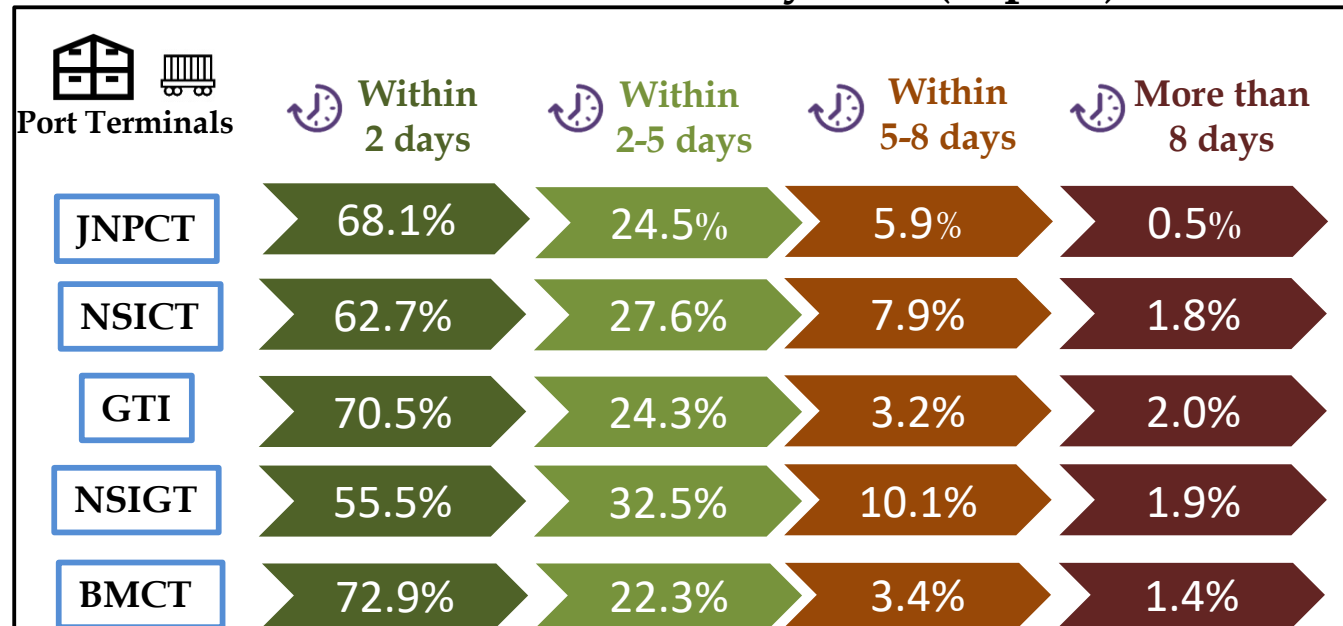
PORT IMPORT via TRAIN

(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	Aug'21 (in hrs)	Sep'21 (in hrs)
JNPCT	28.8	35.0
NSICT	27.6	31.6
GTI	24.5	30.9
NSIGT	32.9	42.0
BMCT	21.9	25.7

Container Handled: Day wise (Sep'21)



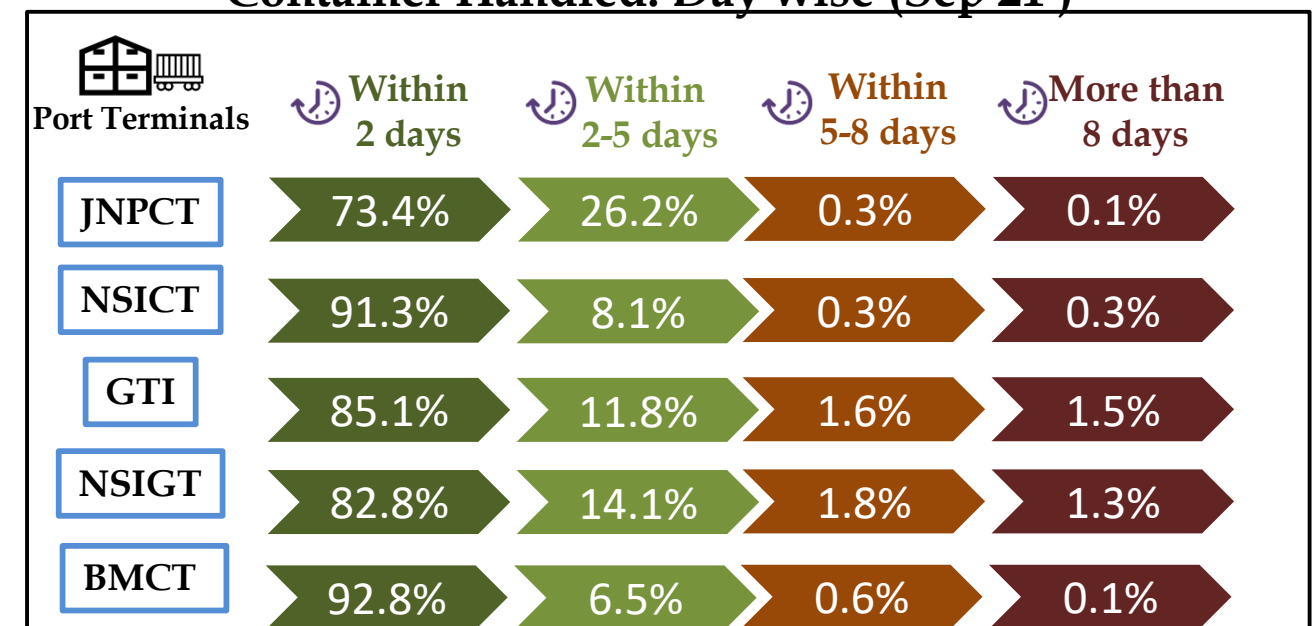
PORT IMPORT via TRUCK

(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	Aug'21 (in hrs)	Sep'21 (in hrs)
JNPCT	27.8	34.9
NSICT	14.5	18.4
GTI	12.1	18.8
NSIGT	14.6	19.9
BMCT	14.2	16.9

Container Handled: Day wise (Sep'21)



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

JNPCT		
Port Dwell time based on transit type		
Sep'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	40.9 hrs	31.1 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	33.0 hrs	40.9 hrs

GTI		
Port Dwell time based on transit type		
Sep'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	29.6 hrs	15.3 hrs
Port Dwell time based on transit type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	18.4 hrs	41.4 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

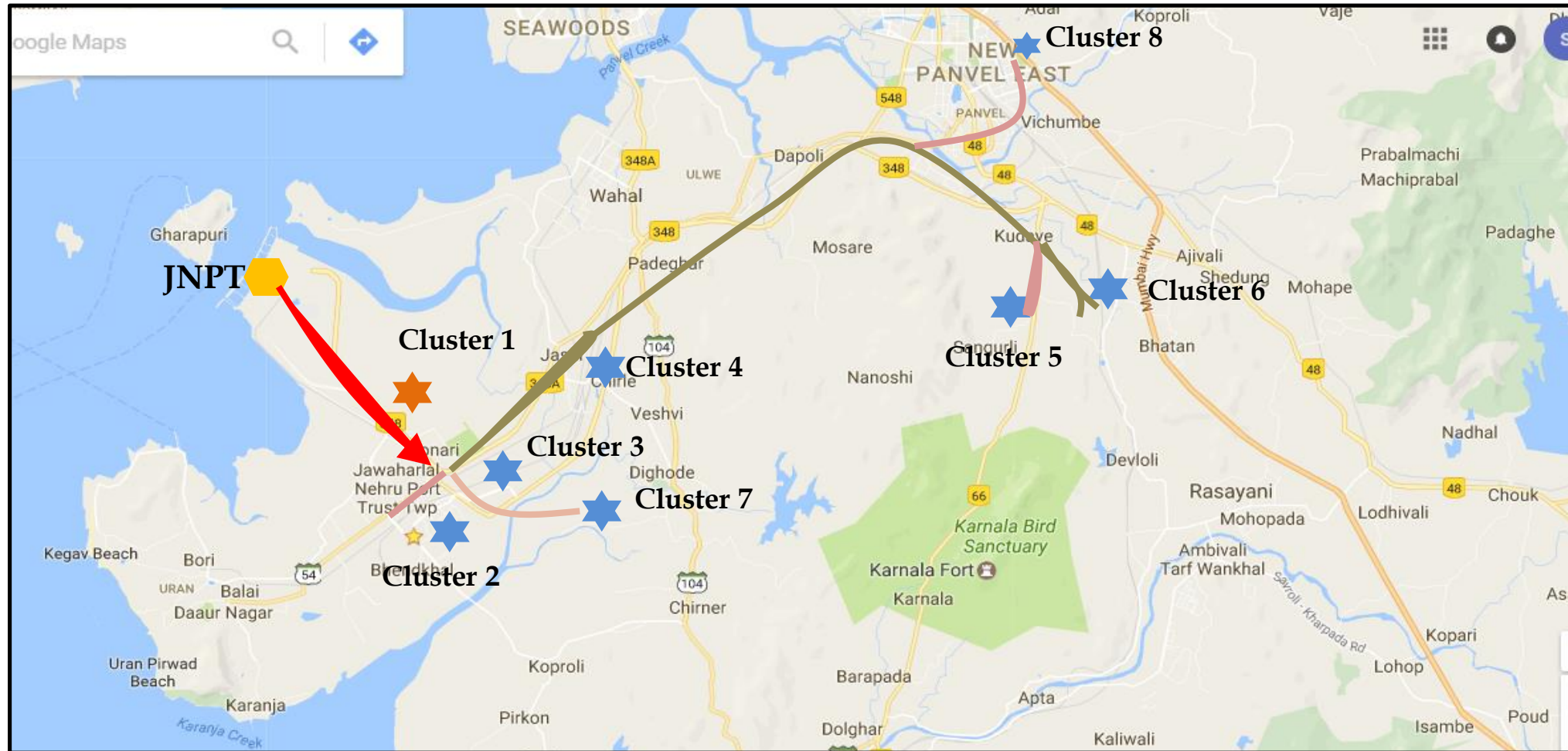
NSICT		
Port Dwell time based on transit type		
Sep'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	55.1 hrs	15.9 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	18.3 hrs	23.2 hrs

