



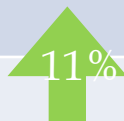

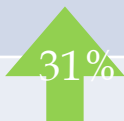
Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Apr'20 (in hrs)	May'20 (in hrs)	Port	Apr'20 (in hrs)	May'20 (in hrs)
JNPCT	59.6	72.5	JNPCT	65.0	55.4
NSICT	63.9	82.4	NSICT	43.4	42.8
GTI	39.0	52.9	GTI	89.3	67.0
NSIGT	55.1	76.6	NSIGT	77.6	70.9
BMCT/PSA	43.2	51.9	BMCT/PSA	89.1	61.3

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- Container handling performance at ICD has improved which has also led to decrease in transit performance between ICD to Port and train bound container handling performance in Export Cycle

Month	ICD Dwell Time	ICD to Port - Transit Time	Export cycle - Train bound Dwell Time
May'20	143.3 hrs	58.8 hrs	52.9 hrs
Apr'20	160.4 hrs 	64.2 hrs 	76.5 hrs 

Port Dwell Time

IMPORT

Mode	Apr'20 (in hrs)	May'20 (in hrs)
Overall	52.7	50.1
Truck	43.5	46.0
Train	84.5	64.8

EXPORT

Mode	Apr'20 (in hrs)	May'20 (in hrs)
Overall	95.8	82.8
Truck	90.7	81.7
Train	112.6	88.3

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



Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Apr'20 (in hrs)	May'20 (in hrs)
CFS	94.1	94.5
ICD	160.4	143.3

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

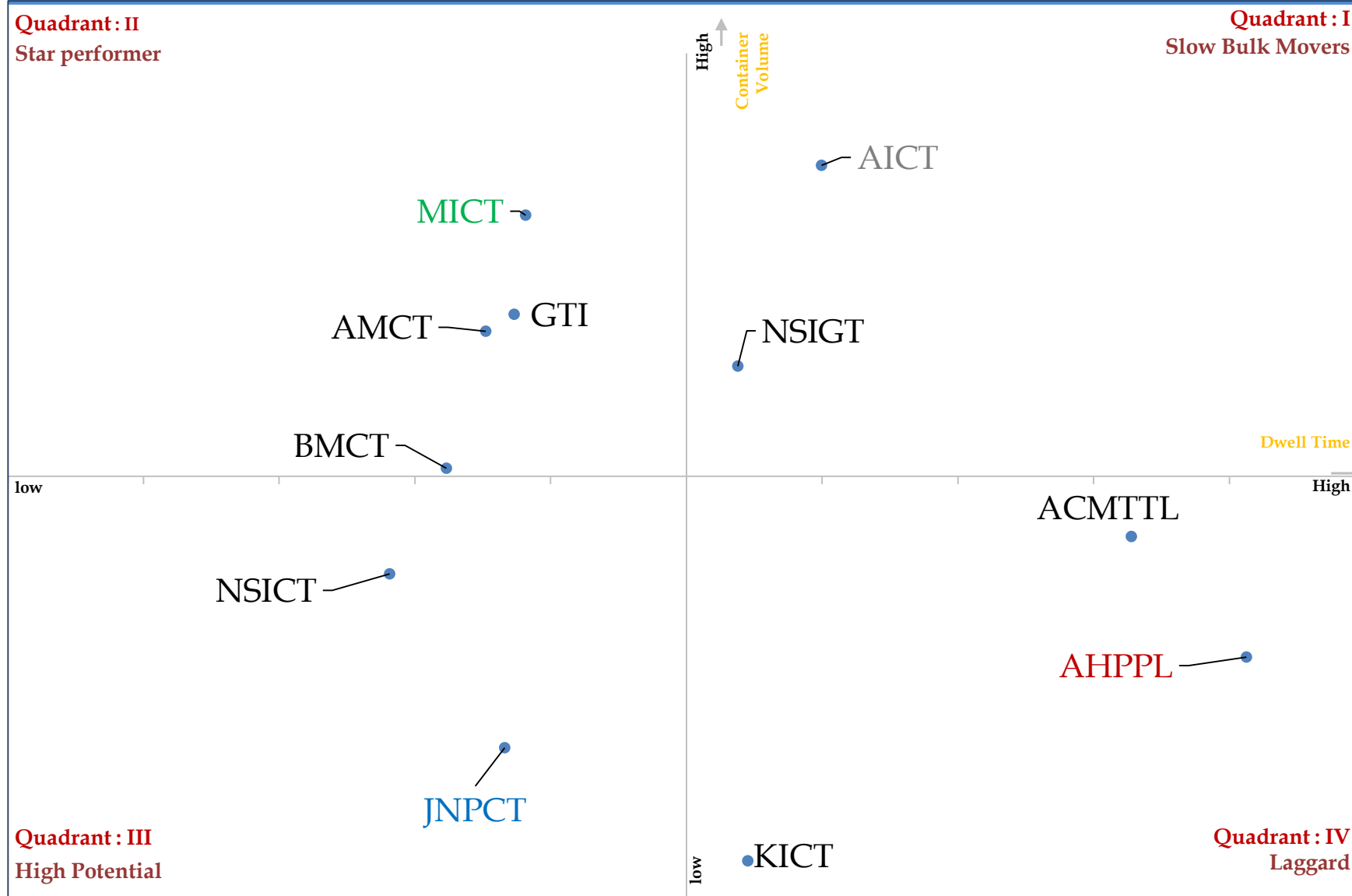
The marked entries showcase decrease in performance in comparison to Apr'20



Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index - May'20



Due to low volume count in export cycle at Kandla Port Terminal, hence only import volume has been considered in the analysis



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

Top Performing Terminal	
Mundra International Container Terminal (MICT)	
Apr'20	May'20
65.3 hrs	61.5 hrs
Low Performing Terminal	
Adani Hazira Port Private Limited (AHPPL)	
Apr'20	May'20
121.6 hrs	105.5 hrs

Note: The performance benchmarking is based on performance index



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

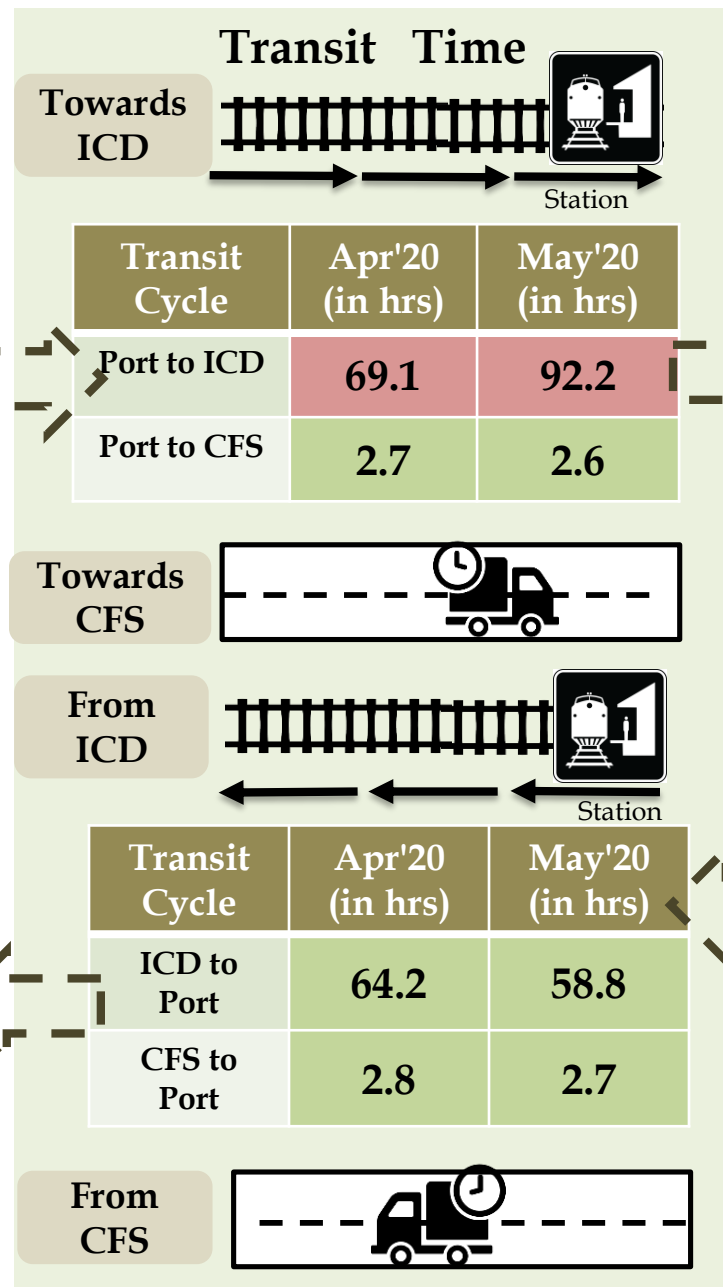
IMPORT

Port Dwell Time

Mode	Apr'20 (in hrs)	May'20 (in hrs)
Overall	49.8	64.7
Truck	40.2	60.3
Train	85.6	66.2

EXPORT

Mode	Apr'20 (in hrs)	May'20 (in hrs)
Overall	69.4	60.0
Truck	67.9	61.3
Train	76.5	52.9



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

Entity	Apr'20 (in hrs)	May'20 (in hrs)
CFS	89.4	91.2
ICD	160.4	143.3

Volume distribution at port terminal - Truck/Rail

	Truck	Rail
Import	77%	23%
Export	73%	27%

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

%IMPORT CYCLE DWELL TIME (May'20 - in hrs)			Compared to Apr'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	64.7	30% ↓
	Port Dwell Time for Truck Bound Containers	60.3	50% ↓
	Port Dwell time for Train Bound Containers	66.2	23% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	76.7	25% ↑
	Port Dwell time Containers bound for CFS	64.8	59% ↓
	Port Dwell for Empty Containers	74.2	25% ↓
	Port Dwell for Laden Containers	58.2	34% ↓
TRANSIT TIME	Port to ICD	92.2	33% ↓
	Port to CFS	2.6	2% ↑

EXPORT CYCLE DWELL TIME (May'20- in hrs)			Compared to Apr'20
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	60.0	14% ↑
	Port Dwell Time for Truck Bound Containers	61.3	10% ↑
	Port Dwell time for Train Bound Containers	52.9	31% ↑
	Port Dwell time Direct Port Entry (DPE) containers	67.5	1% ↓
	Port Dwell time Containers bound from CFS	56.4	18% ↑
	Port Dwell for Empty Containers	54.9	19% ↑
	Port Dwell for Laden Containers	59.9	7% ↑
TRANSIT TIME	ICD to Port	58.8	8% ↑
	CFS to Port	2.7	3% ↑

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

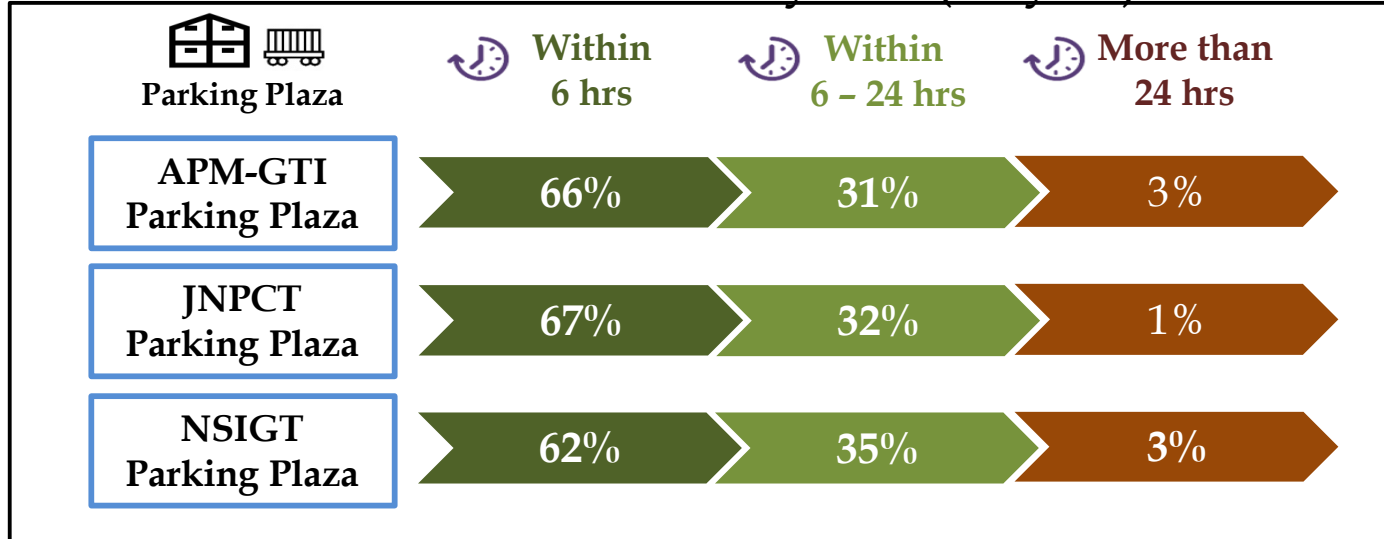
The below table depicts the Parking Plaza & Parking Plaza to Port Transit Performance at JNPT Port Terminals and their volume bifurcation in export cycle



