



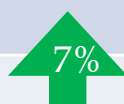

Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Jul'21 (in hrs)	Aug'21 (in hrs)	Port	Jul'21 (in hrs)	Aug'21 (in hrs)
JNPCT	28.16	27.88	JNPCT	66.40	74.45
NSICT	19.22	15.67	NSICT	63.77	63.47
GTI	14.53	13.50	GTI	85.13	82.05
NSIGT	17.07	16.58	NSIGT	94.15	99.18
BMCT/PSA	15.63	14.77	BMCT/PSA	72.68	70.00

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- Container handling performance has improved in Import Cycle and deteriorated in Export Cycle 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
Aug'21	16.1 hrs 	79.5 hrs 	81.5 hrs 	117.7 hrs 
Jul'21	17.4 hrs	78.9 hrs	87.4 hrs	124.4 hrs

Port Dwell Time

IMPORT

Mode	Jul'21 (in hrs)	Aug'21 (in hrs)
Overall	19.8	18.2
Truck	16.8	15.7
Train	46.4	39.6

EXPORT

Mode	Jul'21 (in hrs)	Aug'21 (in hrs)
Overall	96.7	96.6
Truck	92.0	92.9
Train	127.0	119.6

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



Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Jul'21 (in hrs)	Aug'21 (in hrs)
CFS	89.5	82.5
ICD	124.4	117.7

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

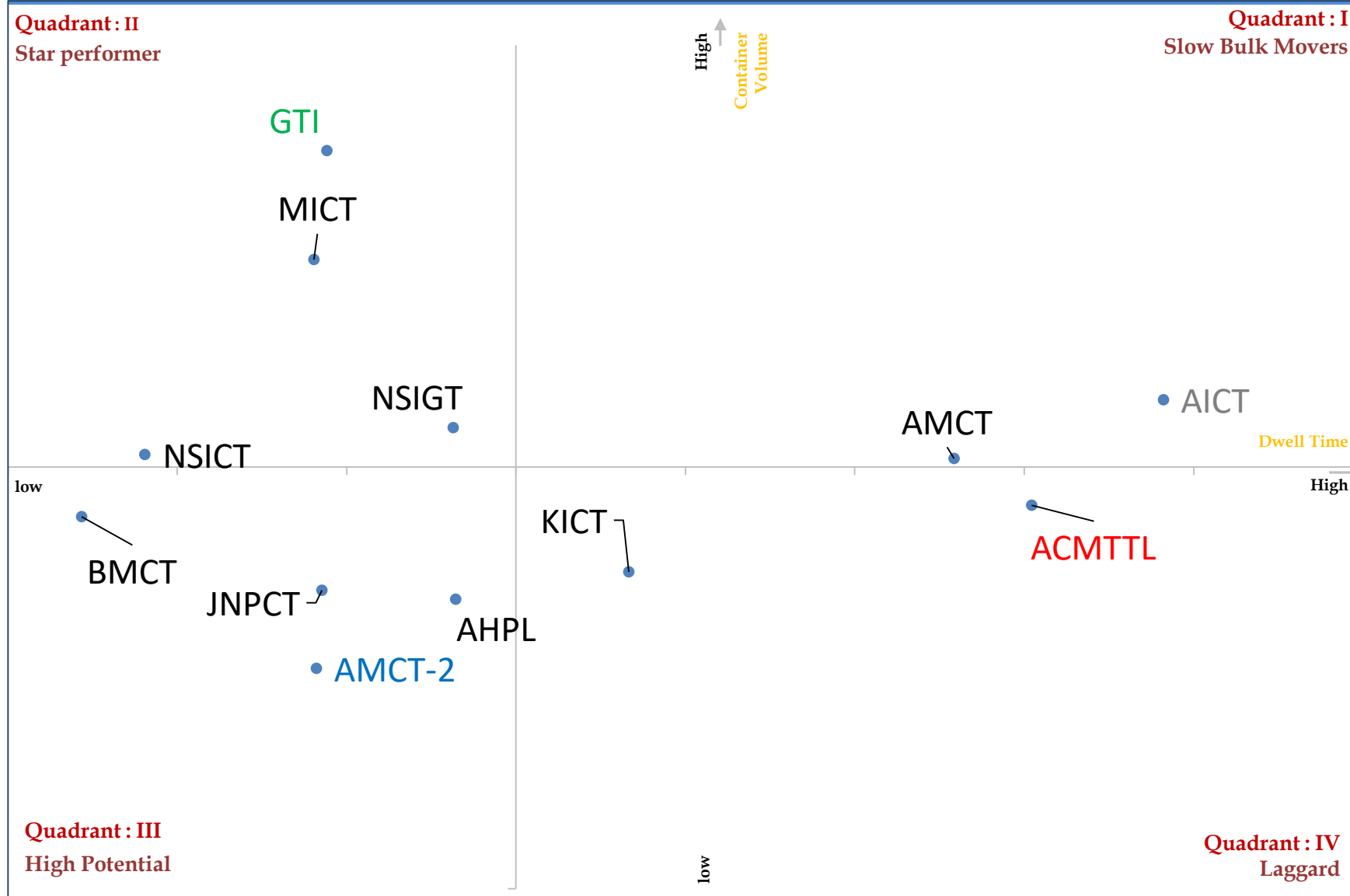
The marked entries showcase decrease in performance in comparison to Jul'21



Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index - Aug'21



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

Top Performing Terminal

Gateway Terminals India (GTI)

Jul'21	Aug'21
39.5 Hrs	41.2 Hrs. ↓

Low Performing Terminal

Adani CMA Mundra Terminal (ACMTTL)

Jul'21	Aug'21
104.3 Hrs	85.5 Hrs ↑

Note: The performance benchmarking is based on performance index



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

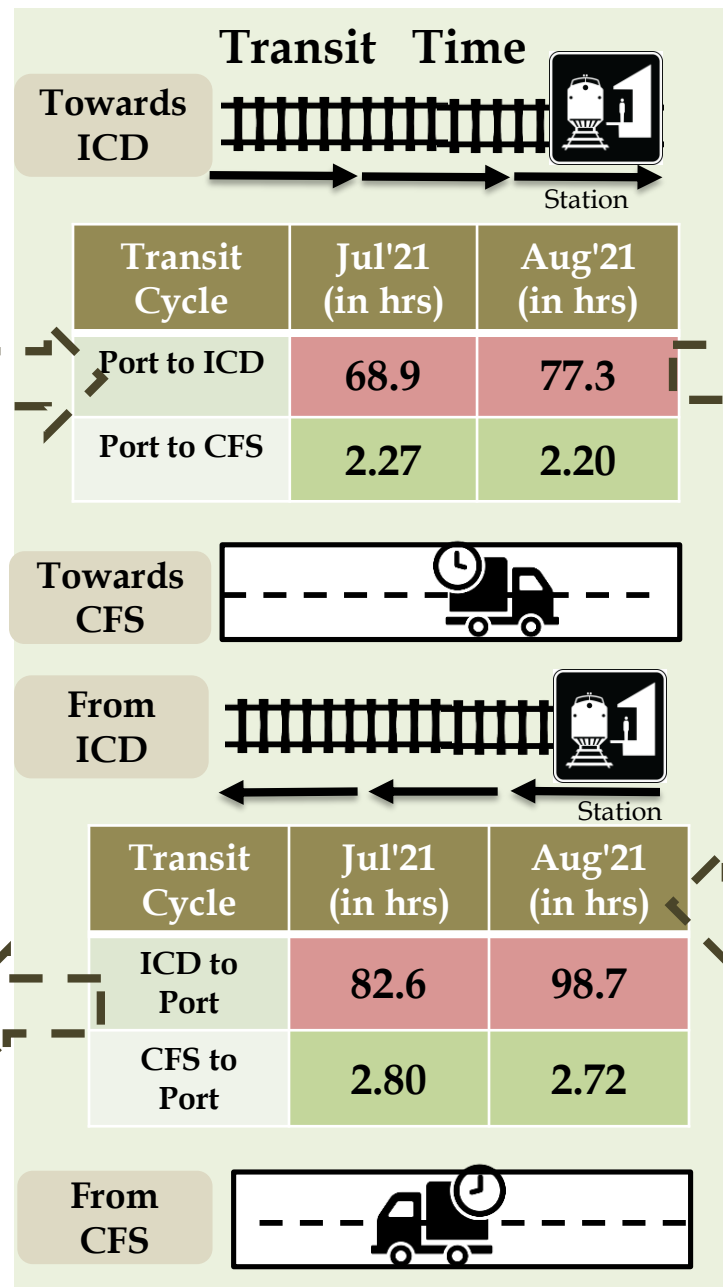
IMPORT

Port Dwell Time

Mode	Jul'21 (in hrs)	Aug'21 (in hrs)
Overall	17.4	16.1
Truck	16.0	14.8
Train	28.2	26.5

EXPORT

Mode	Jul'21 (in hrs)	Aug'21 (in hrs)
Overall	78.9	79.5
Truck	77.7	79.0
Train	90.3	83.3



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

Entity	Jul'21 (in hrs)	Aug'21 (in hrs)
CFS	87.4	81.5
ICD	124.4	117.7

Volume distribution at port terminal - Truck/Rail

	Truck	Rail
Import	83%	17%
Export	78%	22%

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (Aug'21 - in hrs)			Compared to Jul'21
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	16.1	7% ↑
	Port Dwell Time for Truck Bound Containers	14.8	8% ↑
	Port Dwell time for Train Bound Containers	26.5	6% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	34.2	7% ↑
	Port Dwell time Containers bound for CFS	13.0	10% ↑
	Port Dwell for Empty Containers	20.7	14% ↑
	Port Dwell for Laden Containers	15.2	5% ↑
TRANSIT TIME	Port to ICD	77.3	12% ↓
	Port to CFS	2.20	3% ↑

EXPORT CYCLE DWELL TIME (Aug'21- in hrs)			Compared to Jul'21
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	79.5	1% ↓
	Port Dwell Time for Truck Bound Containers	79.0	2% ↓
	Port Dwell time for Train Bound Containers	83.3	8% ↑
	Port Dwell time Direct Port Entry (DPE) containers	81.7	0.4% ↓
	Port Dwell time Containers bound from CFS	79.9	2% ↓
	Port Dwell for Empty Containers	69.1	5% ↓
	Port Dwell for Laden Containers	81.8	0.1% ↓
TRANSIT TIME	ICD to Port	98.7	19% ↓
	CFS to Port	2.72	3% ↑

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

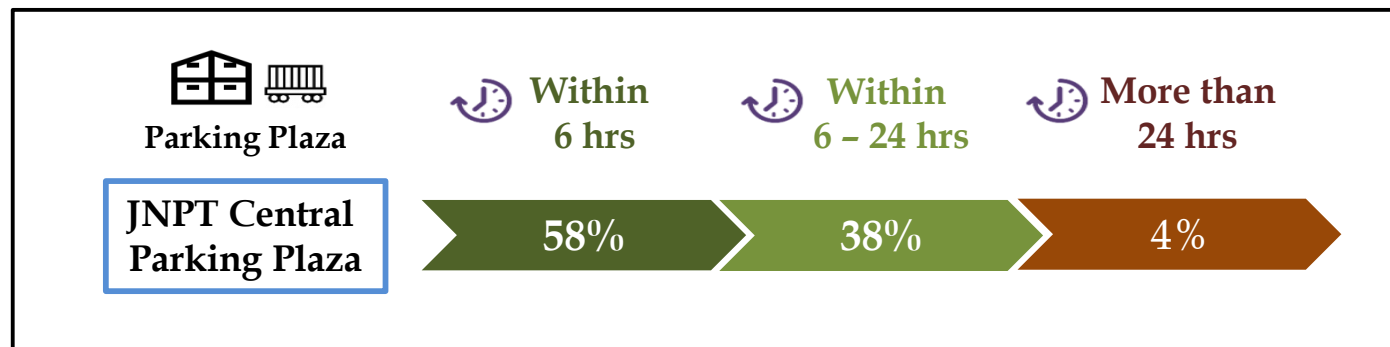
The below table depicts the Parking Plaza & Parking Plaza to Port Transit Performance at JNPT Port Terminals and their volume bifurcation in export cycle