NSIGT		
Port Dwell time based on transit type		
Sep'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	46.9 hrs	16.5 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	19.6 hrs	30.9 hrs

BMCT		
Port Dwell time based on transit type		
Sep'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	33.9 hrs	15.0 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	17.8 hrs	26.0 hrs

JNPT Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPT region in Import Cycle in month of Sep'21



Clusters with bottleneck

CLUSTER 1 JNPT Area

Clusters without bottleneck

CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area, JNPT road
CLUSTER 4	Chirle area, JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road
CLUSTER 8	Taloja, Navi Mumbai

Legends

- High Congestion (Red arrow)
- Medium Congestion (Brown line)
- Low Congestion (Pink line)
- Cluster with bottleneck (Red star)
- Cluster without bottleneck (Blue star)

GTI Terminal

Congestion Level
Import Cycle :- [Red bar]

JNPCT Terminal

Congestion Level
Import Cycle :- [Red bar]

NSICT Terminal

Congestion Level
Import Cycle :- [Red bar]

NSIGT Terminal

Congestion Level
Import Cycle :- [Red bar]

BMCT Terminal

Congestion Level
Import Cycle :- [Red bar]

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

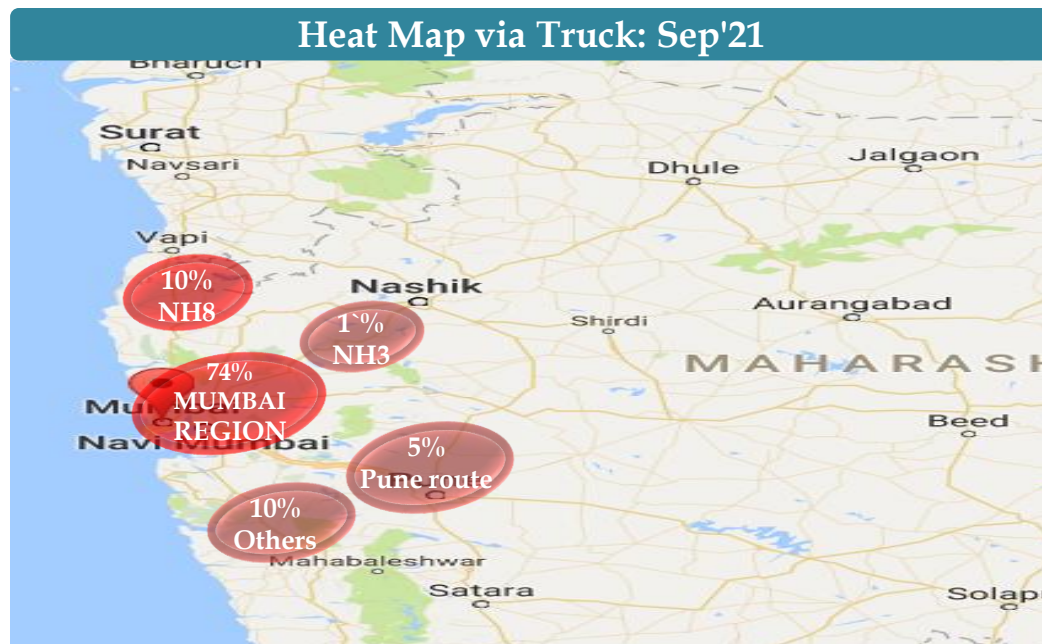
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Sep'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.

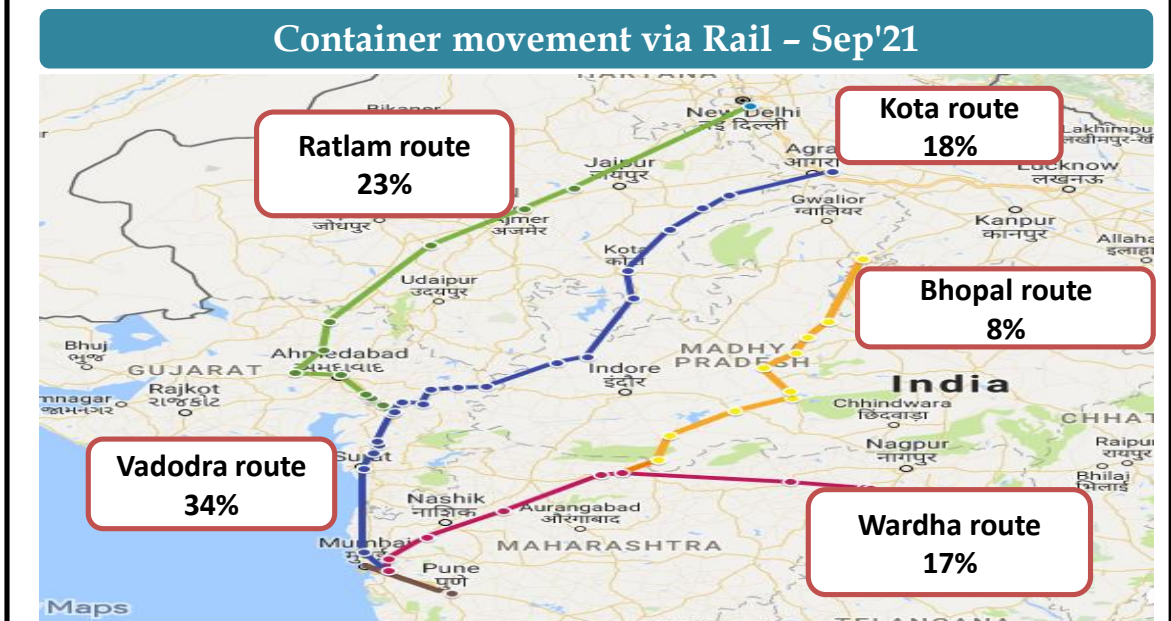


Train

VOLUME WISE CONTAINER MOVEMENT

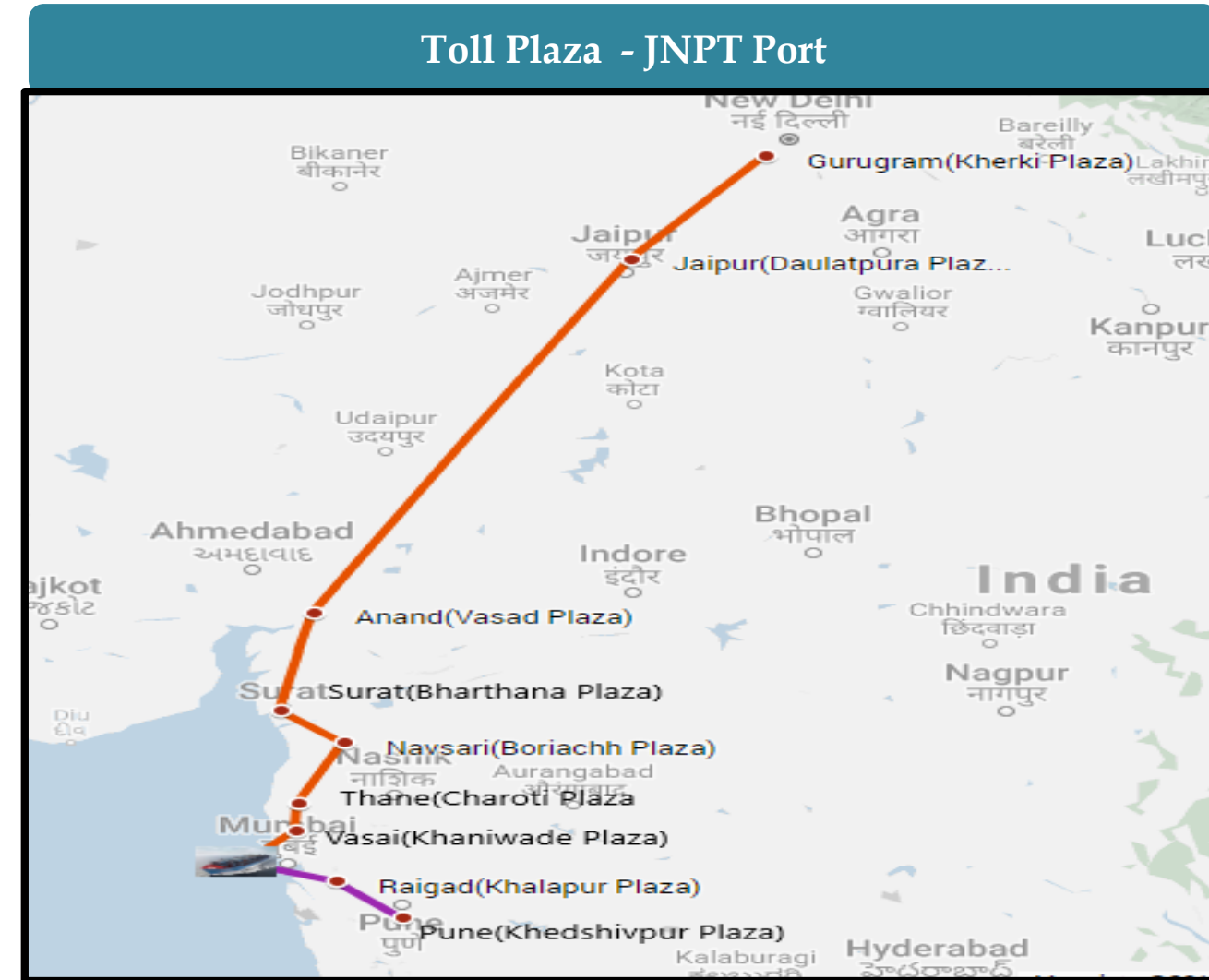
Region	Sep'21
Vadodra Route	34%
Ratlam Route	23%
Wardha Route	17%
Kota Route	18%
Bhopal Route	8%