Parking Plaza Gate In - Gate Out

Mode	Apr'20 (in hrs)	May'20 (in hrs)
Overall Parking Plaza	5.41	4.57
Parking Plaza	Apr'20 (in hrs)	May'20 (in hrs)
APM-GTI Parking Plaza	5.6	4.4
JNPCT Parking Plaza	4.8	4.4
NSIGT Parking Plaza	5.1	4.9

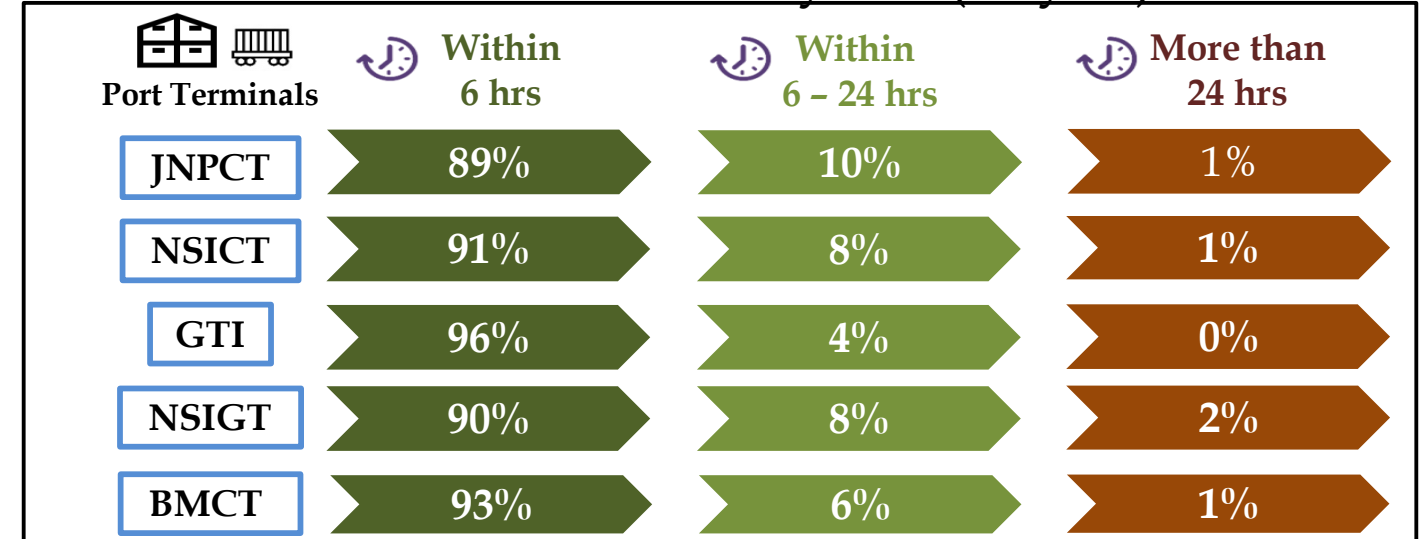
Container Handled: Day wise (May'20)



Parking Plaza Gate Out - Terminal In

Mode	Apr'20 (in hrs)	May'20 (in hrs)
Overall Parking Plaza to JNPT Port	1.4	1.3
Port	Apr'20 (in hrs)	May'20 (in hrs)
JNPCT	1.6	1.3
NSICT	1.1	1.1
GTI	2.0	1.2
NSIGT	0.9	1.0
BMCT	2.0	2.0

Container Handled: Day wise (May'20)





Performance Benchmarking



Top Performing CFS

Punjab Conware CFS, Navi Mumbai	
Apr'20	May'20
79.7 hrs	75.3 hrs

Low Performing CFS

CWC Dronagiri CFS, Navi Mumbai	
Apr'20	May'20
28.4 hrs	133.5 hrs

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

Top Performing ICD

Gateway Rail Freight ICD, Gurgaon	
Apr'20	May'20
152.6 hrs	122.2 hrs

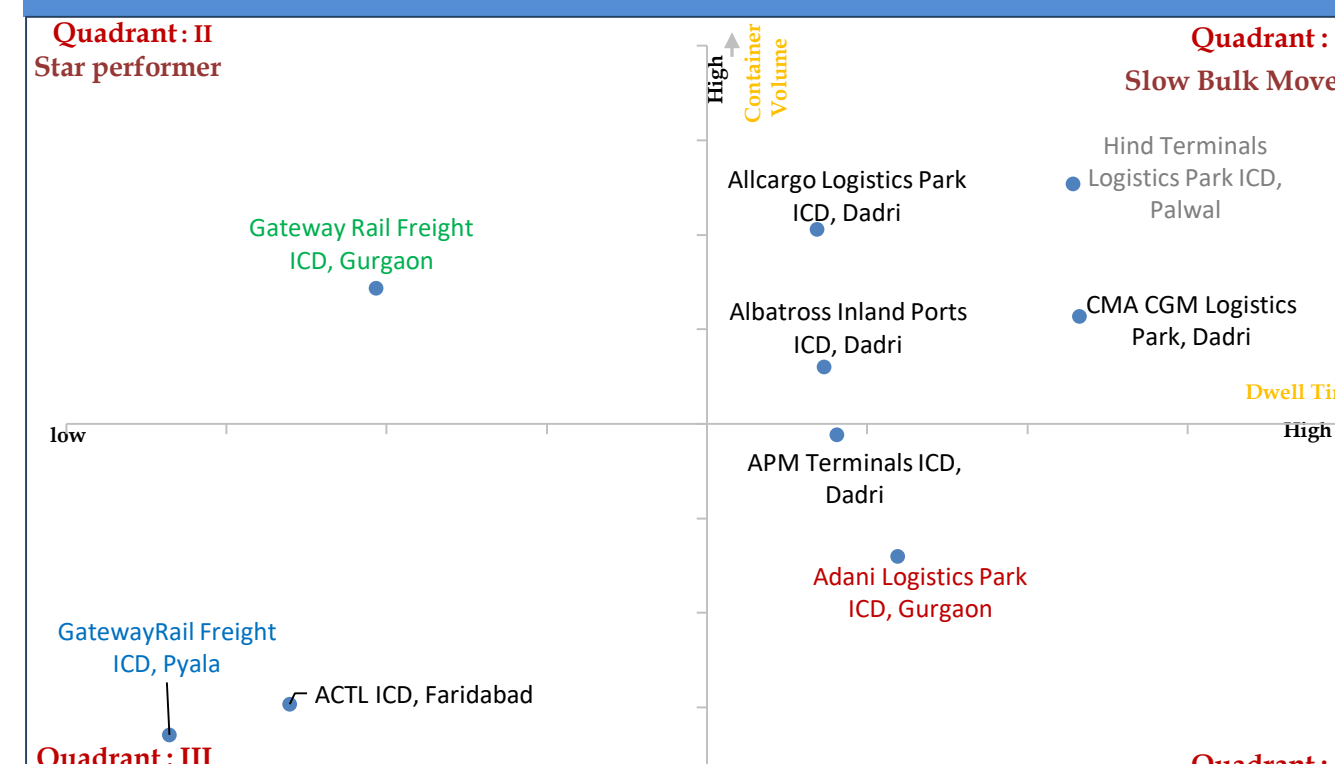
Low Performing ICD

Adani Logistics Park ICD, Gurgaon	
Apr'20	May'20
194.4 hrs	148.0 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

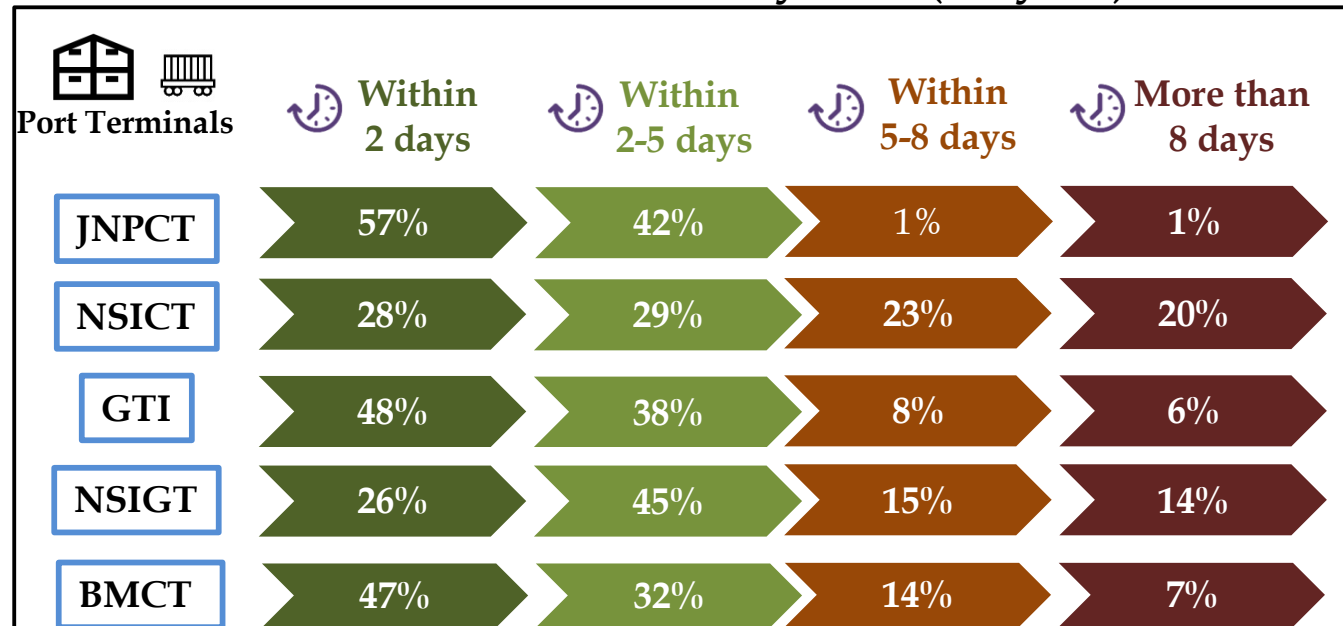
PORT IMPORT via TRAIN

(23% 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	Apr'20 (in hrs)	May'20 (in hrs)
JNPCT	41.9	40.7
NSICT	125.3	95.0
GTI	68.6	51.5
NSIGT	129.7	83.6
BMCT	66.9	54.1

Container Handled: Day wise (May'20)



