




Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	August'20 (in hrs)	September'20 (in hrs)	Port	August'20 (in hrs)	September'20 (in hrs)
JNPCT	26.5	25.3	JNPCT	71.4	79.1
NSICT	25.8	21.2	NSICT	71.2	58.2
GTI	23.3	15.4	GTI	96.1	79.0
NSIGT	26.4	21.0	NSIGT	63.6	78.2
BMCT/PSA	29.0	25.0	BMCT/PSA	72.9	95.0

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- Container handling performance in Export cycle has deteriorated whereas Container handling performance in Port Import cycle has improved
- Container handling performance at CFS has improved as compared to last month

Month	Import Cycle - Dwell Time	Export Cycle - Dwell Time	CFS Dwell Time
September'20	21.1 hrs 	78.2 hrs 	81.2 hrs 
August'20	25.9 hrs	75.4 hrs	92.9 hrs

Port Dwell Time

IMPORT

Mode	Aug'20 (in hrs)	Sept'20 (in hrs)
Overall	30.2	35.0
Truck	29.1	33.77
Train	38.5	42.73

EXPORT

Mode	Aug'20 (in hrs)	Sept'20 (in hrs)
Overall	102.9	96
Truck	99.6	93.85
Train	117.7	105.30

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



Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Aug'20 (in hrs)	Sept'20 (in hrs)
CFS	89.3	114
ICD	113.7	85.38

The marked entries showcase increase in performance in comparison to Aug'20

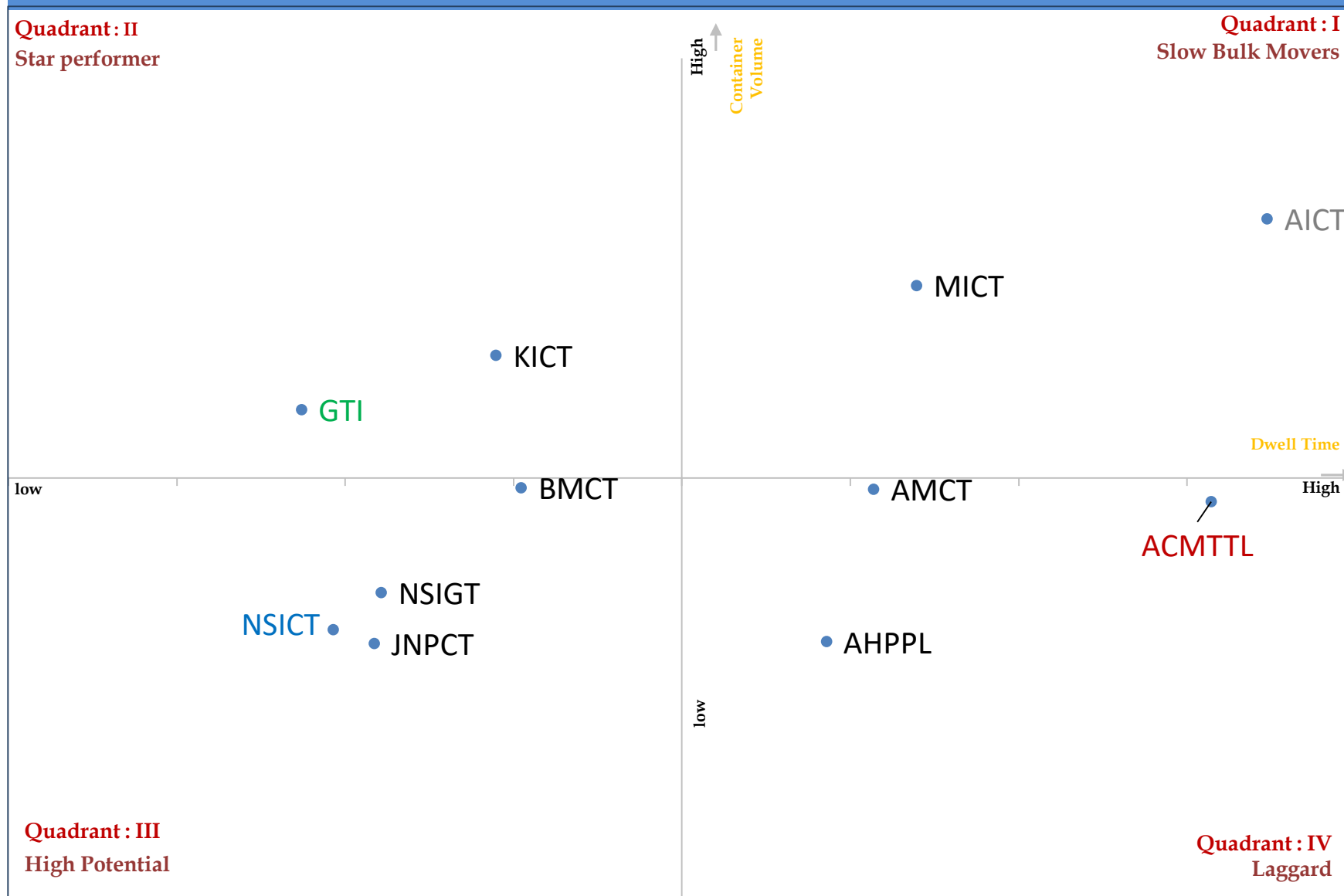
The marked entries showcase decrease in performance in comparison to Aug'20



Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index - Sept'2020



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

Top Performing Terminal

Gateway Terminals India (GTI)

Aug'20

43 Hrs

Sept'20

36 Hrs. ↑

Low Performing Terminal

Adani CMA Mundra Terminal (ACMTPL)

Aug'20

109 Hrs.

Sept'20

104 ↑

Note: The performance benchmarking is based on performance index



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

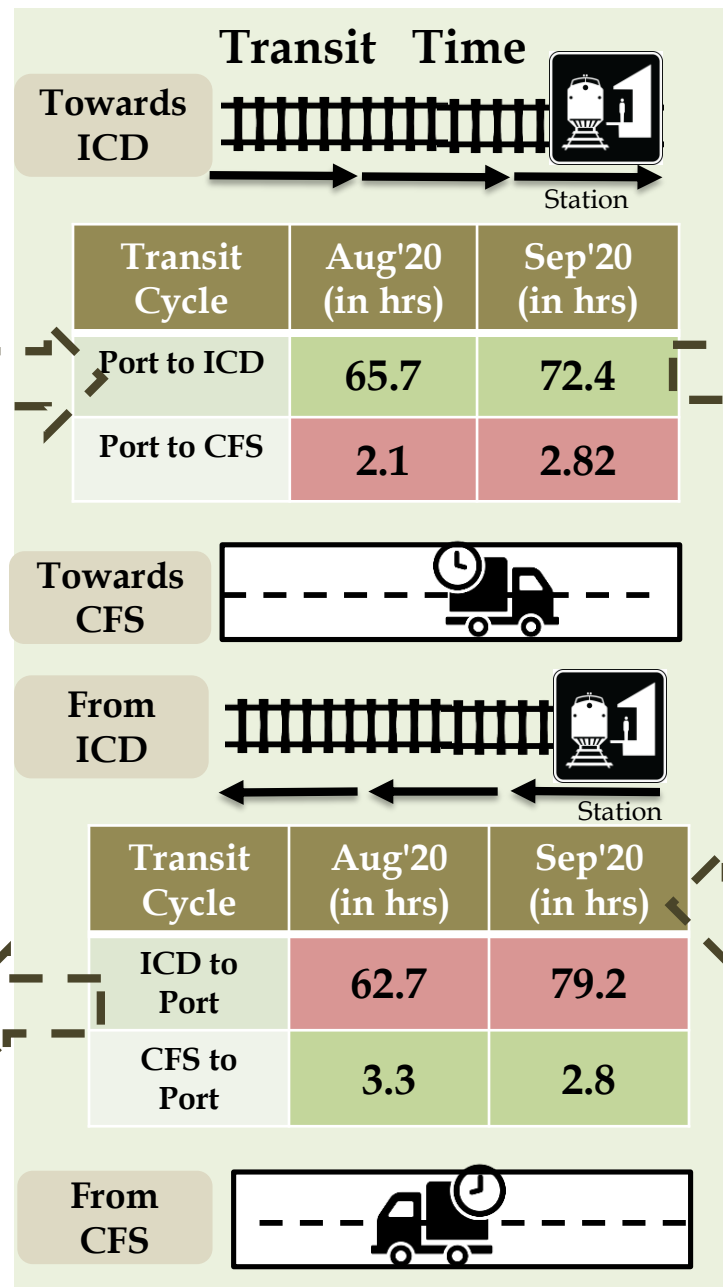
IMPORT

Port Dwell Time

Mode	Aug'20 (in hrs)	Sep'20 (in hrs)
Overall	25.9	21.1
Truck	23.9	18.67
Train	36.58	34.52

EXPORT

Mode	Aug'20 (in hrs)	Sep'20 (in hrs)
Overall	75.4	78.2
Truck	74.9	77.88
Train	78.8	81.10



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

Entity	Aug'20 (in hrs)	Sep'20 (in hrs)
CFS	92.9	81.25
ICD	113.7	104.2

Volume distribution at port terminal - Truck/Rail

	Truck	Rail
Import	80%	20%
Export	80%	20%

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (Sep'20 - in hrs)			Compared to Aug'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	21.9	15% ↑
	Port Dwell Time for Truck Bound Containers	18.7	22% ↑
	Port Dwell time for Train Bound Containers	34.5	6% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	31.0	28% ↑
	Port Dwell time Containers bound for CFS	15.8	19% ↑
	Port Dwell for Empty Containers	28.6	28% ↑
	Port Dwell for Laden Containers	19.0	14% ↑
TRANSIT TIME	Port to ICD	72.4	10% ↓
	Port to CFS	2.8	33% ↓

EXPORT CYCLE DWELL TIME (Sep'20- in hrs)			Compared to Aug'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	78.2	4% ↓
	Port Dwell Time for Truck Bound Containers	77.9	4% ↓
	Port Dwell time for Train Bound Containers	81.1	3% ↓
	Port Dwell time Direct Port Entry (DPE) containers	77.5	3% ↑
	Port Dwell time Containers bound from CFS	73.7	4% ↑
	Port Dwell for Empty Containers	78.0	15% ↓
	Port Dwell for Laden Containers	78.2	2% ↓
TRANSIT TIME	ICD to Port	79.2	26% ↓
	CFS to Port	2.8	15% ↑

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

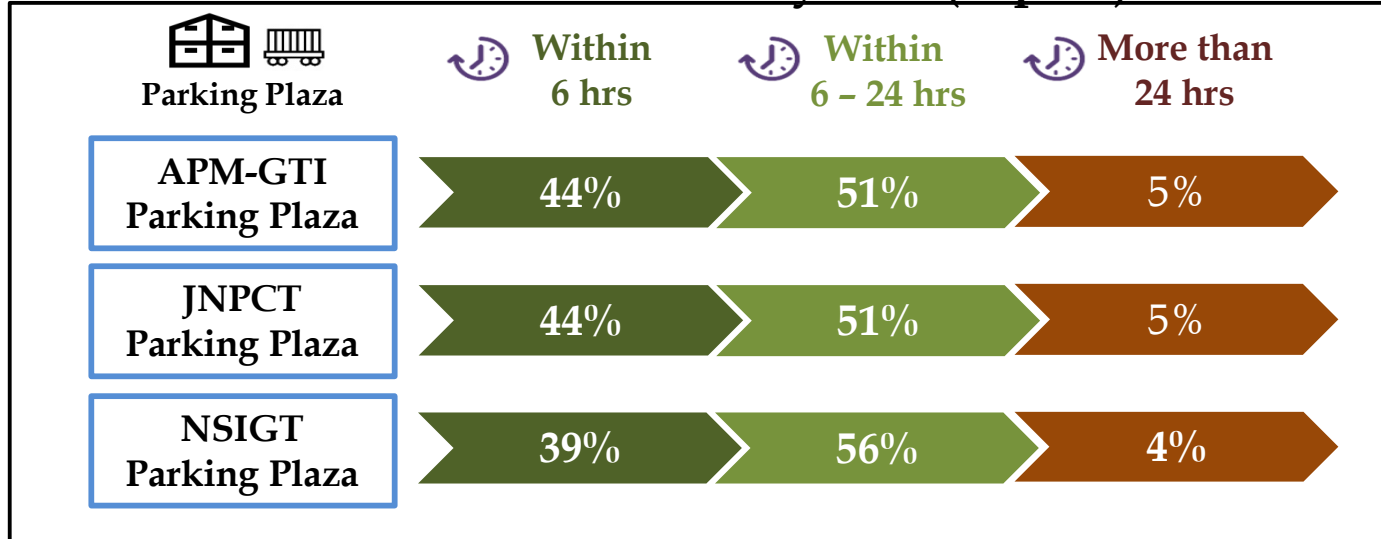


Parking Plaza Gate In - Gate Out

Mode	Aug'20 (in hrs)	Sep'20 (in hrs)
Overall Parking Plaza	7.2	7.0

Parking Plaza	Aug'20 (in hrs)	Sep'20 (in hrs)
APM-GTI Parking Plaza	7.5	6.7
JNPCT Parking Plaza	6.0	6.2
NSIGT Parking Plaza	7.1	7.2