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



Avg. Speed between Toll to Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Aug'21 (in km/hrs)	Sep'21 (in km/hrs)
JNPT	JNPT	Khaniwade	94	11.6	12.2
	JNPT	Khalapur	60	14.4	-
	Khaniwade	Charoti	50	33.4	35.8
	Charoti	Boriach	126	27.9	28.2
	Boriach	Bharthan	142	32.0	32.1
	Bharthan	Vasad	60	38.6	38.7
	Khalalpur	Khedshivpur	105	35.8	31.2



Export Cycle Analysis

The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in export cycle

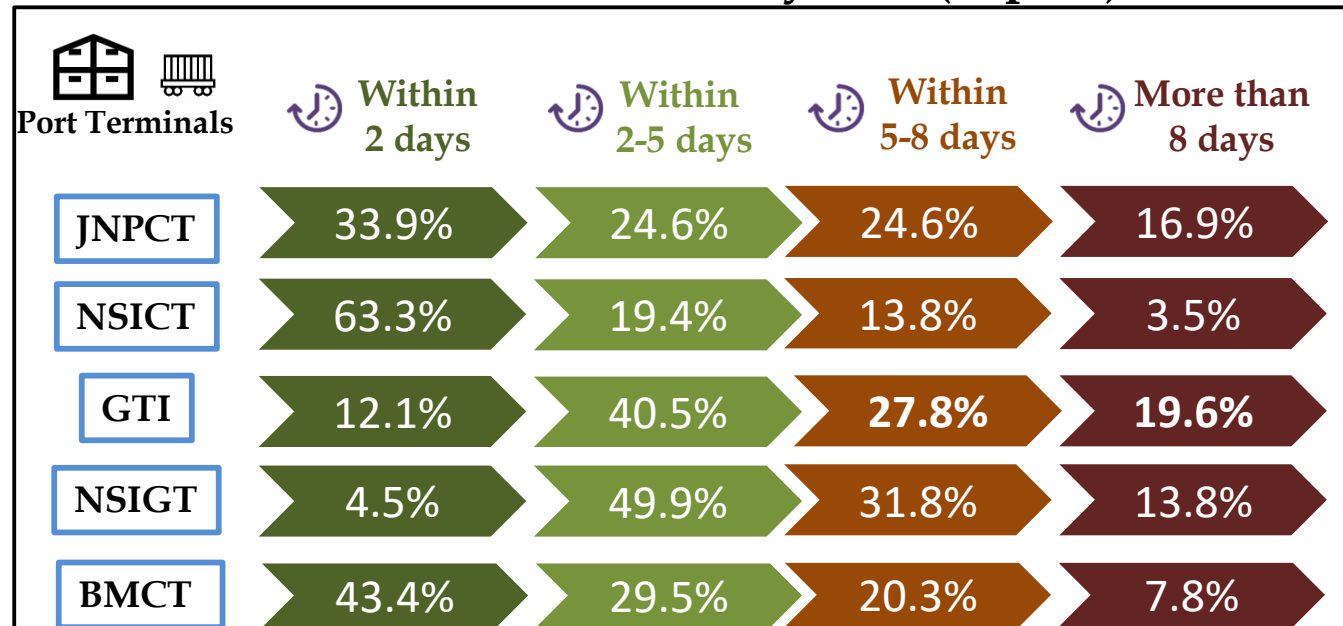
PORT EXPORT via TRAIN

(21% 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	Aug'21 (in hrs)	Sep'21 (in hrs)
JNPCT	150.9	106.3
NSICT	16.0	16.8
GTI	135.5	114.8
NSIGT	113.8	114.1
BMCT	52.2	61.8

Container Handled: Day wise (Sep'21)



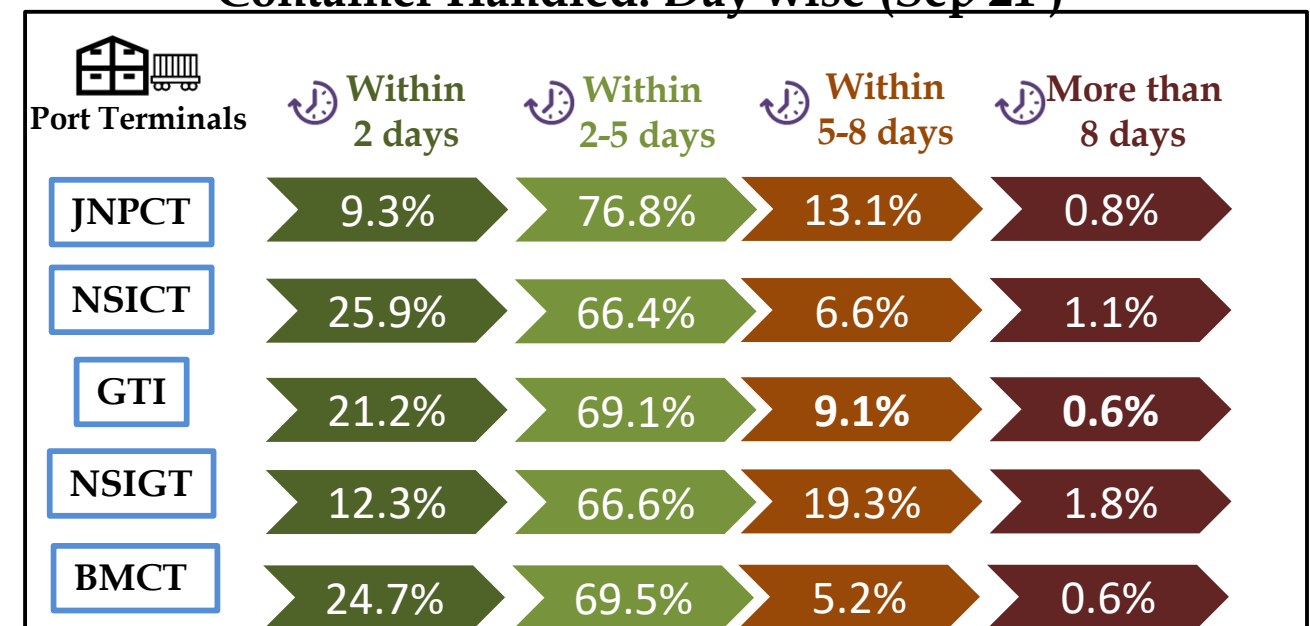
PORT EXPORT via TRUCK

(79% 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	Aug'21 (in hrs)	Sep'21 (in hrs)
JNPCT	73.6	85.6
NSICT	74.1	72.3
GTI	76.8	76.9
NSIGT	97.2	91.7
BMCT	74.0	75.2

Container Handled: Day wise (Sep'21)



The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Sep'21

JNPCT		
Port Dwell time based on transit type		
Sep'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	89.3 hrs	87.6 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	88.5 hrs	82.8 hrs

GTI		
Port Dwell time based on transit type		
Sep'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	79.8 hrs	78.9 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	84.1 hrs	71.1 hrs

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Sep'21

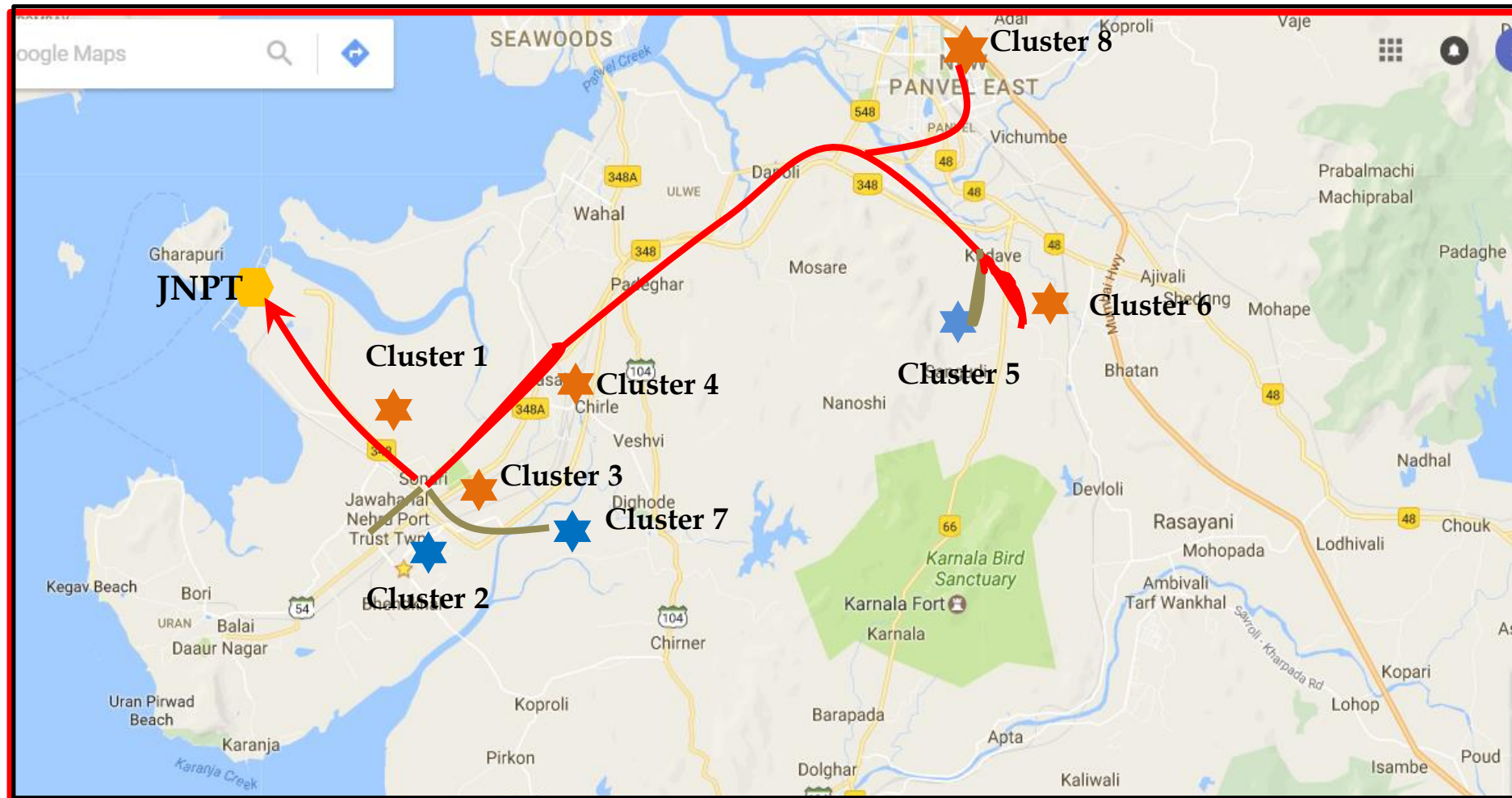
NSICT		
Port Dwell time based on transit type		
Sep'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	77.5 hrs	69.8 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	66.2 hrs	50.0 hrs