Parking Plaza Gate In - Gate Out

Mode	Jul'21 (in hrs)	Aug'21 (in hrs)
Overall Parking Plaza	6.1	5.2

Container Handled: Day wise (Aug'21)

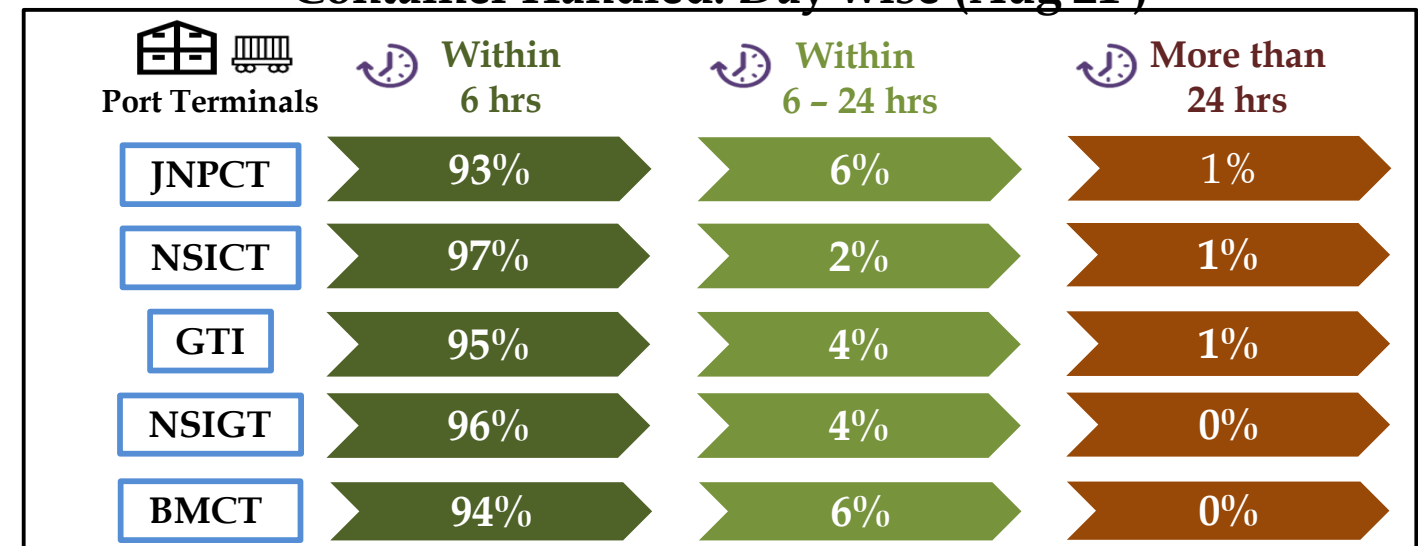


Parking Plaza Gate Out - Terminal In

Mode	Jul'21 (in hrs)	Aug'21 (in hrs)
Overall Parking Plaza to JNPT Port	1.19	1.08

Port	Jul'21 (in hrs)	Aug'21 (in hrs)
JNPCT	1.3	1.3
NSICT	0.8	0.7
GTI	0.9	0.9
NSIGT	1.0	0.9
BMCT	2.4	2.4

Container Handled: Day wise (Aug'21)





Performance Benchmarking



Top Performing CFS

AllCargo Logistics	
Jul'21	Aug'21
79.2 hrs	68.2 hrs ↑

Low Performing CFS

Hind Terminals CFS, Hazira	
Jul'21	Aug'21
103.7 hrs.	125.5 hrs ↓

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

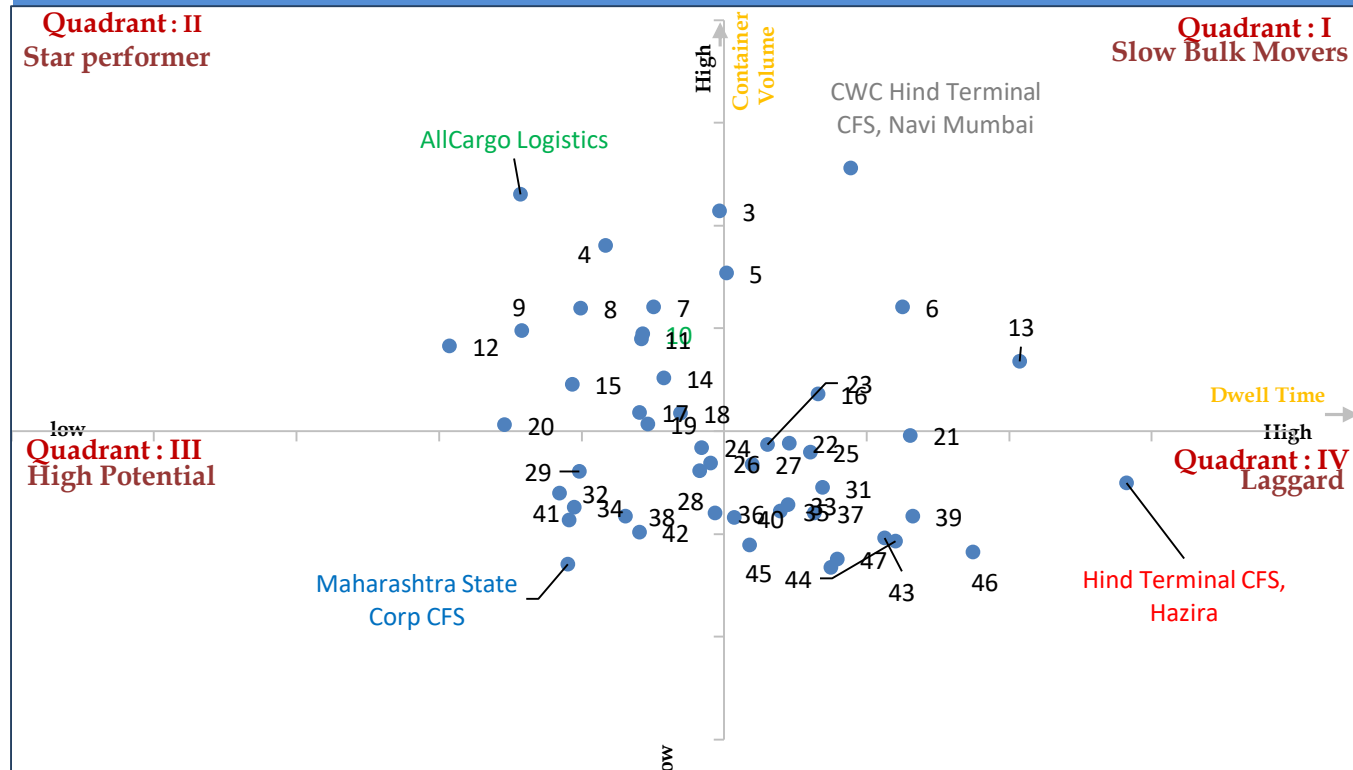
Top Performing ICD

Gateway Rail Freight ICD, Gurgaon	
Jul'21	Aug'21
102.9 hrs	106.3 hrs ↓

Low Performing ICD

Gateway Rail Freight ICD, Pyala	
Jul'21	Aug'21
143.1 hrs	141.1 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

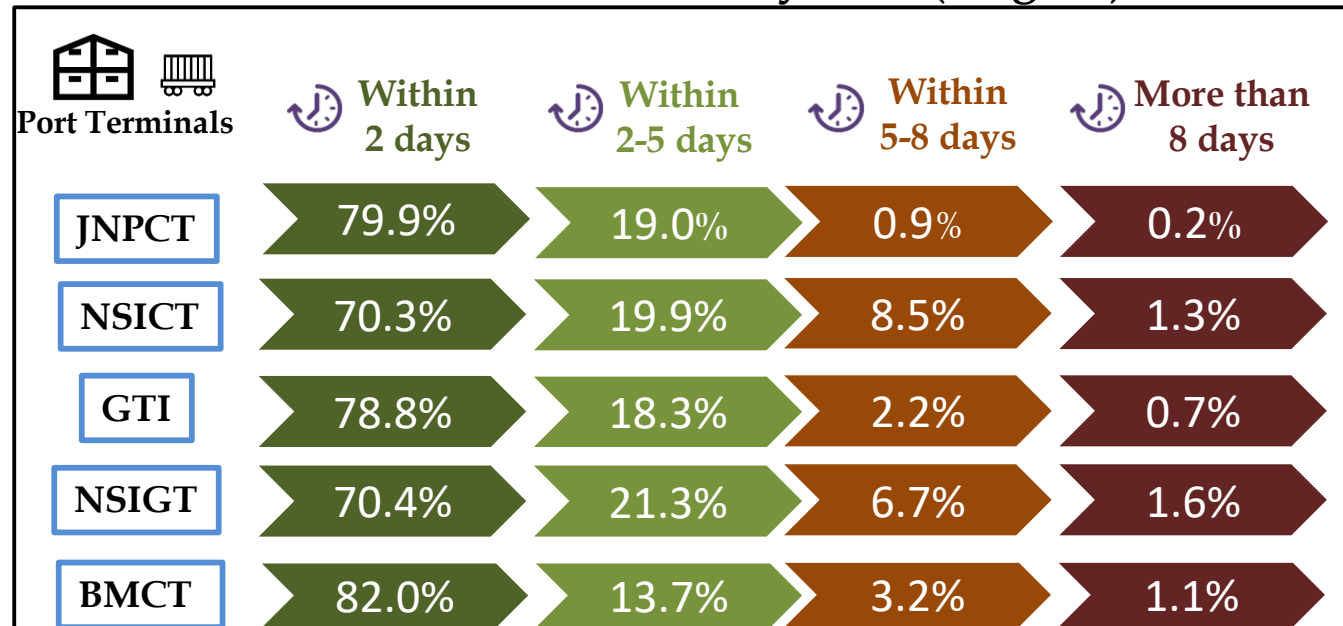
PORT IMPORT via TRAIN

(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	Jul'21 (in hrs)	Aug'21 (in hrs)
JNPCT	35.3	28.8
NSICT	27.2	27.6
GTI	27.6	24.5
NSIGT	37.2	32.9
BMCT	19.7	21.9

Container Handled: Day wise (Aug'21)