Container Handled: Day wise (Sep'20)

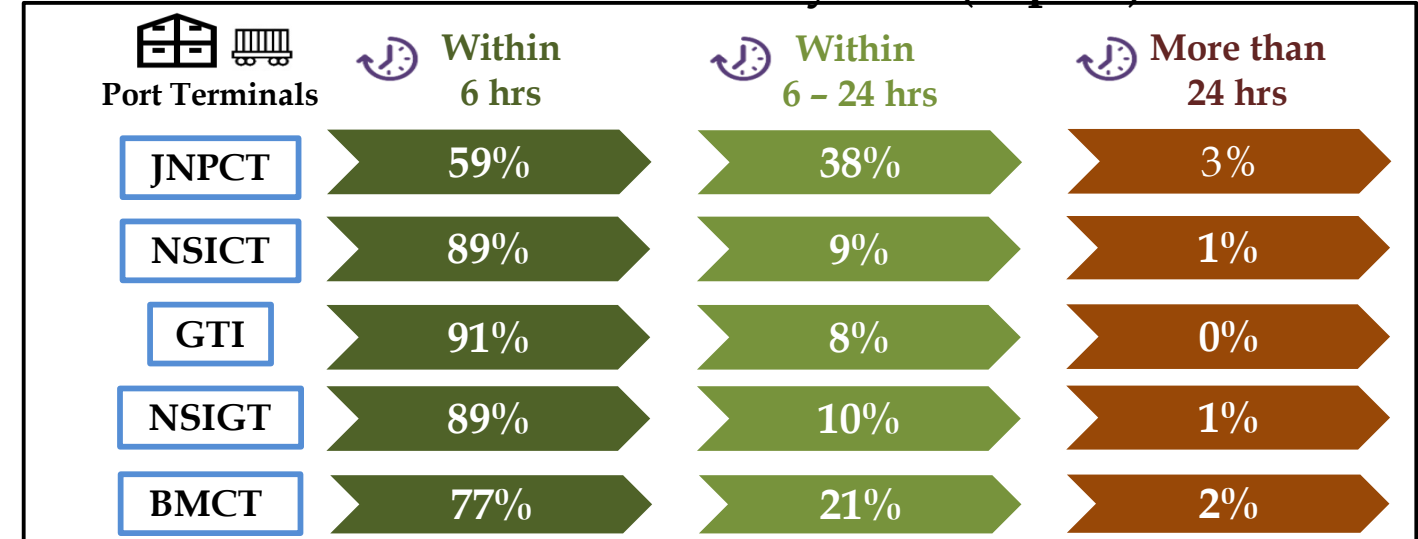


Parking Plaza Gate Out - Terminal In

Mode	Aug'20 (in hrs)	Sep'20 (in hrs)
Overall Parking Plaza to JNPT Port	2.19	1.3

Port	Aug'20 (in hrs)	Sep'20 (in hrs)
JNPCT	2.2	5.3
NSICT	1.4	1.1
GTI	2.5	1.4
NSIGT	0.8	1.1
BMCT	3.9	3.1

Container Handled: Day wise (Sep'20)





Performance Benchmarking



Top Performing CFS

All Cargo Logistics	
Aug'20	Sept'20
92.2 hrs.	75.6 hrs.

Low Performing CFS

Take Care Logistics	
Aug'20	Sept'20
138.3 hrs.	122.4 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'20.

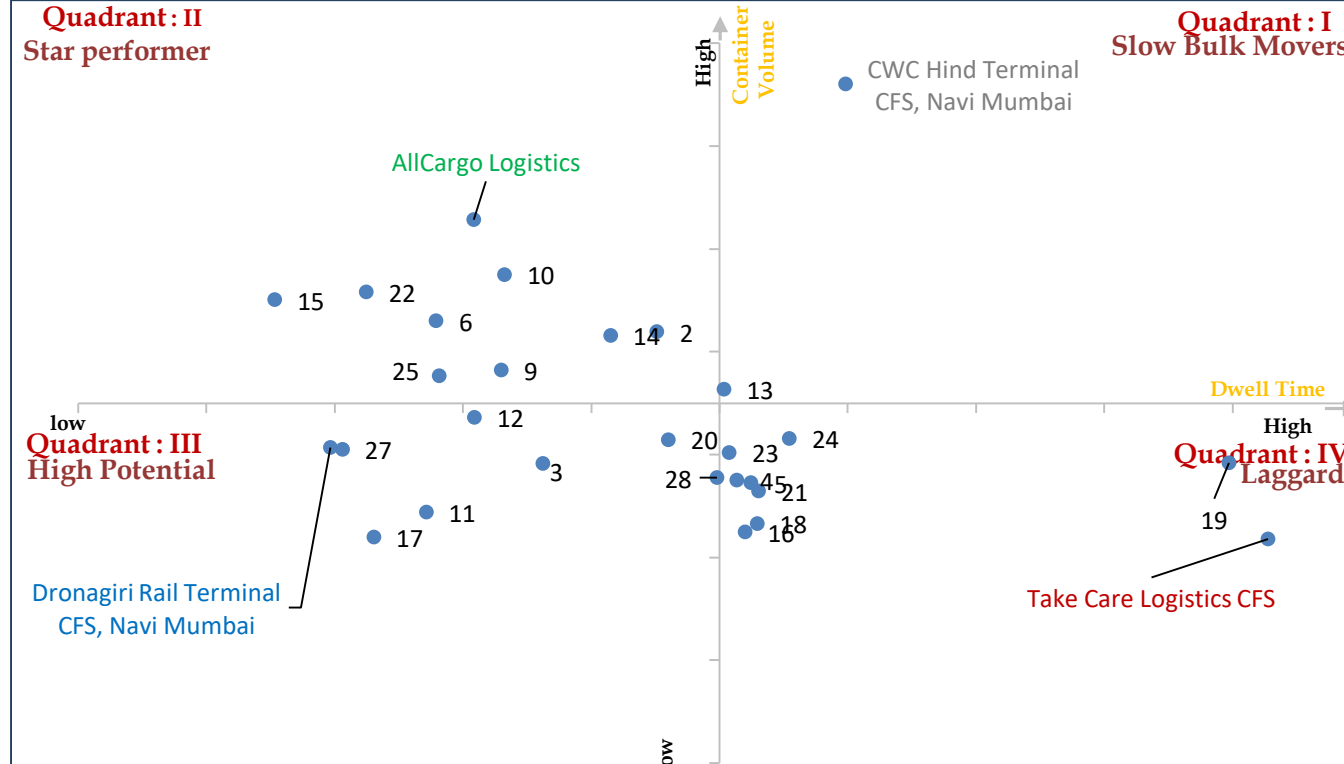
Top Performing ICD

Albatross Inland Ports ICD, Dadri	
Aug'20	Sept'20
92 hrs	84.4 hrs

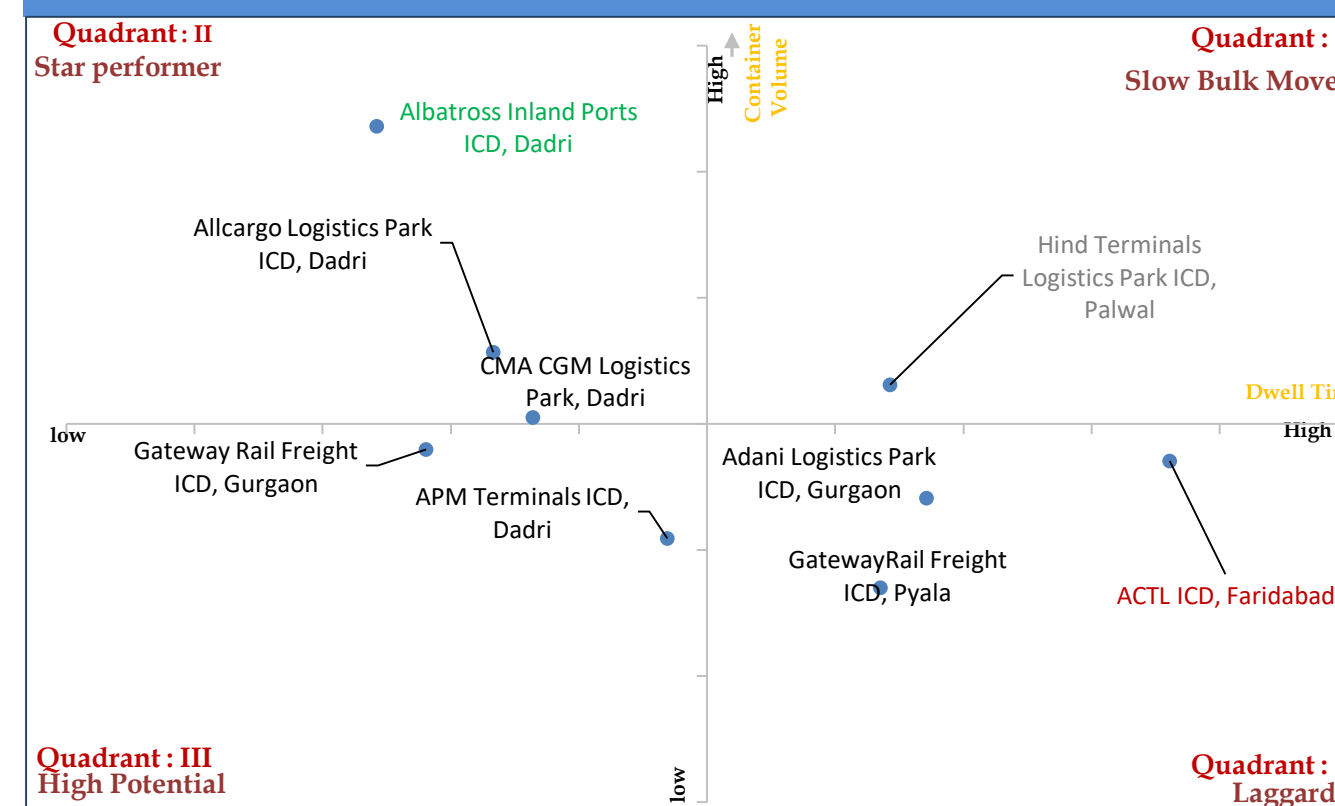
Low Performing ICD

ACTL ICD, Faridabad	
Aug'20	Sept'20
124.9 hrs	129.9 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