NSIGT		
Port Dwell time based on transit type		
Sep'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	96.9 hrs	89.5 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	96.0 hrs	80.6 hrs

BMCT		
Port Dwell time based on transit type		
Sep'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	75.5 hrs
Port Dwell time based on container type		
Sep'21	Laden Containers	Empty Containers
Dwell time (in hrs)	73.2 hrs	73.1 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of Sep'21



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 8	Taloja, Navi Mumbai

Clusters without bottleneck

CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 5	Plaspa area, Coach Kanyakumari Highway
CLUSTER 7	Patilpada area, Khopate JNPT road

Legends

- High Congestion (Red line)
- Medium Congestion (Brown line)
- Low Congestion (Light Brown line)
- Cluster with bottleneck (Orange star)
- Cluster without bottleneck (Blue star)

GTI Terminal

Congestion Level
Export Cycle :- [Red bar]

JNPCT Terminal

Congestion Level
Export Cycle :- [Red bar]

NSICT Terminal

Congestion Level
Export Cycle :- [Red bar]

NSIGT Terminal

Congestion Level
Export Cycle :- [Red bar]

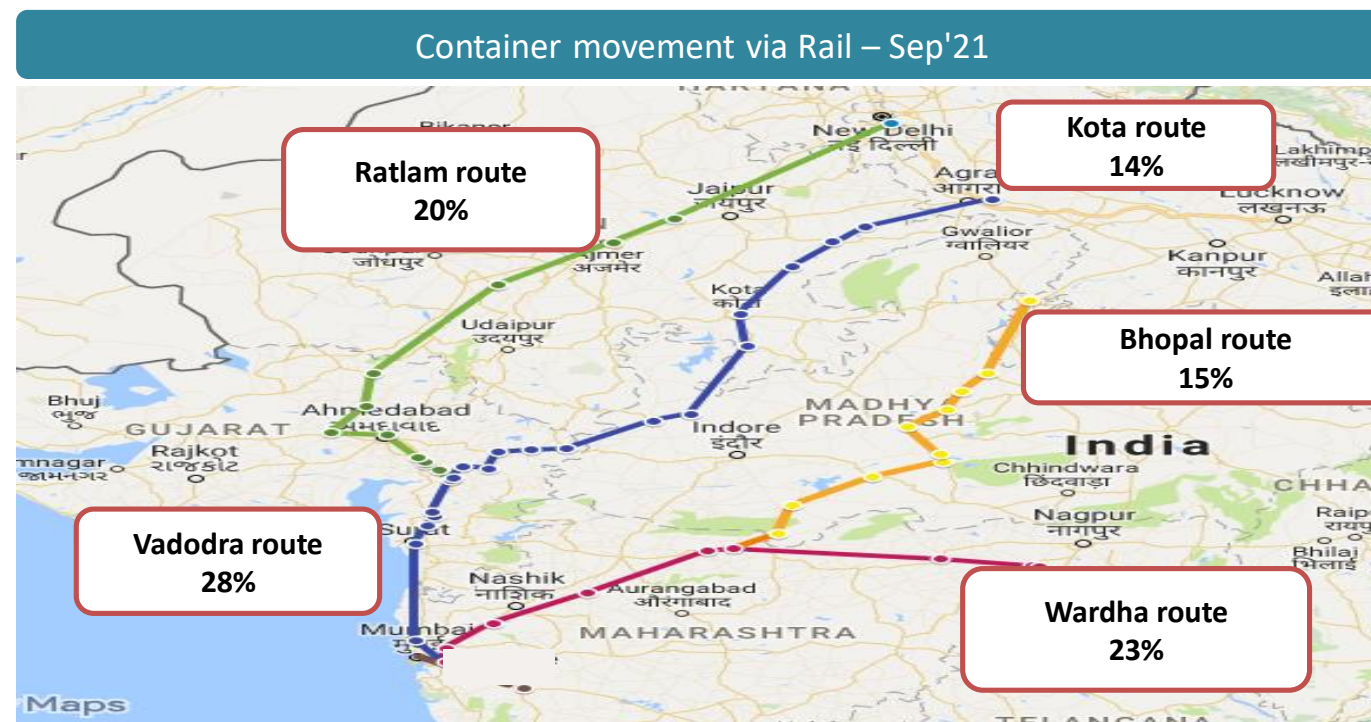
BMCT Terminal

Congestion Level
Export Cycle :- [Red bar]

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	28%
Ratlam Route	20%
Wardha Route	23%
Kota Route	14%
Bhopal Route	15%

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



CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

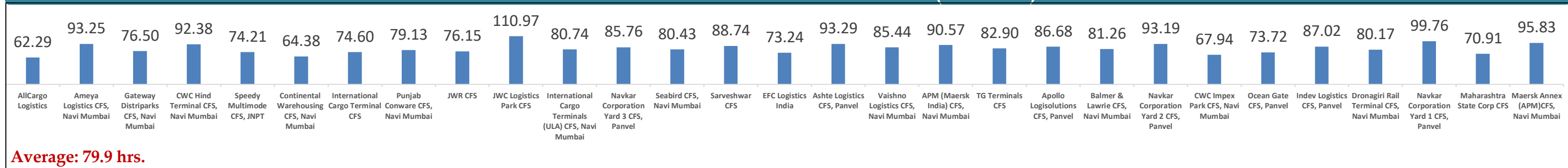
Below table and graphs show the dwell time of the respective CFSs for the month of Sep'21

CFS Dwell Time (in hrs.)

CFS	Aug'21 (in hrs)	Sep'21 (in hrs)
AllCargo Logistics	68.22	62.29
Ameya Logistics CFS, Navi Mumbai	87.05	93.25
Gateway Distriparks CFS, Navi Mumbai	76.27	76.50
CWC Hind Terminal CFS, Navi Mumbai	99.46	92.38
Speedy Multimode CFS, JNPT	87.68	74.21
Continental Warehousing CFS, Navi Mumbai	68.34	64.38
International Cargo Terminal CFS	73.13	74.60
Punjab Conware CFS, Navi Mumbai	79.79	79.13
JWR CFS	73.93	76.15
JWC Logistics Park CFS	79.69	110.97
International Cargo Terminals (ULA) CFS, Navi Mumbai	79.46	80.74
Navkar Corporation Yard 3 CFS, Panvel	83.37	85.76
Seabird CFS, Navi Mumbai	81.76	80.43
Sarveshwar CFS	85.18	88.74
EFC Logistics India	71.90	73.24

CFS	Aug'21 (in hrs)	Sep'21 (in hrs)
Ashte Logistics CFS, Panvel	86.19	93.29
Vaishno Logistics CFS, Navi Mumbai	85.34	85.44
APM (Maersk India) CFS, Navi Mumbai	95.60	90.57
TG Terminals CFS	73.78	82.90
Apollo Logisolutions CFS, Panvel	86.64	86.68
Balmer & Lawrie CFS, Navi Mumbai	93.49	81.26
Navkar Corporation Yard 2 CFS, Panvel	105.28	93.19
CWC Impex Park CFS, Navi Mumbai	73.29	67.94
Ocean Gate CFS, Panvel	92.78	73.72
Indev Logistics CFS, Panvel	78.17	87.02
Dronagiri Rail Terminal CFS, Navi Mumbai	88.46	80.17
Navkar Corporation Yard 1 CFS, Panvel	110.97	99.76
Maharashtra State Corp CFS	72.73	70.91
Maersk Annex (APM)CFS, Navi Mumbai	89.86	95.83

CFS - DWELL OVERVIEW - SEP'21 (IN HRS)