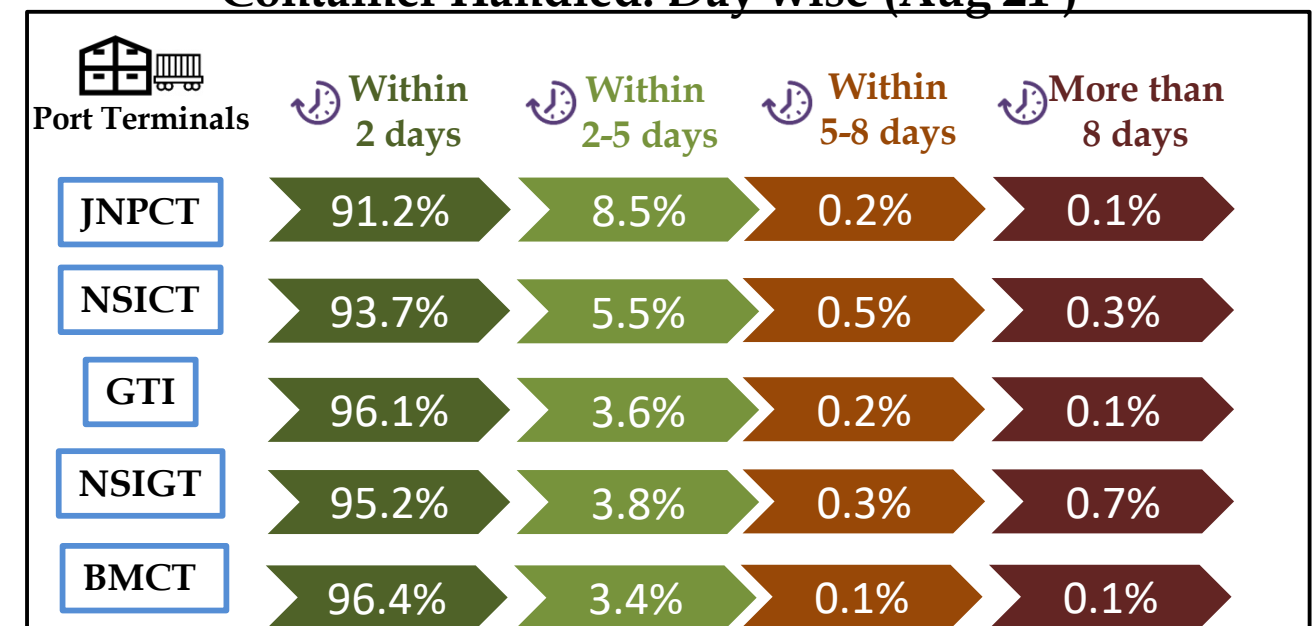
PORT IMPORT via TRUCK

(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	Jul'21 (in hrs)	Aug'21 (in hrs)
JNPCT	27.3	27.8
NSICT	18.0	14.5
GTI	12.8	12.1
NSIGT	15.4	14.6
BMCT	15.2	14.2

Container Handled: Day wise (Aug'21)



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

JNPCT		
Port Dwell time based on transit type		
Aug'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	33.0 hrs	26.8 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	27.2 hrs	31.4 hrs

GTI		
Port Dwell time based on transit type		
Aug'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	34.7 hrs	10.8 hrs
Port Dwell time based on transit type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	12.8 hrs	22.6 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT		
Port Dwell time based on transit type		
Aug'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	55.1 hrs	13.0 hrs
December		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	15.0 hrs	17.1 hrs

NSIGT		
Port Dwell time based on transit type		
Aug'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	48.2 hrs	13.1 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	15.4 hrs	20.6 hrs

BMCT		
Port Dwell time based on transit type		
Aug'21	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	25.3 hrs	12.8 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	14.1 hrs	19.3 hrs

The Below map indicate congestion around JNPT region in Import Cycle in month of Aug'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
- 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

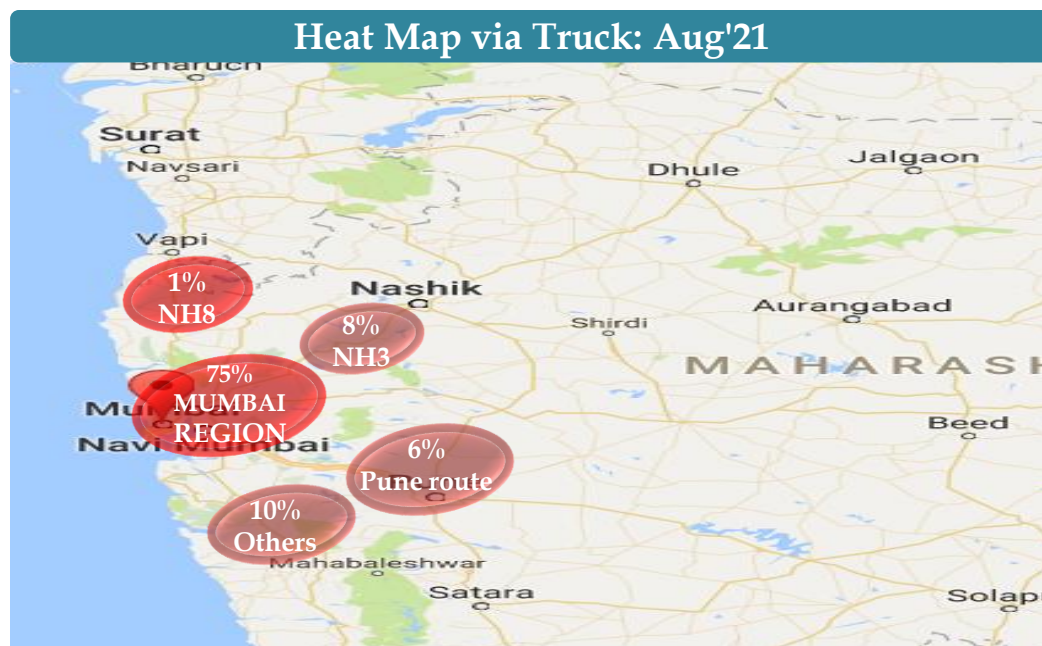
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Aug'21
Mumbai region	75%
NH3	1%
Pune	6%
NH8	8%
others	10%

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

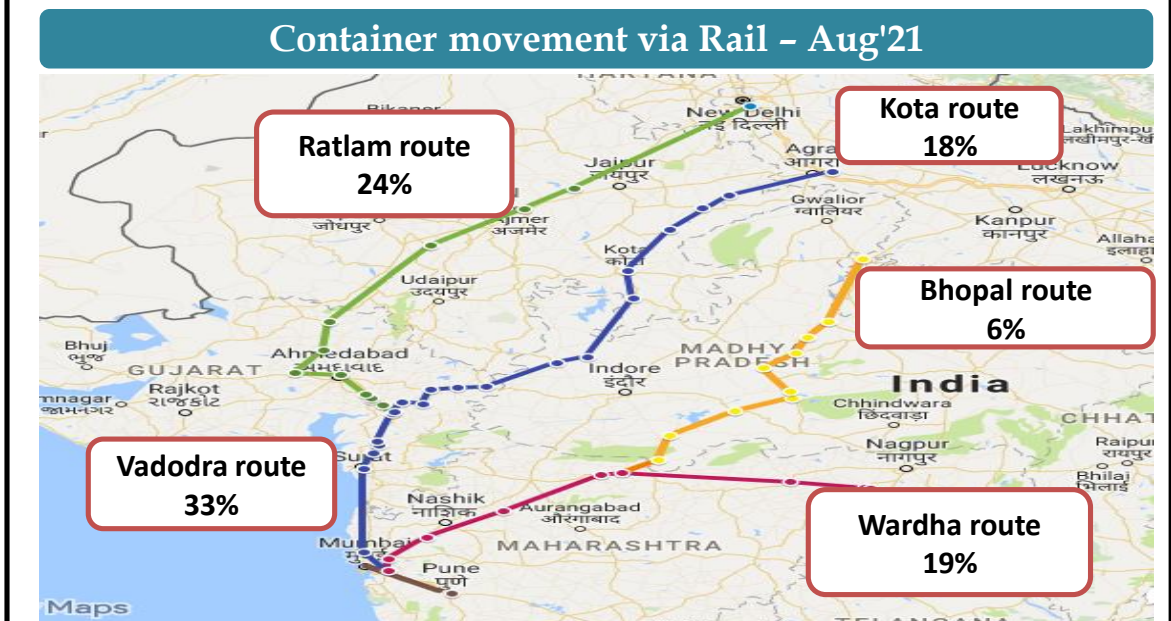


Train

VOLUME WISE CONTAINER MOVEMENT

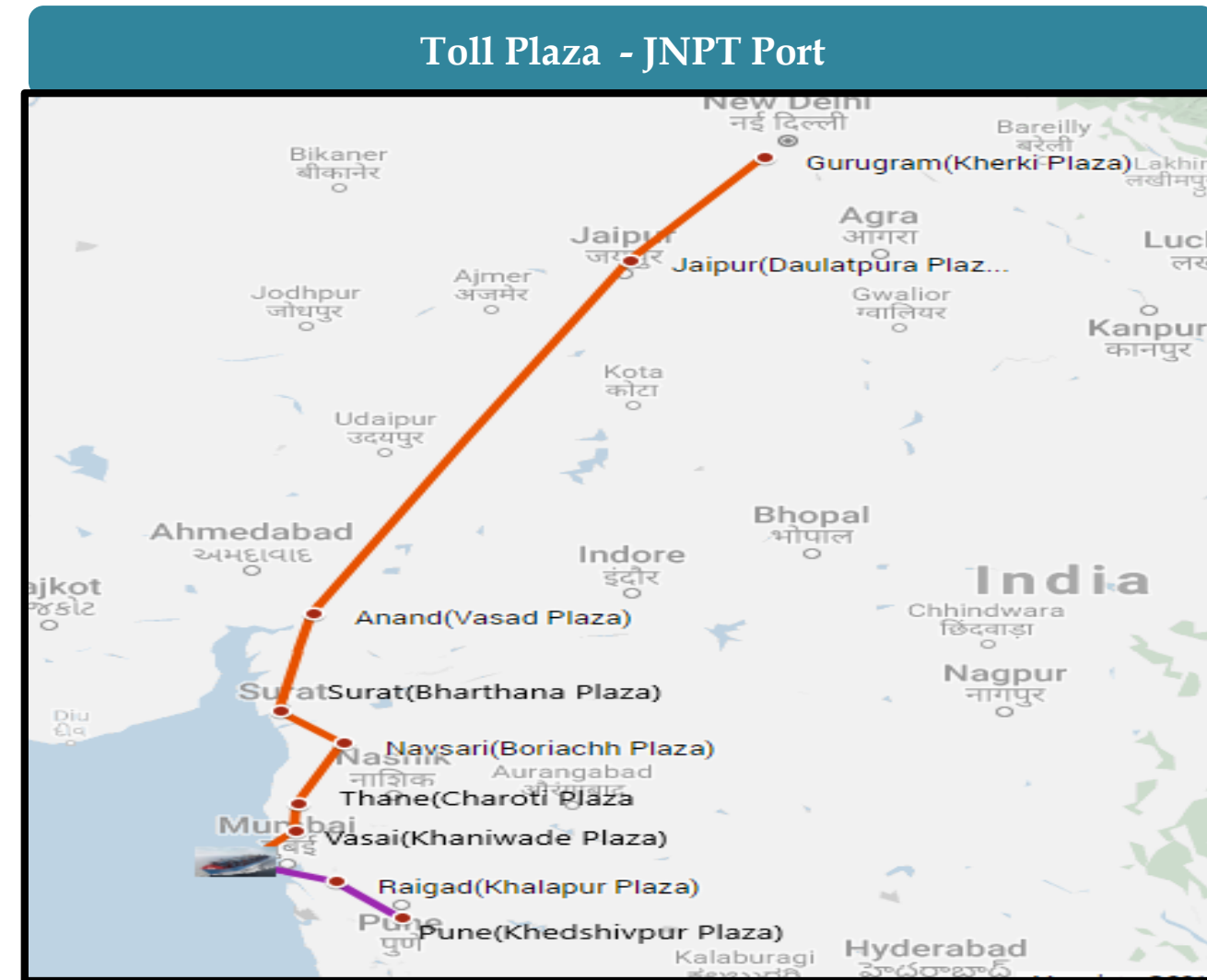
Region	Aug'21
Vadodra Route	33%
Ratlam Route	24%
Wardha Route	19%
Kota Route	18%
Bhopal Route	6%