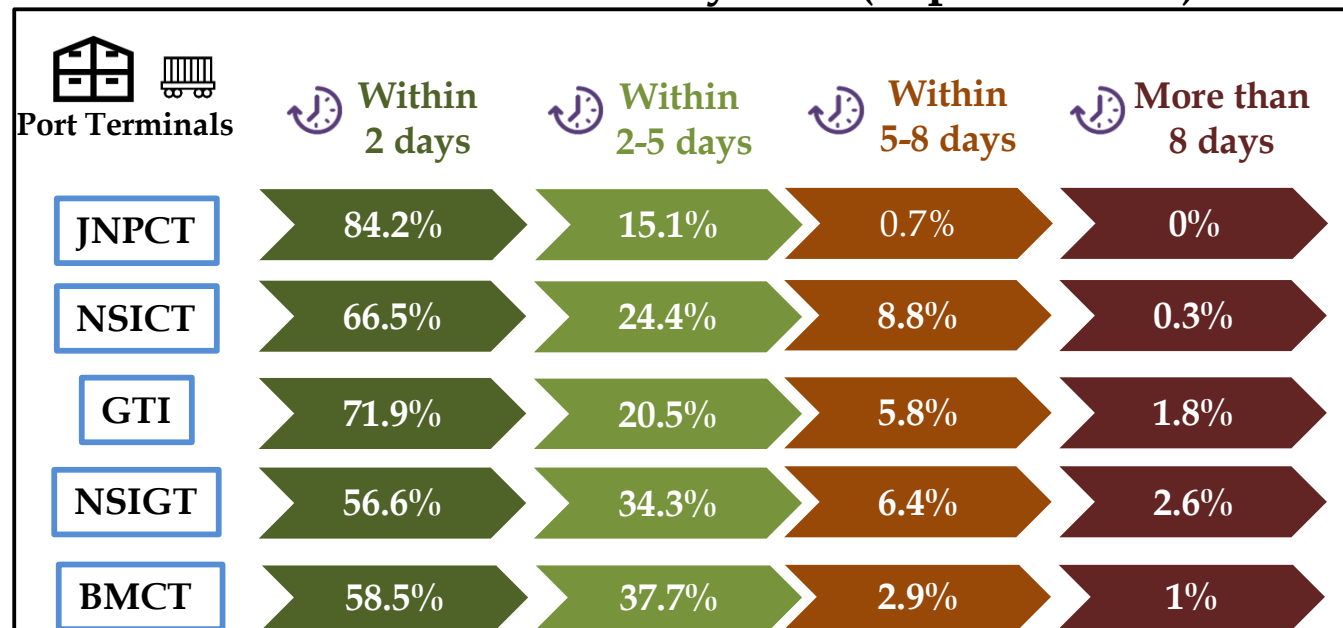
PORT IMPORT via TRAIN

(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	August'20 (in hrs)	September'20 (in hrs)
JNPCT	27.2	26.2
NSICT	32.9	32.8
GTI	36.1	27.1
NSIGT	54.0	42.0
BMCT	40.8	41.0

Container Handled: Day wise (September'20)



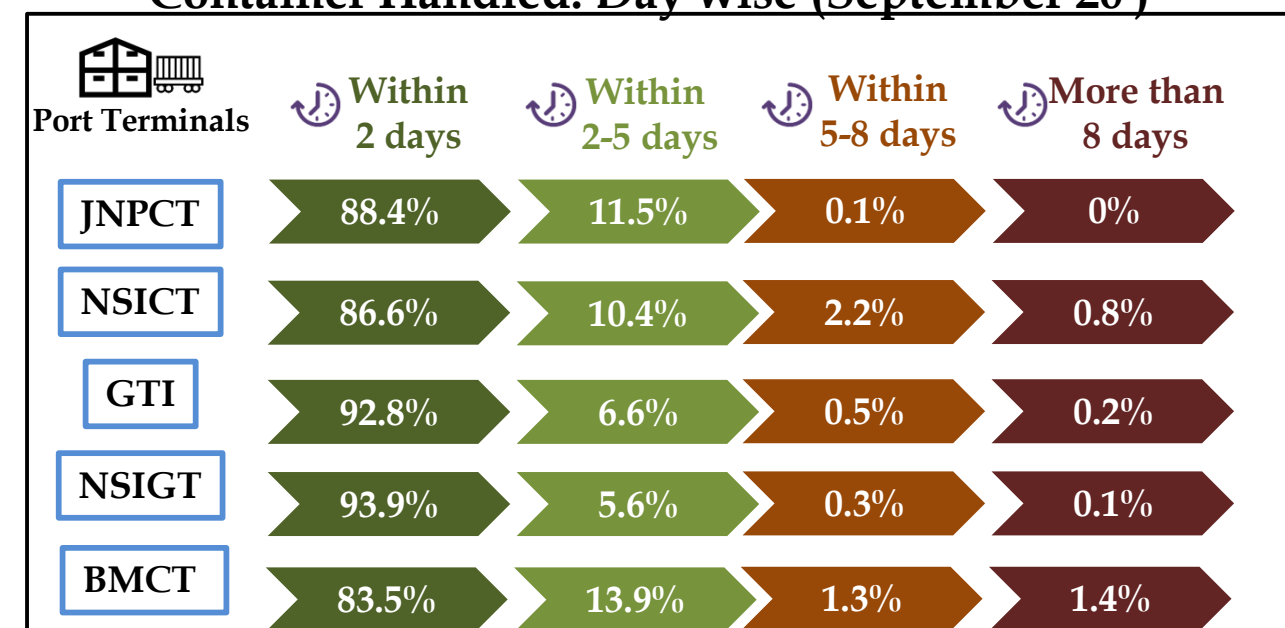
PORT IMPORT via TRUCK

(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	August'20 (in hrs)	September'20 (in hrs)
JNPCT	26.0	24.8
NSICT	24.3	19.2
GTI	21.0	13.5
NSIGT	23.6	17.2
BMCT	26.1	22.1

Container Handled: Day wise (September'20)



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

JNPCT		
Port Dwell time based on transit type		
September'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	34.9 hrs	23.4 hrs
Port Dwell time based on container type		
September'20	Laden Containers	Empty Containers
Dwell time (in hrs)	24.3 hrs	35.2 hrs

GTI		
Port Dwell time based on transit type		
September'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	26.8 hrs	11.4 hrs
Port Dwell time based on container type		
September'20	Laden Containers	Empty Containers
Dwell time (in hrs)	14.3 hrs	24.7 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT		
Port Dwell time based on transit type		
September' 20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	36.9 hrs	16.5 hrs
Port Dwell time based on container type		
September' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	19.2 hrs	23.9 hrs

NSIGT		
Port Dwell time based on transit type		
September' 20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.7 hrs	13.6 hrs
Port Dwell time based on container type		
September' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	17.6 hrs	26.6 hrs

BMCT		
Port Dwell time based on transit type		
September' 20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	31.5 hrs	17.6 hrs
Port Dwell time based on container type		
September' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	21.4 hrs	34.2 hrs

JNPT Region: Congestion Analysis (Import Cycle)

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



Clusters with bottleneck

CLUSTER 1	JNPT Area
-----------	-----------

Clusters without bottleneck

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

Legends

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

GTI Terminal

Congestion Level
Import Cycle :-

JNPCT Terminal

Congestion Level
Import Cycle :-

NSICT Terminal

Congestion Level
Import Cycle :-

NSIGT Terminal

Congestion Level
Import Cycle :-

BMCT Terminal

Congestion Level
Export Cycle :-

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

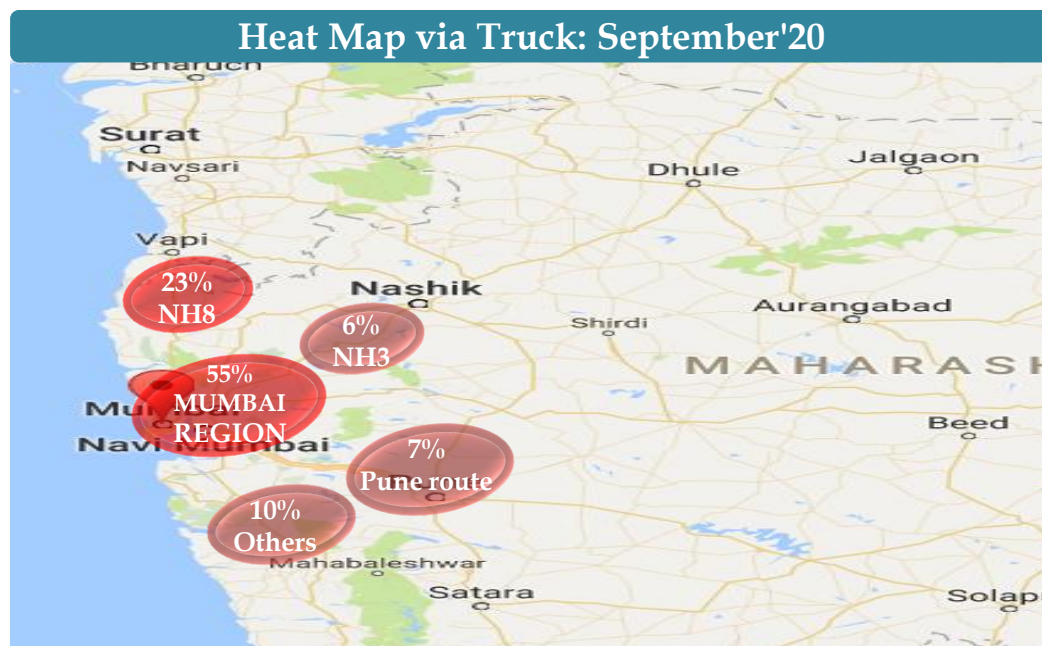
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	September'20
Mumbai region	55%
NH3	6%
Pune	7%
NH8	23%
others	10%