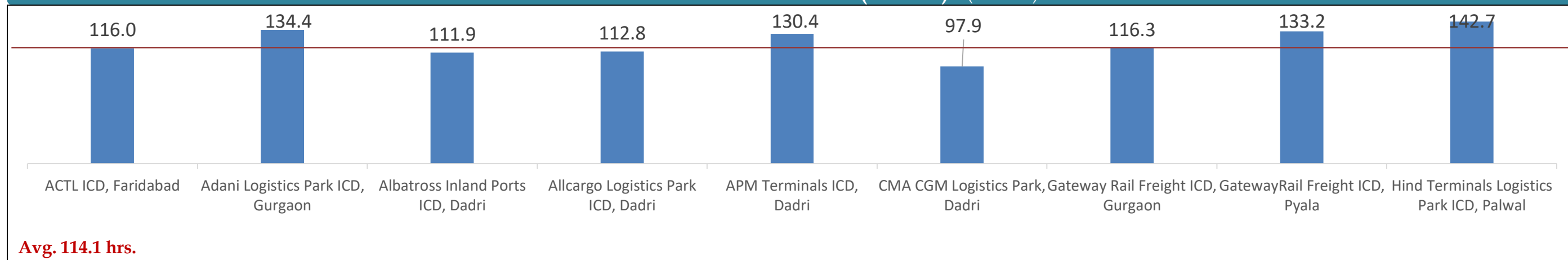


ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Aug'21 (in hrs)	Sep'21 (in hrs)
ACTL ICD, Faridabad	123.0	116.0
Adani Logistics Park ICD, Gurgaon	119.8	134.4
Albatross Inland Ports ICD, Dadri	128.0	111.9
Allcargo Logistics Park ICD, Dadri	111.3	112.8
APM Terminals ICD, Dadri	134.3	130.4
CMA CGM Logistics Park, Dadri	92.9	97.9
Gateway Rail Freight ICD, Gurgaon	106.3	116.3
GatewayRail Freight ICD, Pyala	141.1	133.2
Hind Terminals Logistics Park ICD, Palwal	120.1	142.7

ICD - DWELL OVERVIEW (SEP'21) (In Hrs)

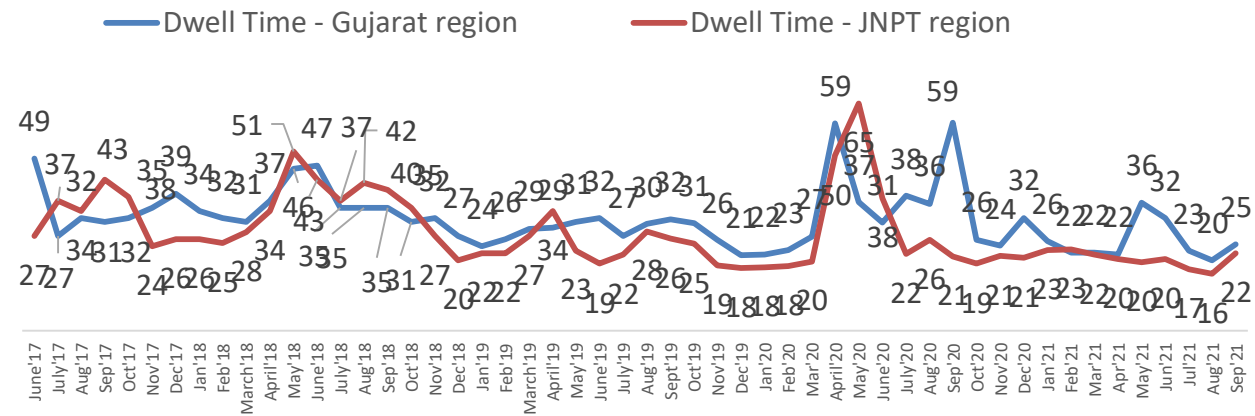


Trend Analysis

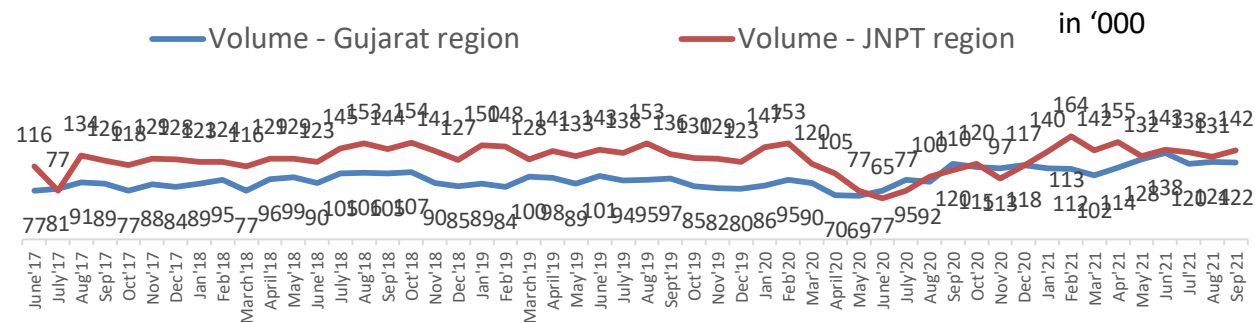
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Sep'21

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



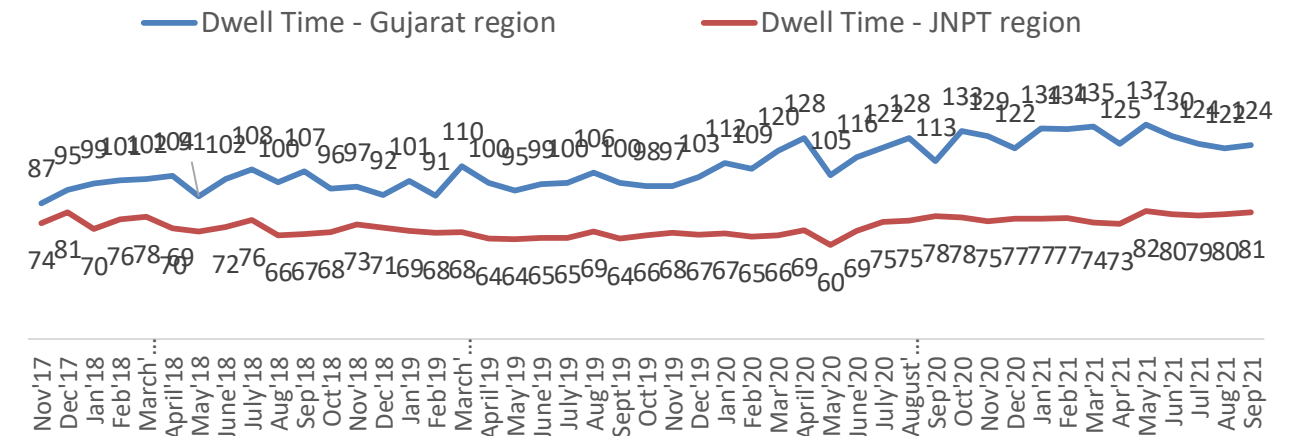
Volume – Gujarat Region Vs JNPT Region



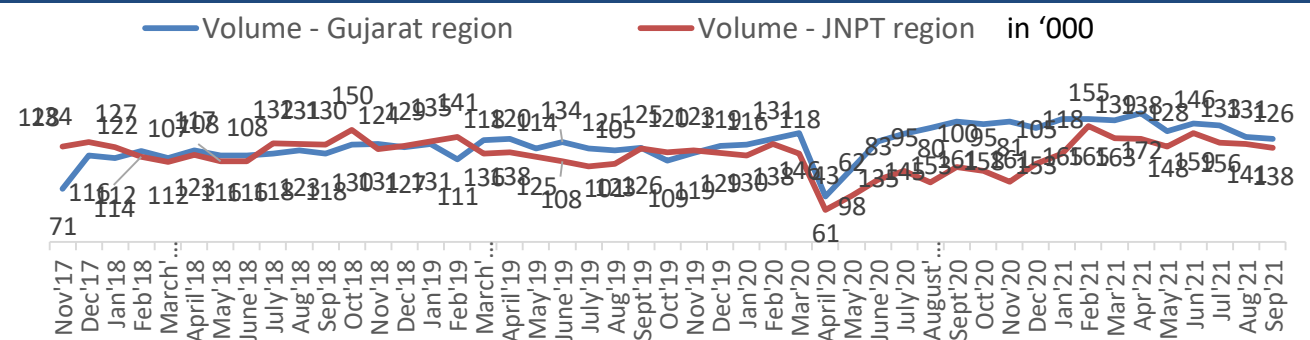
In Import cycle, for the month of Sep'21 APSEZ port has catered 17% less volume than JNPT Port, and has maintained 10% higher dwell time than JNPT Port.

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

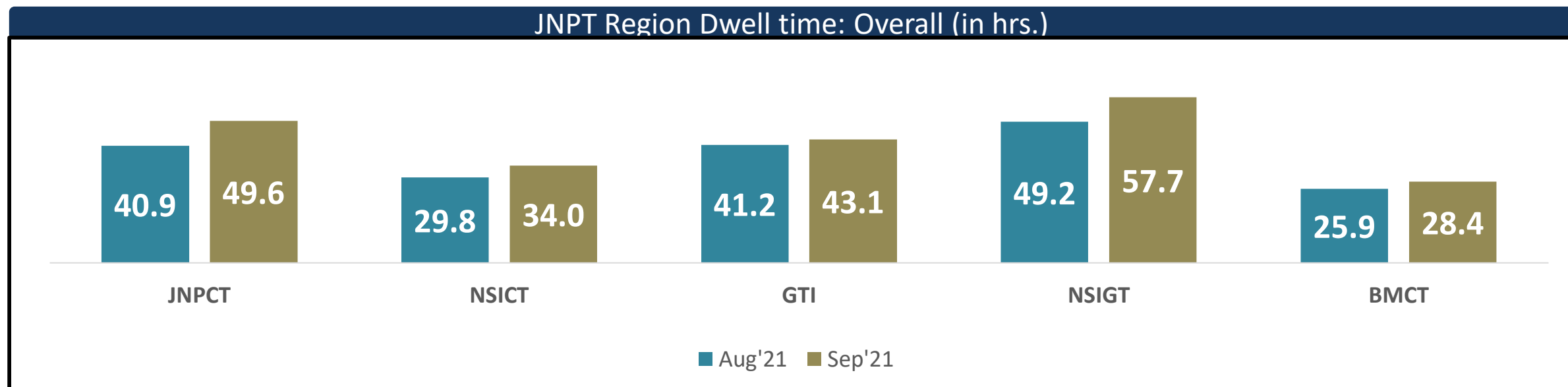


In Export cycle, for the month Sep'21 JNPT port catered 9% less volume than APSEZ Port, and has maintained 35% lower dwell time than APSEZ Port