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)	Jul'21 (in km/hrs)	Aug'21 (in km/hrs)
JNPT	JNPT	Khaniwade	94	12.6	11.6
	JNPT	Khalapur	60	15.8	14.4
	Khaniwade	Charoti	50	35.2	33.4
	Charoti	Boriach	126	28.2	27.9
	Boriach	Bharthan	142	31.9	32.0
	Bharthan	Vasad	60	36.8	38.6
	Khalalpur	Khedshivpur	105	37.0	35.8



Export Cycle Analysis

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

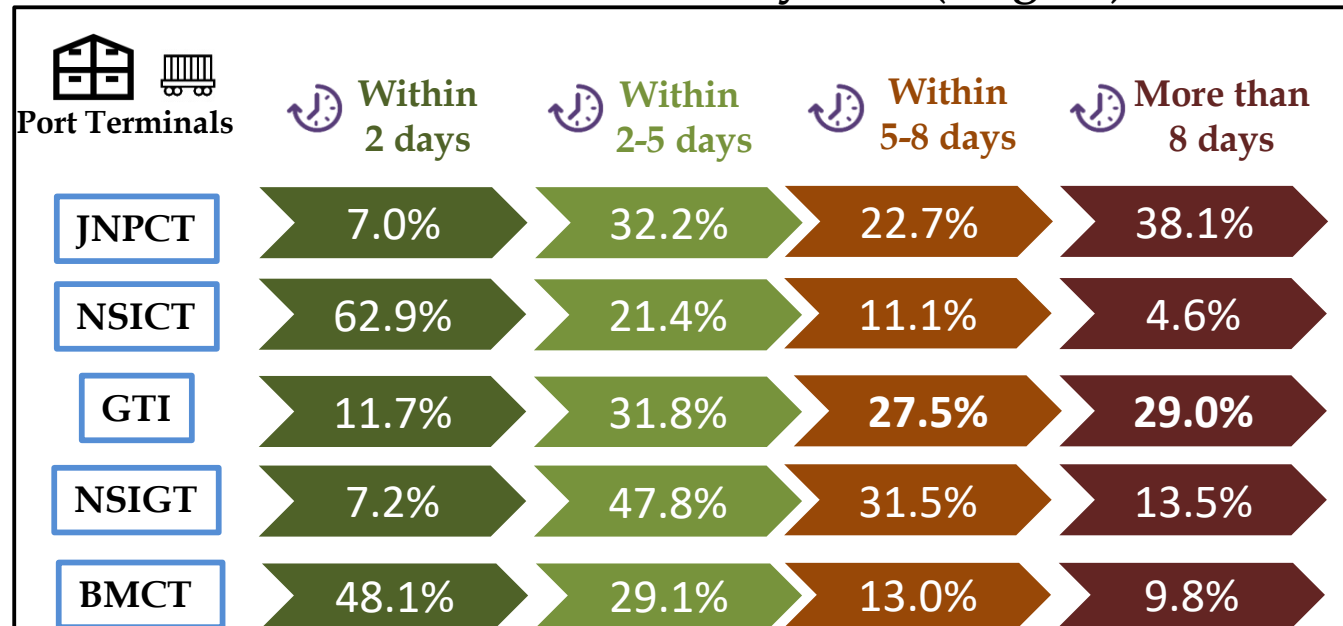
PORT EXPORT via TRAIN

(22% 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	Jul'21 (in hrs)	Aug'21 (in hrs)
JNPCT	83.5	150.9
NSICT	14.2	16.0
GTI	130.7	135.5
NSIGT	122.9	113.8
BMCT	69.5	52.2

Container Handled: Day wise (Aug'21)



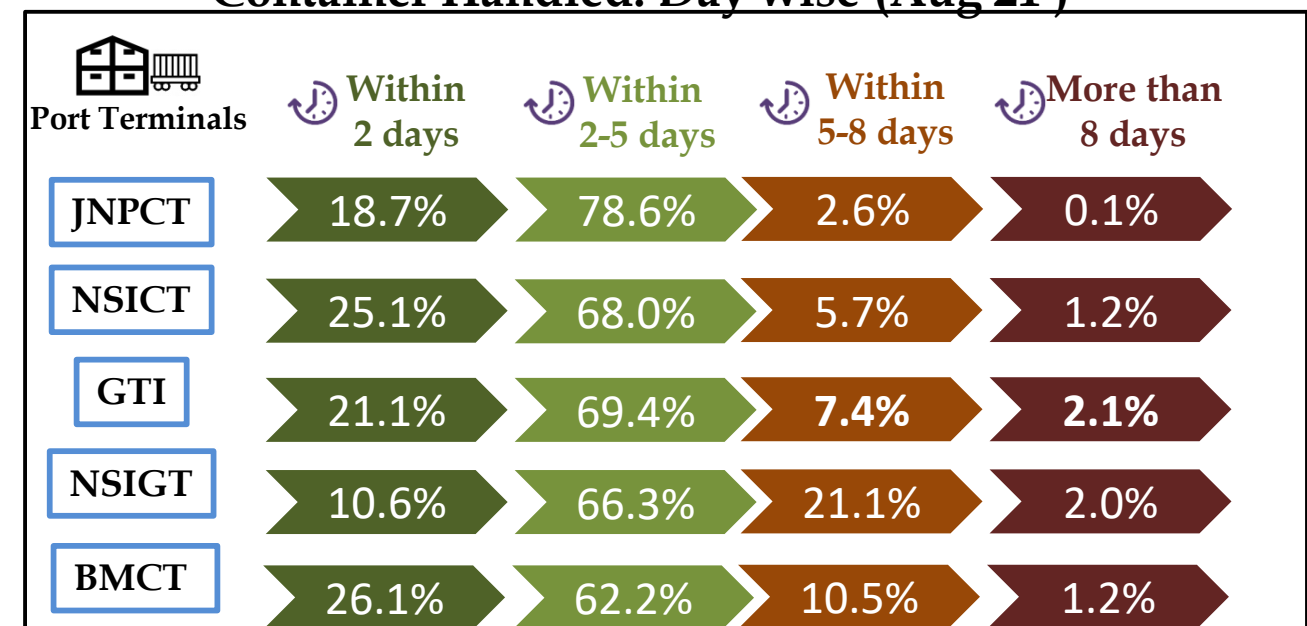
PORT EXPORT via TRUCK

(78% 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	Jul'21 (in hrs)	Aug'21 (in hrs)
JNPCT	66.0	73.6
NSICT	72.2	74.1
GTI	79.1	76.8
NSIGT	91.4	97.2
BMCT	73.0	74.0

Container Handled: Day wise (Aug'21)



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

JNPCT		
Port Dwell time based on transit type		
Aug'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.4 hrs	75.1 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	71.8 hrs	76.2 hrs

GTI		
Port Dwell time based on transit type		
Aug'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	79.4 hrs	80.0 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	86.5 hrs	64.1 hrs

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

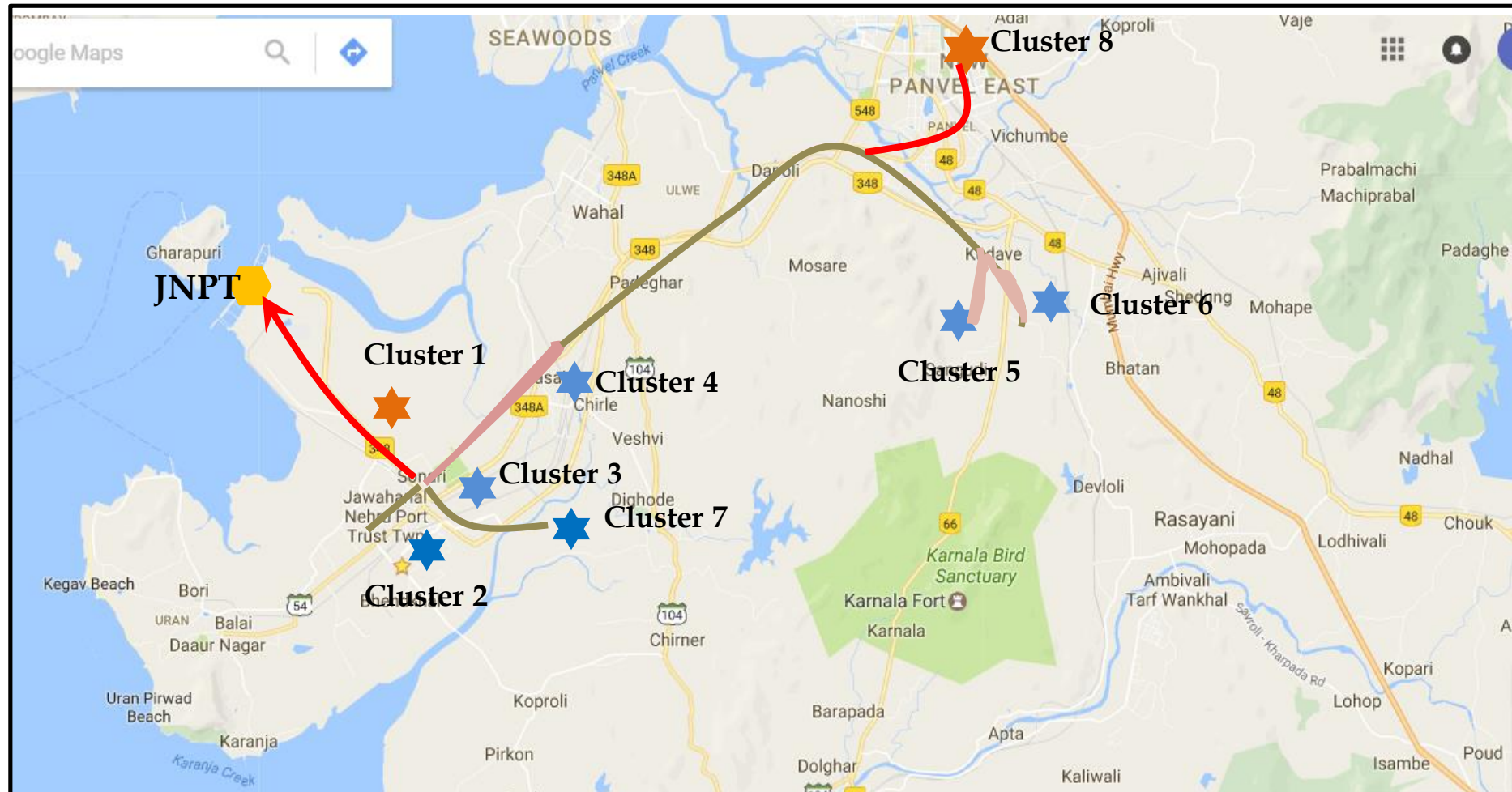
NSICT		
Port Dwell time based on transit type		
Aug'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.0 hrs	69.5 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	63.6 hrs	-

NSIGT		
Port Dwell time based on transit type		
Aug'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	100.8 hrs	94.1 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	99.7 hrs	98.8 hrs

BMCT		
Port Dwell time based on transit type		
Aug'21	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	75.0 hrs
Port Dwell time based on container type		
Aug'21	Laden Containers	Empty Containers
Dwell time (in hrs)	72.0 hrs	69.8 hrs

JNPT Region: Congestion Analysis (Export Cycle)

