

Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Sept'20 (in hrs)	Oct'20 (in hrs)	Port	Sept'20 (in hrs)	Oct'20 (in hrs)
JNPCT	25.3	23.0	JNPCT	79.1	81.6
NSICT	21.2	18.6	NSICT	58.2	56.0
GTI	15.4	14.8	GTI	79.0	78.2
NSIGT	21.0	19.9	NSIGT	78.2	87.6
BMCT/PSA	25.0	20.7	BMCT/PSA	95.0	80.5

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- Container handling performance in both Import & Export cycle has improved
- Container handling performance at CFS & ICD has deteriorated as compared to last month

Month	Import Cycle - Dwell Time	Export Cycle - Dwell Time	CFS Dwell Time	ICD
October'20	19.0 hrs 	77.5 hrs 	84.7 hrs 	113.2 hrs 
August'20	21.1 hrs	78.2 hrs	81.2 hrs	104.2 hrs

Port Dwell Time

IMPORT

Mode	Sept'20 (in hrs)	Oct'20 (in hrs)
Overall	35.0	22.0
Truck	33.77	20.5
Train	42.73	49.3

EXPORT

Mode	Sept'20 (in hrs)	Oct'20 (in hrs)
Overall	96	106
Truck	93.85	103.2
Train	105.30	121.2

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



Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Sept'20 (in hrs)	Oct'20 (in hrs)
CFS	114	88.9
ICD	104.2	113.2

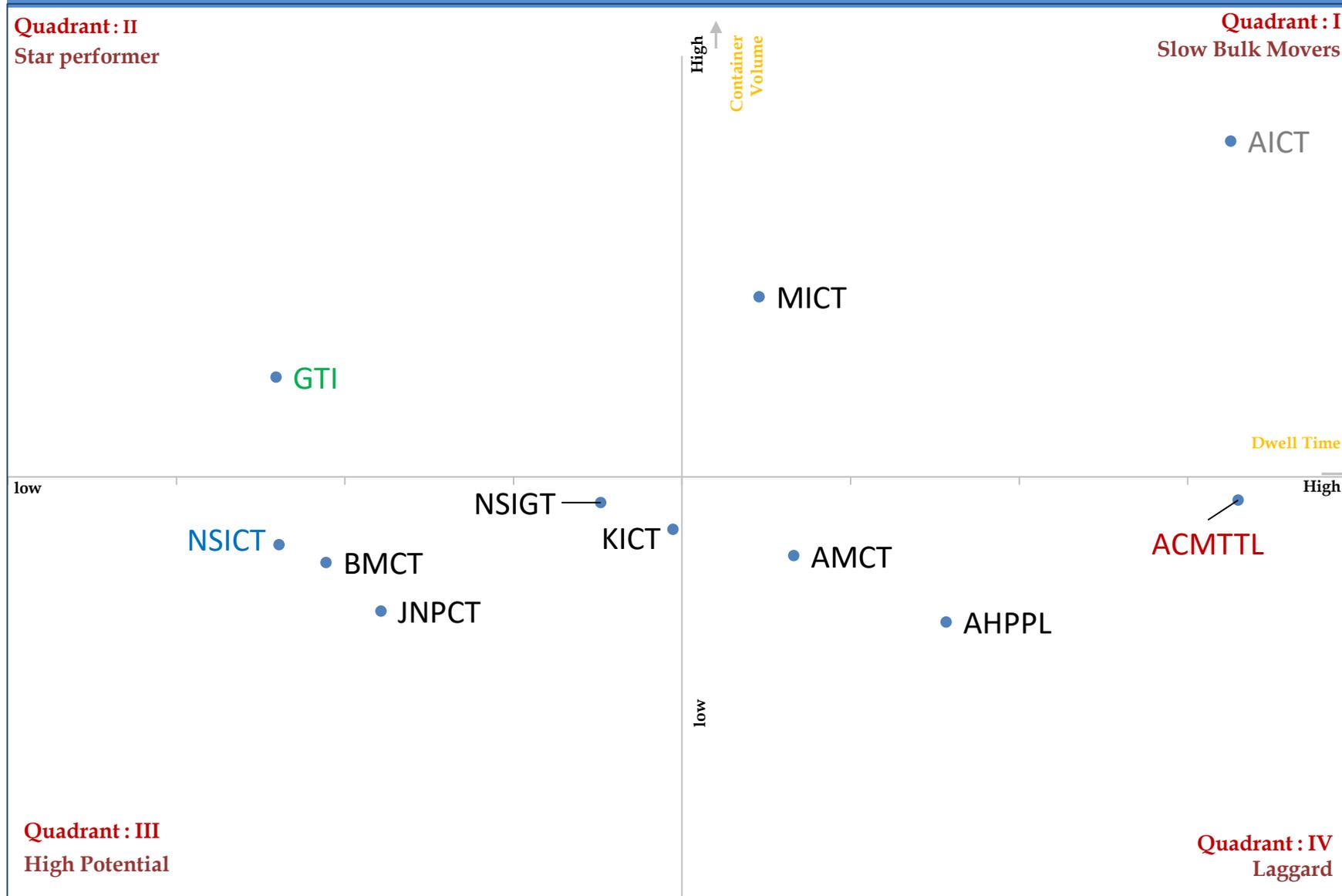
- The marked entries showcase increase in performance in comparison to Sept'20
- The marked entries showcase decrease in performance in comparison to Sept'20



Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index - Oct'2020



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

Top Performing Terminal

Gateway Terminals India (GTI)

Sept'20

Oct'20

36 Hrs

29.5 Hrs. ↑

Low Performing Terminal

Adani CMA Mundra Terminal (ACMTPL)

Sept'20

Oct'20

104 Hrs.

100.7 Hrs. ↑

Note: The performance benchmarking is based on performance index



The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Sept'20

Performance Index- Summary

In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume

Star Performer: consist of entities which have catered relatively high container volume in lower dwell time

Slow Bulk Movers : consist of entities which have catered higher container volume at higher dwell time

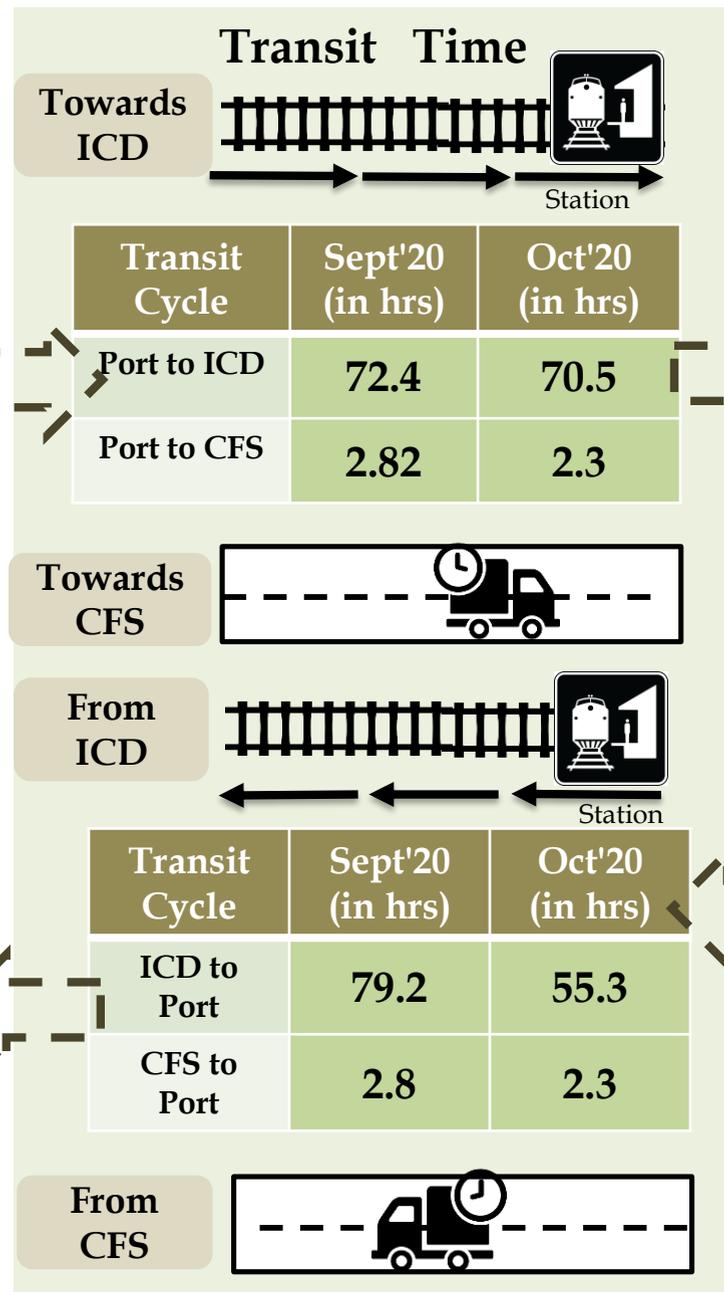
High Potential : consist of entities which have catered relatively lower container volume in lower dwell time

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

Container Lifecycle (Import Cycle)

Port Dwell Time			
IMPORT	Mode	Sept'20 (in hrs)	Oct'20 (in hrs)
	Overall	21.1	19.0
	Truck	18.67	16.6
	Train	34.52	39.4

Port Dwell Time			
EXPORT	Mode	Sept'20 (in hrs)	Oct'20 (in hrs)
	Overall	78.2	77.5
	Truck	77.88	77.3
	Train	81.10	78.5



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

Entity	Sept'20 (in hrs)	Oct'20 (in hrs)
CFS	81.25	84.7
ICD	104.2	113.2

Volume distribution at port terminal - Truck/Rail

	Truck	Rail
Import	79%	21%
Export	78%	22%

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (Oct'20 - in hrs)			Compared to Sept'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	19.0	13% ↑
	Port Dwell Time for Truck Bound Containers	16.6	11% ↑
	Port Dwell time for Train Bound Containers	39.4	14% ↓
	Port Dwell time Direct Port Delivery (DPD) containers	31.5	2% ↓
	Port Dwell time Containers bound for CFS	15.2	4% ↑
	Port Dwell for Empty Containers	20.7	28% ↑
	Port Dwell for Laden Containers	18.6	2% ↑
TRANSIT TIME	Port to ICD	70.5	3% ↑
	Port to CFS	2.3	18% ↑