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

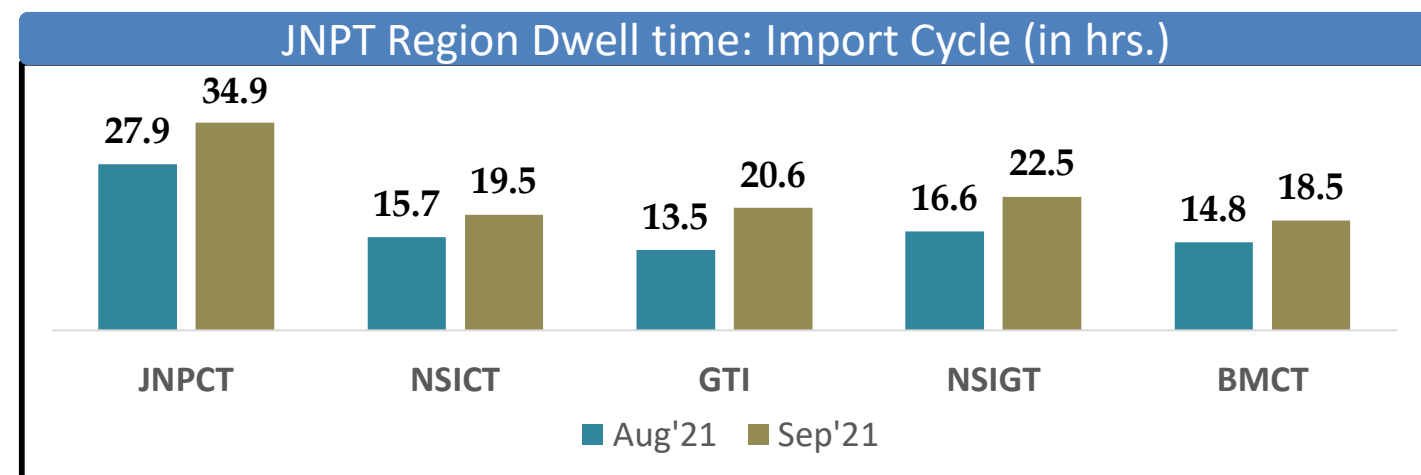


The overall JNPT region average dwell time for Sep'21 is 43.0 hrs as compared to 37.3 hrs in Aug'21

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

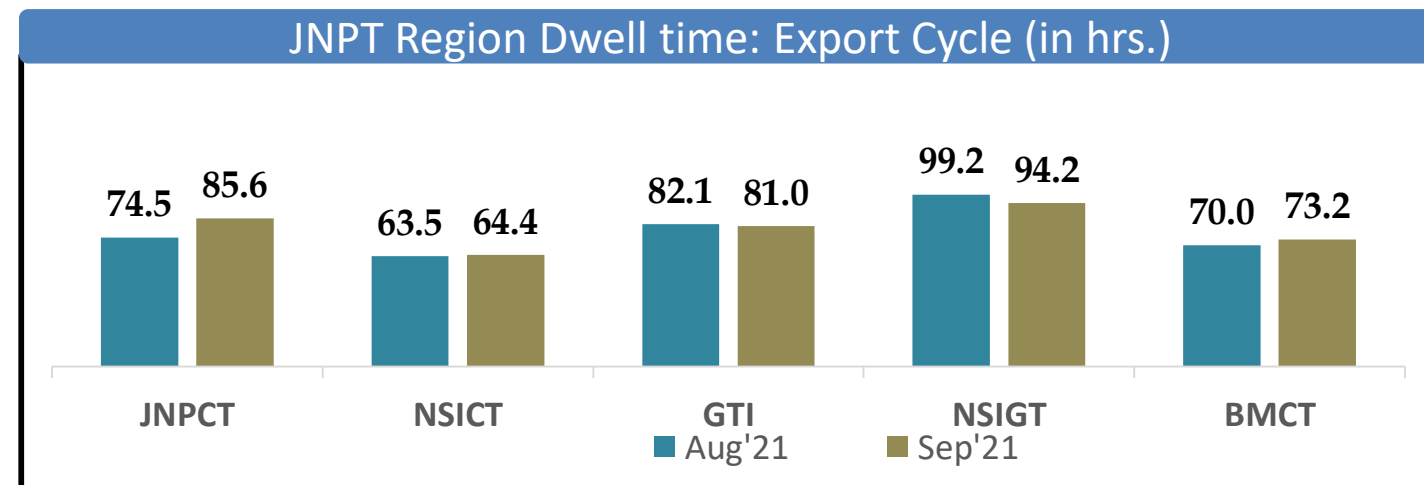
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Sep'21 is 22.0 hrs.



JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Sep'21 is 80.8 hrs.

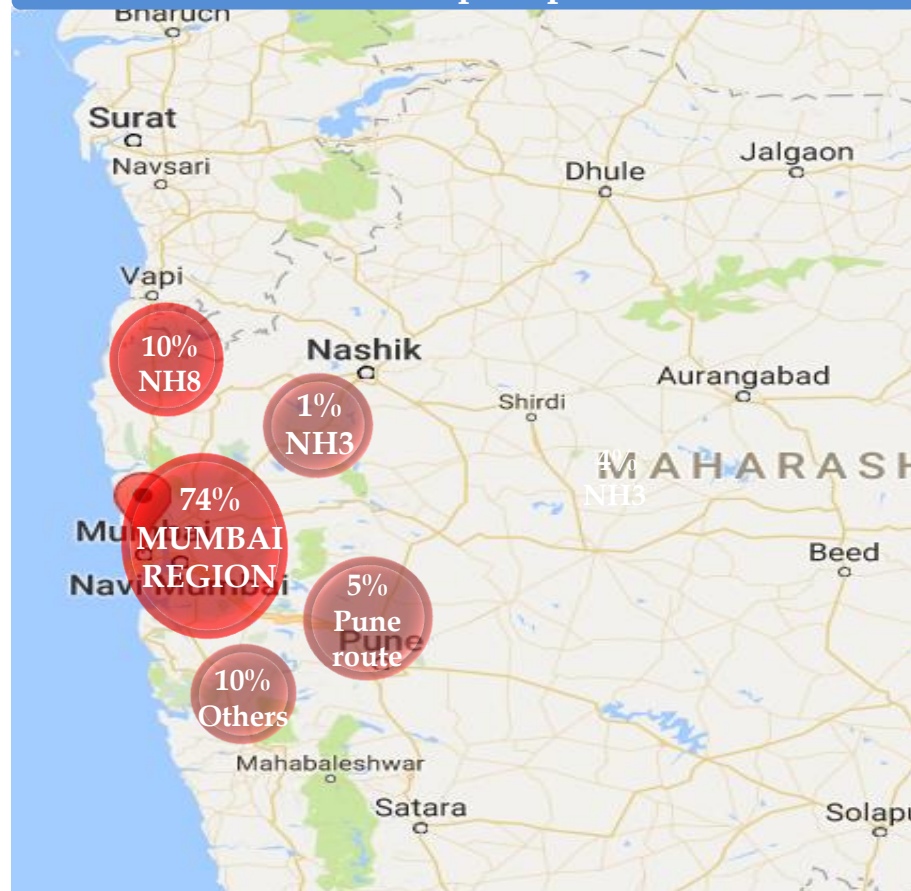


ANNEXURE

Container movement around JNPT Port terminal region via Truck

HEAT MAP : GTI Port Terminal

Heat Map : Sep'21

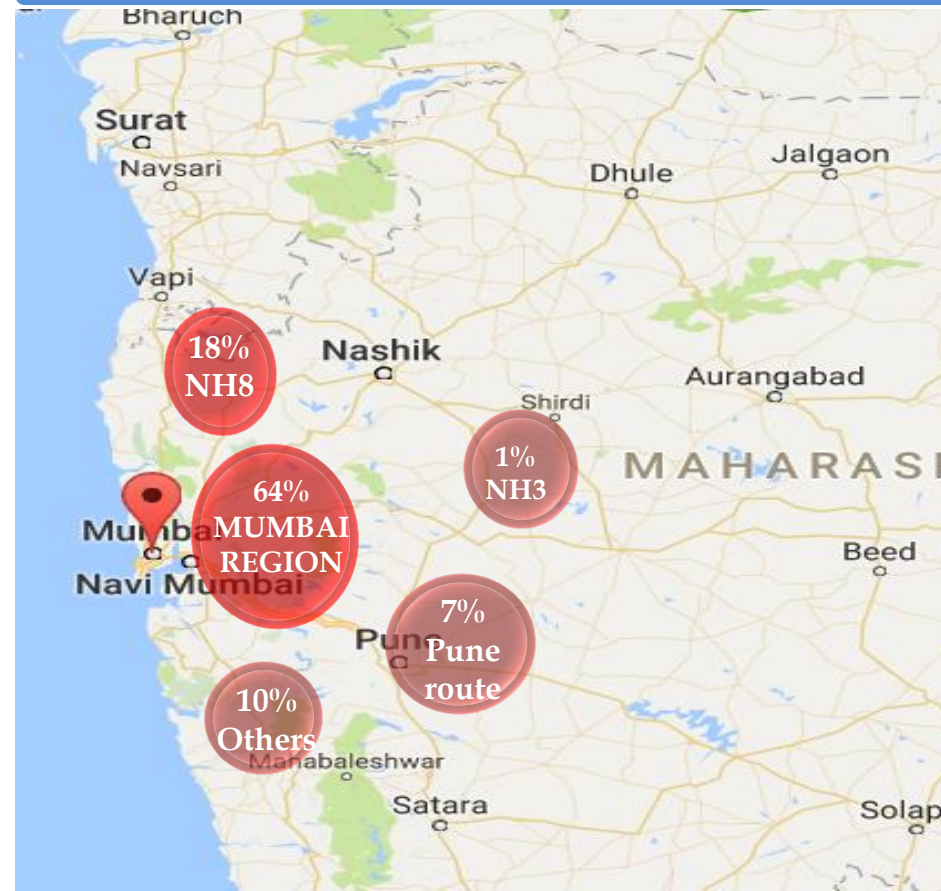


Region	Aug'21	Sep'21
Mumbai region	77%	74%
NH3	1%	1%
Pune	4%	5%
NH8	8%	10%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal