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

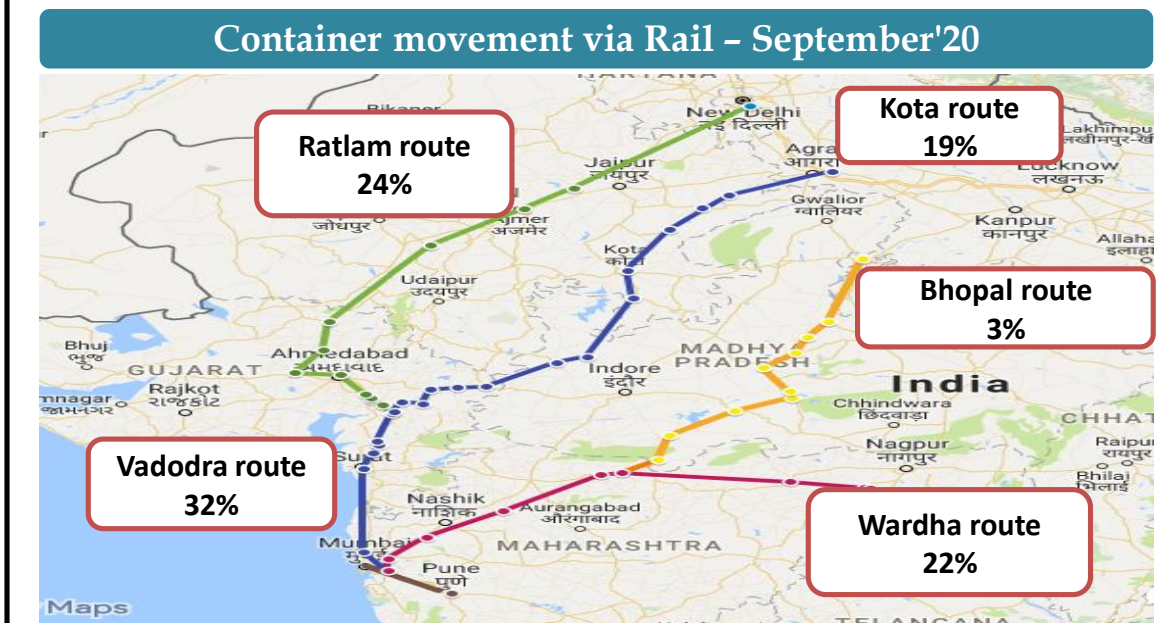


Train

VOLUME WISE CONTAINER MOVEMENT

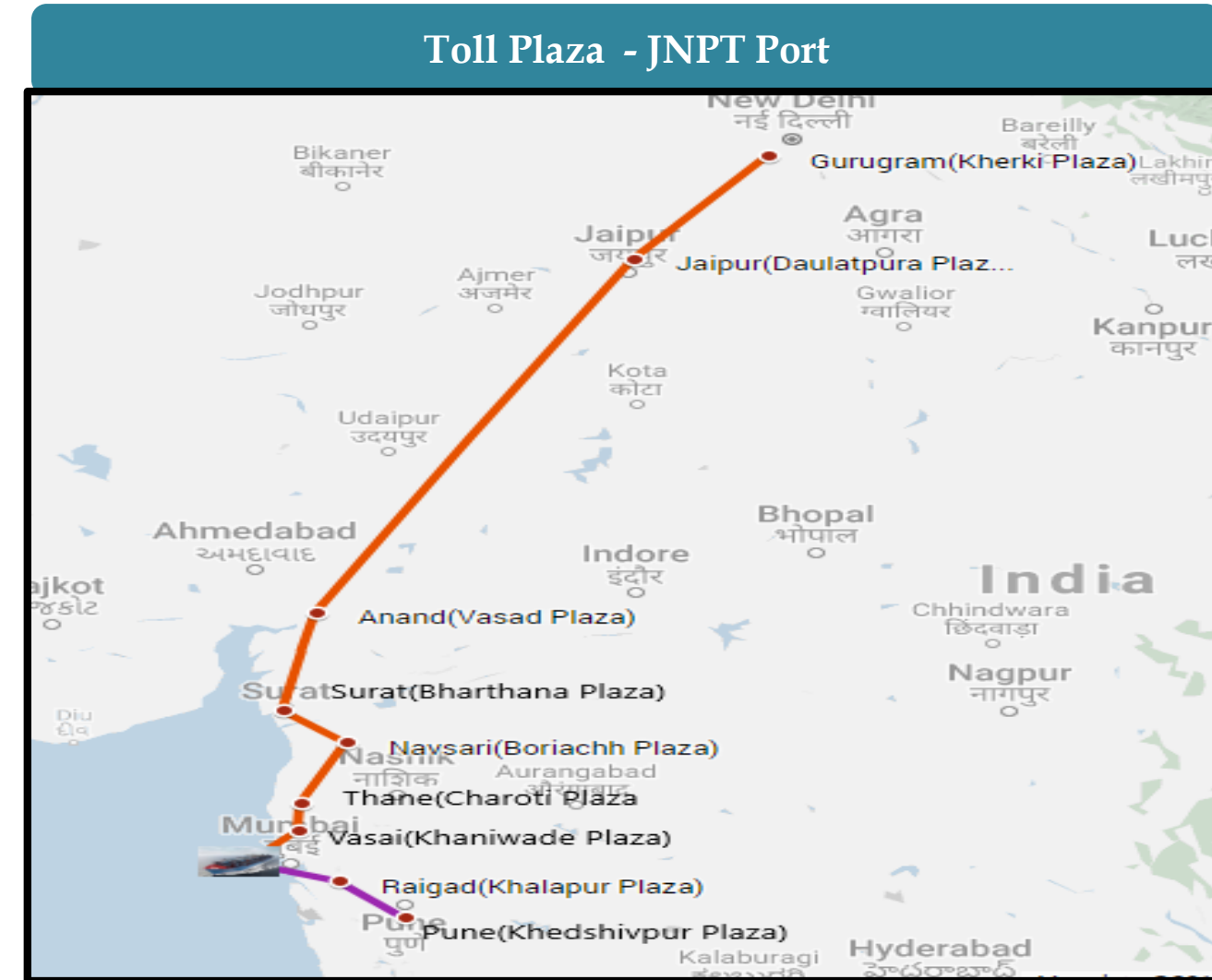
Region	September'20
Vadodra Route	32%
Ratlam Route	24%
Wardha Route	22%
Kota Route	19%
Bhopal Route	3%

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



Avg. Speed between Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	August'20 (in km/hrs)	September' 20 (in km/hrs)
JNPT	JNPT	Khaniwade	94	11.3	4.5
	JNPT	Khalapur	60	12.5	2.3
	Khaniwade	Charoti	50	19.8	30.3
	Charoti	Boriach	126	24.2	25.1
	Boriach	Bharthan	142	28.9	29.8



Export Cycle Analysis

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

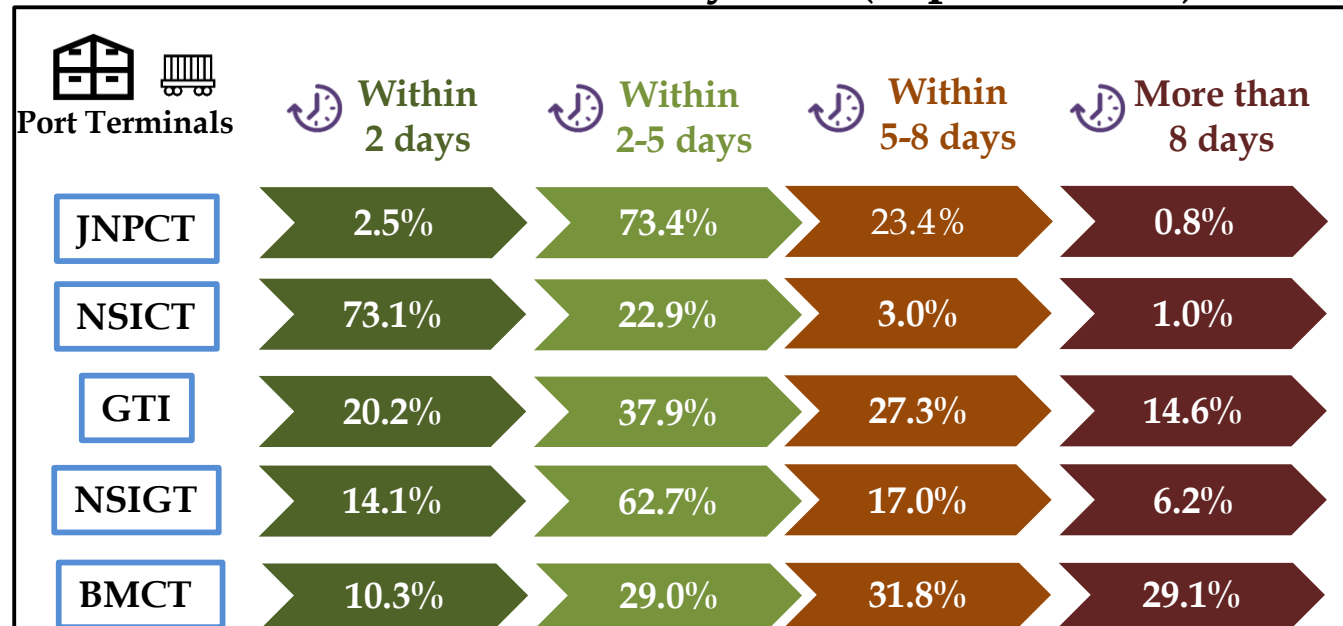
PORT EXPORT via TRAIN

(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	August'20 (in hrs)	September'20 (in hrs)
JNPCT	76.1	99.0
NSICT	20.6	17.4
GTI	136.1	105.7
NSIGT	79.7	90.9
BMCT	81.1	140.0

Container Handled: Day wise (September'20)



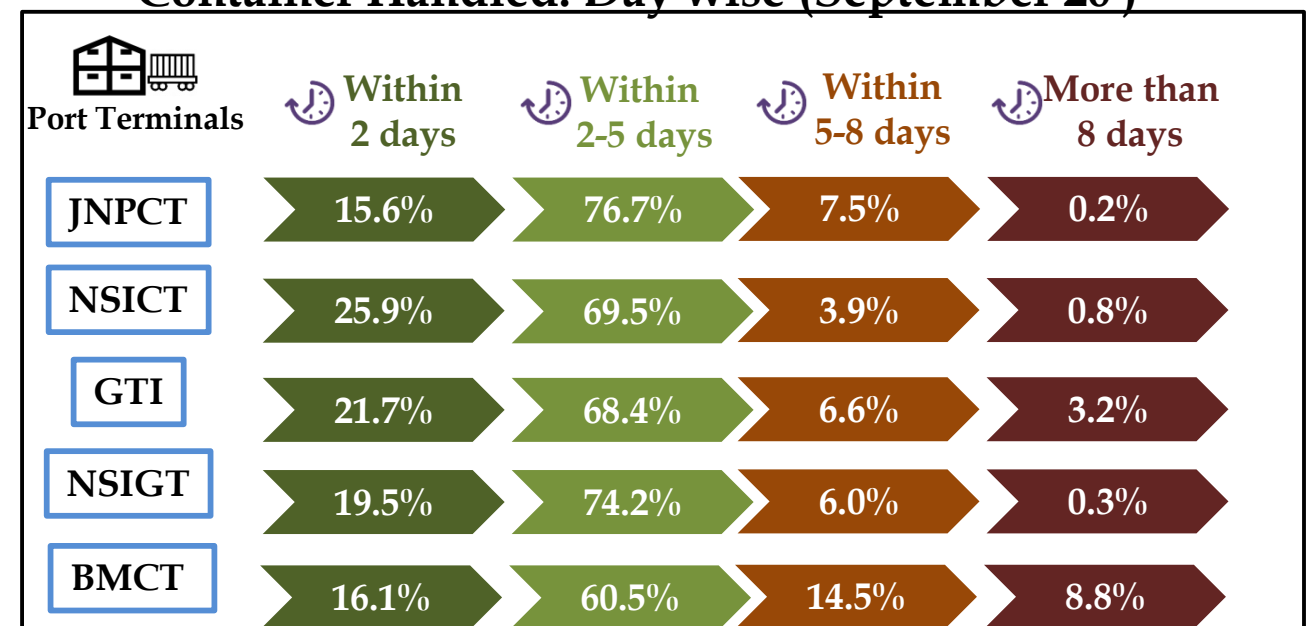
PORT EXPORT via TRUCK

(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	August'20 (in hrs)	September'20 (in hrs)
JNPCT	71.3	78.7
NSICT	77.3	70.3
GTI	90.3	75.0
NSIGT	62.8	77.0
BMCT	71.0	88.1

Container Handled: Day wise (September'20)



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

JNPCT		
Port Dwell time based on transit type		
September'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.6 hrs	76.5 hrs
Port Dwell time based on container type		
September'20	Laden Containers	Empty Containers
Dwell time (in hrs)	75.0 hrs	83.0 hrs

GTI		
Port Dwell time based on transit type		
September'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	76.8 hrs	72.1 hrs
Port Dwell time based on container type		
September'20	Laden Containers	Empty Containers
Dwell time (in hrs)	76.4 hrs	70.9 hrs