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



Clusters with bottleneck

CLUSTER 1	JNPT Area
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 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

Export Cycle :-

JNPCT Terminal

Congestion Level

Export Cycle :-

NSICT Terminal

Congestion Level

Export Cycle :-

NSIGT Terminal

Congestion Level

Export Cycle :-

BMCT Terminal

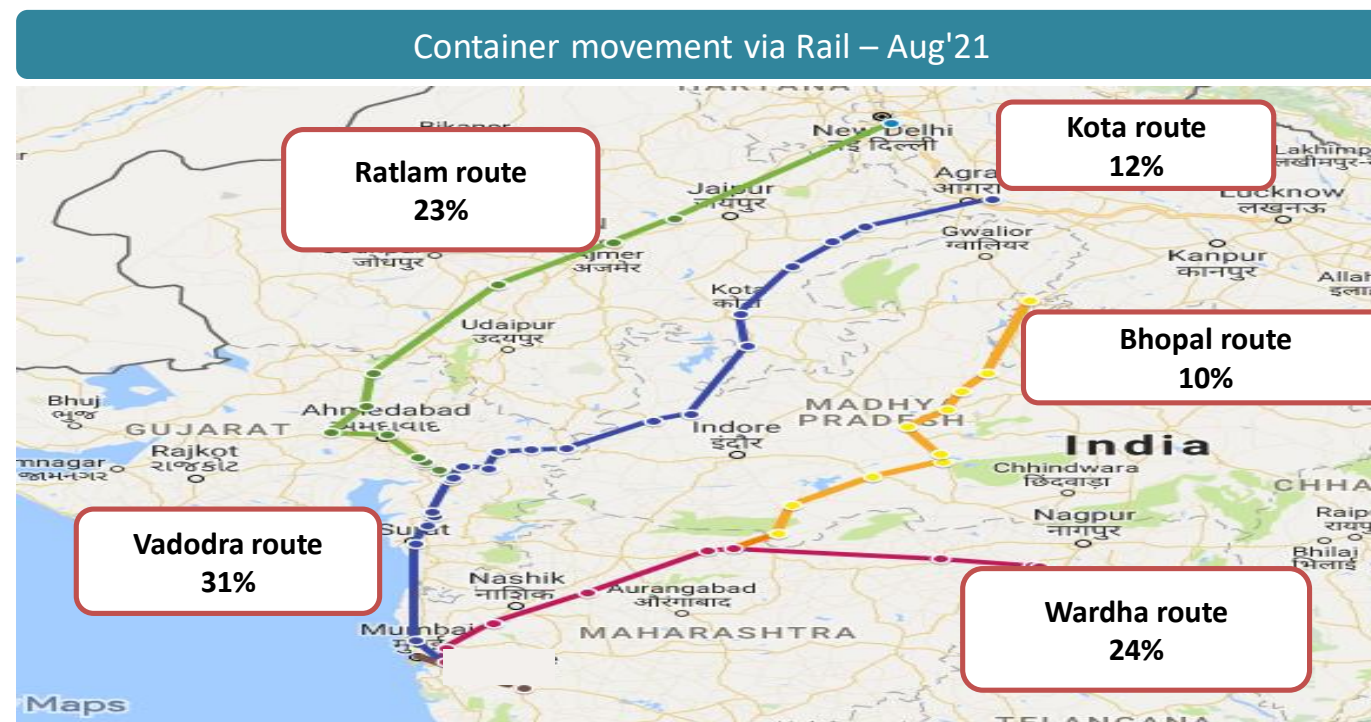
Congestion Level

Export Cycle :-

Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals
 2) Analysis consist of CFS covered under LDB project

JNPT Port	
Route	Percentage of Container Movement
Vadodra Route	31%
Ratlam Route	23%
Wardha Route	24%
Kota Route	12%
Bhopal Route	10%

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



CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

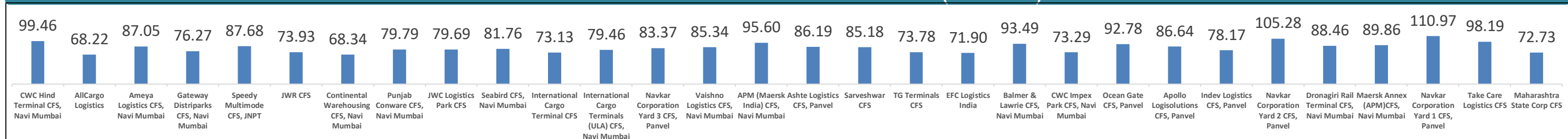
Below table and graphs show the dwell time of the respective CFSs for the month of Aug'21

CFS Dwell Time (in hrs.)

CFS	Jul'21 (in hrs)	Aug'21 (in hrs)
CWC Hind Terminal CFS, Navi Mumbai	108.72	99.46
AllCargo Logistics	79.15	68.22
Ameya Logistics CFS, Navi Mumbai	92.92	87.05
Gateway Distriparks CFS, Navi Mumbai	82.40	76.27
Speedy Multimode CFS, JNPT	88.65	87.68
JWR CFS	73.89	73.93
Continental Warehousing CFS, Navi Mumbai	79.95	68.34
Punjab Conware CFS, Navi Mumbai	89.64	79.79
JWC Logistics Park CFS	86.82	79.69
Seabird CFS, Navi Mumbai	80.74	81.76
International Cargo Terminal CFS	110.97	73.13
International Cargo Terminals (ULA) CFS, Navi Mumbai	89.04	79.46
Navkar Corporation Yard 3 CFS, Panvel	72.32	83.37
Vaishno Logistics CFS, Navi Mumbai	82.35	85.34
APM (Maersk India) CFS, Navi Mumbai	93.81	95.60

CFS	Jul'21 (in hrs)	Aug'21 (in hrs)
Ashte Logistics CFS, Panvel	101.64	86.19
Sarveshwar CFS	94.94	85.18
TG Terminals CFS	82.94	73.78
EFC Logistics India	72.15	71.90
Balmer & Lawrie CFS, Navi Mumbai	95.34	93.49
CWC Impex Park CFS, Navi Mumbai	75.83	73.29
Ocean Gate CFS, Panvel	97.43	92.78
Apollo Logisolutions CFS, Panvel	82.49	86.64
Indev Logistics CFS, Panvel	-	78.17
Navkar Corporation Yard 2 CFS, Panvel	113.95	105.28
Dronagiri Rail Terminal CFS, Navi Mumbai	83.20	88.46
Maersk Annex (APM)CFS, Navi Mumbai	98.70	89.86
Navkar Corporation Yard 1 CFS, Panvel	102.01	110.97
Take Care Logistics CFS	112.84	98.19
Maharashtra State Corp CFS	73.57	72.73

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

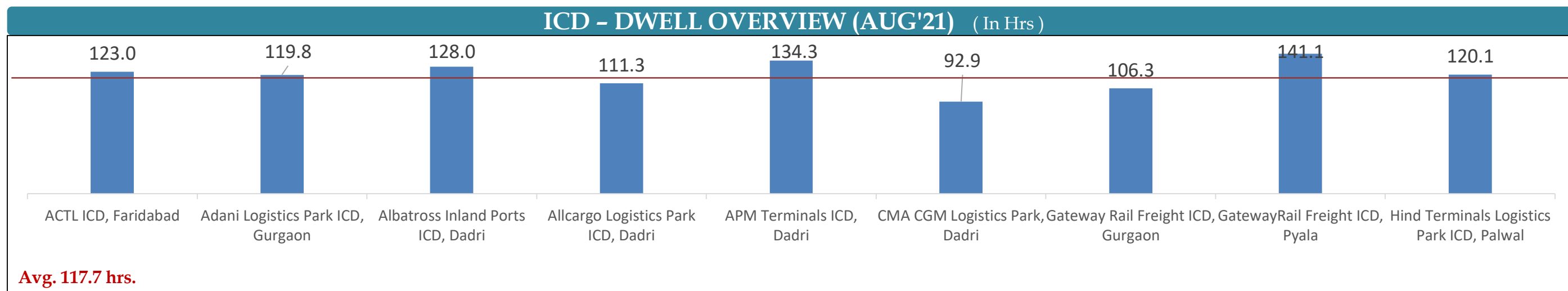


Average: 81.5 hrs.

ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Jul'21 (in hrs)	Aug'21 (in hrs)
ACTL ICD, Faridabad	123.0	123.0
Adani Logistics Park ICD, Gurgaon	139.5	119.8
Albatross Inland Ports ICD, Dadri	114.0	128.0
Allcargo Logistics Park ICD, Dadri	96.8	111.3
APM Terminals ICD, Dadri	141.9	134.3
CMA CGM Logistics Park, Dadri	114.9	92.9
Gateway Rail Freight ICD, Gurgaon	102.9	106.3
GatewayRail Freight ICD, Pyala	143.1	141.1
Hind Terminals Logistics Park ICD, Palwal	172.9	120.1

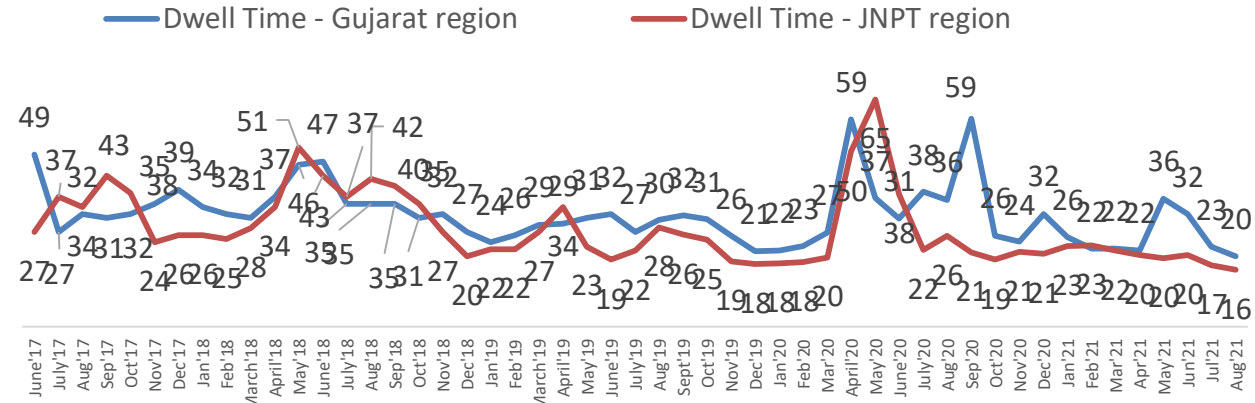


Trend Analysis

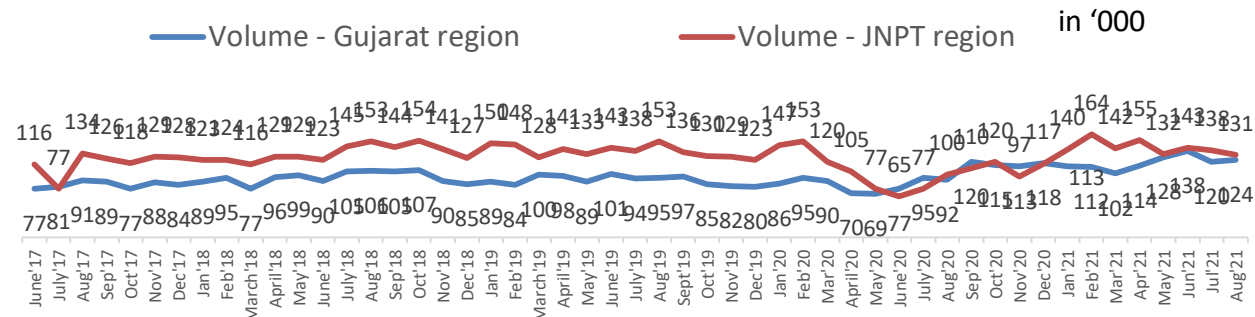
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Aug'21