Heat Map : Sep'21

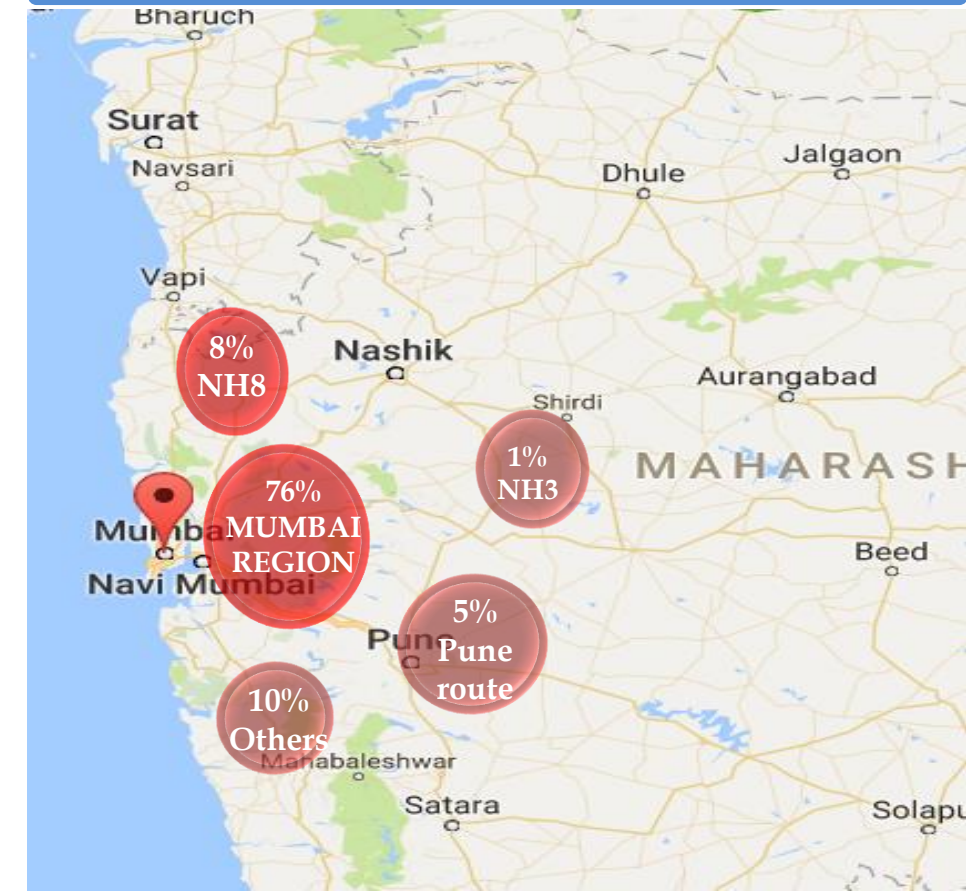


Region	Aug'21	Sep'21
Mumbai region	70%	64%
NH3	1%	1%
Pune	6%	7%
NH8	13%	18%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal

Heat Map : Sep'21



Region	Aug'21	Sep'21
Mumbai region	77%	76%
NH3	1%	1%
Pune	5%	5%
NH8	7%	8%
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	Aug'21	Sep'21
Mumbai region	76%	76%
NH3	1%	1%
Pune	5%	5%
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	Aug'21	Sep'21
Mumbai region	71%	72%
NH3	1%	1%
Pune	6%	5%
NH8	12%	12%
others	10%	10%

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

CFS - AVERAGE DELIVERY TIME – all CFS in Mumbai TO JNPT Port

Below table shows the delivery time in export cycle from the CFS's to PORT terminals

For Sep'21					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	1.8	2.9	2.4	2.9	1.8
Punjab Conware CFS, Navi Mumbai	1.9	4.5	2.4	2.9	2.4
JWC Logistics Park CFS	2.6	4.2	3.2	3.6	3.3
CWC Hind Terminal CFS, Navi Mumbai	1.9	3.3	3.6	1.9	2.3
Dronogiri Rail Terminal CFS, Navi Mumbai	2.4	4.6	2.1	3.1	1.7
Navkar Corporation Yard 2 CFS, Panvel	5.3	7.3	5.0	5.7	4.6
Vaishno Logistics CFS, Navi Mumbai	3.3	3.8	3.0	3.4	2.9
Speedy Multimode CFS, JNPT	1.8	3.0	2.4	2.6	2.3
Balmer & Lawrie CFS, Navi Mumbai	3.3	6.8	4.1	1.6	1.9
Navkar Corporation Yard 3 CFS, Panvel	4.0	6.0	4.4	4.5	4.0
Ashte Logistics CFS, Panvel	2.9	6.4	3.3	3.1	3.2
Continental Warehousing CFS, Navi Mumbai	1.7	3.8	1.8	1.8	2.9
SBW Logistics CFS, Navi Mumbai	11.0	13.8	4.8	12.3	11.7
Maharashtra State Corp CFS	2.5	3.0	2.5	3.2	1.8
Internation Cargo Terminal CFS	1.9	3.0	3.9	2.2	2.8
Seabird CFS, Navi Mumbai	1.6	3.8	2.7	2.7	1.5
Apollo Logisolutions CFS, Panvel	3.5	4.6	3.4	3.3	3.9
Ameya Logistics CFS, Navi Mumbai	2.0	3.2	2.9	3.0	2.3
Transindia Logistics Park, Navi Mumbai	1.4	3.5	3.0	2.4	3.0
Ocean Gate CFS, Panvel	7.2	3.7	3.0	2.9	2.9
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.8	5.1	4.0	2.3	2.7
Indev Logistics CFS, Panvel	2.9	5.0	5.4	5.1	4.0
CWC Dronagiri CFS, Navi Mumbai	-	22.3	3.2	-	1.5
APM (Maersk India) CFS, Navi Mumbai	2.0	2.8	2.1	1.4	2.7

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	Sep'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.4
Indev Logistics CFS, Panvel	3.4
Navkar Corporation Yard 3 CFS, Panvel	4.0
Seabird CFS, Navi Mumbai	2.6
Balmer & Lawrie CFS, Navi Mumbai	2.2
Ashte Logistics CFS, Panvel	3.8
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	3.2
Navkar Corporation Yard 1 CFS, Panvel	4.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.3
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	2.1
Apollo Logisolutions CFS, Panvel	3.5
Navkar Corporation Yard 2 CFS, Panvel	3.8
Punjab Conware CFS, Navi Mumbai	2.3
Vaishno Logistics CFS, Navi Mumbai	2.8
JWC Logistics Park CFS	2.9
SBW Logistics CFS, Navi Mumbai	3.0
Ocean Gate CFS, Panvel	3.6
Maharashtra State Corp CFS	18.9

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	Sep'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.0
APM (Maersk India) CFS, Navi Mumbai	1.6
Internation Cargo Terminal CFS	1.7
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.1
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	3.5
Seabird CFS, Navi Mumbai	2.0
Balmer & Lawrie CFS, Navi Mumbai	1.6
Ashte Logistics CFS, Panvel	3.0
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	3.4
Navkar Corporation Yard 1 CFS, Panvel	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	3.7
Navkar Corporation Yard 2 CFS, Panvel	3.2
Punjab Conware CFS, Navi Mumbai	2.4
Vaishno Logistics CFS, Navi Mumbai	2.0
JWC Logistics Park CFS	3.1
SBW Logistics CFS, Navi Mumbai	4.0
Ocean Gate CFS, Panvel	3.3
Maharashtra State Corp CFS	1.3

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	Sep'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	2.0
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	2.8
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	2.3
Balmer & Lawrie CFS, Navi Mumbai	2.2
Ashte Logistics CFS, Panvel	3.3
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	8.2
Navkar Corporation Yard 1 CFS, Panvel	5.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	3.4
Apollo Logisolutions CFS, Panvel	4.1
Navkar Corporation Yard 2 CFS, Panvel	5.3
Punjab Conware CFS, Navi Mumbai	3.8
Vaishno Logistics CFS, Navi Mumbai	3.1
JWC Logistics Park CFS	4.0
SBW Logistics CFS, Navi Mumbai	3.5
Ocean Gate CFS, Panvel	3.4
Maharashtra State Corp CFS	25.9

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	Sep'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	1.7
Ameya Logistics CFS, Navi Mumbai	1.7
Transindia Logistics Park, Navi Mumbai	2.1
Indev Logistics CFS, Panvel	3.9
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	1.9
Balmer & Lawrie CFS, Navi Mumbai	4.0
Ashte Logistics CFS, Panvel	3.1
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	17.8
Navkar Corporation Yard 1 CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	2.0
Speedy Multimode CFS, JNPT	5.3
Apollo Logisolutions CFS, Panvel	3.7
Navkar Corporation Yard 2 CFS, Panvel	3.5
Punjab Conware CFS, Navi Mumbai	3.5
Vaishno Logistics CFS, Navi Mumbai	2.6
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	3.7
Ocean Gate CFS, Panvel	2.6
Maharashtra State Corp CFS	7.4