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

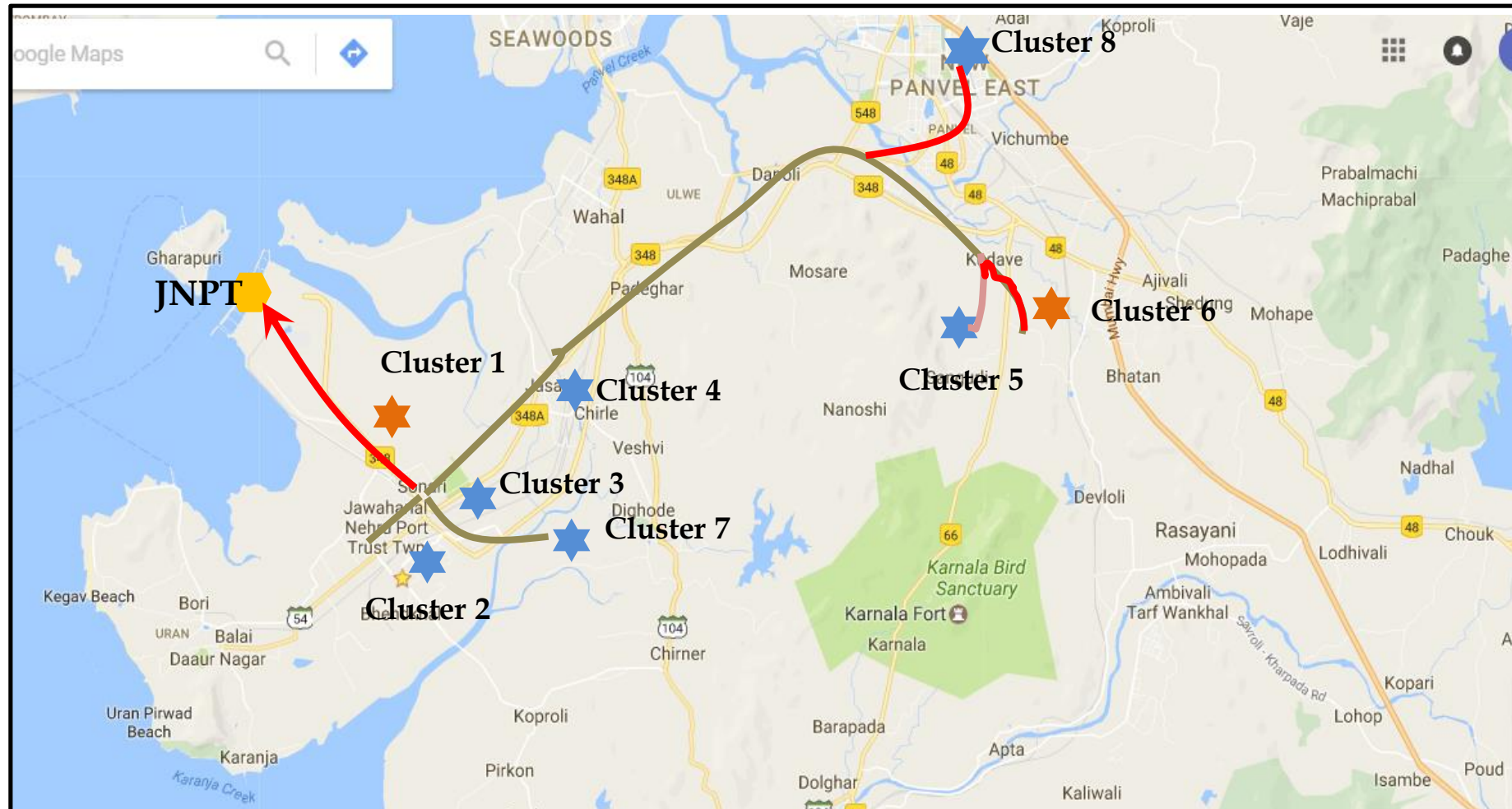
NSICT		
Port Dwell time based on transit type		
September' 20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.0 hrs	69.4 hrs
Port Dwell time based on container type		
September' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	66.0 hrs	44.8 hrs

NSIGT		
Port Dwell time based on transit type		
September' 20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	81.3 hrs	75.1 hrs
Port Dwell time based on container type		
September' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	78.8 hrs	66.3 hrs

BMCT		
Port Dwell time based on transit type		
September' 20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	76.9 hrs
Port Dwell time based on container type		
September' 20	Laden Containers	Empty Containers
Dwell time (in hrs)	92.6 hrs	83.5 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of September'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 (Brown line)
- Low Congestion (Grey 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]

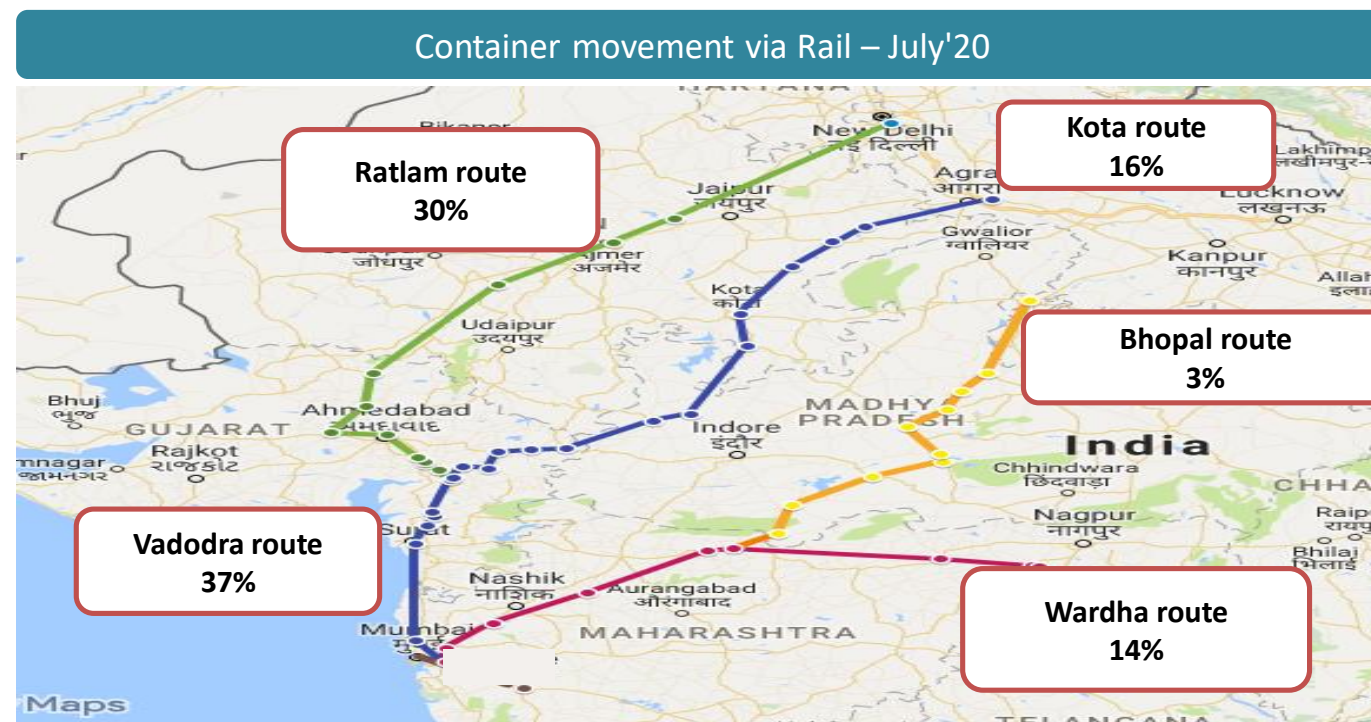
BMCT Terminal

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	37%
Ratlam Route	30%
Wardha Route	14%
Kota Route	16%
Bhopal Route	3%

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



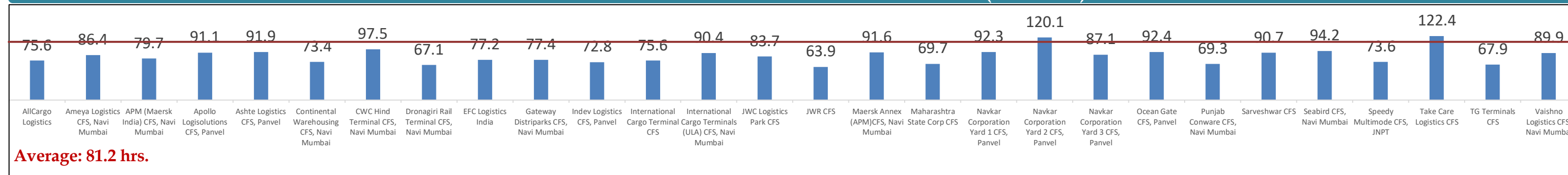
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)					
CFS	August'20	September'20	CFS	August'20	September'20
AllCargo Logistics	92.2	75.6	JWR CFS	72.5	63.9
Ameya Logistics CFS, Navi Mumbai	99.2	86.4	Maersk Annex (APM)CFS, Navi Mumbai	98.8	91.6
APM (Maersk India) CFS, Navi Mumbai	95.7	79.7	Maharashtra State Corp CFS	75.9	69.7
Apollo Logisolutions CFS, Panvel	94.5	91.1	Navkar Corporation Yard 1 CFS, Panvel	107.0	92.3
Ashte Logistics CFS, Panvel	99.2	91.9	Navkar Corporation Yard 2 CFS, Panvel	119.7	120.1
Continental Warehousing CFS, Navi Mumbai	-	73.4	Navkar Corporation Yard 3 CFS, Panvel	84.3	87.1
CWC Hind Terminal CFS, Navi Mumbai	105.6	97.5	Ocean Gate CFS, Panvel	97.6	92.4
Dronagiri Rail Terminal CFS, Navi Mumbai	79.5	67.1	Punjab Conware CFS, Navi Mumbai	74.9	69.3
EFC Logistics India	99.2	77.2	Sarveshwar CFS	97.5	90.7
Gateway Distriparks CFS, Navi Mumbai	85.3	77.4	Seabird CFS, Navi Mumbai	99.2	94.2
Indev Logistics CFS, Panvel	91.1	72.8	Speedy Multimode CFS, JNPT	89.6	73.6
International Cargo Terminal CFS	90.4	75.6	Take Care Logistics CFS	138.3	122.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	98.5	90.4	TG Terminals CFS	85.2	67.9
JWC Logistics Park CFS	93.9	83.7	Vaishno Logistics CFS, Navi Mumbai	82.8	89.9

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

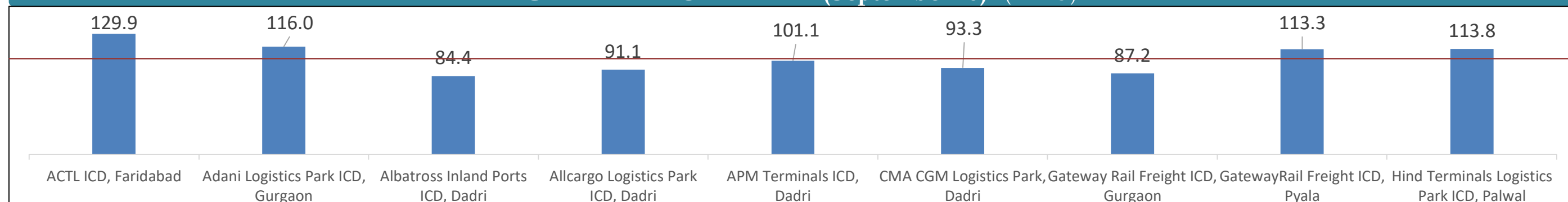


ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	August'20 (in hrs)	September'20 (in hrs)
ACTL ICD, Faridabad	125.0	129.9
Adani Logistics Park ICD, Gurgaon	140.6	116.0
Albatross Inland Ports ICD, Dadri	92.3	84.4
Allcargo Logistics Park ICD, Dadri	103.0	91.1
APM Terminals ICD, Dadri	138.8	101.1
CMA CGM Logistics Park, Dadri	105.1	93.3
Gateway Rail Freight ICD, Gurgaon	88.1	87.2
GatewayRail Freight ICD, Pyala	125.3	113.3
Hind Terminals Logistics Park ICD, Palwal	116.6	113.8

ICD - DWELL OVERVIEW (September'20) (In Hrs)



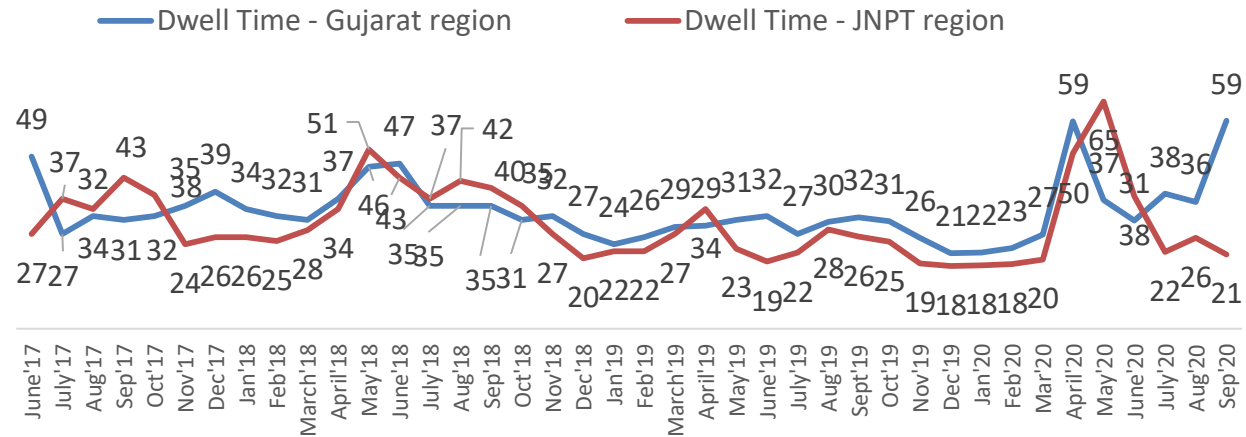
Avg. 104.2 hrs.