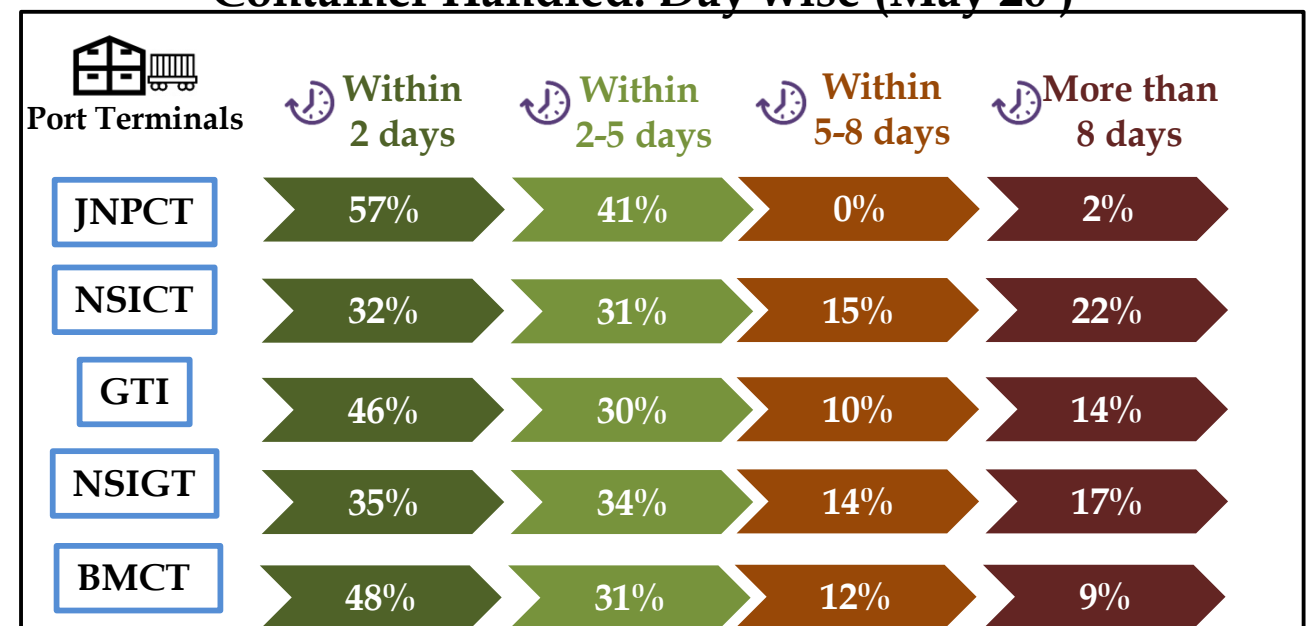
PORT IMPORT via TRUCK

(77% 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	Apr'20 (in hrs)	May'20 (in hrs)
JNPCT	21.1	40.5
NSICT	17.3	80.6
GTI	17.4	53.1
NSIGT	18.5	73.9
BMCT	18.8	51.3

Container Handled: Day wise (May'20)



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

JNPCT		
Port Dwell time based on transit type		
May'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	81.6 hrs	96.1 hrs
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	74.5 hrs	71.7 hrs

GTI		
Port Dwell time based on transit type		
May'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	72.3 hrs	49.9 hrs
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	47.5 hrs	70.3 hrs

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

NSICT		
Port Dwell time based on transit type		
May'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	83.0 hrs	79.0 hrs

Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	71.1 hrs	81.4 hrs

NSIGT		
Port Dwell time based on transit type		
May'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	145.2 hrs	72.4 hrs

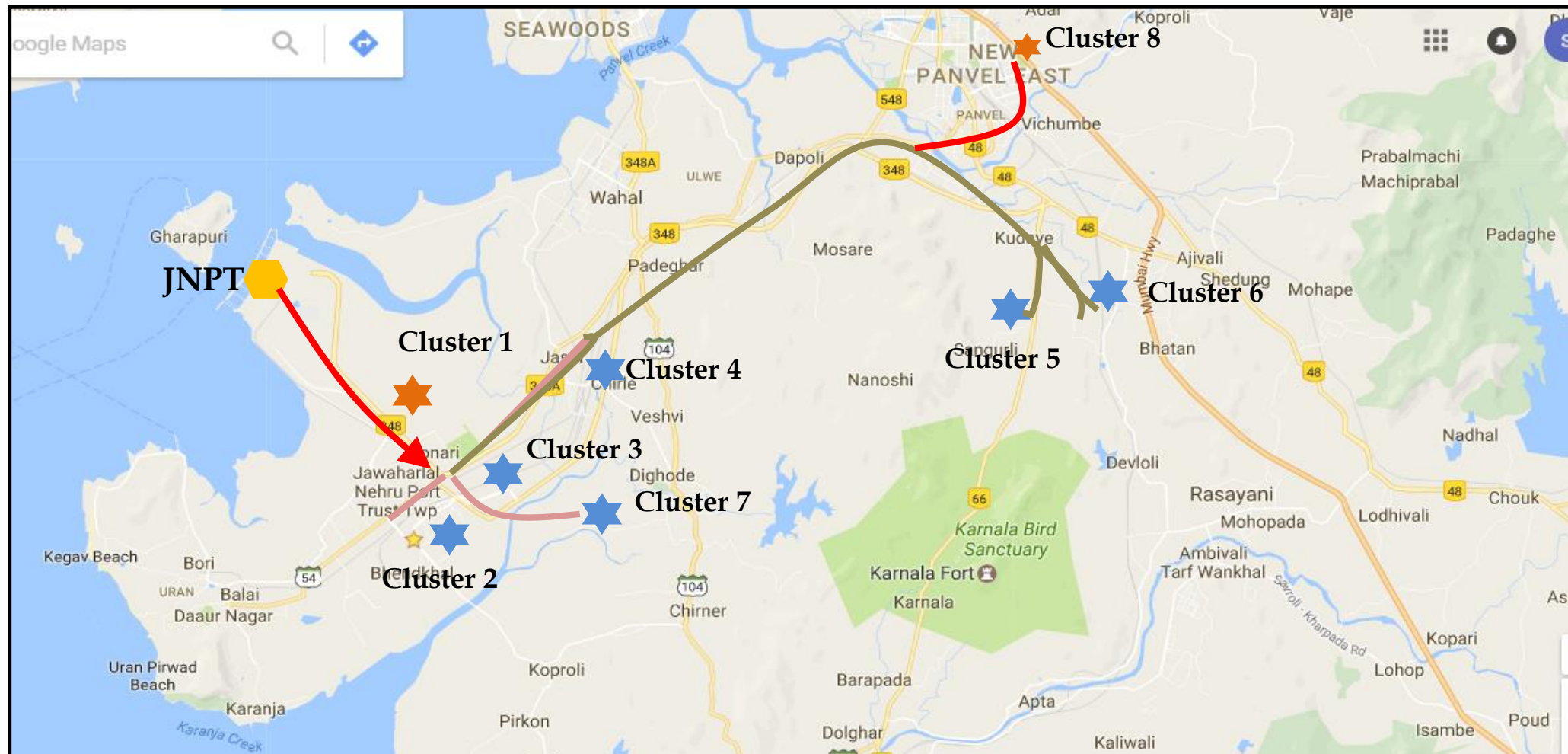
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	69.8 hrs	79.4 hrs

BMCT		
Port Dwell time based on transit type		
May'20	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	66.4 hrs	51.6 hrs

Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	43.4 hrs	67.2 hrs

JNPT Region: Congestion Analysis (Import Cycle)

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



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
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

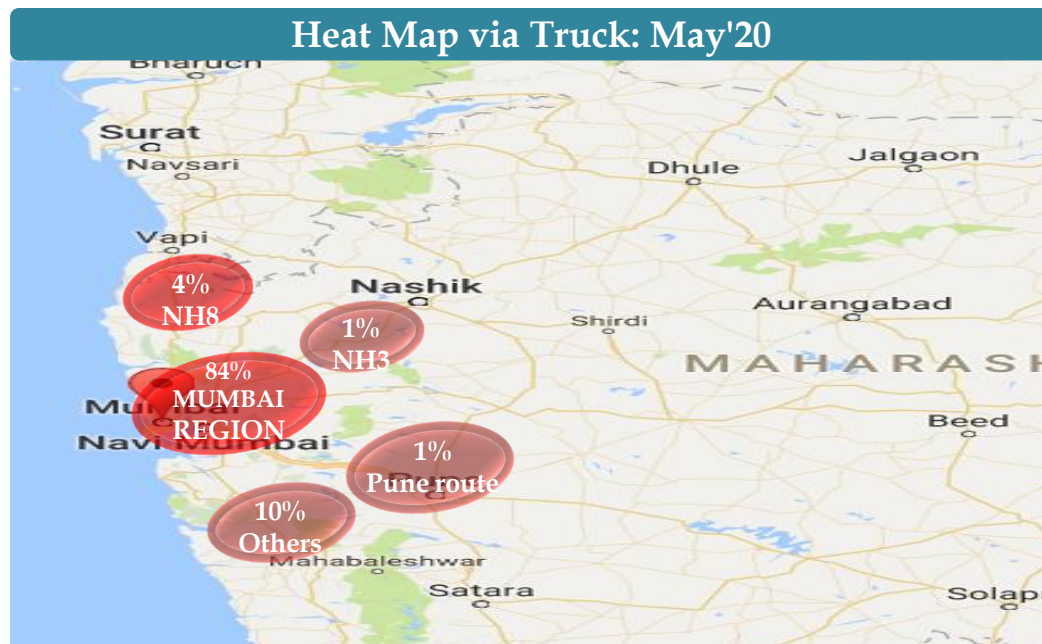
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	May'20
Mumbai region	84%
NH3	1%
Pune	1%
NH8	4%
others	10%