EXPORT CYCLE DWELL TIME (Oct'20- in hrs)			Compared to Sept'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	77.5	1% ↑
	Port Dwell Time for Truck Bound Containers	77.4	1% ↑
	Port Dwell time for Train Bound Containers	78.5	3% ↑
	Port Dwell time Direct Port Entry (DPE) containers	80.9	4% ↓
	Port Dwell time Containers bound from CFS	76.0	3% ↓
	Port Dwell for Empty Containers	73.1	6% ↑
	Port Dwell for Laden Containers	78.4	0% ↓
TRANSIT TIME	ICD to Port	55.3	30% ↑
	CFS to Port	2.3	18% ↑

↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to Sept'20

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	Sept'20 (in hrs)	Oct'20 (in hrs)
Overall Parking Plaza	7.0	6.5
Parking Plaza	Sept'20 (in hrs)	Oct'20 (in hrs)
APM-GTI Parking Plaza	6.7	6.1
JNPCT Parking Plaza	6.2	4.9
NSIGT Parking Plaza	7.2	7.2

Container Handled: Day wise (Oct'20)



Parking Plaza Gate Out - Terminal In

Mode	Sept'20 (in hrs)	Oct'20 (in hrs)
Overall Parking Plaza to JNPT Port	1.3	1.3
Port	Sept'20 (in hrs)	Oct'20 (in hrs)
JNPCT	5.3	2.7
NSICT	1.1	1.6
GTI	1.4	1.4
NSIGT	1.1	1.0
BMCT	3.1	1.6

Container Handled: Day wise (Oct'20)





Performance Benchmarking



Top Performing CFS

All Cargo Logistics	
Sept'20	Oct'20
75.6 hrs	81.7 hrs

Low Performing CFS

Navkar Corporation Yard 2 CFS, Panvel	
Sept'20	Oct'20
120.1 hrs.	113.1 hrs.

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

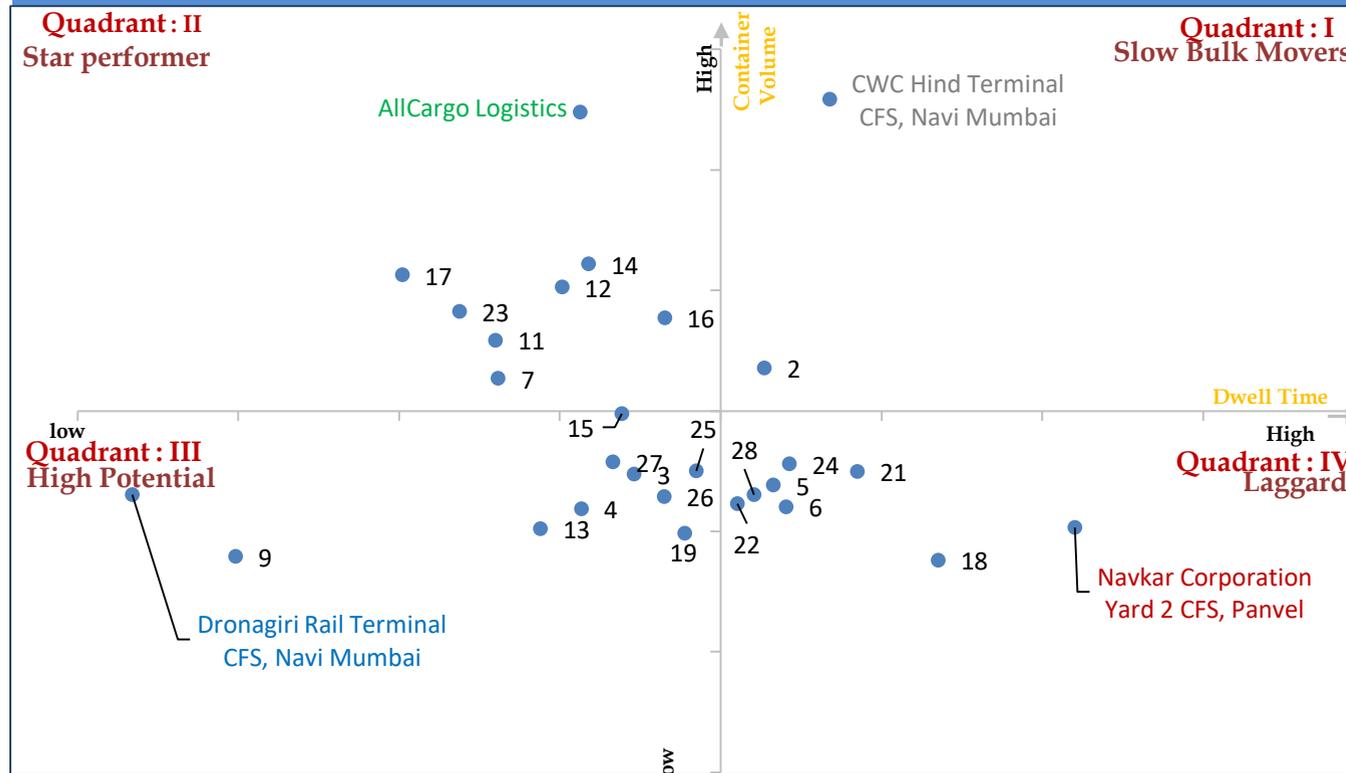
Top Performing ICD

Albatross Inland Ports ICD, Dadri	
Sept'20	Oct'20
84.4 hrs	92.4 hrs

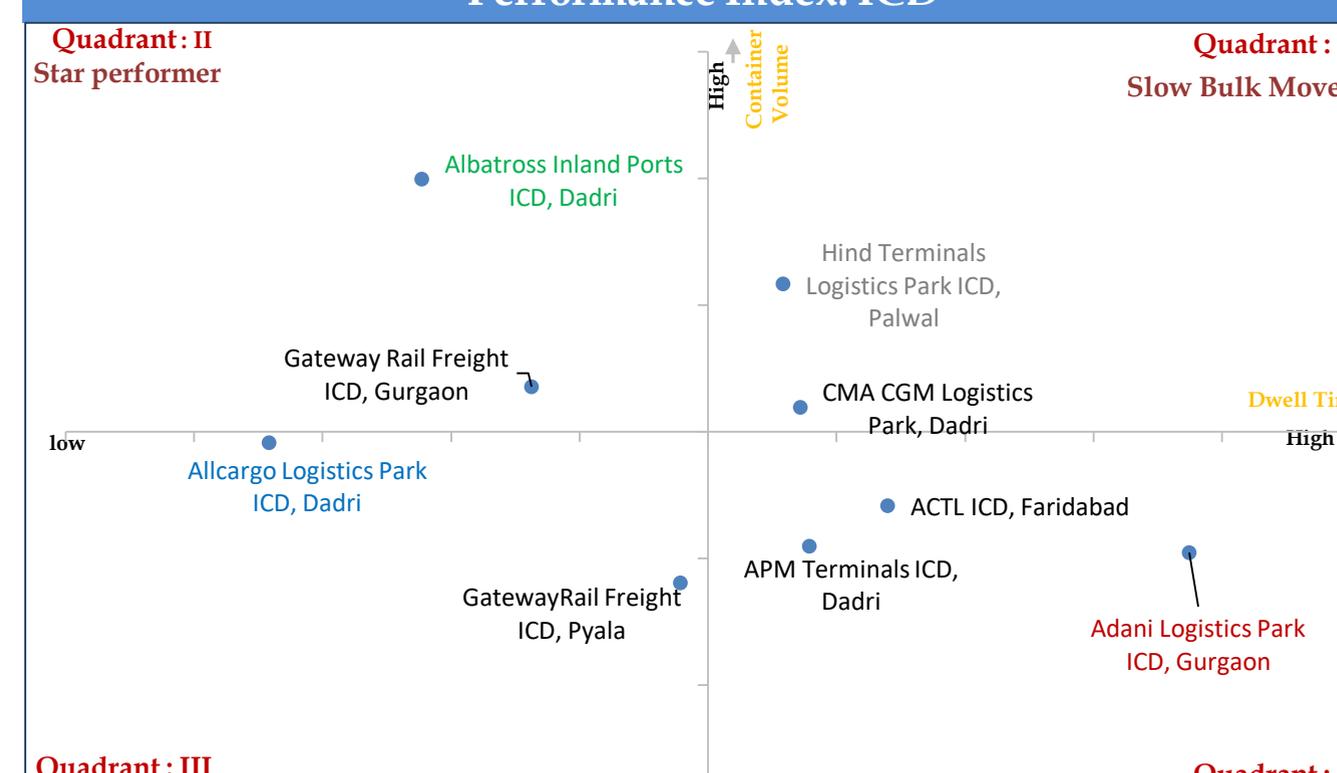
Low Performing ICD

Adani Logistics Park ICD, Gurgaon	
Sept'20	Oct'20
116.0 hrs	131.7 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

(20% 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	September'20 (in hrs)	October'20 (in hrs)
JNPCT	26.2	32.1
NSICT	32.8	40.7
GTI	27.1	29.9
NSIGT	42.0	59.1
BMCT	41.0	41.4

Container Handled: Day wise (October'20)