Trend Analysis

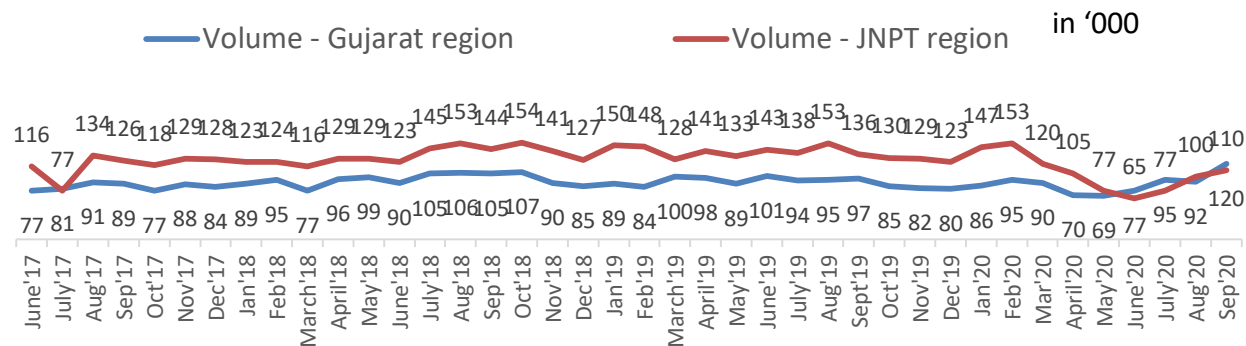
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until September'20

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



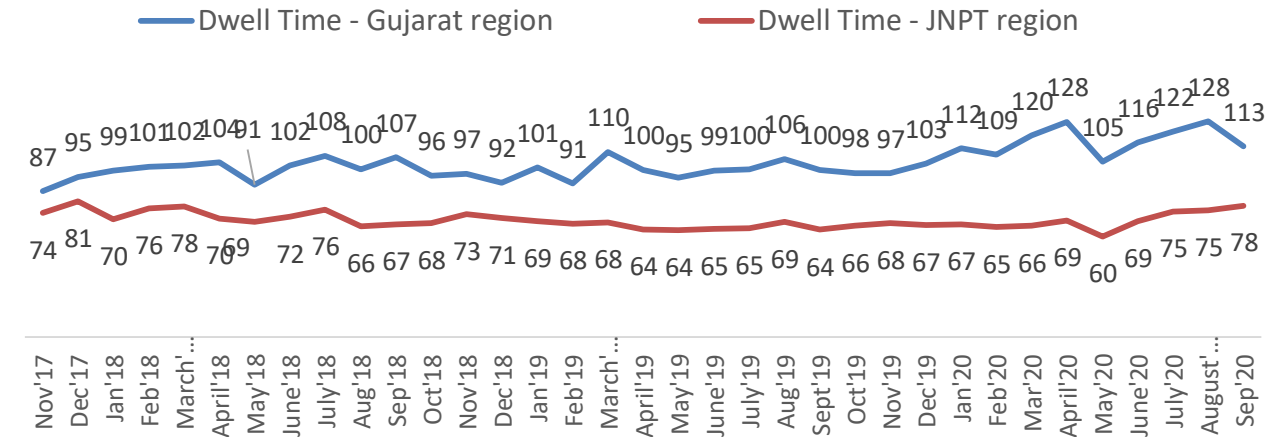
Volume – Gujarat Region Vs JNPT Region



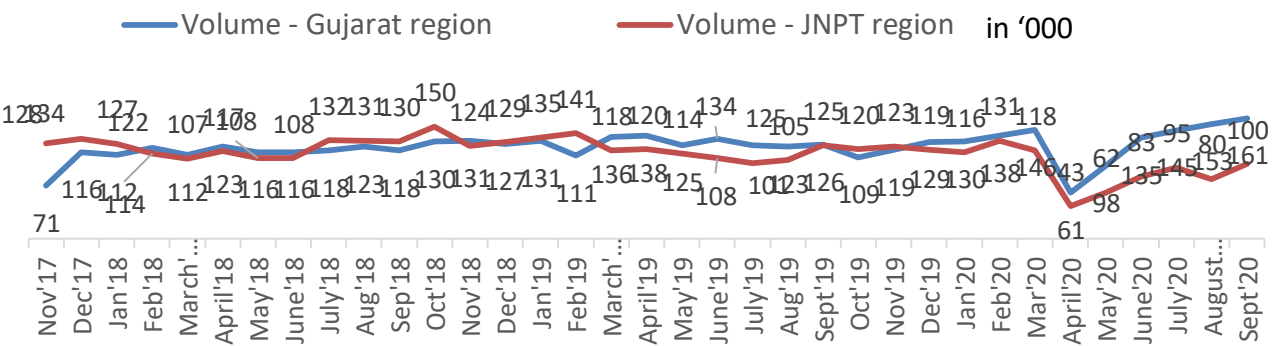
In Import cycle, for the month of September'20 JNPT port has catered 8% less volume than APSEZ Port, and has maintained 64% lower dwell time than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

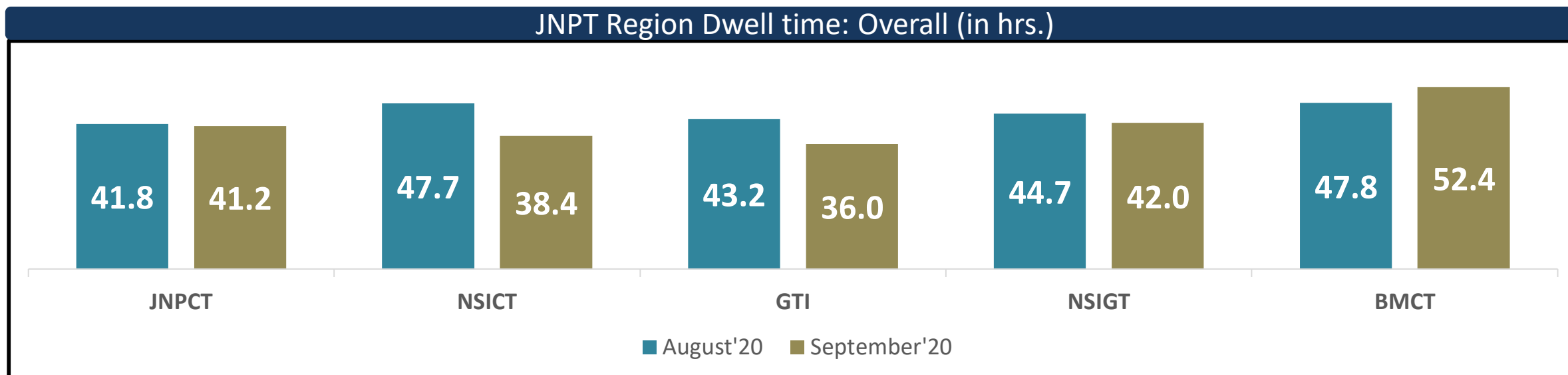


In Export cycle, for the month September'20 JNPT port catered 38% less volume than APSEZ Port, and has maintained 31% lower dwell time than APSEZ Port

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

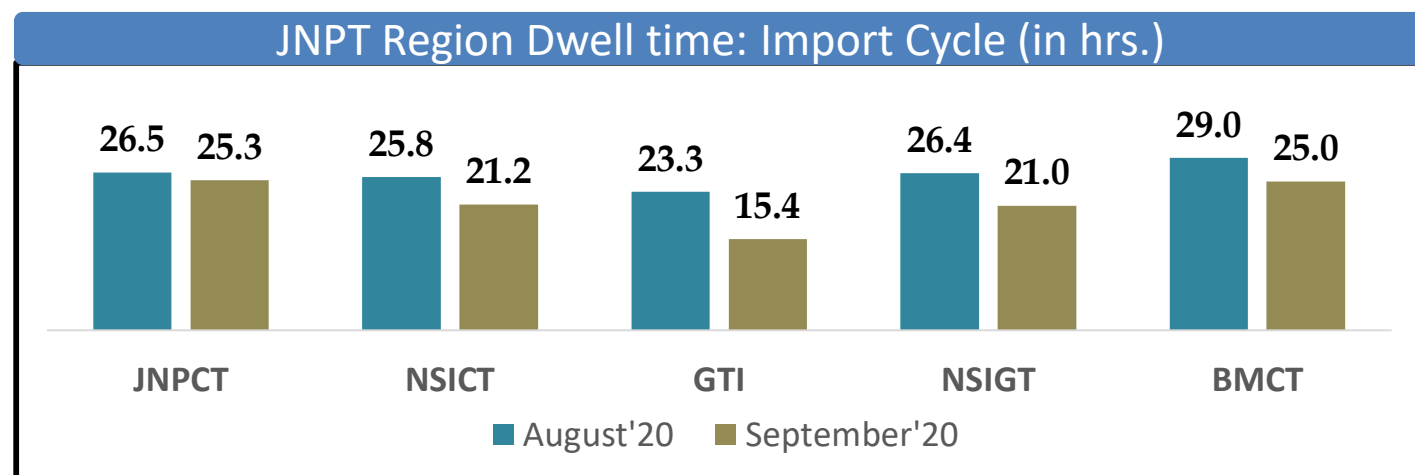


The overall JNPT region average dwell time for Sep'20 is **42.0 hrs** as compared to **45.1 hrs** in Aug'20

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

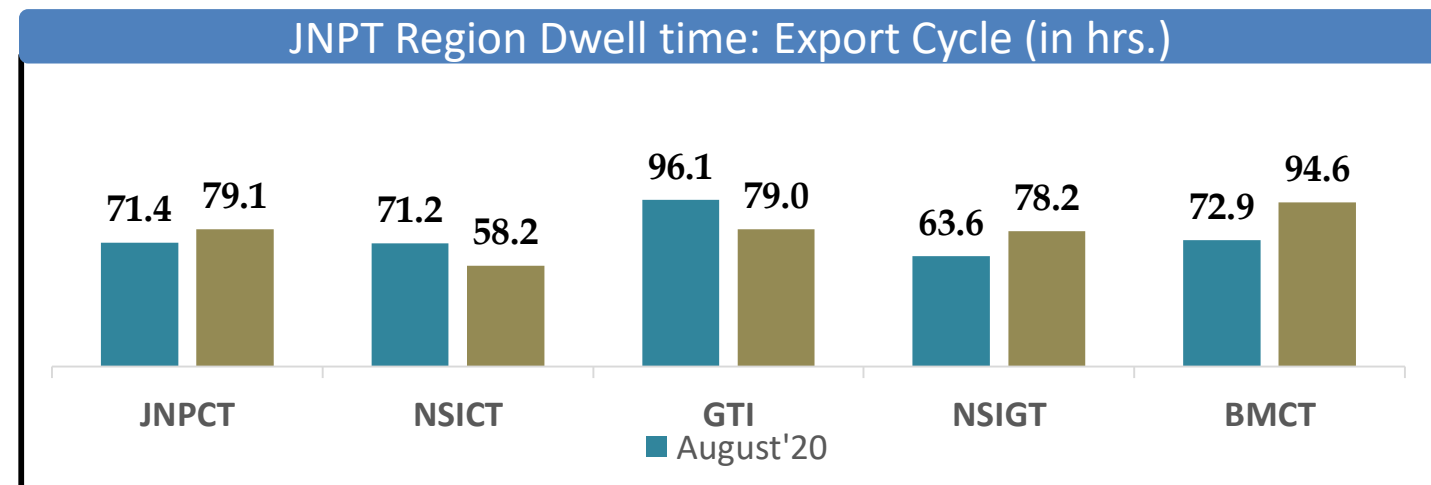
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for September'20 is **25.6 hrs.**