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

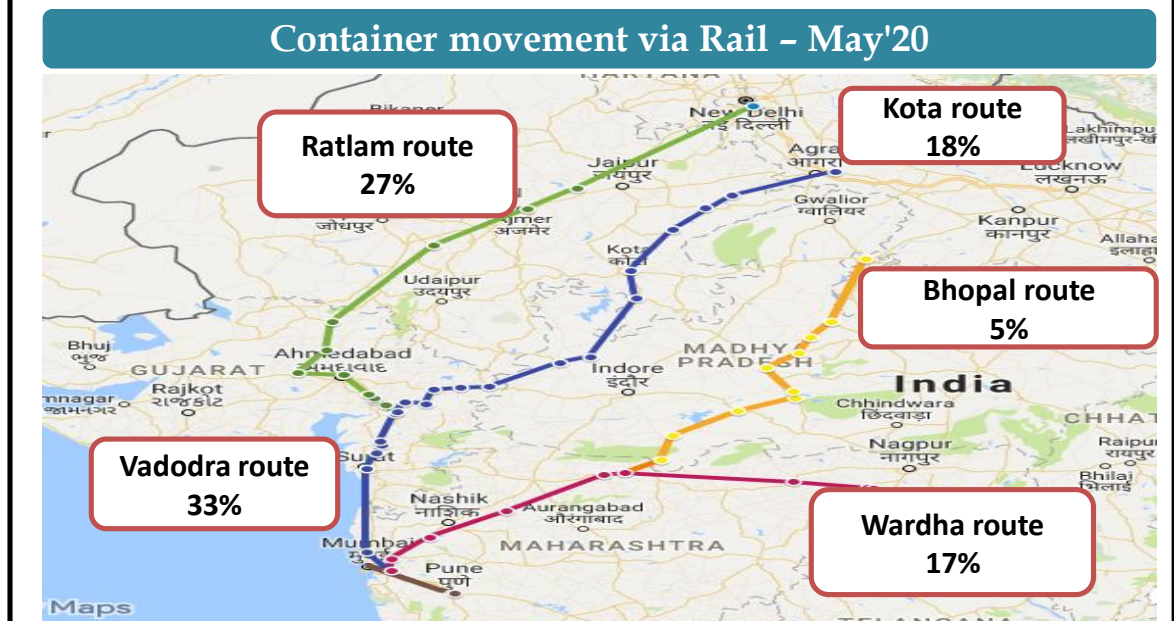


Train

VOLUME WISE CONTAINER MOVEMENT

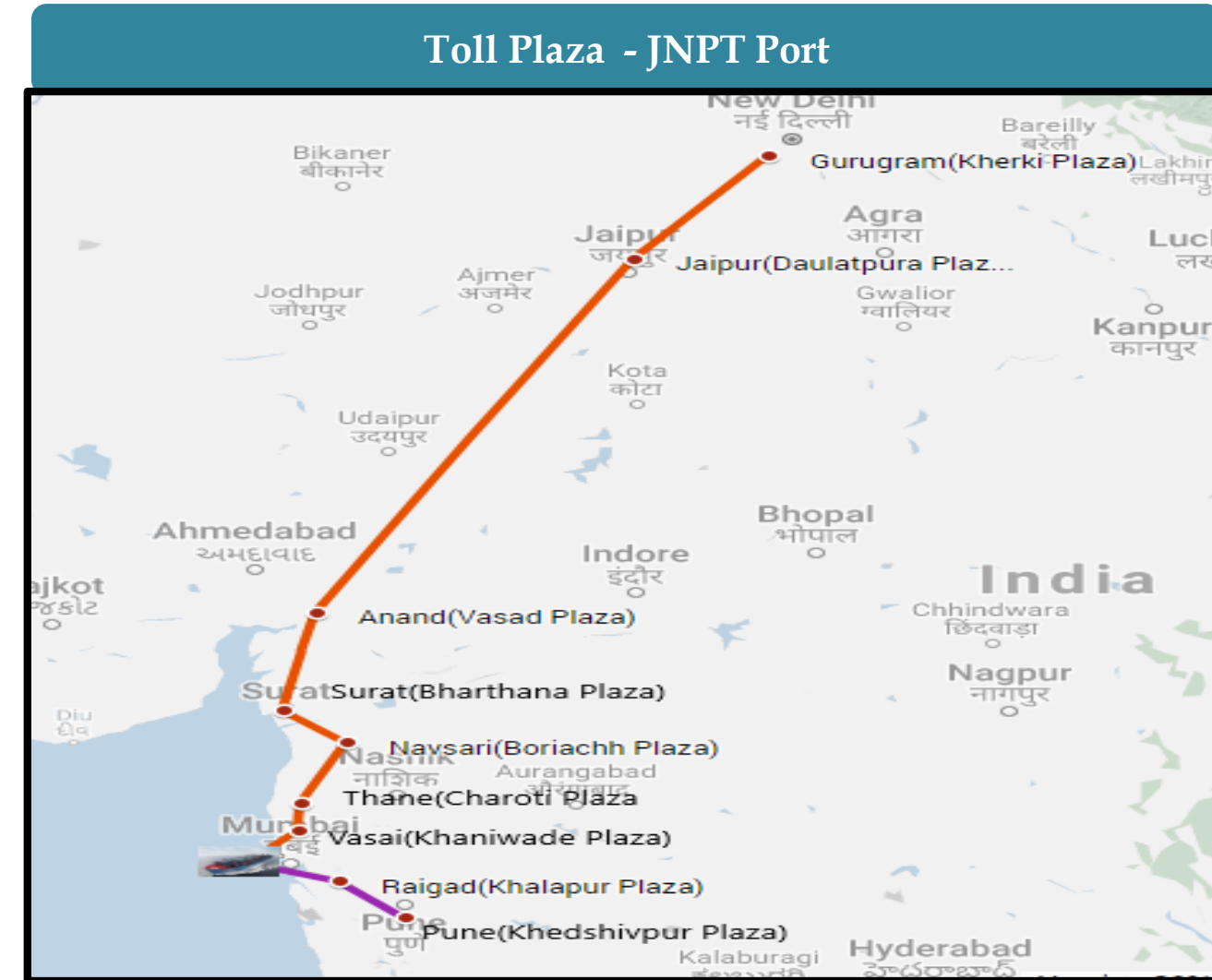
Region	May'20
Vadodra Route	33%
Ratlam Route	27%
Wardha Route	17%
Kota Route	18%
Bhopal Route	5%

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)	Apr'20 (in km/hrs)	May'20 (in km/hrs)
JNPT	JNPT	Khaniwade	94	16.9	17.0
	JNPT	Khalapur	60	8.3	4.0
	Khaniwade	Charoti	50	15.5	33.6
	Charoti	Boriach	126	29.3	29.5
	Boriach	Bharthan	142	34.7	33.2



Export Cycle Analysis

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

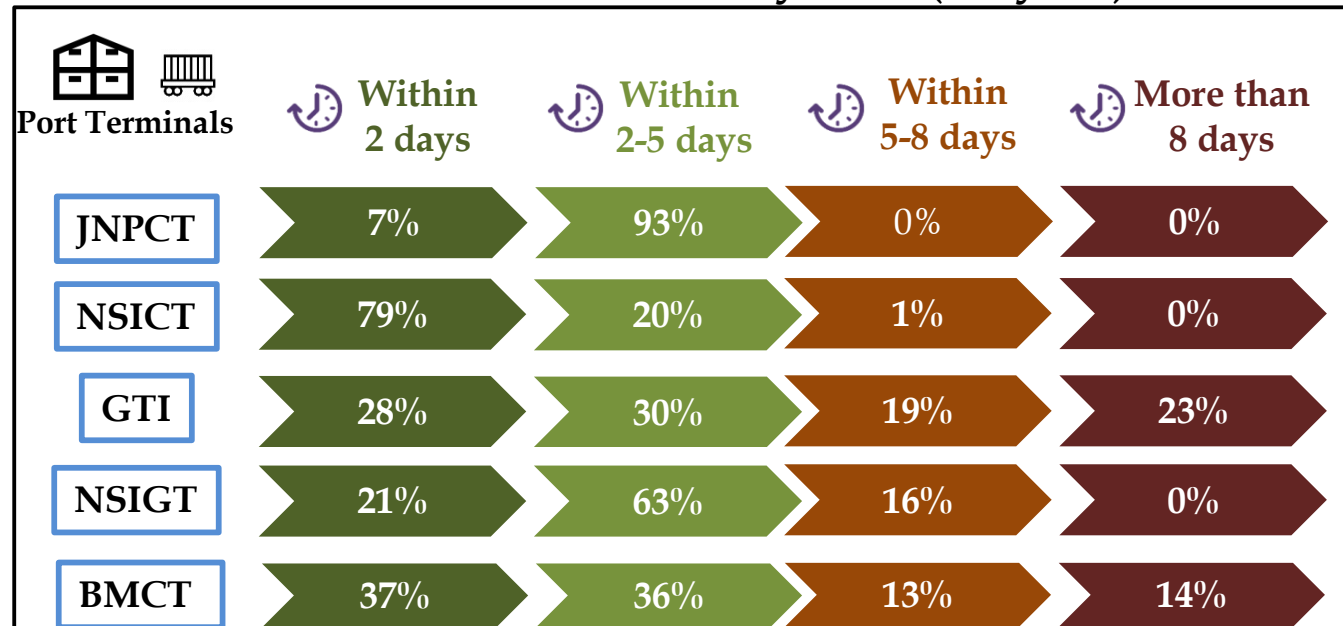
PORT EXPORT via TRAIN

(27% 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	Apr'20 (in hrs)	May'20 (in hrs)
JNPCT	72.1	66.9
NSICT	13.8	11.3
GTI	128.2	100.0
NSIGT	93.3	79.3
BMCT	111.0	70.8

Container Handled: Day wise (May'20)



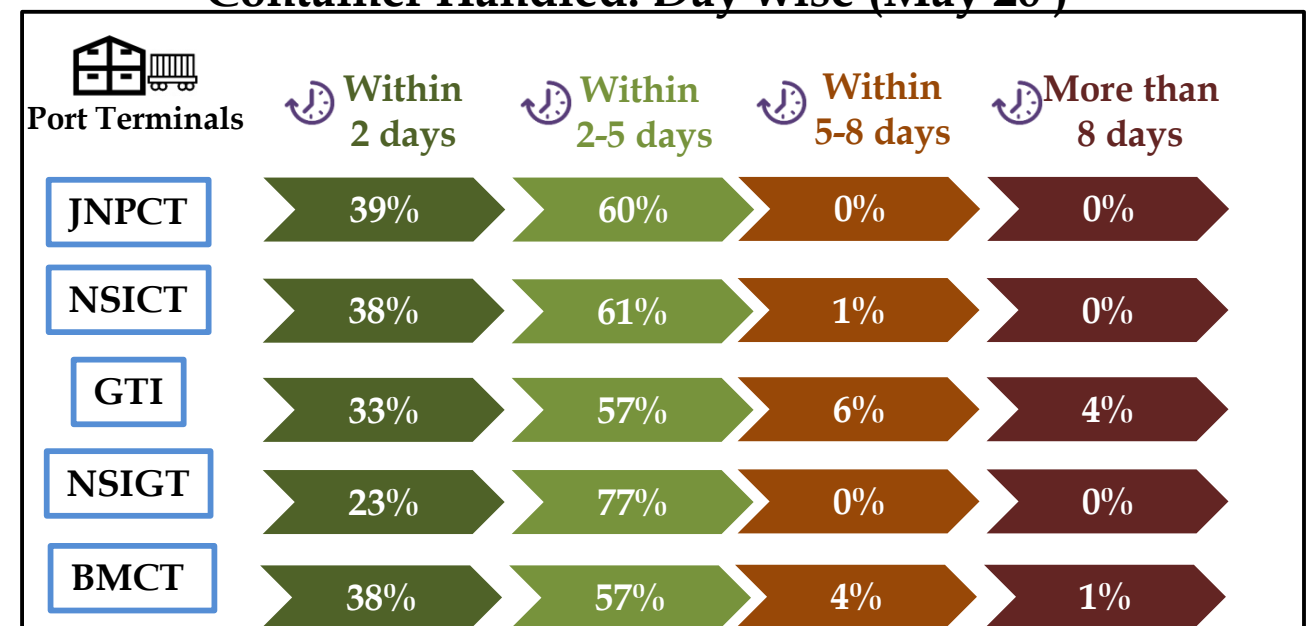
PORT EXPORT via TRUCK

(73% 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	Apr'20 (in hrs)	May'20 (in hrs)
JNPCT	64.9	54.5
NSICT	52.1	58.9
GTI	76.0	63.8
NSIGT	75.0	68.8
BMCT	81.1	58.9

Container Handled: Day wise (May'20)



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

JNPCT		
Port Dwell time based on transit type		
May'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	61.4 hrs	49.5 hrs
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	57.8 hrs	52.4 hrs

GTI		
Port Dwell time based on transit type		
May'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	66.8 hrs	59.0 hrs
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	63.5 hrs	62.2 hrs

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

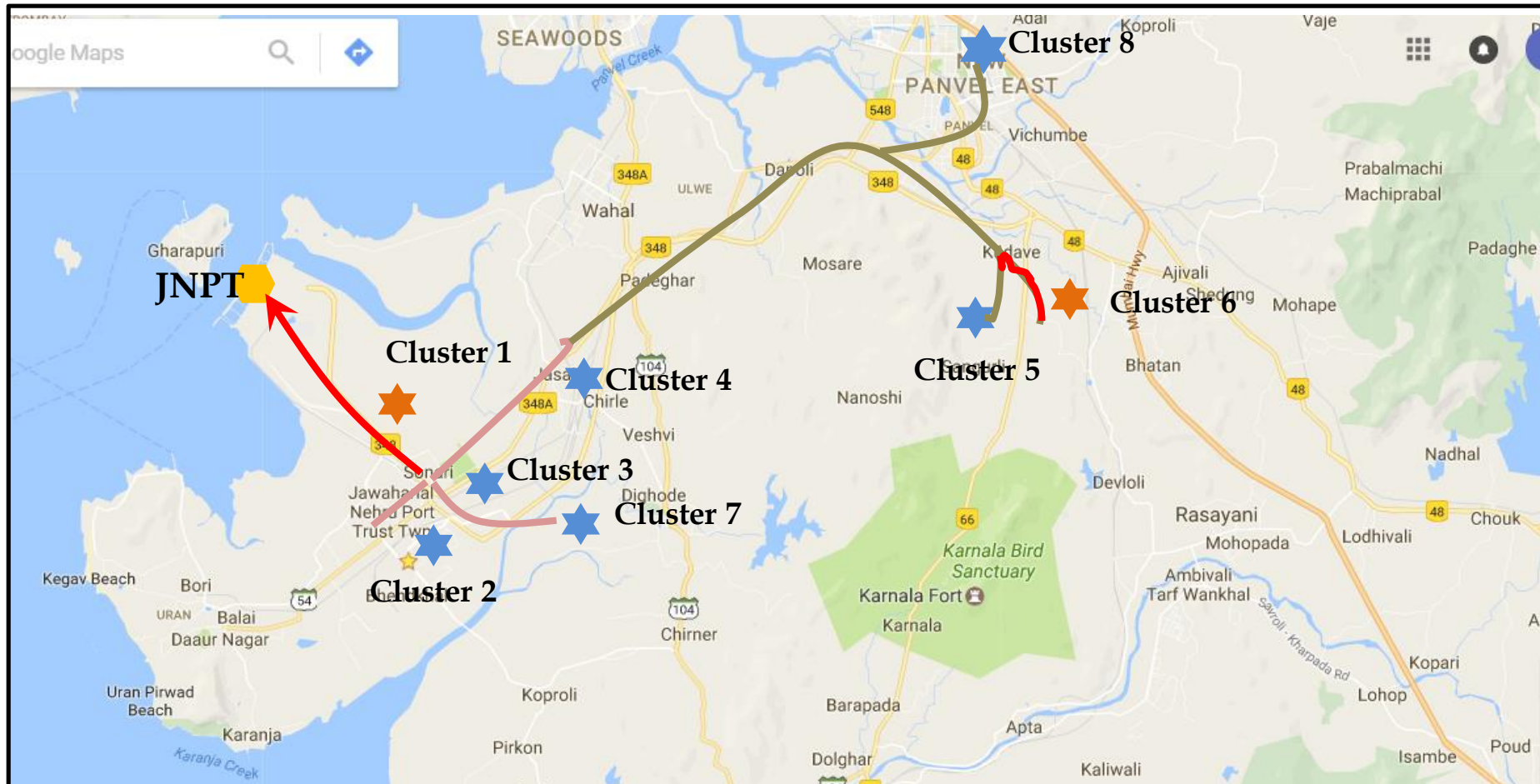
NSICT		
Port Dwell time based on transit type		
May'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	66.9 hrs	46.4 hrs
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	47.8 hrs	-