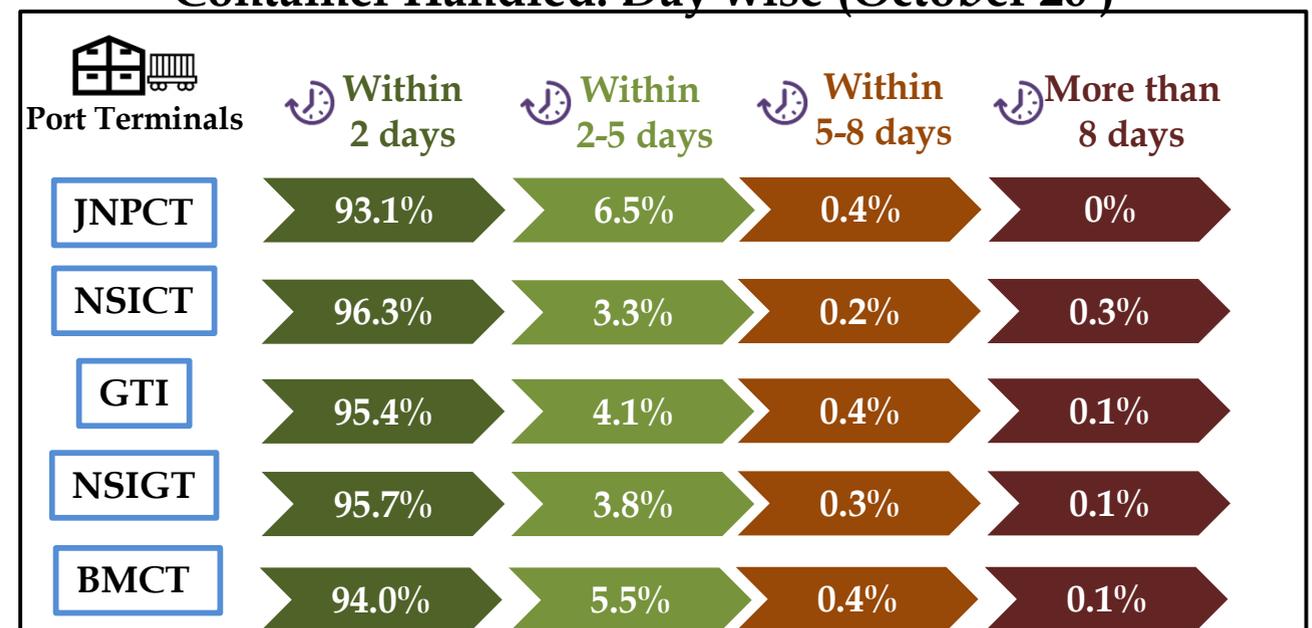
PORT IMPORT via TRUCK

(80% 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	September'20 (in hrs)	October'20 (in hrs)
JNPCT	24.8	22.3
NSICT	19.2	16.3
GTI	13.5	12.8
NSIGT	17.2	14.5
BMCT	22.1	18.9

Container Handled: Day wise (October'20)



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

JNPCT		
Port Dwell time based on transit type		
October'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	33.4 hrs	21.8 hrs
Port Dwell time based on container type		
October'20	Laden Containers	Empty Containers
Dwell time (in hrs)	23.0 hrs	23.3 hrs

GTI		
Port Dwell time based on transit type		
October'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.8 hrs	11.2 hrs
Port Dwell time based on container type		
October'20	Laden Containers	Empty Containers
Dwell time (in hrs)	14.5 hrs	19.1 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT		
Port Dwell time based on transit type		
October' 20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	34.3 hrs	14.5 hrs
Port Dwell time based on container type		
October' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	17.6 hrs	19.6 hrs

NSIGT		
Port Dwell time based on transit type		
October' 20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	46.2 hrs	13.5 hrs
Port Dwell time based on container type		
October' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	19.6 hrs	19.6 hrs

BMCT		
Port Dwell time based on transit type		
October'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	31.4 hrs	16.4 hrs
Port Dwell time based on container type		
October'20	Laden Containers	Empty Containers
Dwell time (in hrs)	19.8 hrs	25.5 hrs

JNPT Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPT region in Import Cycle in month of October'20



Clusters with bottleneck

CLUSTER 1	JNPT Area
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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 arrow)
- Low Congestion (Pink arrow)
- 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
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

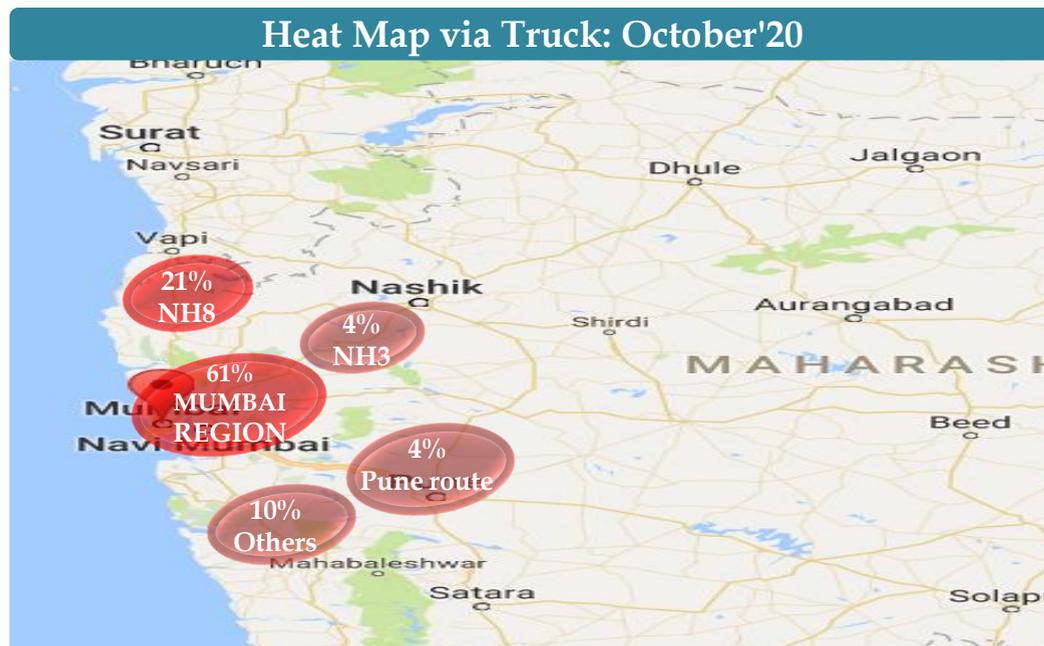
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	October'20
Mumbai region	61%
NH3	4%
Pune	4%
NH8	21%
others	10%

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

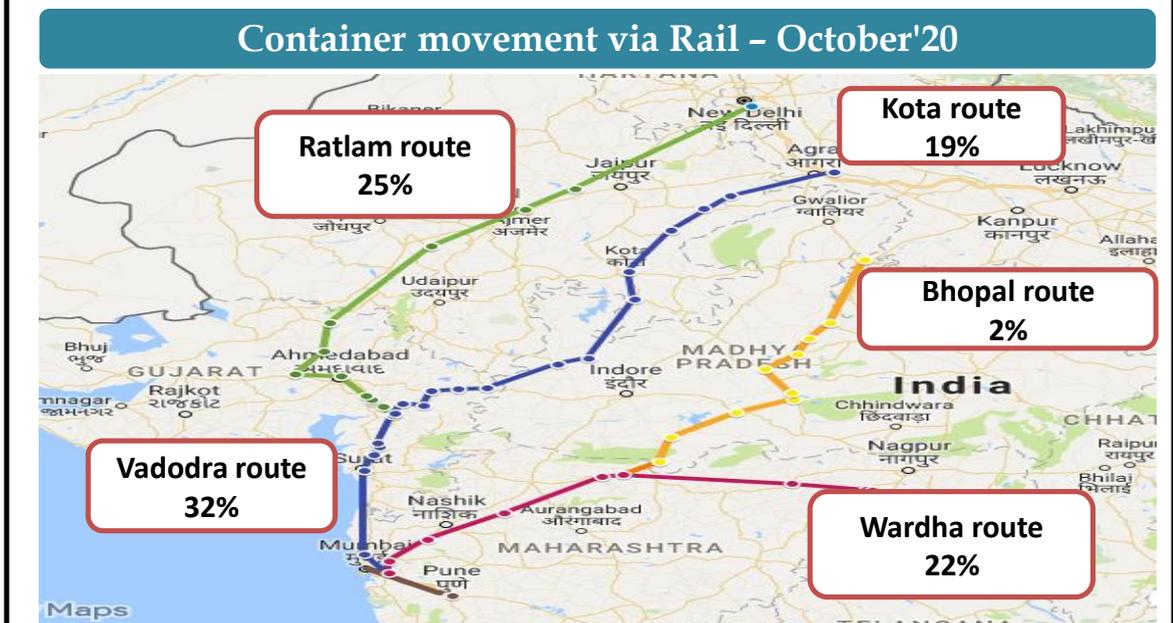


Train

VOLUME WISE CONTAINER MOVEMENT

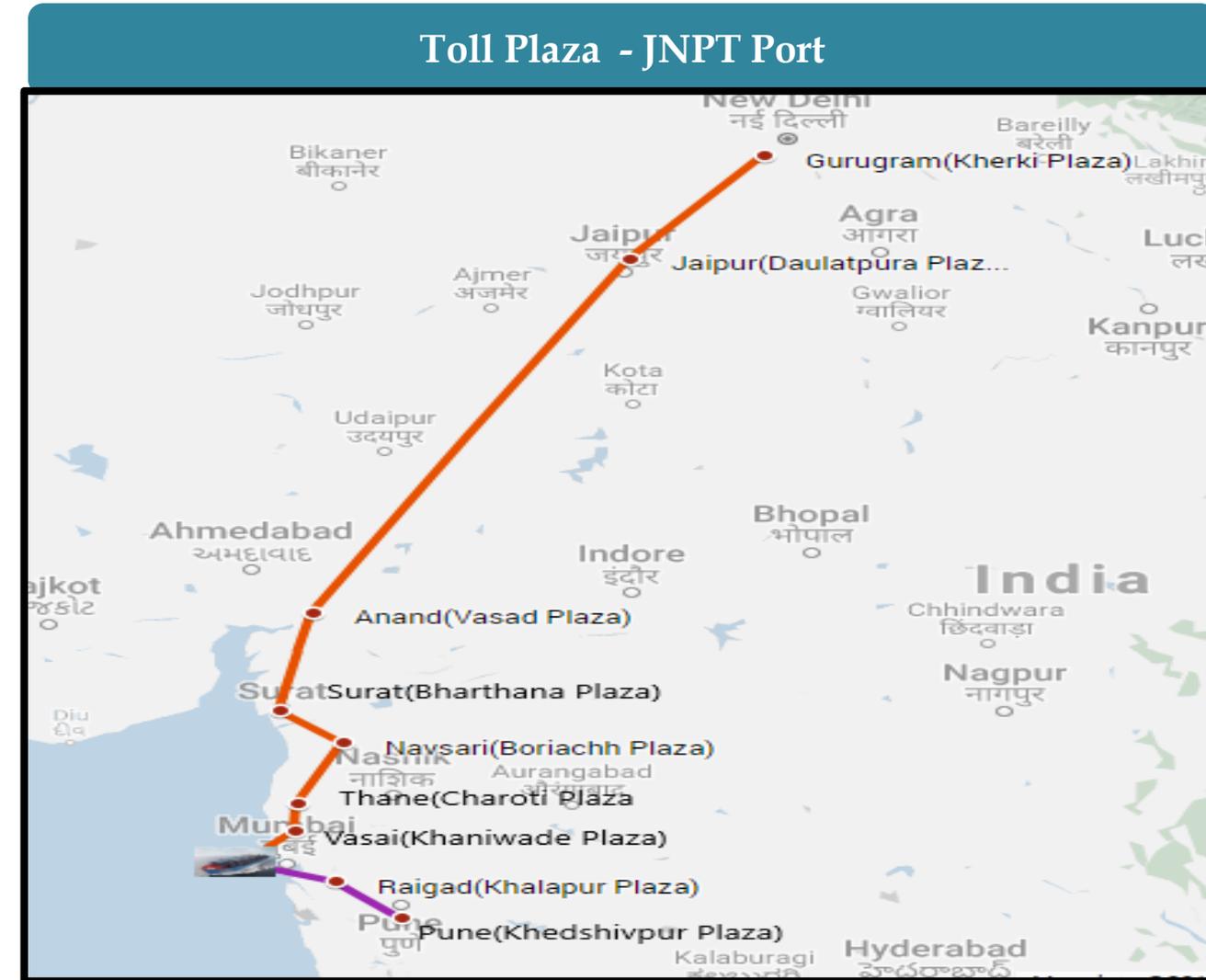
Region	October'20
Vadodra Route	32%
Ratlam Route	25%
Wardha Route	22%
Kota Route	19%
Bhopal Route	2%