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



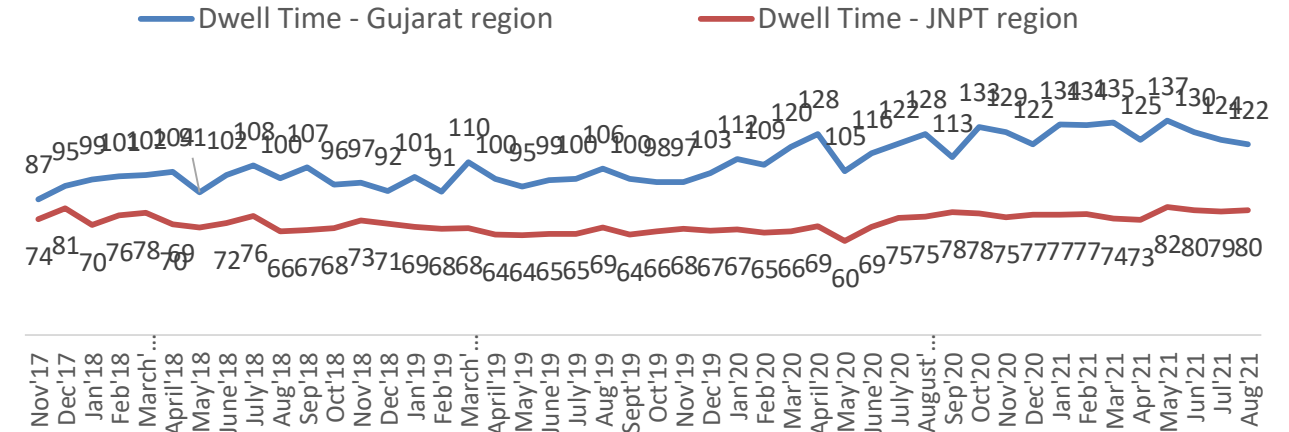
Volume – Gujarat Region Vs JNPT Region



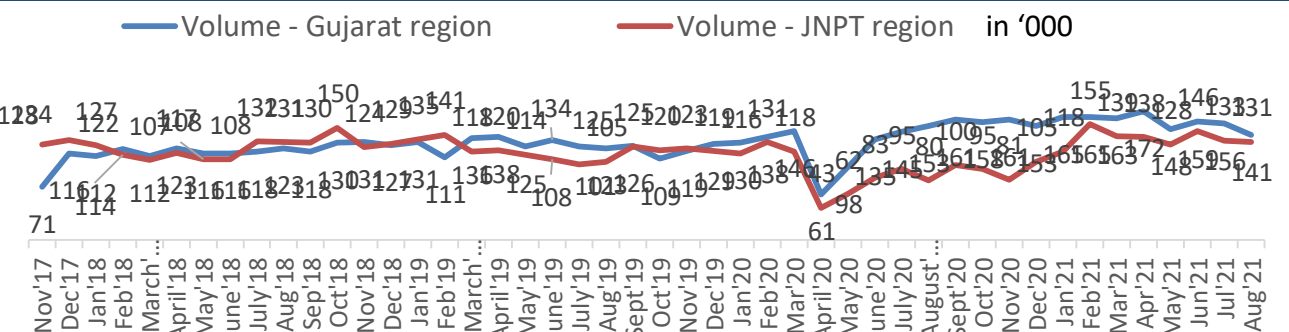
In Import cycle, for the month of Aug'21 APSEZ port has catered 6% less volume than JNPT Port, and has maintained 20% higher dwell time than JNPT Port.

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

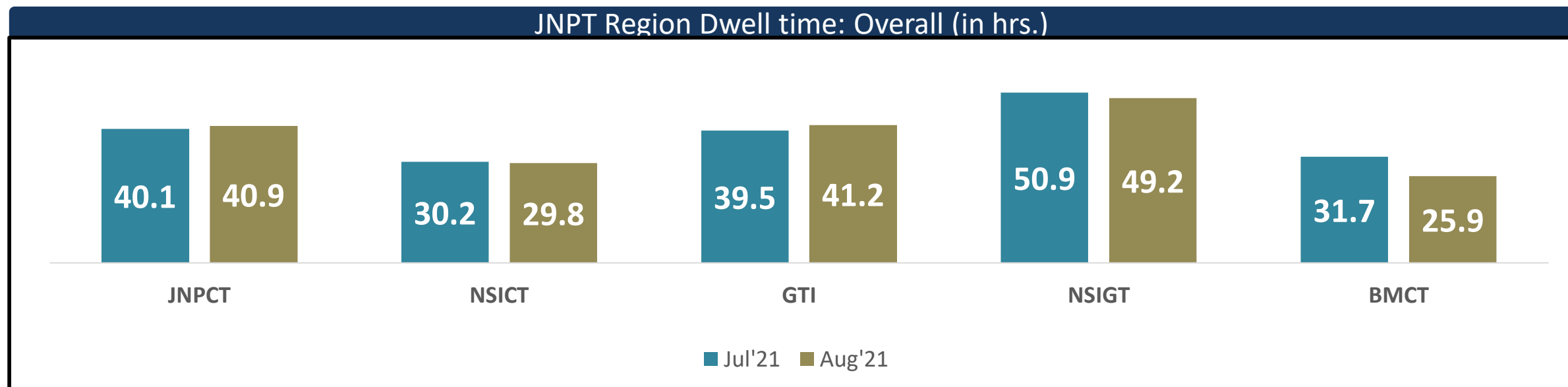


In Export cycle, for the month Aug'21 JNPT port catered 7% less volume than APSEZ Port, and has maintained 35% lower dwell time than APSEZ Port

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

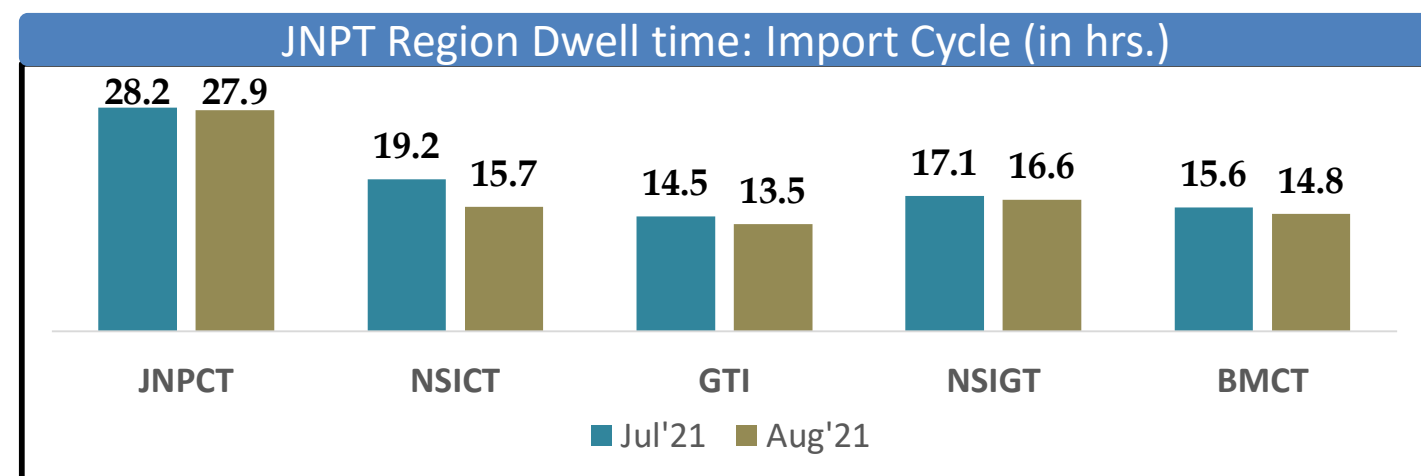


The overall JNPT region average dwell time for Aug'21 is 37.3 hrs as compared to 37.8 hrs in Jul'21

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

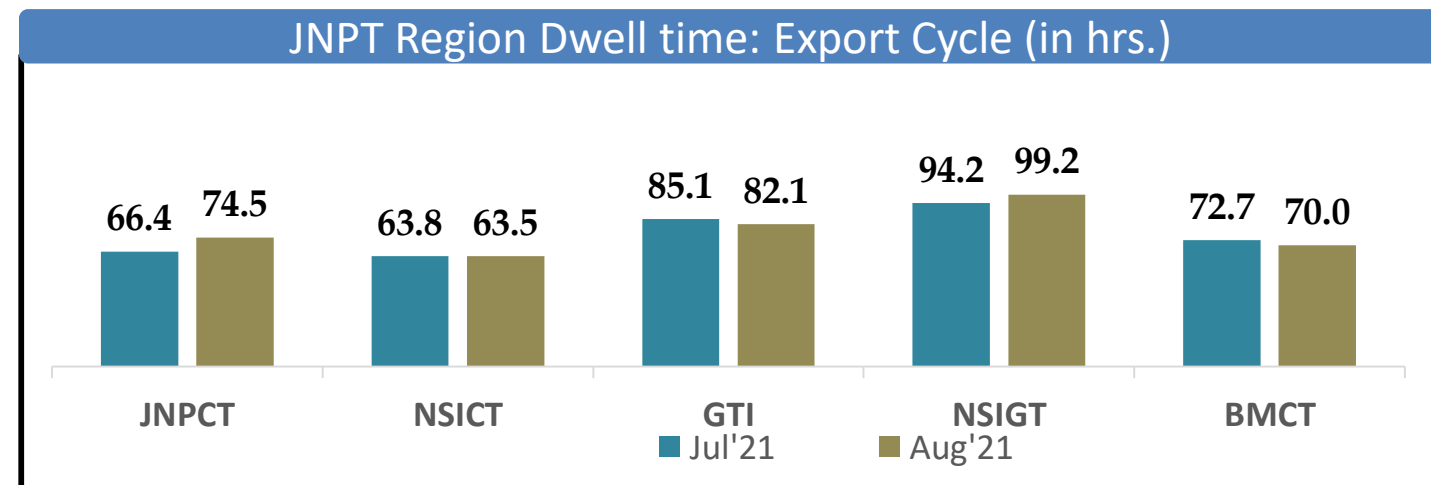
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Aug'21 is 16.1 hrs.



JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Aug'21 is 79.5 hrs.