NSIGT		
Port Dwell time based on transit type		
May'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.3 hrs	61.8 hrs
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	69.6 hrs	76.1 hrs

BMCT		
Port Dwell time based on transit type		
May'20	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	66.4 hrs
Port Dwell time based on container type		
May'20	Laden Containers	Empty Containers
Dwell time (in hrs)	62.2 hrs	48.5 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of May'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 (Green 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]

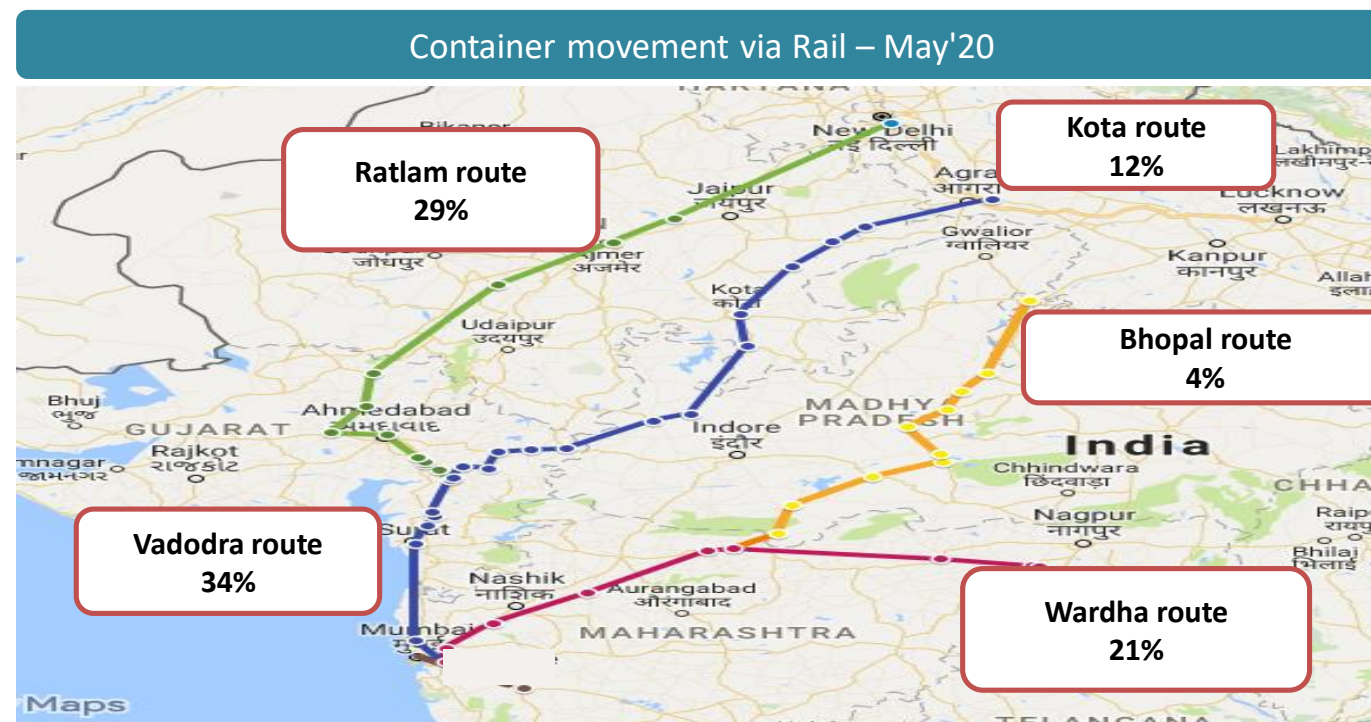
BMCT Terminal

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	34%
Ratlam Route	29%
Wardha Route	21%
Kota Route	12%
Bhopal Route	4%

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



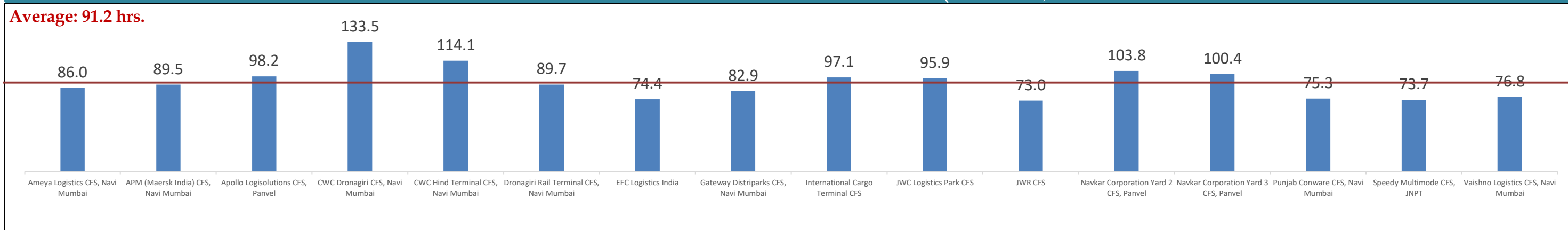
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)					
CFS	Apr'20	May'20	CFS	Apr'20	May'20
Ameya Logistics CFS, Navi Mumbai	92.7	86.0	International Cargo Terminal CFS	91.8	97.1
APM (Maersk India) CFS, Navi Mumbai	-	89.5	JWC Logistics Park CFS	91.6	95.9
Apollo Logisolutions CFS, Panvel	123.0	98.2	JWR CFS	57.6	73.0
CWC Dronagiri CFS, Navi Mumbai	-	133.5	Navkar Corporation Yard 2 CFS, Panvel	123.0	103.8
CWC Hind Terminal CFS, Navi Mumbai	101.0	114.1	Navkar Corporation Yard 3 CFS, Panvel	118.6	100.4
Dronagiri Rail Terminal CFS, Navi Mumbai	119.2	89.7	Punjab Conware CFS, Navi Mumbai	79.7	75.3
EFC Logistics India	65.8	74.4	Speedy Multimode CFS, JNPT	48.1	73.7
Gateway Distriparks CFS, Navi Mumbai	-	82.9	Vaishno Logistics CFS, Navi Mumbai	-	76.8

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

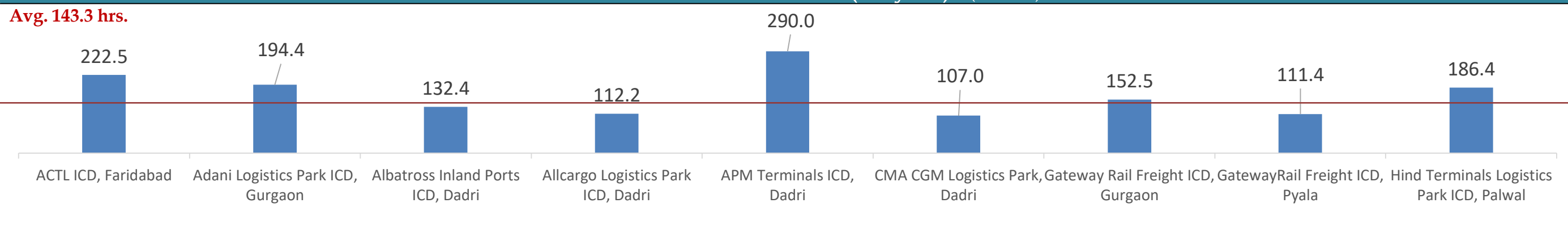


ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Apr'20 (in hrs)	May'20 (in hrs)
ACTL ICD, Faridabad	222.5	118.0
Adani Logistics Park ICD, Gurgaon	194.4	148.0
Albatross Inland Ports ICD, Dadri	132.4	144.3
Allcargo Logistics Park ICD, Dadri	112.2	144.0
APM Terminals ICD, Dadri	290.0	145.0
CMA CGM Logistics Park, Dadri	107.0	156.9
Gateway Rail Freight ICD, Gurgaon	152.5	122.2
GatewayRail Freight ICD, Pyala	111.4	112.0
Hind Terminals Logistics Park ICD, Palwal	186.4	156.6

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

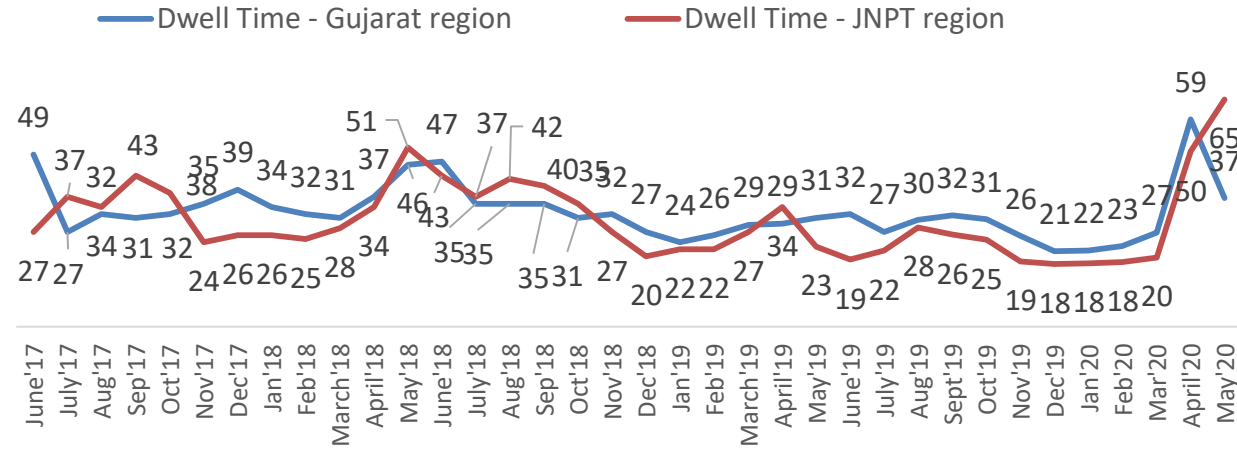


Trend Analysis

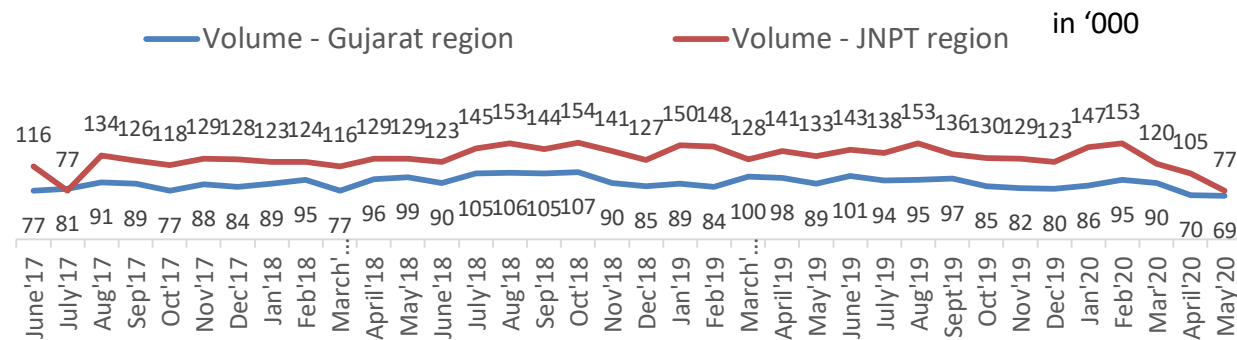
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until May'20