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)	Sept'20 (in km/hrs)	Oct'20 (in km/hrs)
JNPT	JNPT	Khaniwade	94	4.5	11.5
	JNPT	Khalapur	60	2.3	16.2
	Khaniwade	Charoti	50	30.3	35.8
	Charoti	Boriach	126	25.1	25.9
	Boriach	Bharthan	142	29.8	31.3
	Bharthan	Vasad	60	38.8	40.0
	Khalalpur	Khedshivpur	105	35.6	36.5
	Daulatpura	Kherki	199	23.0	23.7



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

(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	Sepembert'20 (in hrs)	October'20 (in hrs)
JNPCT	99.0	113.0
NSICT	17.4	12.7
GTI	105.7	107.4
NSIGT	90.9	109.0
BMCT	140.0	119.5

Container Handled: Day wise (October'20)



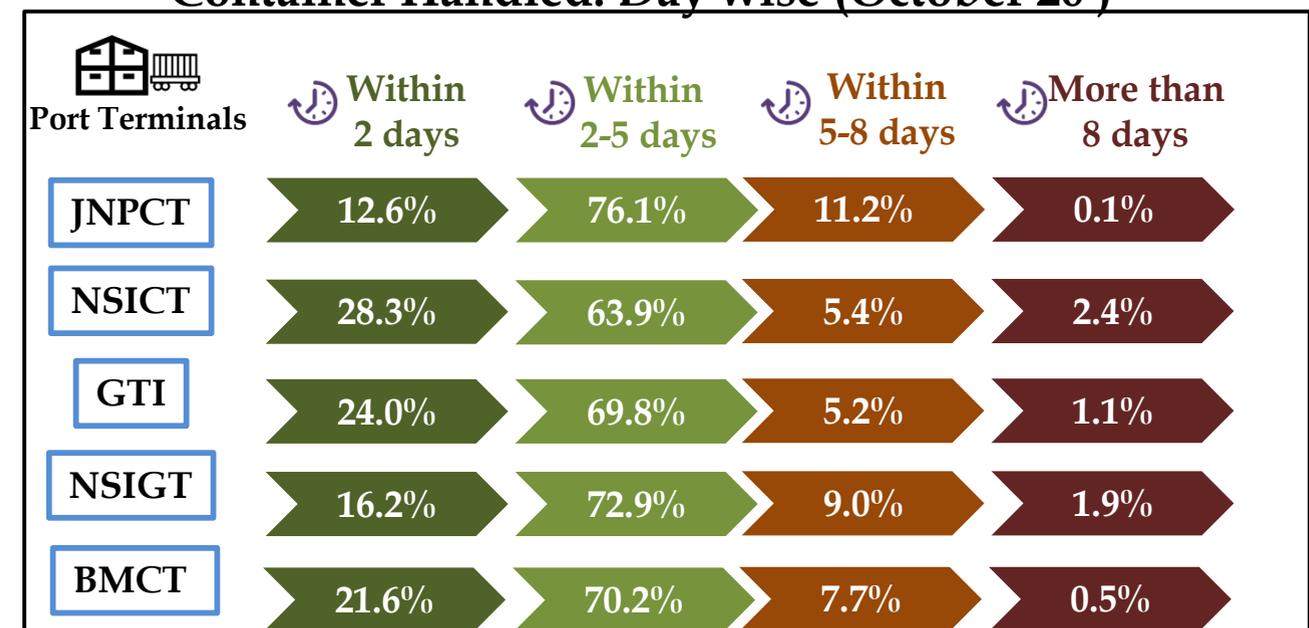
PORT EXPORT via TRUCK

(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	September'20 (in hrs)	October'20 (in hrs)
JNPCT	78.7	80.9
NSICT	70.3	68.5
GTI	75.0	73.8
NSIGT	77.0	85.3
BMCT	88.1	75.3

Container Handled: Day wise (October'20)



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

JNPCT		
Port Dwell time based on transit type		
October'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	78.9 hrs	80.0 hrs
Port Dwell time based on container type		
October'20	Laden Containers	Empty Containers
Dwell time (in hrs)	78.4 hrs	89.1 hrs

GTI		
Port Dwell time based on transit type		
October'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	79.7 hrs	70.6 hrs
Port Dwell time based on container type		
October'20	Laden Containers	Empty Containers
Dwell time (in hrs)	76.3 hrs	70.8 hrs

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

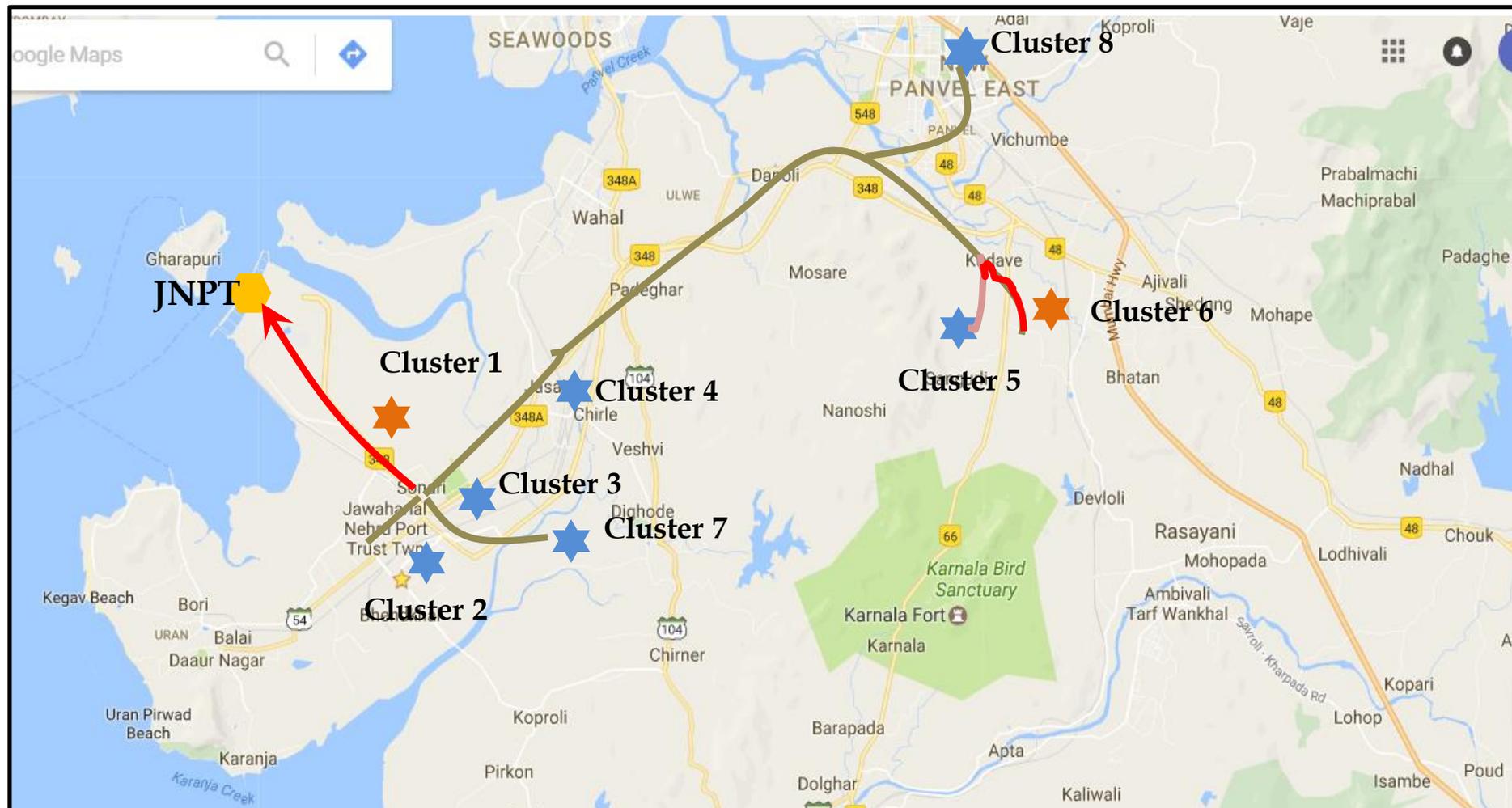
NSICT		
Port Dwell time based on transit type		
October'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.5 hrs	67.0 hrs
Port Dwell time based on container type		
October'20	Laden Containers	Empty Containers
Dwell time (in hrs)	66.5 hrs	42.1 hrs

NSIGT		
Port Dwell time based on transit type		
October'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	87.6 hrs	784.3 hrs
Port Dwell time based on container type		
October' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	86.1 hrs	31.5 hrs

BMCT		
Port Dwell time based on transit type		
October' 20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	72.0 hrs
Port Dwell time based on container type		
October'20	Laden Containers	Empty Containers
Dwell time (in hrs)	81.4 hrs	69.3 hrs

JNPT Region: Congestion Analysis (Export Cycle)