JNPT Export cycle Trend

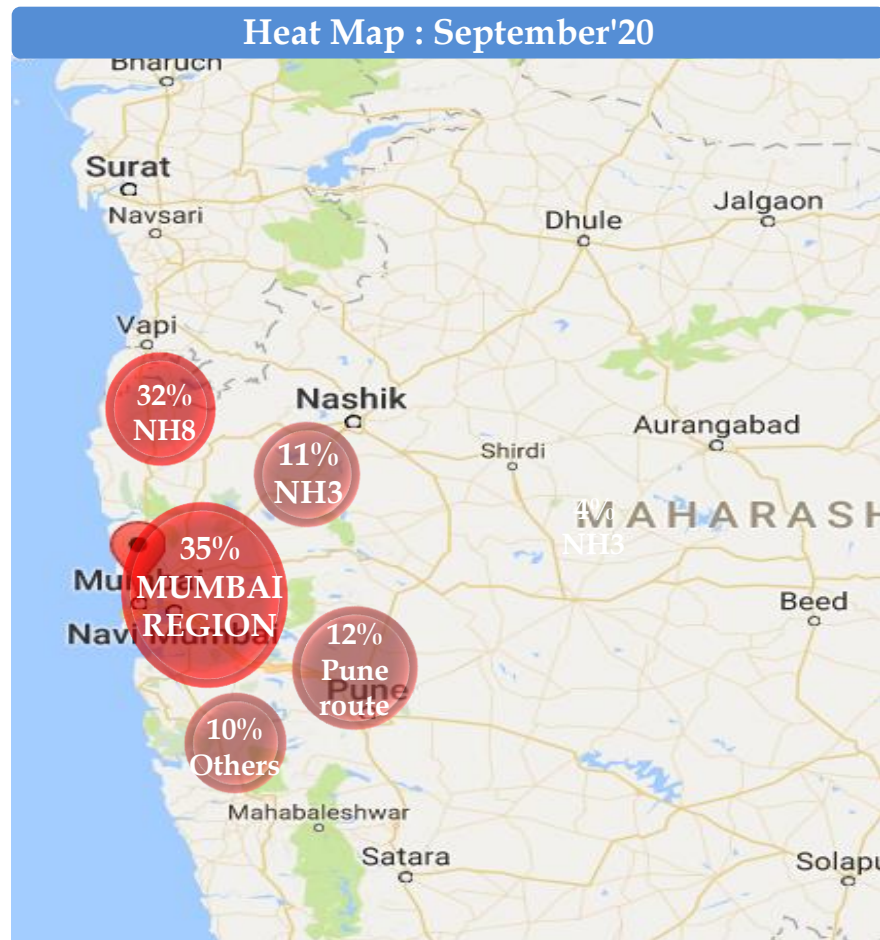
The average export cycle dwell time of JNPT region port terminals for September'20 is **77.8 hrs.**



ANNEXURE

Container movement around JNPT Port terminal region via Truck

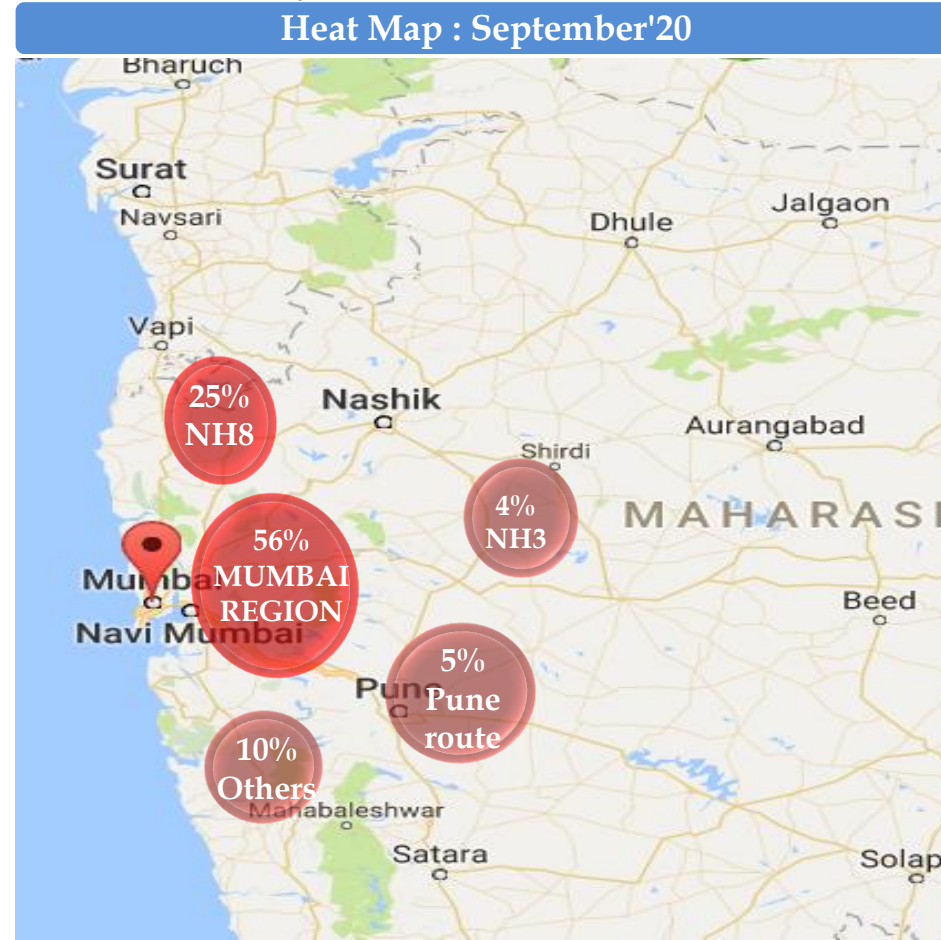
HEAT MAP : GTI Port Terminal



Region	August' 20	September' 20
Mumbai region	57%	35%
NH3	9%	11%
Pune	9%	12%
NH8	15%	32%
others	10%	10%

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

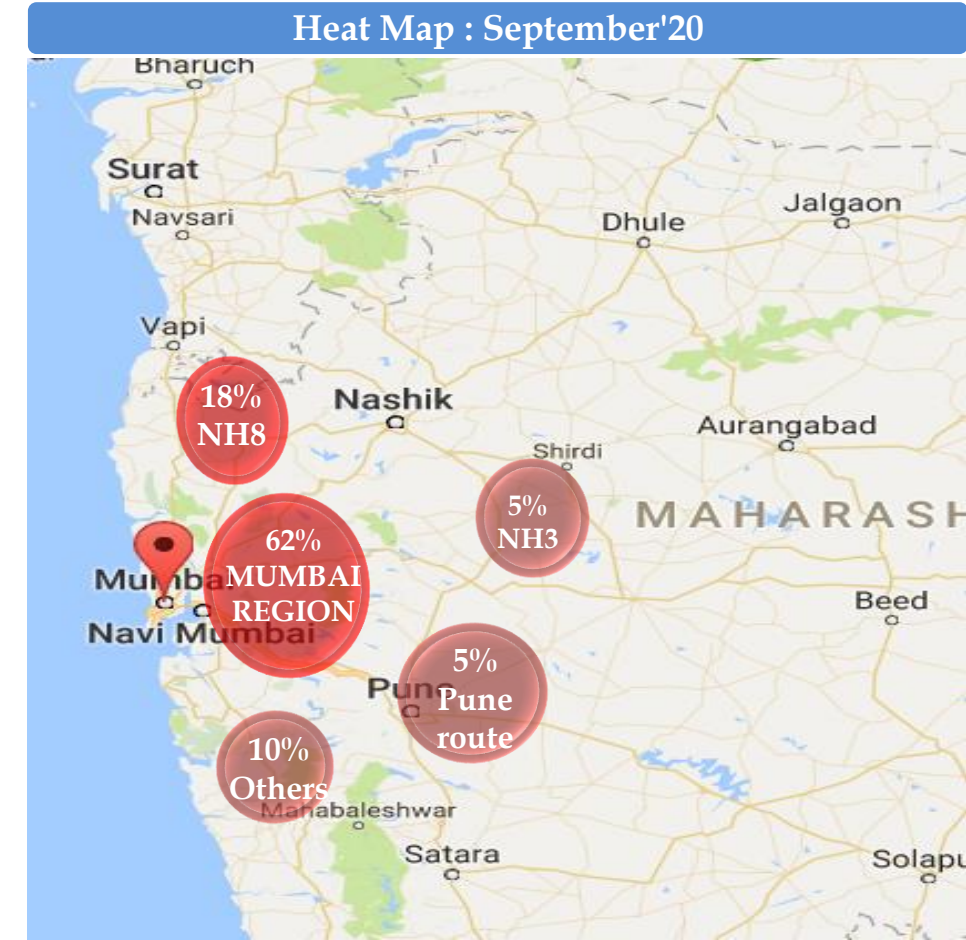
HEAT MAP : JNPCT Port Terminal



Region	August' 20	September' 20
Mumbai region	68%	56%
NH3	5%	4%
Pune	3%	5%
NH8	14%	25%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal



Region	August' 20	September' 20
Mumbai region	72%	62%
NH3	6%	5%
Pune	3%	5%
NH8	9%	18%
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