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



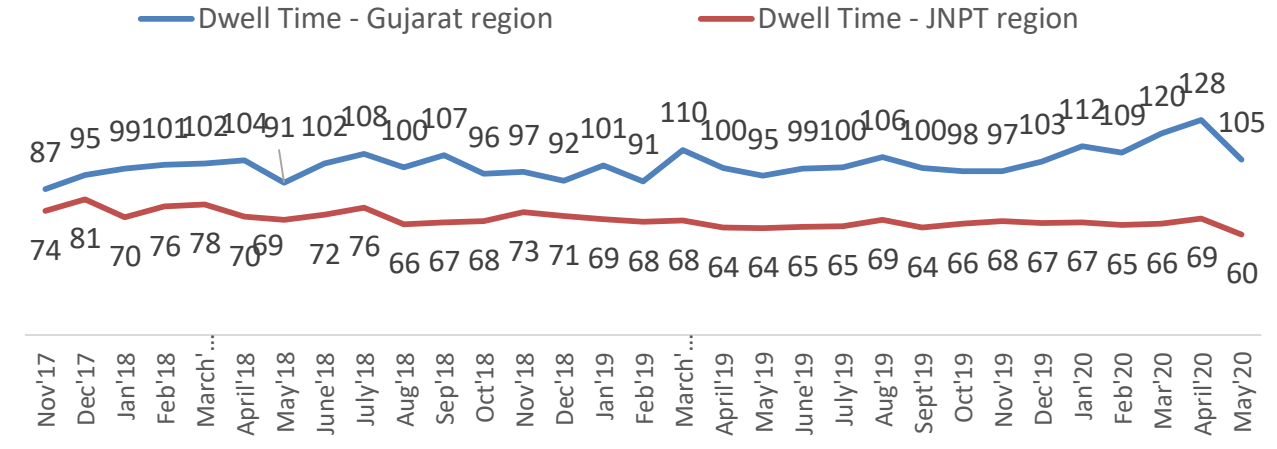
Volume – Gujarat Region Vs JNPT Region



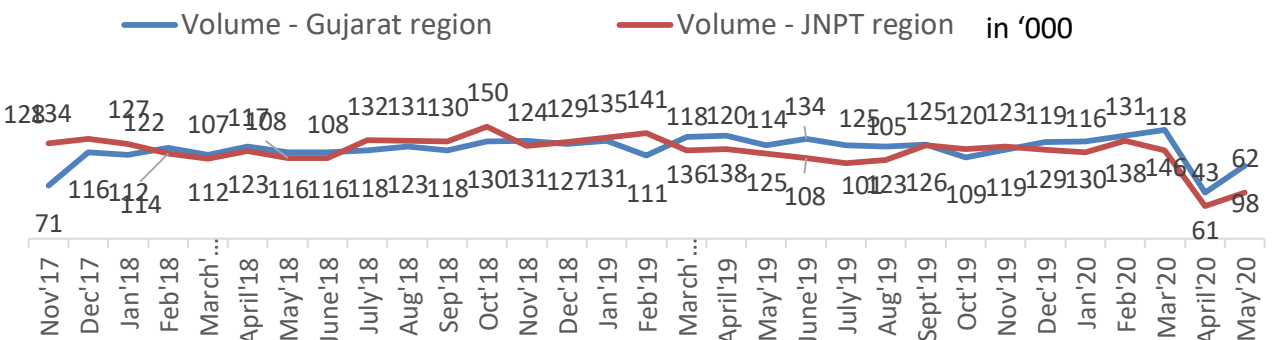
In Import cycle, for the month of May'20 JNPT port has catered 12% more volume than APSEZ Port, and has maintained 77% higher dwell time than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



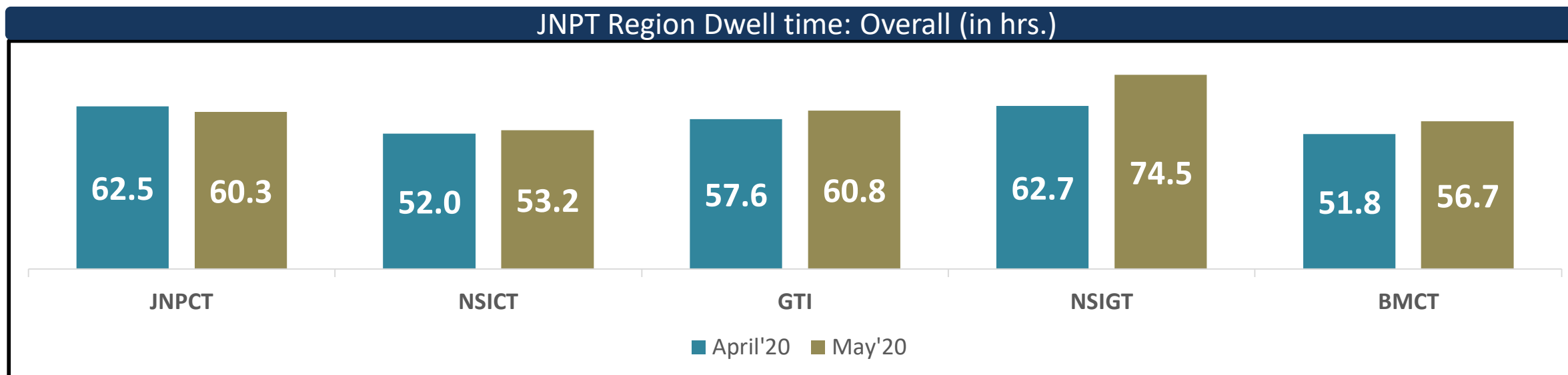
Volume – Gujarat Region Vs JNPT Region



In Export cycle, for the month May'20 JNPT port catered 37% more volume than APSEZ Port, and has maintained 43% lower dwell time than APSEZ Port

JNPT port dwell time trend :

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

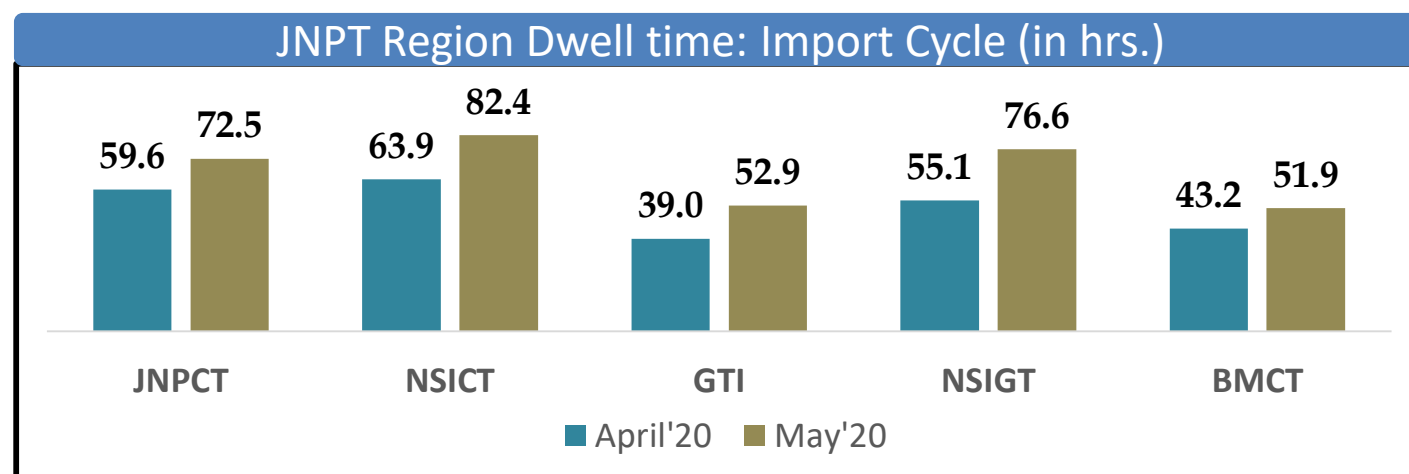


The overall JNPT region average dwell time for May'20 is 62.0 hrs as compared to 57.3 hrs in Apr'20

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of April'19

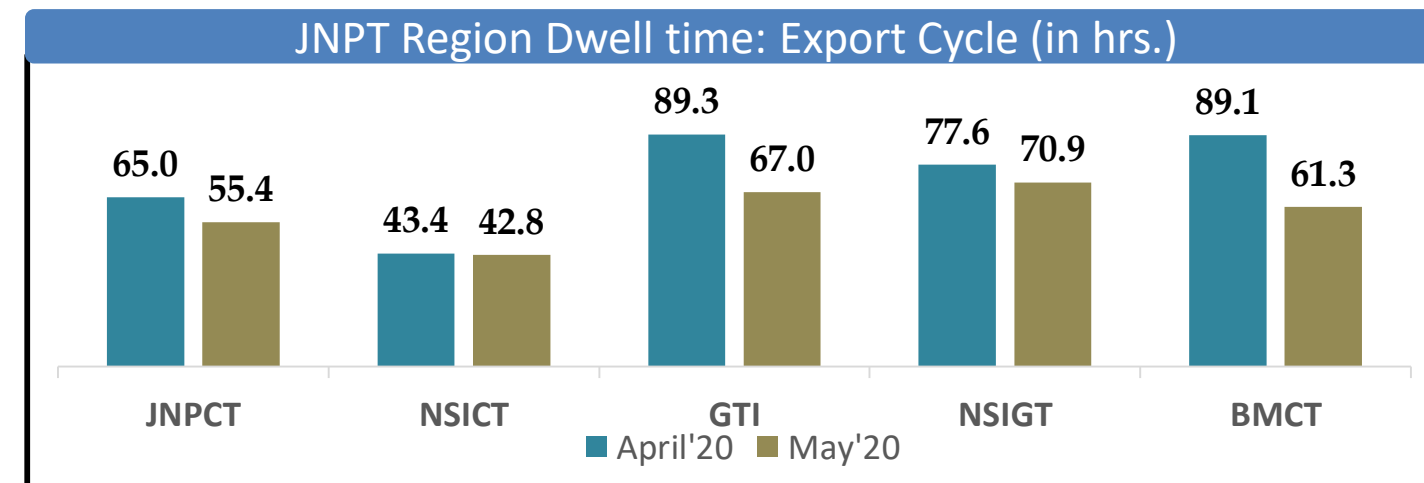
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for May'20 is 64.7 hrs.



JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for May'20 is 60.0 hrs.