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



Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 6	Salva apta rd area, Bangalore highway

Clusters without bottleneckz

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
CLUSTER 8	Taloja, Navi Mumbai

Legends

- High Congestion (Red line)
- Medium Congestion (Orange line)
- Low Congestion (Yellow line)
- Cluster with bottleneck (Orange 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]

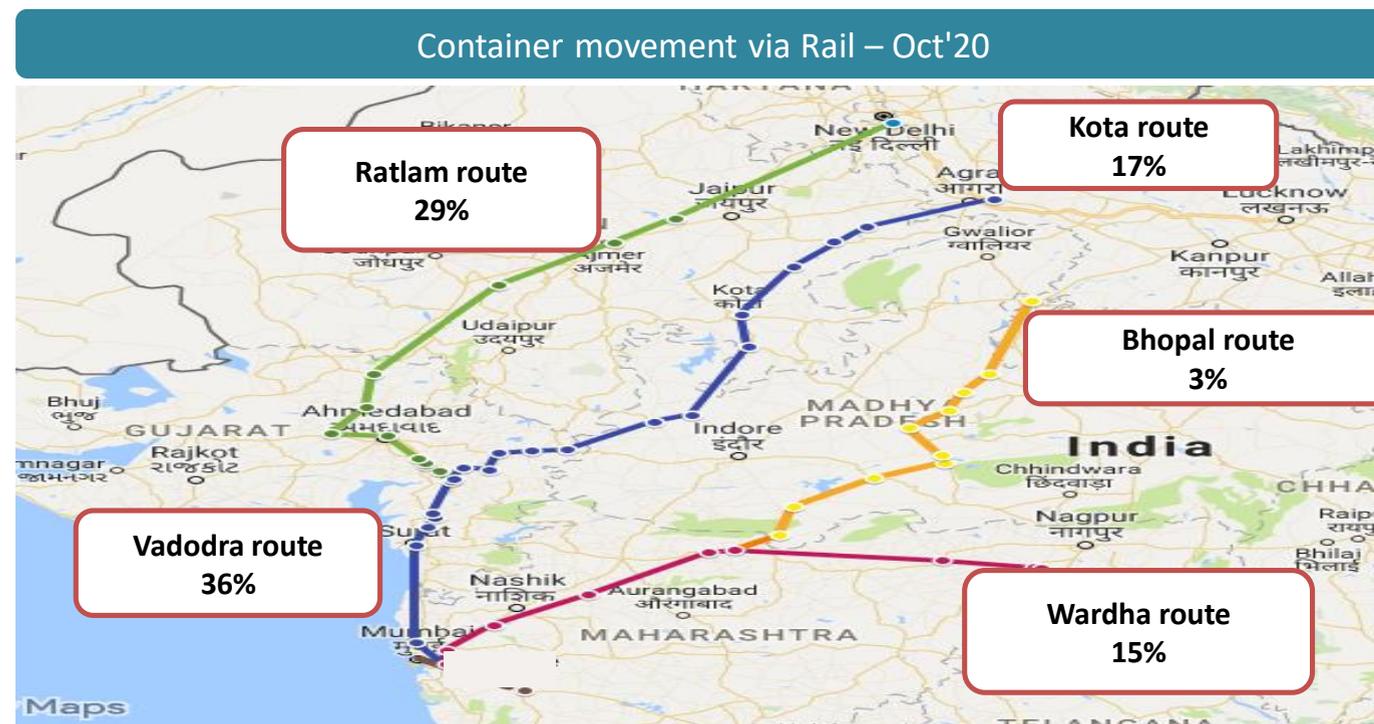
BMCT Terminal

Congestion Level
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	36%
Ratlam Route	29%
Wardha Route	15%
Kota Route	17%
Bhopal Route	3%

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



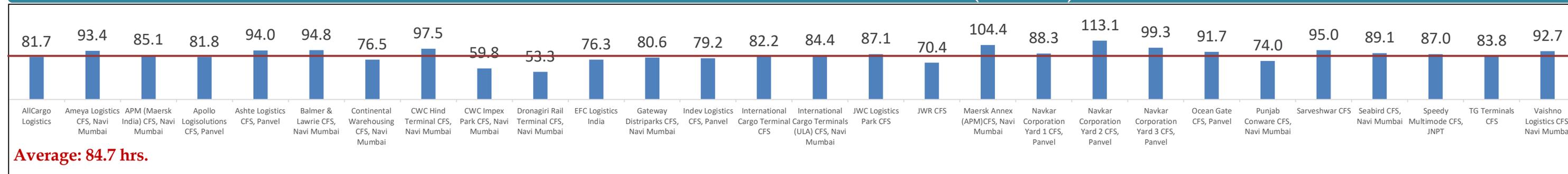
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)					
CFS	Sept'20 (in hrs)	Oct'20 (in hrs)	CFS	Sept'20 (in hrs)	Oct'20 (in hrs)
AllCargo Logistics	75.6	81.7	International Cargo Terminals (ULA) CFS, Navi Mumbai	90.4	84.4
Ameya Logistics CFS, Navi Mumbai	86.4	93.4	JWC Logistics Park CFS	83.7	87.1
APM (Maersk India) CFS, Navi Mumbai	79.7	85.1	JWR CFS	63.9	70.4
Apollo Logisolutions CFS, Panvel	91.1	81.8	Maersk Annex (APM)CFS, Navi Mumbai	91.6	104.4
Ashte Logistics CFS, Panvel	91.9	94.0	Navkar Corporation Yard 1 CFS, Panvel	92.3	88.3
Balmer & Lawrie CFS, Navi Mumbai	-	94.8	Navkar Corporation Yard 2 CFS, Panvel	120.1	113.1
Continental Warehousing CFS, Navi Mumbai	73.4	76.5	Navkar Corporation Yard 3 CFS, Panvel	87.1	99.3
CWC Hind Terminal CFS, Navi Mumbai	97.5	97.5	Ocean Gate CFS, Panvel	92.4	91.7
CWC Impex Park CFS, Navi Mumbai	-	59.8	Punjab Conware CFS, Navi Mumbai	69.3	74.0
Dronagiri Rail Terminal CFS, Navi Mumbai	67.1	53.3	Sarveshwar CFS	90.7	95.0
EFC Logistics India	77.2	76.3	Seabird CFS, Navi Mumbai	94.2	89.1
Gateway Distriparks CFS, Navi Mumbai	77.4	80.6	Speedy Multimode CFS, JNPT	73.6	87.0
Indev Logistics CFS, Panvel	72.8	79.2	TG Terminals CFS	67.9	83.8
International Cargo Terminal CFS	75.6	82.2	Vaishno Logistics CFS, Navi Mumbai	89.9	92.7

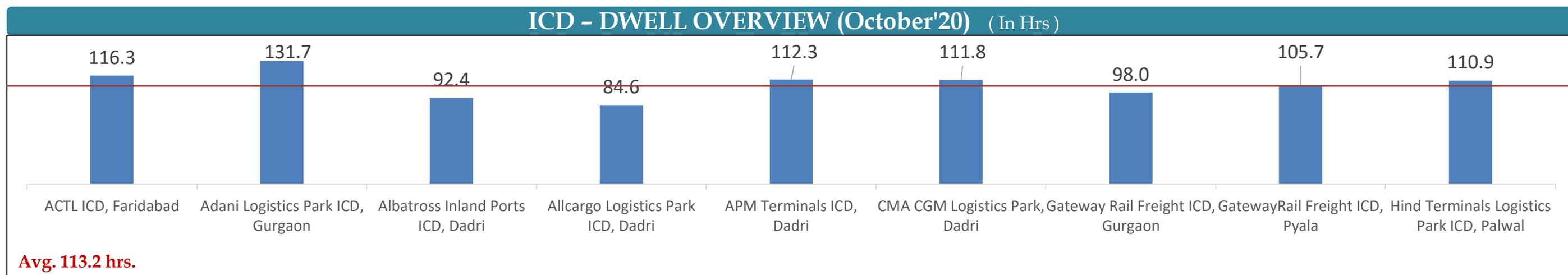
CFS - DWELL OVERVIEW - OCTOBER'20 (IN HRS)



ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Sept'20 (in hrs)	Oct'20 (in hrs)
ACTL ICD, Faridabad	129.9	116.3
Adani Logistics Park ICD, Gurgaon	116.0	131.7
Albatross Inland Ports ICD, Dadri	84.4	92.4
Allcargo Logistics Park ICD, Dadri	91.1	84.6
APM Terminals ICD, Dadri	101.1	112.3
CMA CGM Logistics Park, Dadri	93.3	111.8
Gateway Rail Freight ICD, Gurgaon	87.2	98.0
GatewayRail Freight ICD, Pyala	113.3	105.7
Hind Terminals Logistics Park ICD, Palwal	113.8	110.9