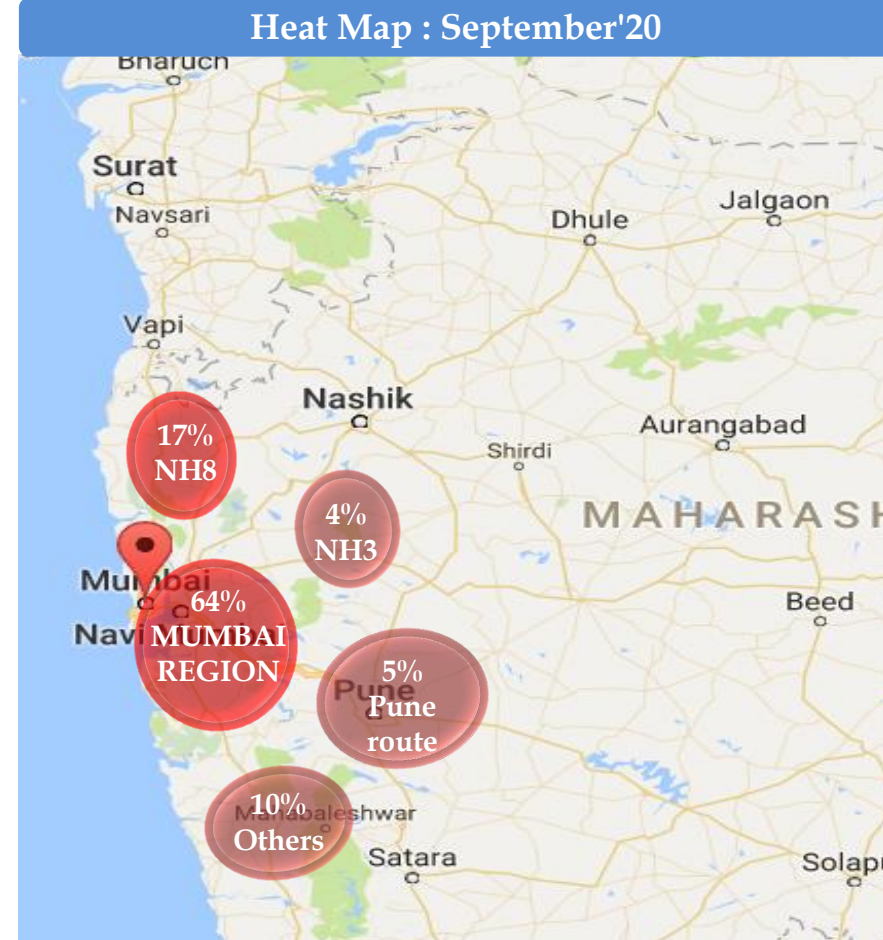
HEAT MAP : NSIGT Port Terminal



Region	August' 20	September' 20
Mumbai region	77%	53%
NH3	2%	6%
Pune	2%	6%
NH8	9%	25%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	August' 20	September' 20
Mumbai region	74%	64%
NH3	4%	4%
Pune	4%	5%
NH8	9%	17%
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 September'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	5.0	2.7	2.1	1.7	3.4
Punjab Conware CFS, Navi Mumbai	3.3	2.4	1.8	1.8	3.7
JWC Logistics Park CFS	2.5	3.0	2.1	2.8	4.7
CWC Hind Terminal CFS, Navi Mumbai	2.8	1.9	1.7	1.7	4.0
Dronogiri Rail Terminal CFS, Navi Mumbai	3.3	2.6	2.3	1.8	4.4
Navkar Corporation Yard 2 CFS, Panvel	9.4	6.5	4.6	4.5	7.5
Vaishno Logistics CFS, Navi Mumbai	3.5	2.5	2.4	1.8	5.1
Speedy Multimode CFS, JNPT	3.3	2.4	1.5	1.7	2.2
Balmer & Lawrie CFS, Navi Mumbai	4.5	3.2	-	-	25.4
Navkar Corporation Yard 3 CFS, Panvel	5.2	5.4	4.3	5.0	7.4
Ashte Logistics CFS, Panvel	2.7	4.2	3.6	3.0	4.9
Continental Warehousing CFS, Navi Mumbai	1.7	1.7	1.9	1.8	3.4
SBW Logistics CFS, Navi Mumbai	5.8	13.1	8.7	-	6.4
Maharashtra State Corp CFS	2.9	2.3	1.6	2.0	2.9
Internation Cargo Terminal CFS	1.4	3.1	1.3	1.6	3.0
Seabird CFS, Navi Mumbai	1.9	2.3	1.7	2.4	3.4
Apollo Logisolutions CFS, Panvel	5.1	4.5	5.7	2.7	6.2
Ameya Logistics CFS, Navi Mumbai	3.6	2.9	3.2	3.0	5.1
Transindia Logistics Park, Navi Mumbai	4.3	2.3	1.7	2.1	3.1
Ocean Gate CFS, Panvel	3.2	2.3	2.9	2.3	4.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.8	4.1	3.2	2.6	2.7
Indev Logistics CFS, Panvel	3.5	3.4	3.2	2.1	2.5
CWC Dronagiri CFS, Navi Mumbai	-	2.4	-	-	-
APM (Maersk India) CFS, Navi Mumbai	4.2	2.0	2.0	2.0	3.1

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	Sept'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	3.3
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	2.0
Balmer & Lawrie CFS, Navi Mumbai	2.4
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	2.1
Dronogiri Rail Terminal CFS, Navi Mumbai	2.7
Navkar Corporation Yard 1 CFS, Panvel	3.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	2.6
Speedy Multimode CFS, JNPT	2.2
Apollo Logisolutions CFS, Panvel	3.1
Navkar Corporation Yard 2 CFS, Panvel	3.0
Punjab Conware CFS, Navi Mumbai	2.4
Vaishno Logistics CFS, Navi Mumbai	3.0
JWC Logistics Park CFS	3.2
SBW Logistics CFS, Navi Mumbai	3.2
Ocean Gate CFS, Panvel	3.3
Maharashtra State Corp CFS	13.4

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

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

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

CFS	Sept'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	2.0
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	3.1
Navkar Corporation Yard 3 CFS, Panvel	4.3
Seabird CFS, Navi Mumbai	1.5
Balmer & Lawrie CFS, Navi Mumbai	2.2
Ashte Logistics CFS, Panvel	2.6
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.6
Dronogiri Rail Terminal CFS, Navi Mumbai	2.5
Navkar Corporation Yard 1 CFS, Panvel	3.9
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	2.0
Speedy Multimode CFS, JNPT	1.6
Apollo Logisolutions CFS, Panvel	4.0
Navkar Corporation Yard 2 CFS, Panvel	4.0
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	2.6
JWC Logistics Park CFS	3.1
SBW Logistics CFS, Navi Mumbai	3.3
Ocean Gate CFS, Panvel	3.3
Maharashtra State Corp CFS	3.5

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	Sept'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.8
APM (Maersk India) CFS, Navi Mumbai	2.1
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	2.6
Transindia Logistics Park, Navi Mumbai	2.9
Indev Logistics CFS, Panvel	3.9
Navkar Corporation Yard 3 CFS, Panvel	7.3
Seabird CFS, Navi Mumbai	5.0
Balmer & Lawrie CFS, Navi Mumbai	1.5
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	13.7
Navkar Corporation Yard 1 CFS, Panvel	4.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.5
Speedy Multimode CFS, JNPT	4.1
Apollo Logisolutions CFS, Panvel	4.2
Navkar Corporation Yard 2 CFS, Panvel	10.2
Punjab Conware CFS, Navi Mumbai	4.7
Vaishno Logistics CFS, Navi Mumbai	5.1
JWC Logistics Park CFS	5.0
SBW Logistics CFS, Navi Mumbai	3.2
Ocean Gate CFS, Panvel	5.3
Maharashtra State Corp CFS	5.7

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	Sept'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.8
Indev Logistics CFS, Panvel	4.0
Navkar Corporation Yard 3 CFS, Panvel	5.7
Seabird CFS, Navi Mumbai	2.0
Balmer & Lawrie CFS, Navi Mumbai	2.4
Ashte Logistics CFS, Panvel	3.2
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	9.6
Navkar Corporation Yard 1 CFS, Panvel	5.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.4
Maersk Annex (APM)CFS, Navi Mumbai	2.2
Speedy Multimode CFS, JNPT	5.2
Apollo Logisolutions CFS, Panvel	5.2
Navkar Corporation Yard 2 CFS, Panvel	10.7
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	2.8
JWC Logistics Park CFS	4.0
SBW Logistics CFS, Navi Mumbai	6.8
Ocean Gate CFS, Panvel	3.8
Maharashtra State Corp CFS	21.2

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	Sept'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.2
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	2.0
Ameya Logistics CFS, Navi Mumbai	2.2
Transindia Logistics Park, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	3.8
Seabird CFS, Navi Mumbai	1.7
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	3.1
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	3.5
Navkar Corporation Yard 1 CFS, Panvel	4.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.9
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	3.4
Navkar Corporation Yard 2 CFS, Panvel	5.8
Punjab Conware CFS, Navi Mumbai	2.5
Vaishno Logistics CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	3.0
SBW Logistics CFS, Navi Mumbai	3.1
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	24.2

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 Sept'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	2.2	2.4
Cluster 2	6	13	2.2	2.9
Cluster 3	6	11	2.5	2.3
Cluster 4	1	13	3.0	2.5
Cluster 5	2	25	3.2	2.7
Cluster 6	6	25	3.2	4.5
Cluster 7	4	12	2.1	2.3
Cluster 8	1	34	3.2	13.1

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Sept'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.6	3.3
Cluster 2	6	13	2.0	4.4
Cluster 3	6	11	2.2	3.1
Cluster 4	1	13	2.6	3.5
Cluster 5	2	25	3.2	2.9
Cluster 6	6	25	3.9	5.1
Cluster 7	4	12	2.1	3.6
Cluster 8	1	34	3.3	5.8

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

GTI terminal for month of Sept'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	4.1	1.5
Cluster 2	6	13	2.1	1.8
Cluster 3	6	11	5.3	1.7
Cluster 4	1	13	5.1	0.0
Cluster 5	2	25	5.2	2.5
Cluster 6	6	25	4.4	4.3
Cluster 7	4	12	2.6	1.9
Cluster 8	1	34	3.2	8.7






CFS Cluster : NSIGT Terminal

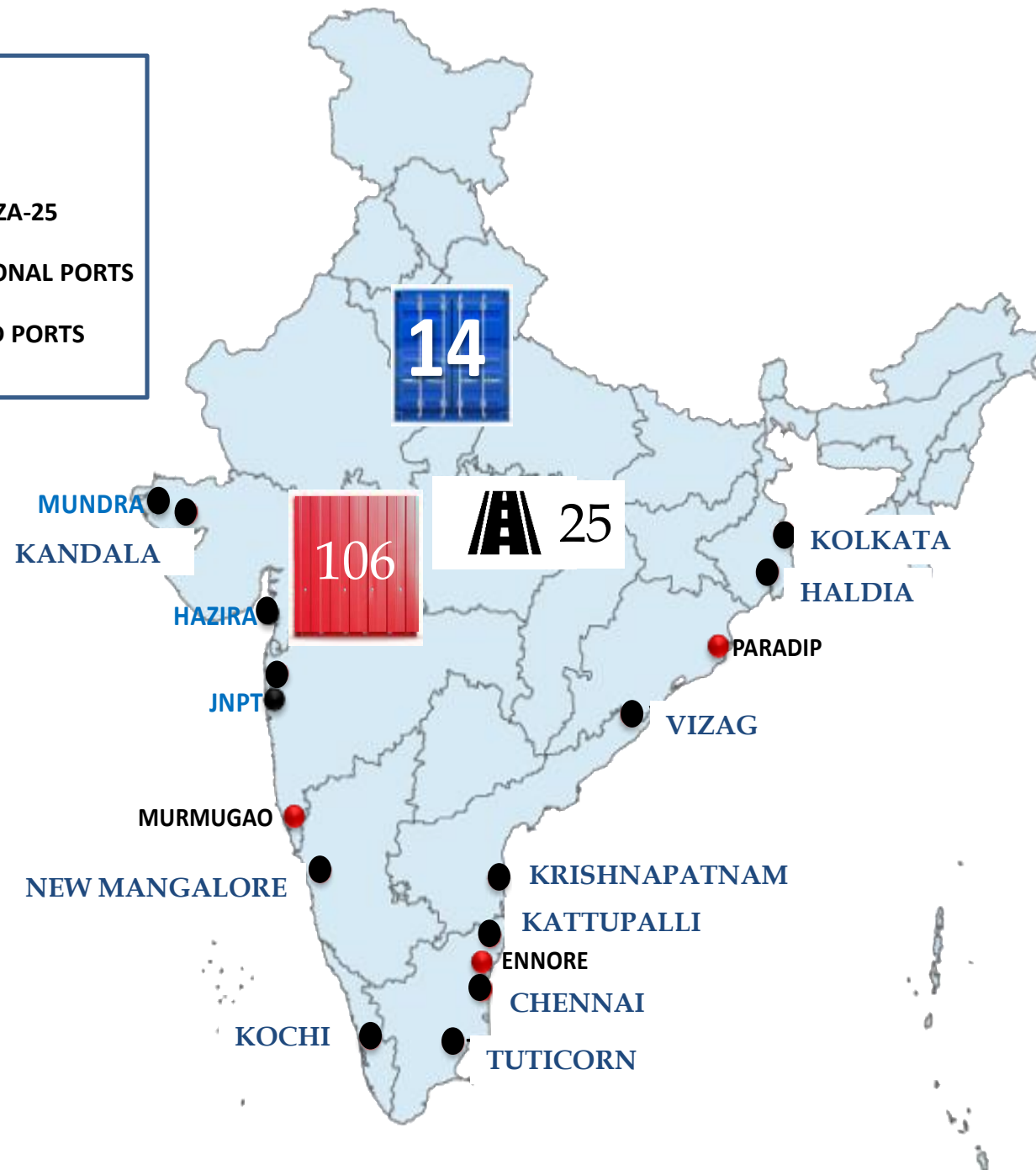
JNPCT terminal for month of Sept'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	5.2	1.7
Cluster 2	6	13	2.2	1.7
Cluster 3	6	11	2.0	1.9
Cluster 4	1	13	2.8	1.8
Cluster 5	2	25	3.9	2.5
Cluster 6	6	25	5.3	3.0
Cluster 7	4	12	2.1	2.1
Cluster 8	1	34	6.8	0.0

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Sept'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.8	2.2
Cluster 2	6	13	2.1	3.3
Cluster 3	6	11	2.0	3.5
Cluster 4	1	13	2.1	5.1
Cluster 5	2	25	3.1	4.4
Cluster 6	6	25	3.6	6.2
Cluster 7	4	12	2.2	3.4
Cluster 8	1	34	3.1	6.4

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



THANK YOU