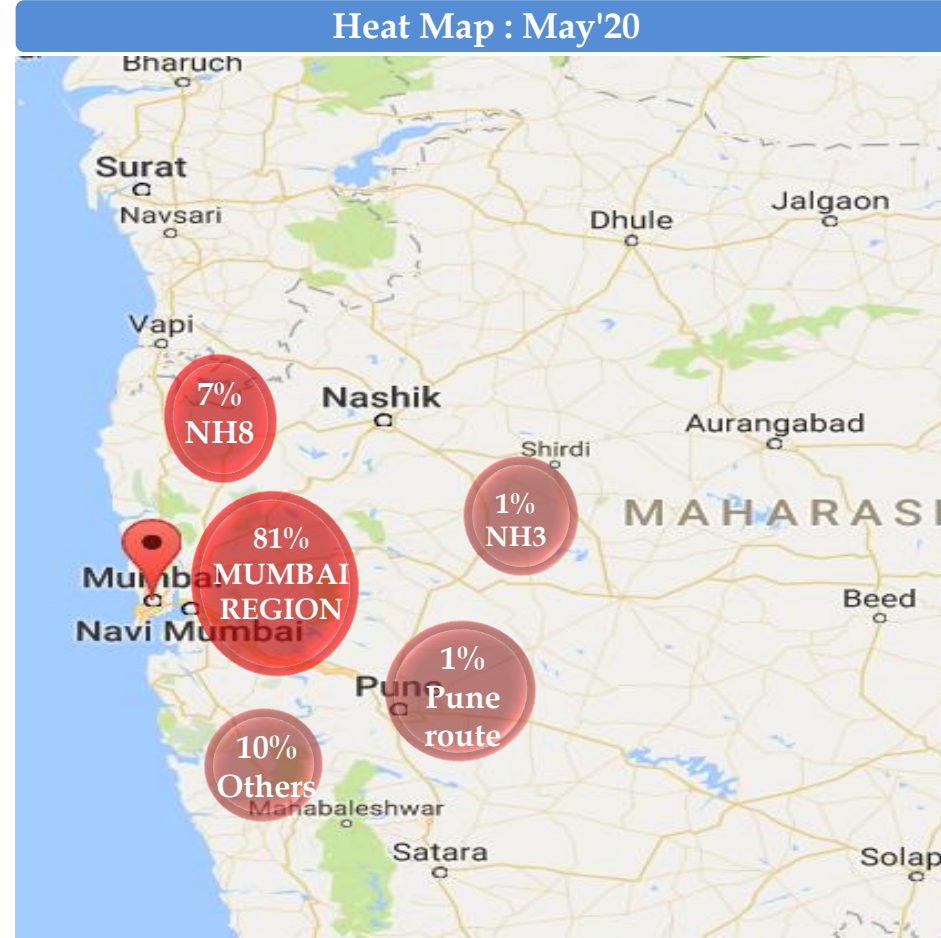
ANNEXURE

Container movement around JNPT Port terminal region via Truck

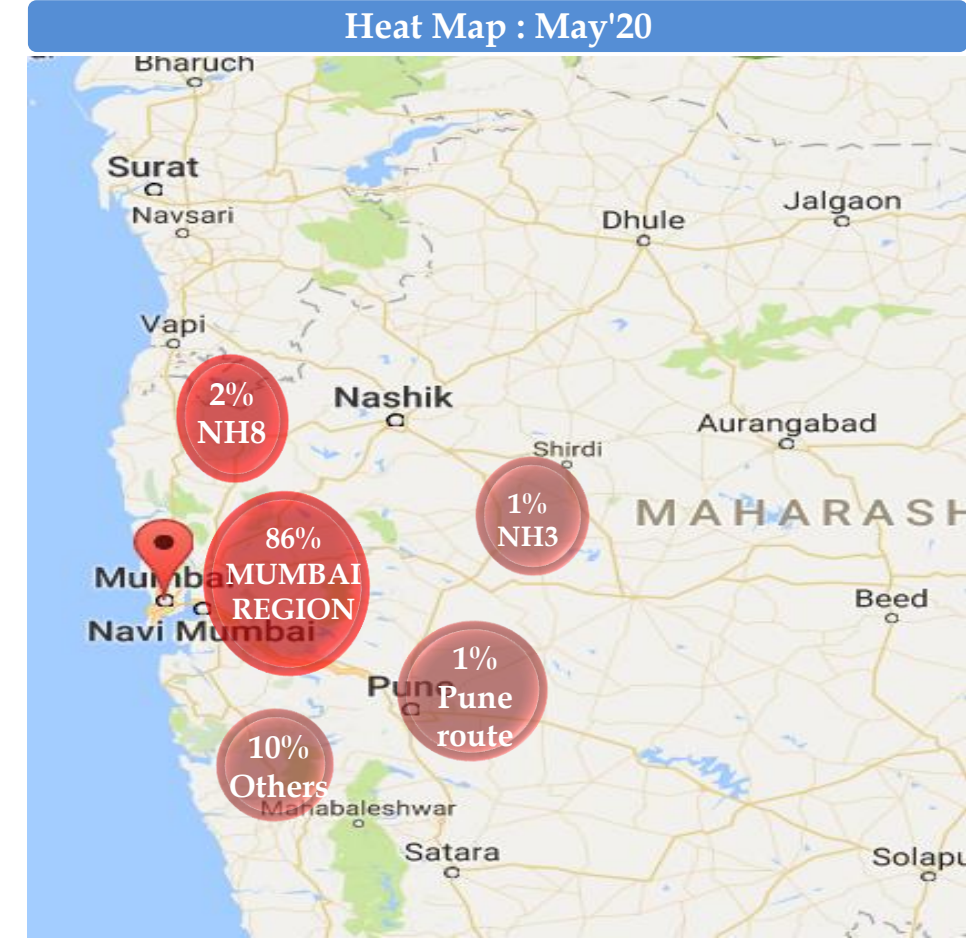
HEAT MAP : GTI Port Terminal



HEAT MAP : JNPCT Port Terminal



HEAT MAP : NSICT Port Terminal



Region	Apr'20	May'20
Mumbai region	80%	79%
NH3	2%	2%
Pune	2%	2%
NH8	6%	7%
others	10%	10%

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

Region	Apr'20	May'20
Mumbai region	82%	81%
NH3	1%	1%
Pune	1%	1%
NH8	6%	7%
others	10%	10%

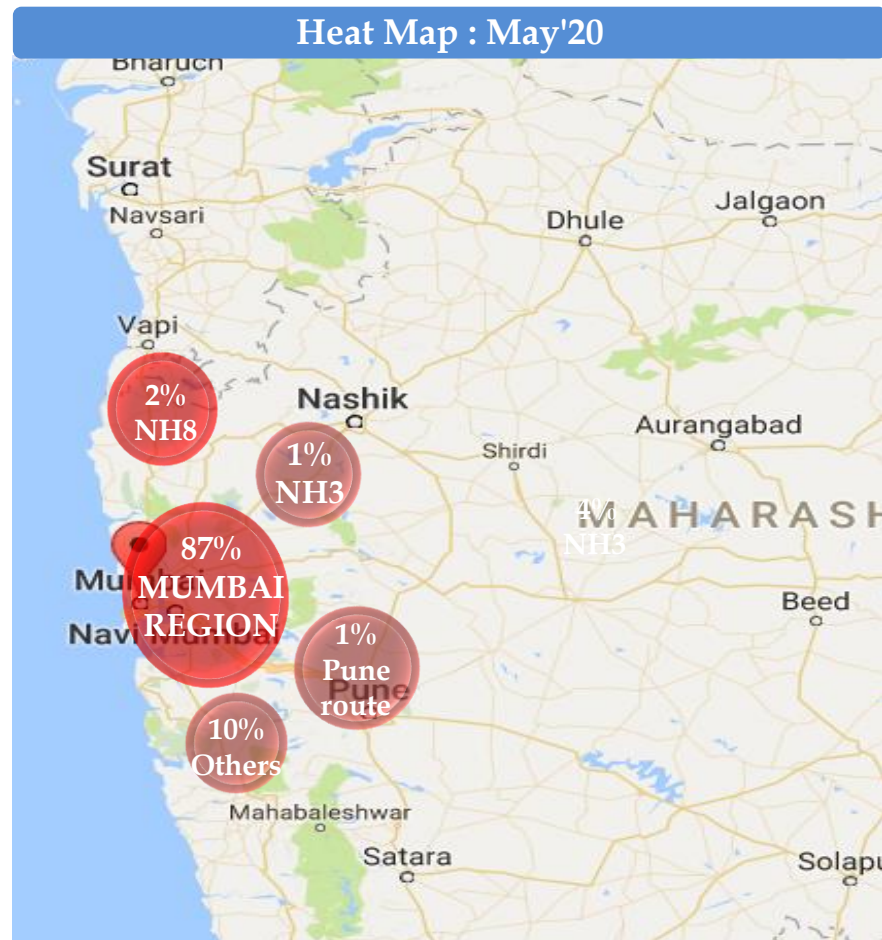
The heat map above depicts the movement of containers in and around the Mumbai region.

Region	Apr'20	May'20
Mumbai region	84%	86%
NH3	2%	1%
Pune	1%	1%
NH8	3%	2%
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

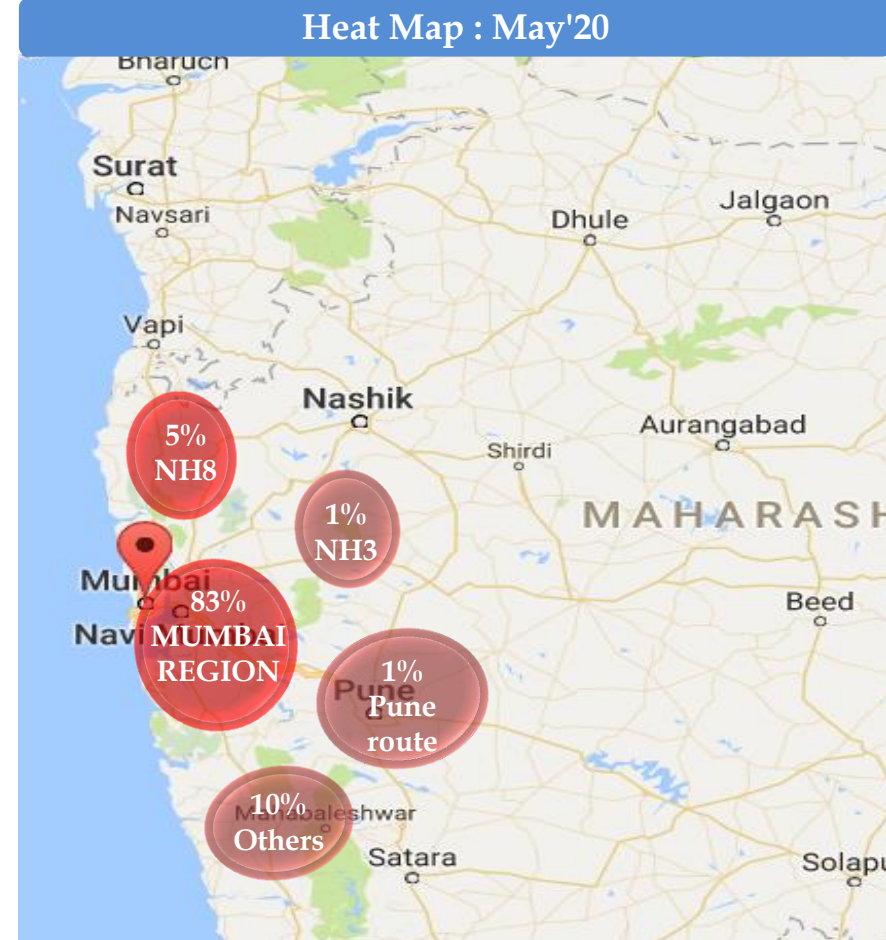
HEAT MAP : NSIGT Port Terminal



Region	Apr'20	May'20
Mumbai region	83%	87%
NH3	1%	0%
Pune	2%	1%
NH8	4%	2%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Apr'20	May'20
Mumbai region	84%	83%
NH3	1%	1%
Pune	1%	1%
NH8	4%	5%
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 May'20					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	1.2	1.7	1.6	1.3	2.0
Punjab Conware CFS, Navi Mumbai	2.2	1.9	1.9	3.0	2.3
JWC Logistics Park CFS	3.0	2.8	2.3	1.9	2.5
CWC Hind Terminal CFS, Navi Mumbai	1.6	1.5	1.5	2.1	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	1.3	2.1	1.6	1.5	1.9
Navkar Corporation Yard 2 CFS, Panvel	5.9	6.0	5.7	7.3	4.3
Vaishno Logistics CFS, Navi Mumbai	1.5	2.2	1.5	1.5	2.7
Speedy Multimode CFS, JNPT	2.1	2.5	2.0	2.4	2.1
Balmer & Lawrie CFS, Navi Mumbai	18.9	30.9	13.9	1.9	6.3
Navkar Corporation Yard 3 CFS, Panvel	5.6	6.9	6.7	4.9	26.3
Ashte Logistics CFS, Panvel	2.5	2.9	2.8	4.3	3.0
Continental Warehousing CFS, Navi Mumbai	7.2	1.8	1.3	6.6	1.7
SBW Logistics CFS, Navi Mumbai	9.0	2.1	4.0	2.6	1.9
Maharashtra State Corp CFS	2.5	2.2	2.5	1.7	2.0
Internation Cargo Terminal CFS	3.7	1.8	2.0	1.7	2.0
Seabird CFS, Navi Mumbai	7.8	3.0	1.3	3.4	1.5
Apollo Logisolutions CFS, Panvel	5.1	4.1	3.5	2.4	3.0
Ameya Logistics CFS, Navi Mumbai	2.2	3.3	2.1	2.8	2.2
Transindia Logistics Park, Navi Mumbai	1.7	1.9	1.6	1.0	3.4
Ocean Gate CFS, Panvel	2.9	2.8	3.8	1.6	2.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.4	2.0	1.6	1.9	2.9
Indev Logistics CFS, Panvel	4.1	3.5	4.3	1.6	3.0
CWC Dronagiri CFS, Navi Mumbai	42.3	-	-	-	-
APM (Maersk India) CFS, Navi Mumbai	1.7	2.3	1.2	1.7	1.9