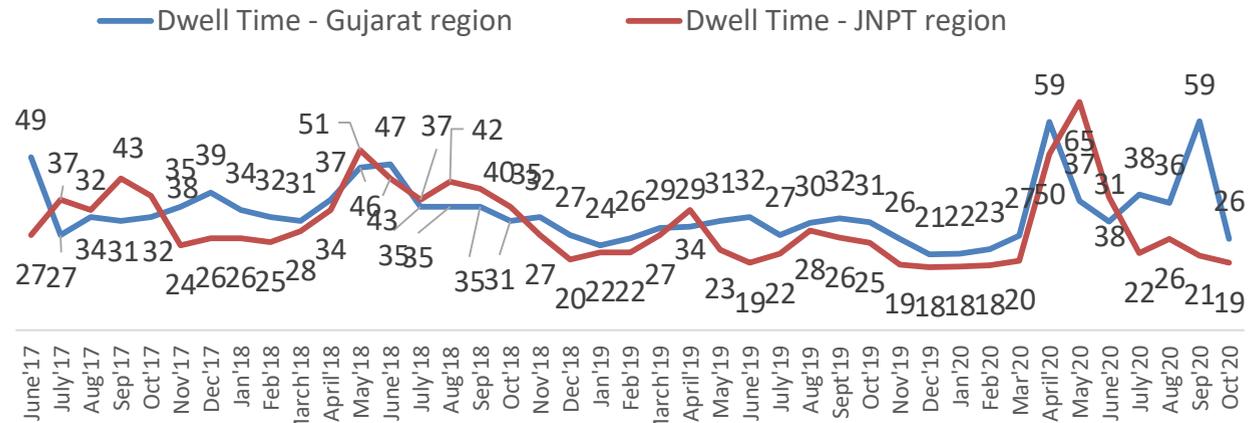


Trend Analysis

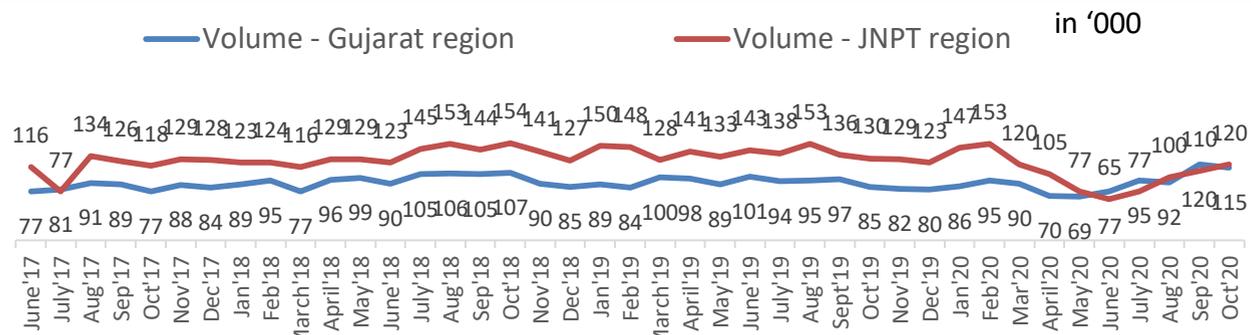
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until October'20

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



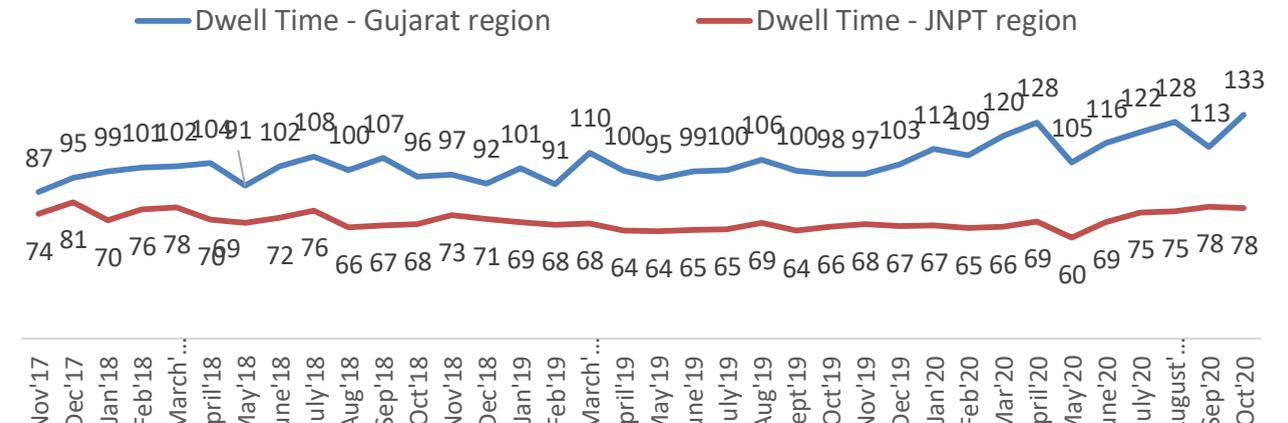
Volume – Gujarat Region Vs JNPT Region



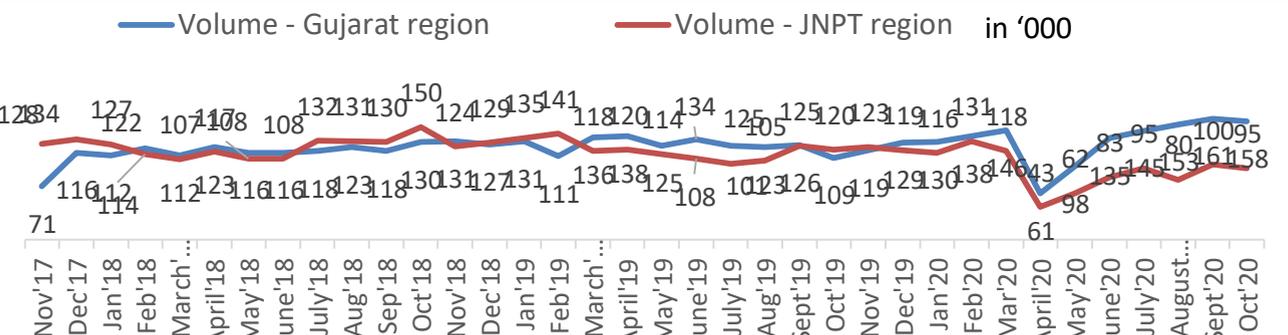
In Import cycle, for the month of October'20 JNPT port has catered 4% less volume than APSEZ Port, and has maintained 27% lower dwell time than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

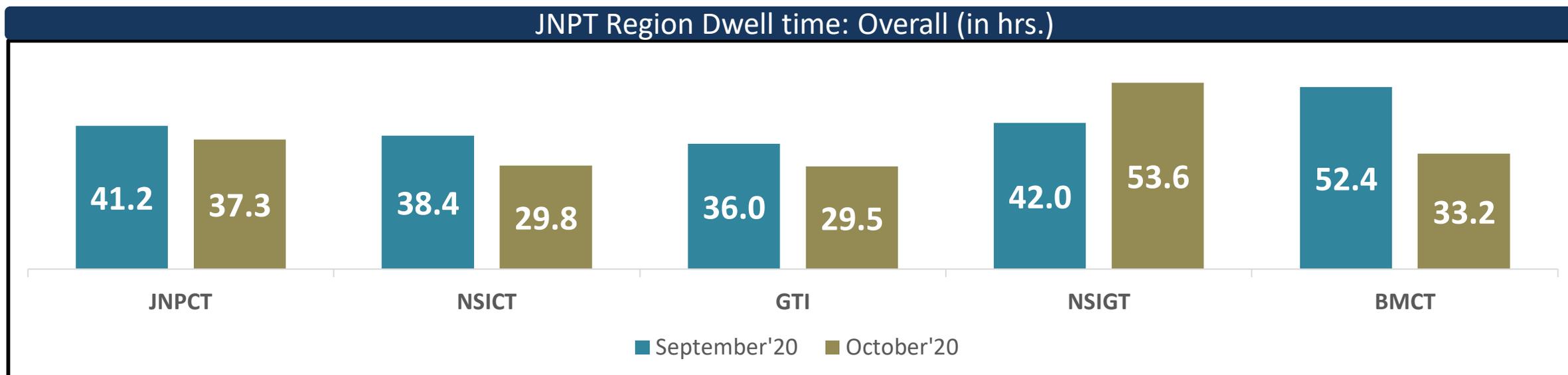


In Export cycle, for the month October'20 JNPT port catered 40% less volume than APSEZ Port, and has maintained 42% lower dwell time than APSEZ Port

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

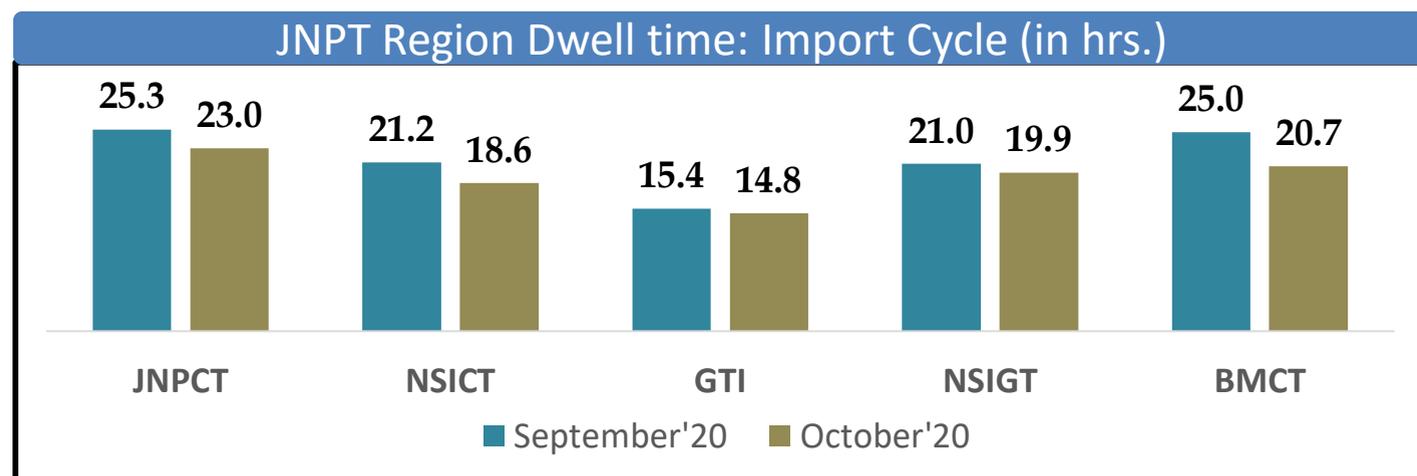


The overall JNPT region average dwell time for Oct'20 is 35.3 hrs as compared to 45.1 hrs in Sept'20

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of October'20

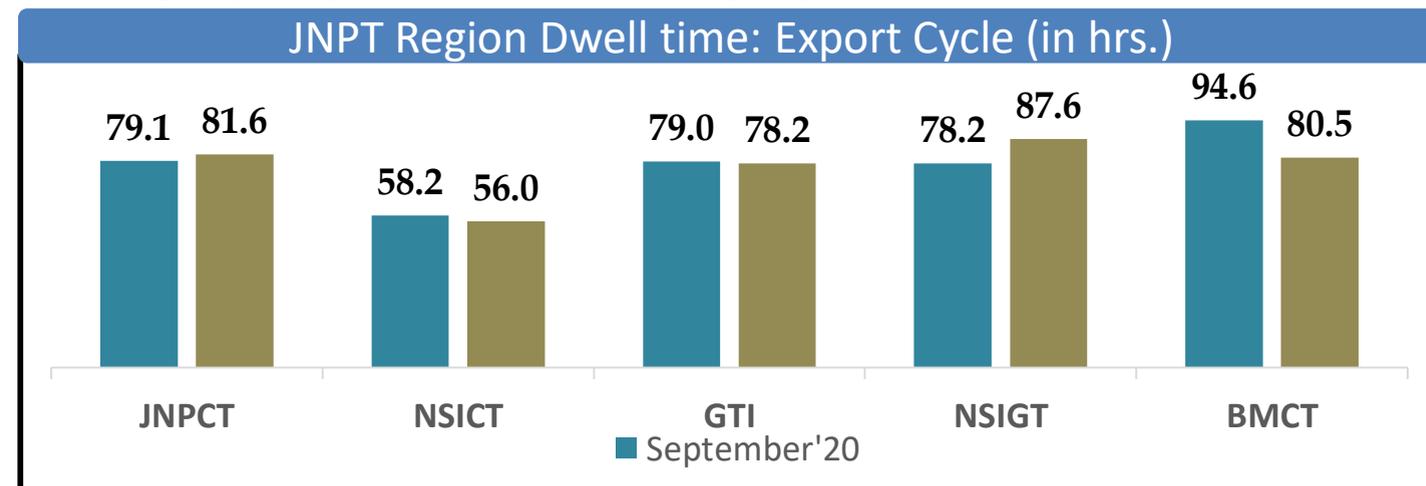
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for October'20 is 19.4 hrs.



JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for October'20 is 76.8 hrs.



ANNEXURE

Container movement around JNPT Port terminal region via Truck

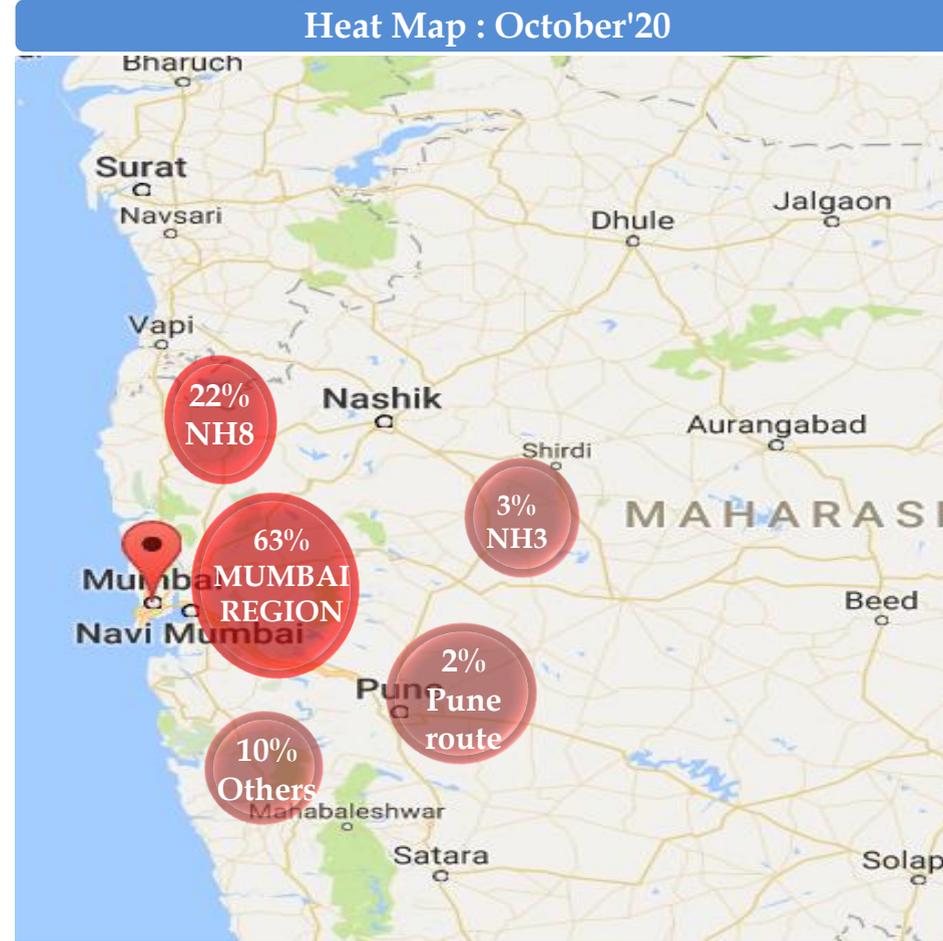
HEAT MAP : GTI Port Terminal



Region	Sept'20	Oct'20
Mumbai region	35%	54%
NH3	11%	6%
Pune	12%	6%
NH8	32%	24%
others	10%	10%

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

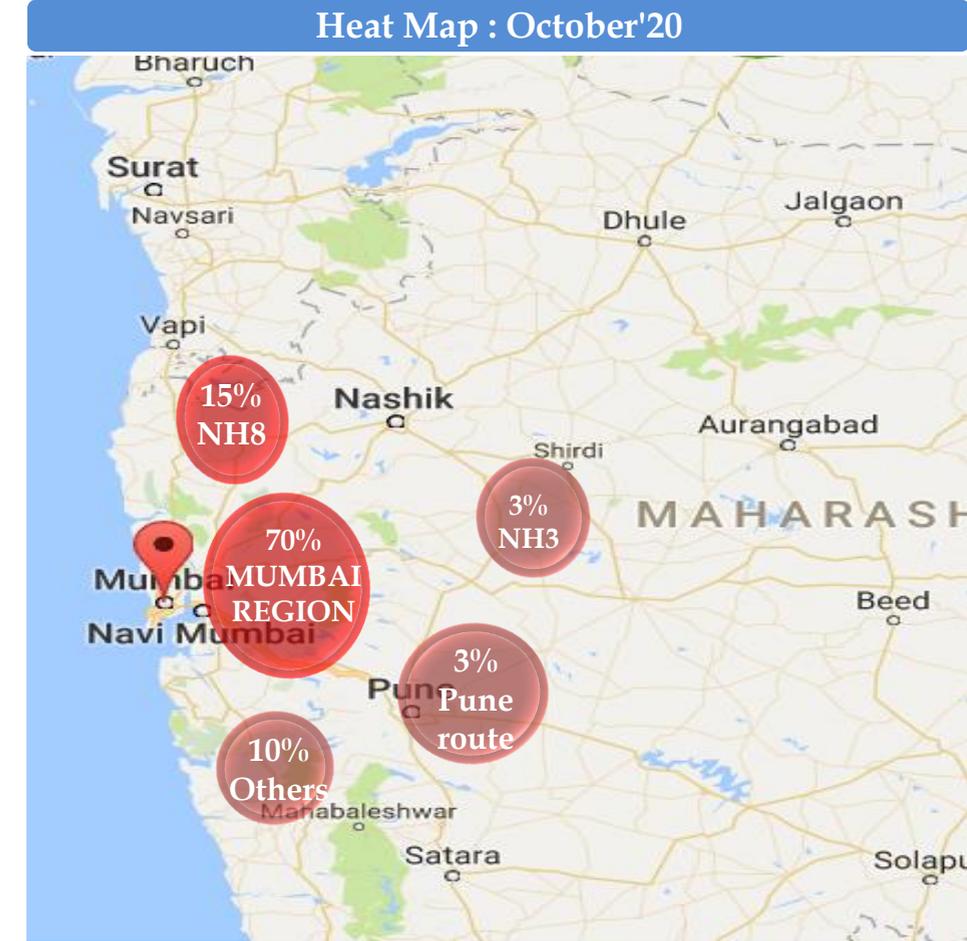
HEAT MAP : JNPCT Port Terminal



Region	Sept'20	Oct'20
Mumbai region	56%	63%
NH3	4%	3%
Pune	5%	2%
NH8	25%	22%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal



Region	Sept'20	Oct'20
Mumbai region	62%	70%
NH3	5%	3%
Pune	5%	3%
NH8	18%	15%
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	Sept'20	Oct'20
Mumbai region	53%	61%
NH3	6%	5%
Pune	6%	3%
NH8	25%	21%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Sept'20	Oct'20
Mumbai region	64%	60%
NH3	4%	4%
Pune	5%	3%
NH8	17%	23%
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 October'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.6	2.1	2.8	1.5	3.4
Punjab Conware CFS, Navi Mumbai	2.3	2.6	2.2	1.7	3.0
JWC Logistics Park CFS	2.7	3.8	2.7	2.4	3.1
CWC Hind Terminal CFS, Navi Mumbai	2.0	2.2	2.3	1.6	3.4
Dronogiri Rail Terminal CFS, Navi Mumbai	1.7	2.8	2.4	2.3	4.3
Navkar Corporation Yard 2 CFS, Panvel	5.5	6.1	7.5	4.8	5.1
Vaishno Logistics CFS, Navi Mumbai	3.2	3.0	1.9	2.6	5.7
Speedy Multimode CFS, JNPT	2.7	2.0	2.4	1.9	4.9
Balmer & Lawrie CFS, Navi Mumbai	1.1	4.8	3.1	1.4	4.4
Navkar Corporation Yard 3 CFS, Panvel	5.3	6.9	5.9	5.6	4.7
Ashte Logistics CFS, Panvel	7.6	4.2	6.1	2.1	3.1
Continental Warehousing CFS, Navi Mumbai	1.4	2.1	2.8	1.2	2.3
SBW Logistics CFS, Navi Mumbai	-	6.4	3.1	3.9	7.8
Maharashtra State Corp CFS	3.0	2.2	2.2	1.4	4.0
Internation Cargo Terminal CFS	4.1	2.5	3.0	1.9	3.4
Seabird CFS, Navi Mumbai	1.4	3.4	2.5	1.6	3.1
Apollo Logisolutions CFS, Panvel	7.8	4.1	7.8	3.8	5.9
Ameya Logistics CFS, Navi Mumbai	2.1	2.0	2.2	2.3	2.9
Transindia Logistics Park, Navi Mumbai	2.7	2.4	2.5	1.9	3.7
Ocean Gate CFS, Panvel	3.9	3.3	3.1	2.1	1.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.8	3.3	2.9	2.5	1.9
Indev Logistics CFS, Panvel	2.4	2.7	3.6	2.6	2.7
CWC Dronagiri CFS, Navi Mumbai	5.0	-	-	-	-
APM (Maersk India) CFS, Navi Mumbai	1.7	1.7	3.3	1.6	4.8