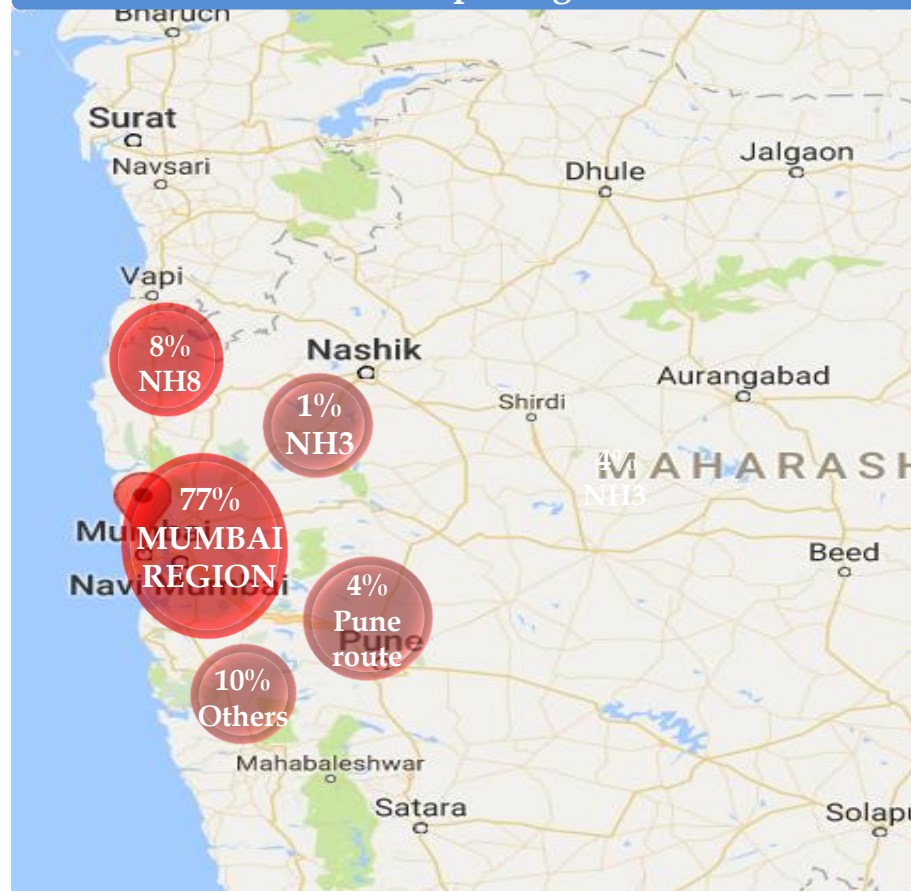


ANNEXURE

Container movement around JNPT Port terminal region via Truck

HEAT MAP : GTI Port Terminal

Heat Map : Aug'21

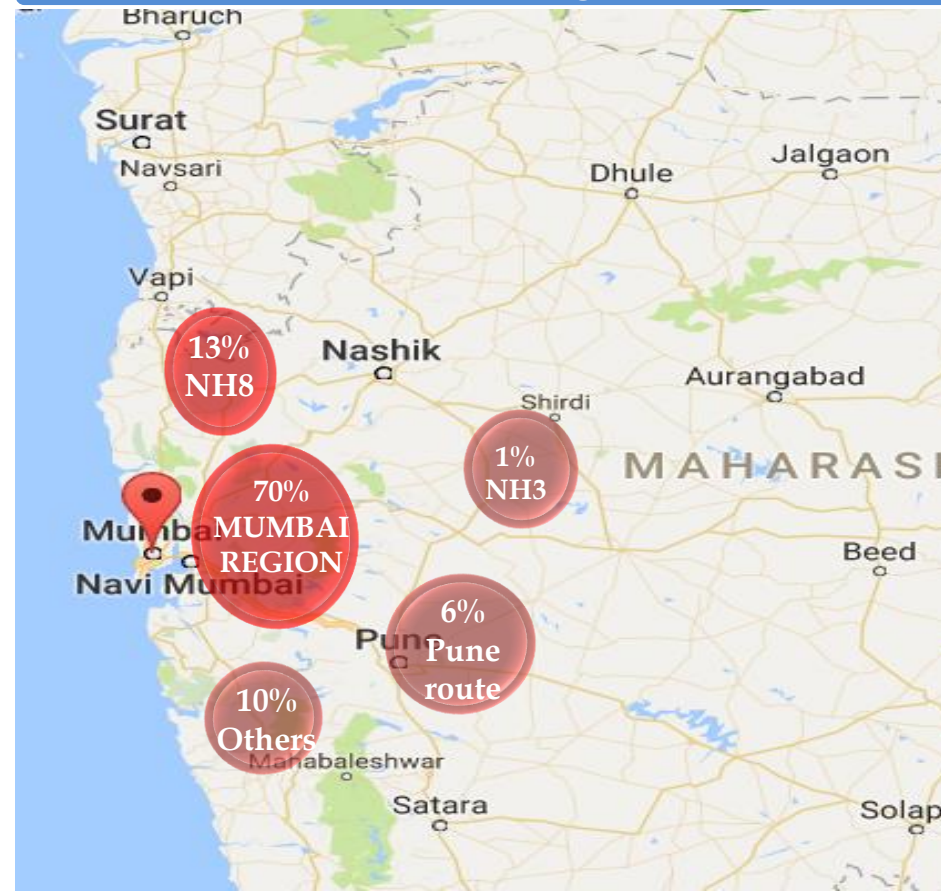


Region	Jul'21	Aug'21
Mumbai region	78%	77%
NH3	1%	1%
Pune	4%	4%
NH8	7%	8%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal

Heat Map : Aug'21

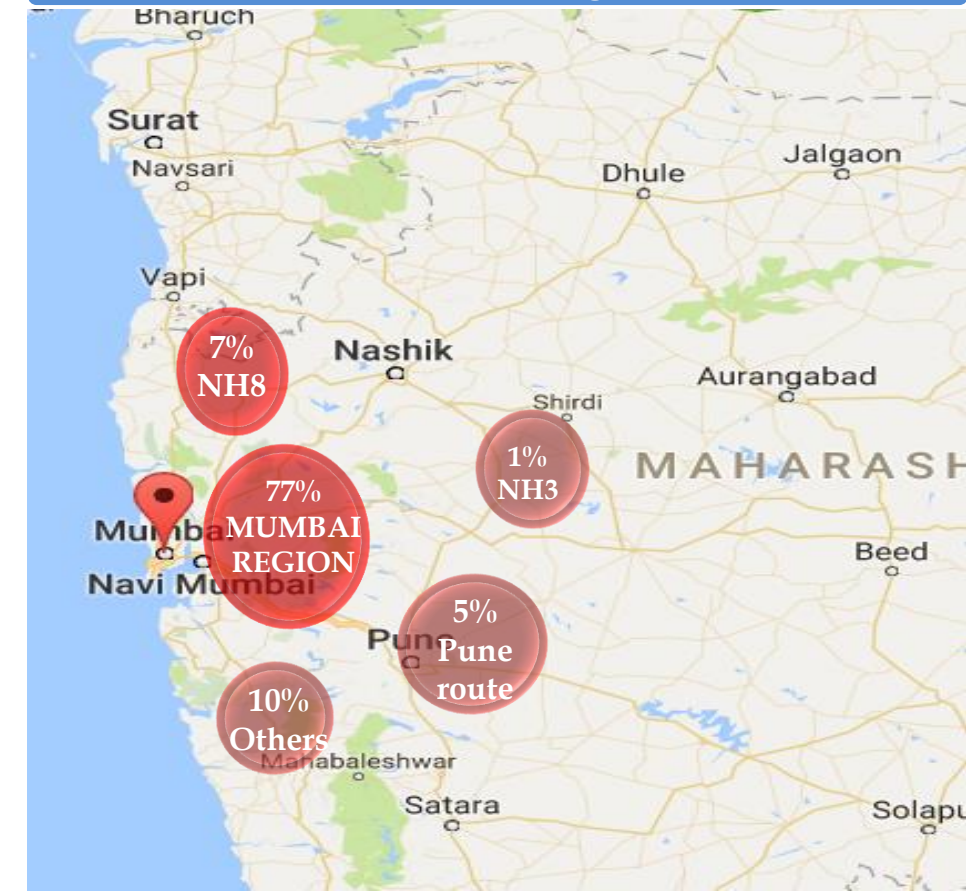


Region	Jul'21	Aug'21
Mumbai region	78%	70%
NH3	1%	1%
Pune	3%	6%
NH8	8%	13%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal

Heat Map : Aug'21



Region	Jul'21	Aug'21
Mumbai region	81%	77%
NH3	1%	1%
Pune	3%	5%
NH8	5%	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

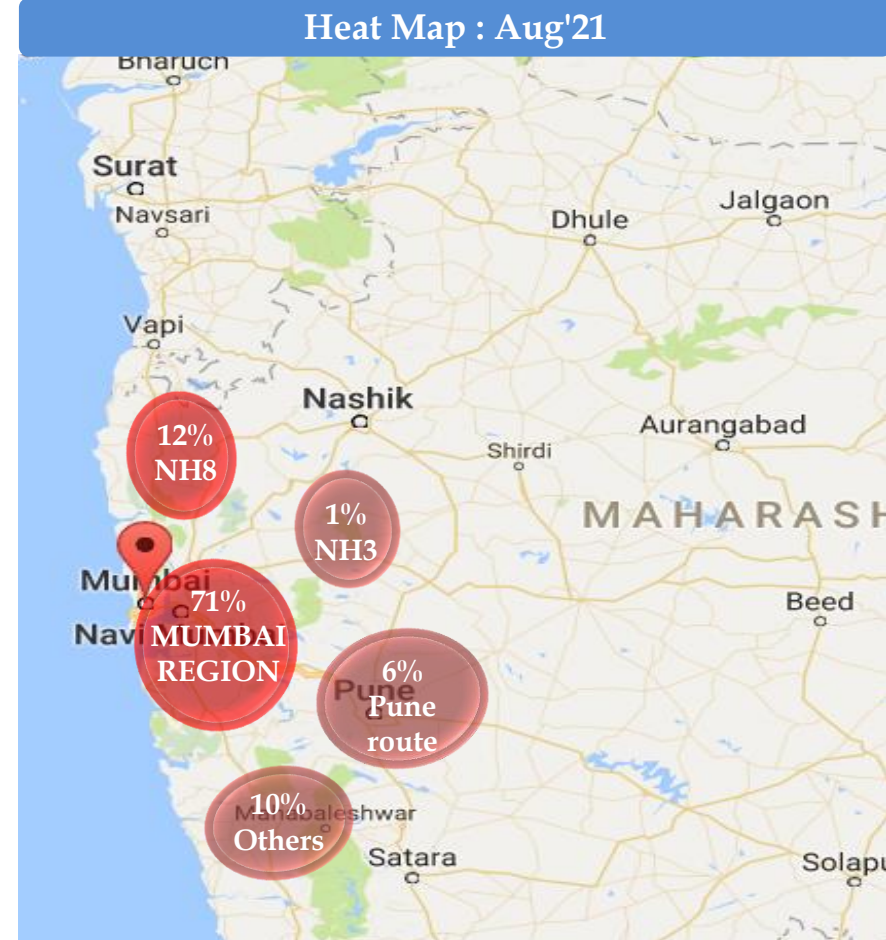
HEAT MAP : NSIGT Port Terminal



Region	Jul'21	Aug'21
Mumbai region	80%	76%
NH3	1%	1%
Pune	4%	5%
NH8	5%	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	Jul'21	Aug'21
Mumbai region	77%	71%
NH3	1%	1%
Pune	5%	6%
NH8	7%	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 Aug'21					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.9	2.1	1.8	2.1	2.6
Punjab Conware CFS, Navi Mumbai	2.1	1.9	1.9	2.2	2.4
JWC Logistics Park CFS	3.9	3.3	2.4	4.0	3.8
CWC Hind Terminal CFS, Navi Mumbai	2.2	2.4	1.9	2.7	2.7
Dronogiri Rail Terminal CFS, Navi Mumbai	3.5	1.8	1.8	2.4	2.5
Navkar Corporation Yard 2 CFS, Panvel	6.0	6.4	6.2	4.3	6.1
Vaishno Logistics CFS, Navi Mumbai	2.9	3.1	2.1	2.1	2.7
Speedy Multimode CFS, JNPT	2.4	2.0	2.3	2.7	2.6
Balmer & Lawrie CFS, Navi Mumbai	1.8	1.9	2.9	1.5	2.5
Navkar Corporation Yard 3 CFS, Panvel	4.9	5.1	4.0	5.0	5.5
Ashte Logistics CFS, Panvel	4.3	3.4	4.0	2.4	4.4
Continental Warehousing CFS, Navi Mumbai	2.0	2.0	1.7	1.6	2.4
SBW Logistics CFS, Navi Mumbai	8.8	8.1	9.8	6.4	14.0
Maharashtra State Corp CFS	2.2	1.9	1.7	2.1	2.6
Internation Cargo Terminal CFS	3.1	2.3	2.2	2.5	2.6
Seabird CFS, Navi Mumbai	2.2	3.2	2.2	1.6	3.7
Apollo Logisolutions CFS, Panvel	3.7	3.6	3.3	3.1	5.3
Ameya Logistics CFS, Navi Mumbai	2.8	2.4	2.3	3.1	3.5
Transindia Logistics Park, Navi Mumbai	2.9	2.3	1.5	1.9	2.9
Ocean Gate CFS, Panvel	3.0	3.1	2.5	3.8	2.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0	2.5	2.6	2.9	3.0
Indev Logistics CFS, Panvel	4.4	3.4	3.2	3.9	3.5
CWC Dronagiri CFS, Navi Mumbai	1.8	4.1	3.2	2.3	4.0
APM (Maersk India) CFS, Navi Mumbai	1.2	1.4	2.2	2.9	2.4