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	Sep'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	2.8
Seabird CFS, Navi Mumbai	2.1
Balmer & Lawrie CFS, Navi Mumbai	1.5
Ashte Logistics CFS, Panvel	3.2
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	1.8
Navkar Corporation Yard 1 CFS, Panvel	3.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	2.1
Speedy Multimode CFS, JNPT	2.0
Apollo Logisolutions CFS, Panvel	2.6
Navkar Corporation Yard 2 CFS, Panvel	2.2
Punjab Conware CFS, Navi Mumbai	2.7
Vaishno Logistics CFS, Navi Mumbai	3.0
JWC Logistics Park CFS	3.3
SBW Logistics CFS, Navi Mumbai	2.6
Ocean Gate CFS, Panvel	2.9
Maharashtra State Corp CFS	27.8

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 Sep'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	2.1	3.0
Cluster 2	6	13	1.9	3.2
Cluster 3	6	11	2.9	4.2
Cluster 4	1	13	2.8	3.8
Cluster 5	2	25	3.2	3.9
Cluster 6	6	25	3.8	6.0
Cluster 7	4	12	1.9	3.5
Cluster 8	1	34	3.0	13.8

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Sep'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	1.7	1.8
Cluster 2	6	13	1.7	2.0
Cluster 3	6	11	2.2	2.1
Cluster 4	1	13	2.0	3.3
Cluster 5	2	25	3.2	4.9
Cluster 6	6	25	3.2	3.5
Cluster 7	4	12	1.9	1.7
Cluster 8	1	34	4.0	11.0

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

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

CFS Cluster : NSIGT Terminal

CFS Cluster : BMCT Terminal

NSICT terminal for month of Sep'21

NSIGT terminal for month of Sep'21






BMCT terminal for month of Sep'21

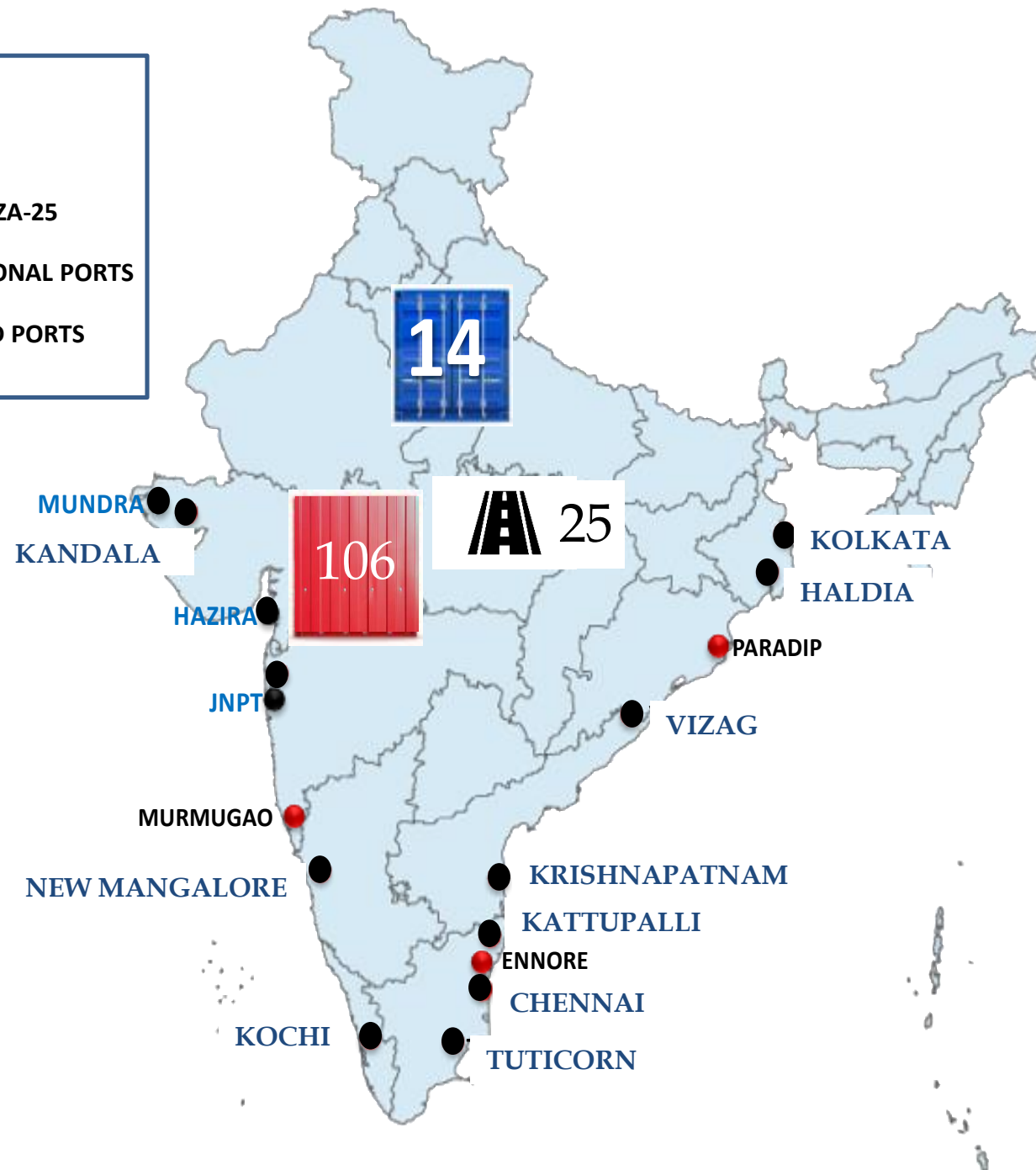
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	3.4	2.4
Cluster 2	6	13	2.0	3.7
Cluster 3	6	11	6.0	2.5
Cluster 4	1	13	3.1	3.0
Cluster 5	2	25	3.7	3.1
Cluster 6	6	25	3.9	4.4
Cluster 7	4	12	1.9	2.9
Cluster 8	1	34	3.5	4.8

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	5.3	2.6
Cluster 2	6	13	2.2	2.1
Cluster 3	6	11	2.0	3.0
Cluster 4	1	13	2.6	3.4
Cluster 5	2	25	2.7	3.3
Cluster 6	6	25	3.7	4.5
Cluster 7	4	12	1.7	2.4
Cluster 8	1	34	3.7	12.3

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	2.3
Cluster 2	6	13	1.9	2.5
Cluster 3	6	11	2.0	1.8
Cluster 4	1	13	3.0	2.9
Cluster 5	2	25	3.1	3.1
Cluster 6	6	25	3.0	4.0
Cluster 7	4	12	2.0	2.9
Cluster 8	1	34	2.6	11.7

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

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



Below mentioned are all the CFS in the respective Clusters :

<p>Cluster 1 (JNPT Area)</p> <ul style="list-style-type: none"> Speedy Multimode CFS, JNPT 	<p>Cluster 3 Sonari area, JNPT road</p> <ul style="list-style-type: none"> 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 	<p>Cluster 6 (Salva apta rd area, Bangalore highway)</p> <ul style="list-style-type: none"> 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
<p>Cluster 2 (Bhendkhal area, Khopate road)</p> <ul style="list-style-type: none"> 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 	<p>Cluster 4 (Chirle area, JNPT road)</p> <ul style="list-style-type: none"> Vaishno Logistics CFS, Navi Mumbai 	<p>Cluster 7 (Patilpada area, Khopate JNPT road)</p> <ul style="list-style-type: none"> All Cargo Logistics CFS, Navi Mumbai Transindia Logistics Park, Navi Mumbai Ameya Logistics CFS, Navi Mumbai Continental Warehousing CFS, Navi Mumbai
	<p>Cluster 5 (Plaspa area, Coachi kanyakumari Highway)</p> <ul style="list-style-type: none"> JWC Logistics Park CFS Ocean Gate CFS, Panvel 	
	<p>Cluster 8 SBW</p>	

List of CFS name used in CFS Performance Index

1	AllCargo Logistics
2	Ameya Logistics CFS, Navi Mumbai
3	Gateway Distriparks CFS, Navi Mumbai
4	Adani CFS, Hazira
5	CWC Hind Terminal CFS, Navi Mumbai
6	Speedy Multimode CFS, JNPT
7	Saurashtra CFS, Mundra
8	Continental Warehousing CFS, Navi Mumbai
9	International Cargo Terminal CFS
10	Punjab Conware CFS, Navi Mumbai
11	JWR CFS
12	Hind Terminals Pvt. Ltd. CFS, Mundra
13	JWC Logistics Park CFS
14	Adani CFS Eximyard, Mundra
15	MICT CFS, Mundra
16	CWC CFS, Mundra
17	International Cargo Terminals (ULA) CFS, Navi Mumbai
18	Navkar Corporation Yard 3 CFS, Panvel
19	Seabird CFS, Navi Mumbai
20	Sarveshwar CFS
21	EFC Logistics India
22	Honey Comb CFS, Mundra
23	Ashte Logistics CFS, Panvel
24	Seabird CFS, Mundra

25	TG Terminals CFS, Mundra
26	Vaishno Logistics CFS, Navi Mumbai
27	Ashutosh CFS, Mundra
28	APM (Maersk India) CFS, Navi Mumbai
29	TG Terminals CFS
30	Landmark CFS, Mundra
31	Hind Terminal CFS, Hazira
32	Apollo Logisolutions CFS, Panvel
33	Seabird CFS, Hazira
34	Balmer & Lawrie CFS, Navi Mumbai
35	Rishi CFS, Mundra
36	Navkar Corporation Yard 2 CFS, Panvel
37	CWC Impex Park CFS, Navi Mumbai
38	AllCargo CFS, Mundra
39	Ocean Gate CFS, Panvel
40	Mundhra CFS, Mundra
41	Indev Logistics CFS, Panvel
42	Dronagiri Rail Terminal CFS, Navi Mumbai
43	A V Joshi CFS
44	Navkar Corporation Yard 1 CFS, Panvel
45	Transworld CFS, Mundra
46	Empezar Logistics CFS
47	Maharashtra State Corp CFS
48	Maersk Annex (APM)CFS, Navi Mumbai



THANK YOU