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	May'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	2.8
Internation Cargo Terminal CFS	2.7
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	1.6
Indev Logistics CFS, Panvel	4.0
Navkar Corporation Yard 3 CFS, Panvel	8.8
Seabird CFS, Navi Mumbai	4.3
Balmer & Lawrie CFS, Navi Mumbai	4.4
Ashte Logistics CFS, Panvel	2.6
Continental Warehousing CFS, Navi Mumbai	1.9
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	3.2
Navkar Corporation Yard 1 CFS, Panvel	3.9
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2
Maersk Annex (APM)CFS, Navi Mumbai	3.2
Speedy Multimode CFS, JNPT	2.4
Apollo Logisolutions CFS, Panvel	5.8
Navkar Corporation Yard 2 CFS, Panvel	5.0
Punjab Conware CFS, Navi Mumbai	2.3
Vaishno Logistics CFS, Navi Mumbai	3.4
JWC Logistics Park CFS	4.1
SBW Logistics CFS, Navi Mumbai	4.3
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	5.9

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

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

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

CFS	May'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	2.5
Internation Cargo Terminal CFS	3.2
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	2.6
Navkar Corporation Yard 3 CFS, Panvel	5.7
Seabird CFS, Navi Mumbai	1.7
Balmer & Lawrie CFS, Navi Mumbai	2.7
Ashte Logistics CFS, Panvel	2.3
Continental Warehousing CFS, Navi Mumbai	3.3
CWC Hind Terminal CFS, Navi Mumbai	1.5
Dronogiri Rail Terminal CFS, Navi Mumbai	3.3
Navkar Corporation Yard 1 CFS, Panvel	2.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	1.7
Speedy Multimode CFS, JNPT	2.0
Apollo Logisolutions CFS, Panvel	4.6
Navkar Corporation Yard 2 CFS, Panvel	3.9
Punjab Conware CFS, Navi Mumbai	2.3
Vaishno Logistics CFS, Navi Mumbai	4.3
JWC Logistics Park CFS	2.5
SBW Logistics CFS, Navi Mumbai	2.8
Ocean Gate CFS, Panvel	2.7
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	May'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.9
APM (Maersk India) CFS, Navi Mumbai	2.3
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	1.7
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	4.3
Navkar Corporation Yard 3 CFS, Panvel	3.5
Seabird CFS, Navi Mumbai	2.5
Balmer & Lawrie CFS, Navi Mumbai	3.4
Ashte Logistics CFS, Panvel	2.4
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	2.2
Navkar Corporation Yard 1 CFS, Panvel	4.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.9
Speedy Multimode CFS, JNPT	1.6
Apollo Logisolutions CFS, Panvel	6.1
Navkar Corporation Yard 2 CFS, Panvel	4.3
Punjab Conware CFS, Navi Mumbai	2.8
Vaishno Logistics CFS, Navi Mumbai	4.7
JWC Logistics Park CFS	5.7
SBW Logistics CFS, Navi Mumbai	3.8
Ocean Gate CFS, Panvel	2.7
Maharashtra State Corp CFS	

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	May'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.7
Internation Cargo Terminal CFS	2.2
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.4
Indev Logistics CFS, Panvel	3.6
Navkar Corporation Yard 3 CFS, Panvel	4.6
Seabird CFS, Navi Mumbai	2.5
Balmer & Lawrie CFS, Navi Mumbai	2.9
Ashte Logistics CFS, Panvel	3.1
Continental Warehousing CFS, Navi Mumbai	2.1
CWC Hind Terminal CFS, Navi Mumbai	1.6
Dronogiri Rail Terminal CFS, Navi Mumbai	1.7
Navkar Corporation Yard 1 CFS, Panvel	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.7
Maersk Annex (APM)CFS, Navi Mumbai	3.0
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	4.9
Navkar Corporation Yard 2 CFS, Panvel	5.3
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	5.3
JWC Logistics Park CFS	4.2
SBW Logistics CFS, Navi Mumbai	11.3
Ocean Gate CFS, Panvel	3.0
Maharashtra State Corp CFS	1.8

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	May'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	2.7
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	4.0
Navkar Corporation Yard 3 CFS, Panvel	6.4
Seabird CFS, Navi Mumbai	2.9
Balmer & Lawrie CFS, Navi Mumbai	3.0
Ashte Logistics CFS, Panvel	2.3
Continental Warehousing CFS, Navi Mumbai	2.0
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	2.0
Navkar Corporation Yard 1 CFS, Panvel	2.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	3.2
Speedy Multimode CFS, JNPT	1.6
Apollo Logisolutions CFS, Panvel	4.8
Navkar Corporation Yard 2 CFS, Panvel	3.1
Punjab Conware CFS, Navi Mumbai	2.5
Vaishno Logistics CFS, Navi Mumbai	4.3
JWC Logistics Park CFS	4.3
SBW Logistics CFS, Navi Mumbai	5.2
Ocean Gate CFS, Panvel	2.8
Maharashtra State Corp CFS	1.7

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 May'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	2.4	2.5
Cluster 2	6	13	2.7	1.9
Cluster 3	6	11	3.7	2.2
Cluster 4	1	13	3.4	2.2
Cluster 5	2	25	3.7	2.8
Cluster 6	6	25	4.5	4.1
Cluster 7	4	12	1.9	1.9
Cluster 8	1	34	4.3	2.1

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of May'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	2.0	2.1
Cluster 2	6	13	2.3	2.7
Cluster 3	6	11	2.2	2.4
Cluster 4	1	13	4.3	1.5
Cluster 5	2	25	2.6	2.9
Cluster 6	6	25	3.3	5.1
Cluster 7	4	12	2.2	2.2
Cluster 8	1	34	2.8	9.0

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 May'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	2.0
Cluster 2	6	13	2.3	1.6
Cluster 3	6	11	2.4	1.8
Cluster 4	1	13	4.7	0.0
Cluster 5	2	25	4.2	3.0
Cluster 6	6	25	4.1	4.3
Cluster 7	4	12	1.7	1.6
Cluster 8	1	34	3.8	4.0






CFS Cluster : NSIGT Terminal

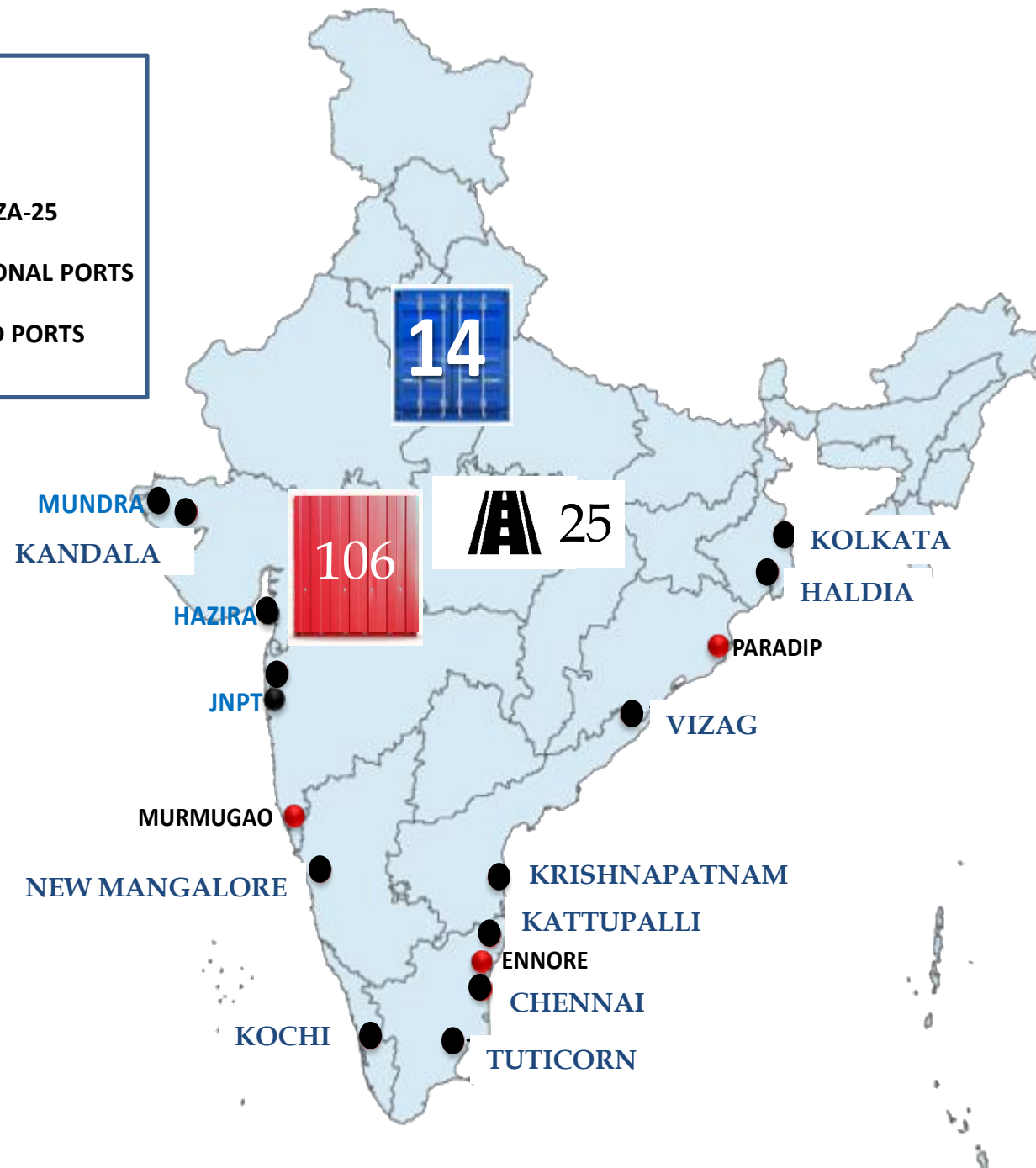
JNPCT terminal for month of May'20				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	2.4
Cluster 2	6	13	2.7	1.8
Cluster 3	6	11	2.0	2.4
Cluster 4	1	13	5.3	1.5
Cluster 5	2	25	3.6	1.8
Cluster 6	6	25	4.1	4.3
Cluster 7	4	12	2.1	2.8
Cluster 8	1	34	11.3	2.6

CFS Cluster : BMCT Terminal

JNPCT terminal for month of May'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	2.1
Cluster 2	6	13	2.6	2.0
Cluster 3	6	11	2.0	1.9
Cluster 4	1	13	4.3	2.7
Cluster 5	2	25	3.6	2.6
Cluster 6	6	25	3.5	3.0
Cluster 7	4	12	2.0	2.2
Cluster 8	1	34	5.2	1.9

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	Ameya Logistics CFS, Navi Mumbai
2	APM (Maersk India) CFS, Navi Mumbai
3	Apollo Logisolutions CFS, Panvel
4	CWC Dronagiri CFS, Navi Mumbai
5	CWC Hind Terminal CFS, Navi Mumbai
6	Dronagiri Rail Terminal CFS, Navi Mumbai
7	EFC Logistics India
8	Gateway Distriparks CFS, Navi Mumbai
9	International Cargo Terminal CFS
10	JWC Logistics Park CFS
11	JWR CFS
12	Navkar Corporation Yard 2 CFS, Panvel
13	Navkar Corporation Yard 3 CFS, Panvel
14	Punjab Conware CFS, Navi Mumbai
15	Speedy Multimode CFS, JNPT
16	Vaishno Logistics CFS, Navi Mumbai



THANK YOU