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	Aug'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.0
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	1.4
Ameya Logistics CFS, Navi Mumbai	1.7
Transindia Logistics Park, Navi Mumbai	1.9
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	3.4
Seabird CFS, Navi Mumbai	2.5
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	4.2
Navkar Corporation Yard 1 CFS, Panvel	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.7
Maersk Annex (APM)CFS, Navi Mumbai	2.2
Speedy Multimode CFS, JNPT	2.0
Apollo Logisolutions CFS, Panvel	2.7
Navkar Corporation Yard 2 CFS, Panvel	3.7
Punjab Conware CFS, Navi Mumbai	1.8
Vaishno Logistics CFS, Navi Mumbai	2.5
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	3.5
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	5.1

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

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

AVERAGE DELIVERY TIME (In Hrs)- JNPCT TO ALL CFS IN MUMBAI

CFS	Aug'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.0
APM (Maersk India) CFS, Navi Mumbai	1.6
Internation Cargo Terminal CFS	1.5
Ameya Logistics CFS, Navi Mumbai	1.6
Transindia Logistics Park, Navi Mumbai	1.7
Indev Logistics CFS, Panvel	3.5
Navkar Corporation Yard 3 CFS, Panvel	3.2
Seabird CFS, Navi Mumbai	1.8
Balmer & Lawrie CFS, Navi Mumbai	1.9
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	4.9
Navkar Corporation Yard 1 CFS, Panvel	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.6
Maersk Annex (APM)CFS, Navi Mumbai	1.1
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	4.0
Navkar Corporation Yard 2 CFS, Panvel	3.0
Punjab Conware CFS, Navi Mumbai	2.1
Vaishno Logistics CFS, Navi Mumbai	2.5
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	3.5
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	-

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	Aug'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.2
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	1.6
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	3.6
Navkar Corporation Yard 3 CFS, Panvel	4.4
Seabird CFS, Navi Mumbai	2.3
Balmer & Lawrie CFS, Navi Mumbai	1.7
Ashte Logistics CFS, Panvel	3.5
Continental Warehousing CFS, Navi Mumbai	2.1
CWC Hind Terminal CFS, Navi Mumbai	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	10.1
Navkar Corporation Yard 1 CFS, Panvel	3.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.8
Maersk Annex (APM)CFS, Navi Mumbai	1.7
Speedy Multimode CFS, JNPT	3.2
Apollo Logisolutions CFS, Panvel	2.9
Navkar Corporation Yard 2 CFS, Panvel	5.3
Punjab Conware CFS, Navi Mumbai	3.4
Vaishno Logistics CFS, Navi Mumbai	2.7
JWC Logistics Park CFS	3.5
SBW Logistics CFS, Navi Mumbai	4.2
Ocean Gate CFS, Panvel	4.1
Maharashtra State Corp CFS	17.9

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	Aug'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	1.8
Internation Cargo Terminal CFS	1.5
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	3.1
Navkar Corporation Yard 3 CFS, Panvel	4.4
Seabird CFS, Navi Mumbai	2.3
Balmer & Lawrie CFS, Navi Mumbai	7.6
Ashte Logistics CFS, Panvel	2.5
Continental Warehousing CFS, Navi Mumbai	1.9
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	12.7
Navkar Corporation Yard 1 CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	1.6
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	2.5
Navkar Corporation Yard 2 CFS, Panvel	3.8
Punjab Conware CFS, Navi Mumbai	2.6
Vaishno Logistics CFS, Navi Mumbai	1.9
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	5.6
Ocean Gate CFS, Panvel	3.4
Maharashtra State Corp CFS	7.0

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	Aug'21 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	1.6
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	1.9
Indev Logistics CFS, Panvel	4.0
Navkar Corporation Yard 3 CFS, Panvel	2.9
Seabird CFS, Navi Mumbai	2.1
Balmer & Lawrie CFS, Navi Mumbai	1.8
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	3.3
Navkar Corporation Yard 1 CFS, Panvel	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.8
Maersk Annex (APM)CFS, Navi Mumbai	2.3
Speedy Multimode CFS, JNPT	2.0
Apollo Logisolutions CFS, Panvel	2.7
Navkar Corporation Yard 2 CFS, Panvel	3.1
Punjab Conware CFS, Navi Mumbai	2.4
Vaishno Logistics CFS, Navi Mumbai	1.7
JWC Logistics Park CFS	2.3
SBW Logistics CFS, Navi Mumbai	3.2
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	47.5

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 Aug'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	2.0	2.0
Cluster 2	6	13	1.8	2.2
Cluster 3	6	11	3.4	1.9
Cluster 4	1	13	2.5	3.1
Cluster 5	2	25	3.0	3.2
Cluster 6	6	25	3.3	3.6
Cluster 7	4	12	1.7	2.3
Cluster 8	1	34	3.5	8.1

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Aug'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	2.4
Cluster 2	6	13	1.6	2.1
Cluster 3	6	11	2.0	2.2
Cluster 4	1	13	2.5	2.9
Cluster 5	2	25	2.9	3.4
Cluster 6	6	25	3.2	4.4
Cluster 7	4	12	1.6	2.8
Cluster 8	1	34	3.5	8.8

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**

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 Aug'21

NSIGT terminal for month of Aug'21






BMCT terminal for month of Aug'21

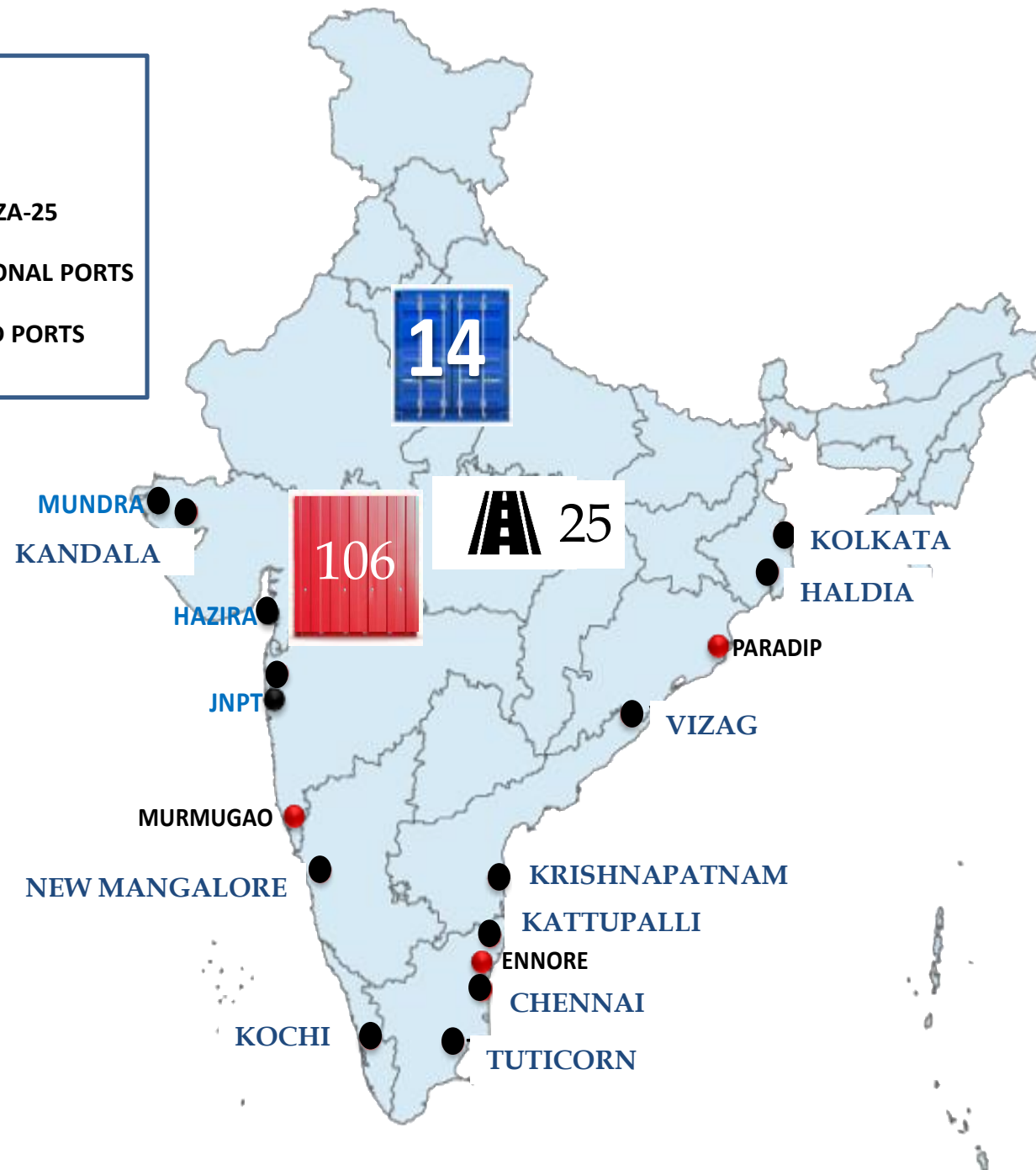
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	3.2	2.3
Cluster 2	6	13	1.8	2.2
Cluster 3	6	11	6.8	1.9
Cluster 4	1	13	2.7	0.0
Cluster 5	2	25	3.8	2.5
Cluster 6	6	25	3.5	4.0
Cluster 7	4	12	2.0	1.7
Cluster 8	1	34	4.2	9.8

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	1.8	2.7
Cluster 2	6	13	1.8	2.6
Cluster 3	6	11	2.0	2.1
Cluster 4	1	13	1.9	2.1
Cluster 5	2	25	3.1	3.9
Cluster 6	6	25	3.4	3.9
Cluster 7	4	12	1.9	1.9
Cluster 8	1	34	5.6	6.4

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	2.6
Cluster 2	6	13	1.9	2.6
Cluster 3	6	11	2.0	2.5
Cluster 4	1	13	1.7	2.7
Cluster 5	2	25	2.8	3.3
Cluster 6	6	25	3.0	5.3
Cluster 7	4	12	1.8	2.9
Cluster 8	1	34	3.2	14.0

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**

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

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



THANK YOU