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'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.4
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	2.3
Transindia Logistics Park, Navi Mumbai	2.8
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	2.3
Ashte Logistics CFS, Panvel	3.2
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	2.2
Dronogiri Rail Terminal CFS, Navi Mumbai	2.3
Navkar Corporation Yard 1 CFS, Panvel	5.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.4
Maersk Annex (APM)CFS, Navi Mumbai	2.7
Speedy Multimode CFS, JNPT	2.3
Apollo Logisolutions CFS, Panvel	3.2
Navkar Corporation Yard 2 CFS, Panvel	5.5
Punjab Conware CFS, Navi Mumbai	2.1
Vaishno Logistics CFS, Navi Mumbai	2.0
JWC Logistics Park CFS	3.0
SBW Logistics CFS, Navi Mumbai	3.5
Ocean Gate CFS, Panvel	3.3
Maharashtra State Corp CFS	26.0

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'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	1.7
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	2.3
Transindia Logistics Park, Navi Mumbai	2.6
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	1.8
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.9
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	2.3
Navkar Corporation Yard 1 CFS, Panvel	6.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	1.9
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	3.2
Navkar Corporation Yard 2 CFS, Panvel	4.6
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	1.8
JWC Logistics Park CFS	2.5
SBW Logistics CFS, Navi Mumbai	2.2
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	2.1

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'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.0
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	2.2
Ameya Logistics CFS, Navi Mumbai	2.6
Transindia Logistics Park, Navi Mumbai	2.9
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	3.6
Seabird CFS, Navi Mumbai	1.9
Balmer & Lawrie CFS, Navi Mumbai	2.3
Ashte Logistics CFS, Panvel	3.1
Continental Warehousing CFS, Navi Mumbai	2.3
CWC Hind Terminal CFS, Navi Mumbai	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	4.6
Navkar Corporation Yard 1 CFS, Panvel	4.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.8
Maersk Annex (APM)CFS, Navi Mumbai	2.2
Speedy Multimode CFS, JNPT	2.1
Apollo Logisolutions CFS, Panvel	3.3
Navkar Corporation Yard 2 CFS, Panvel	5.9
Punjab Conware CFS, Navi Mumbai	3.1
Vaishno Logistics CFS, Navi Mumbai	2.3
JWC Logistics Park CFS	5.1
SBW Logistics CFS, Navi Mumbai	13.2
Ocean Gate CFS, Panvel	3.6
Maharashtra State Corp CFS	14.8

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

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

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

CFS	Oct'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.3
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	1.8
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	5.9
Seabird CFS, Navi Mumbai	2.1
Balmer & Lawrie CFS, Navi Mumbai	1.9
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	2.0
CWC Hind Terminal CFS, Navi Mumbai	2.2
Dronogiri Rail Terminal CFS, Navi Mumbai	11.0
Navkar Corporation Yard 1 CFS, Panvel	4.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	7.0
Apollo Logisolutions CFS, Panvel	3.0
Navkar Corporation Yard 2 CFS, Panvel	7.7
Punjab Conware CFS, Navi Mumbai	4.6
Vaishno Logistics CFS, Navi Mumbai	2.0
JWC Logistics Park CFS	2.8
SBW Logistics CFS, Navi Mumbai	4.0
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	16.6

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'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	2.4
Transindia Logistics Park, Navi Mumbai	2.5
Indev Logistics CFS, Panvel	3.5
Navkar Corporation Yard 3 CFS, Panvel	3.5
Seabird CFS, Navi Mumbai	2.0
Balmer & Lawrie CFS, Navi Mumbai	2.9
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.8
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	3.7
Navkar Corporation Yard 1 CFS, Panvel	4.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	2.6
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	3.0
Navkar Corporation Yard 2 CFS, Panvel	3.5
Punjab Conware CFS, Navi Mumbai	2.4
Vaishno Logistics CFS, Navi Mumbai	1.9
JWC Logistics Park CFS	3.0
SBW Logistics CFS, Navi Mumbai	4.1
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	30.6

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'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.3	2.0
Cluster 2	6	13	2.4	2.4
Cluster 3	6	11	2.2	2.7
Cluster 4	1	13	2.0	3.0
Cluster 5	2	25	3.1	3.5
Cluster 6	6	25	3.5	4.2
Cluster 7	4	12	2.3	2.1
Cluster 8	1	34	3.5	6.4

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Oct'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	2.7
Cluster 2	6	13	1.9	2.3
Cluster 3	6	11	2.1	2.0
Cluster 4	1	13	1.8	3.2
Cluster 5	2	25	2.9	3.3
Cluster 6	6	25	3.4	5.5
Cluster 7	4	12	2.3	2.1
Cluster 8	1	34	2.2	0.0

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

GTI terminal for month of Oct'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.1	2.4
Cluster 2	6	13	2.2	2.9
Cluster 3	6	11	3.9	2.3
Cluster 4	1	13	2.3	0.0
Cluster 5	2	25	4.3	2.9
Cluster 6	6	25	3.5	6.1
Cluster 7	4	12	2.6	2.5
Cluster 8	1	34	13.2	3.1

CFS Cluster : NSIGT Terminal

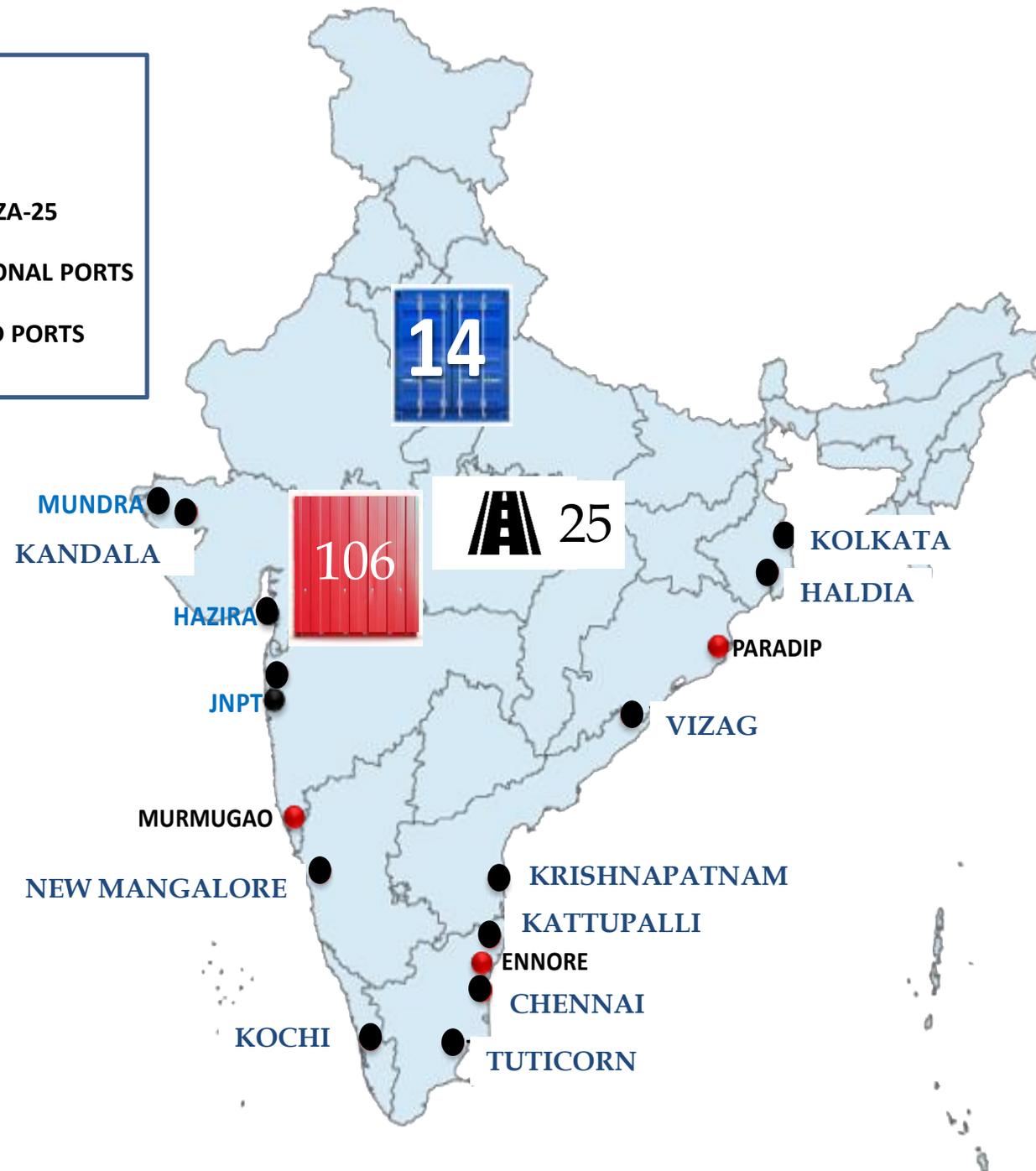
JNPCT terminal for month of Oct'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	7.0	1.9
Cluster 2	6	13	2.1	1.6
Cluster 3	6	11	2.0	1.6
Cluster 4	1	13	2.0	2.6
Cluster 5	2	25	3.0	2.3
Cluster 6	6	25	3.9	3.8
Cluster 7	4	12	2.0	1.9
Cluster 8	1	34	4.0	3.9

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Oct'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	4.9
Cluster 2	6	13	2.2	3.4
Cluster 3	6	11	2.0	3.5
Cluster 4	1	13	1.9	5.7
Cluster 5	2	25	3.0	2.4
Cluster 6	6	25	3.5	4.7
Cluster 7	4	12	2.4	2.9
Cluster 8	1	34	4.1	7.8

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**

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



Below mentioned are all the CFS in the respective Clusters :

<p style="text-align: center;">Cluster 1 (JNPT Area)</p> <ul style="list-style-type: none"> Speedy Multimode CFS, JNPT 	<p style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">Cluster 4 (Chirle area, JNPT road)</p> <ul style="list-style-type: none"> Vaishno Logistics CFS, Navi Mumbai 	<p style="text-align: center;">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 style="text-align: center;">Cluster 5 (Plaspa area, Coachi kanyakumari Highway)</p> <ul style="list-style-type: none"> JWC Logistics Park CFS Ocean Gate CFS, Panvel 	
	<p style="text-align: center;">Cluster 8 SBW</p>	

List of CFS name used in CFS Performance Index

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



THANK YOU