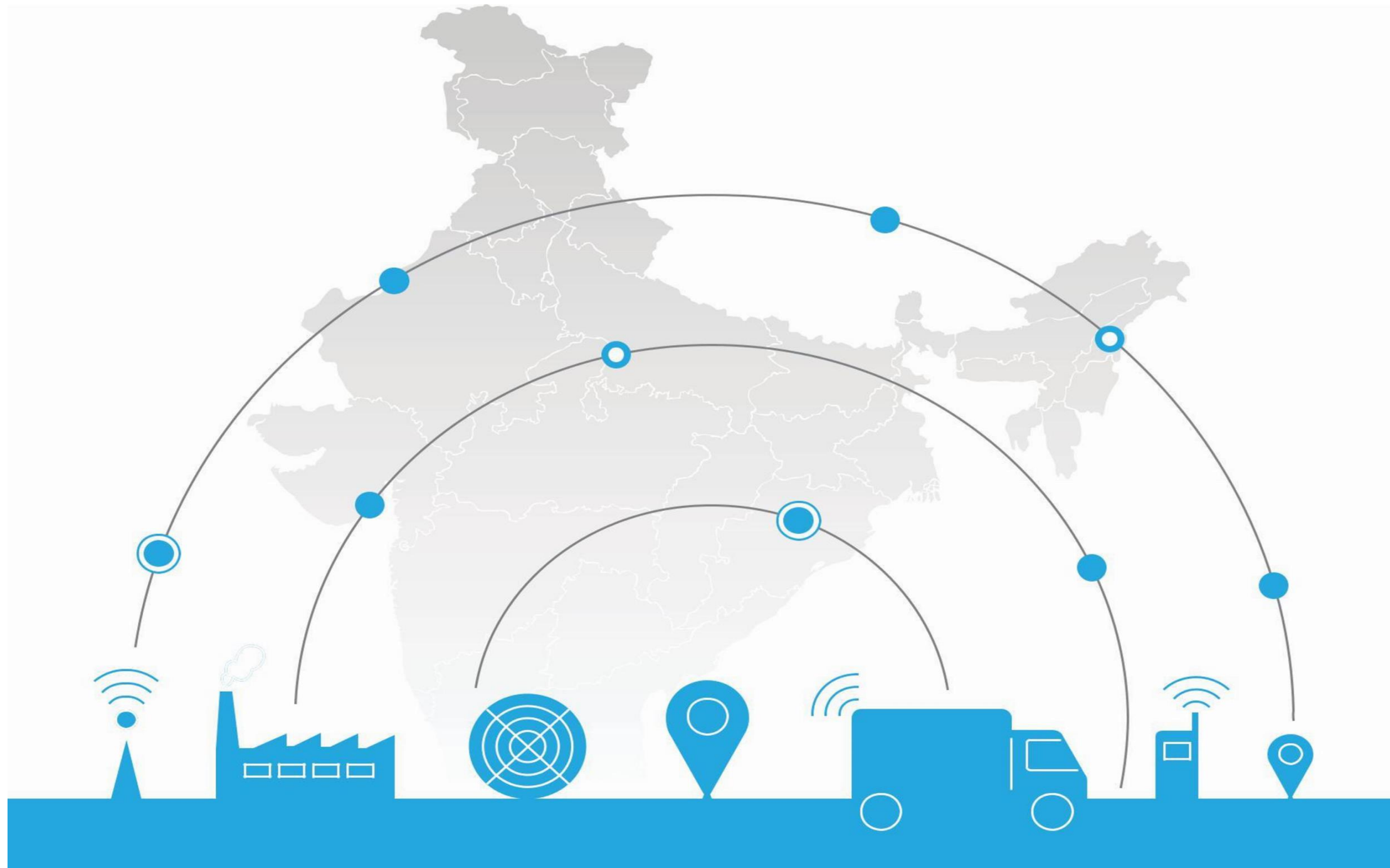


Logistics Databank Analytics Report- JNPT



Jawaharlal Nehru Port Terminals

- Import Dwell time performance at JNPT Port has decreased by 14% also the Port to CFS Transit performance of truck bound containers has decreased by 17%

Component	Import Cycle		Transit Time - Port to CFS - Truck Bound (Import Cycle)	
July 2019	21.6 hrs		3.3 hrs	
June 2019	19.0 hrs	↓ 14%	2.8 hrs	↓ 17%

- The transit performance between Port & ICD has decreased in both Import & Export cycle by 8% & 9% respectively

Component	Port to ICD (Import)		ICD to Port (Export)	
July 2019	80.9 hrs		61.0 hrs	
June 2019	75.2 hrs	↓ 8%	56.2 hrs	↓ 9%

- CFS bound container performance for Import cycle has decreased by 15% whereas Export cycle has improved by 10%

Component	CFS bound (Import Cycle)		CFS bound (Export Cycle)	
July 2019	18.3 hrs		59.8 hrs	
June 2019	15.9 hrs	↓ 15%	66.2 hrs	↑ 10%

Port Dwell Time

IMPORT

Mode	June'19 (in hrs)	July'19 (in hrs)
Overall	23.0	23.4
Truck	20.8	20.9
Train	48.8	52.1

EXPORT

Mode	June'19 (in hrs)	July'19 (in hrs)
Overall	80.2	80.3
Truck	80.1	79.6
Train	80.2	85.1

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



Inland
Container
Depot (ICD)



Container
Freight
Stations (CFS)

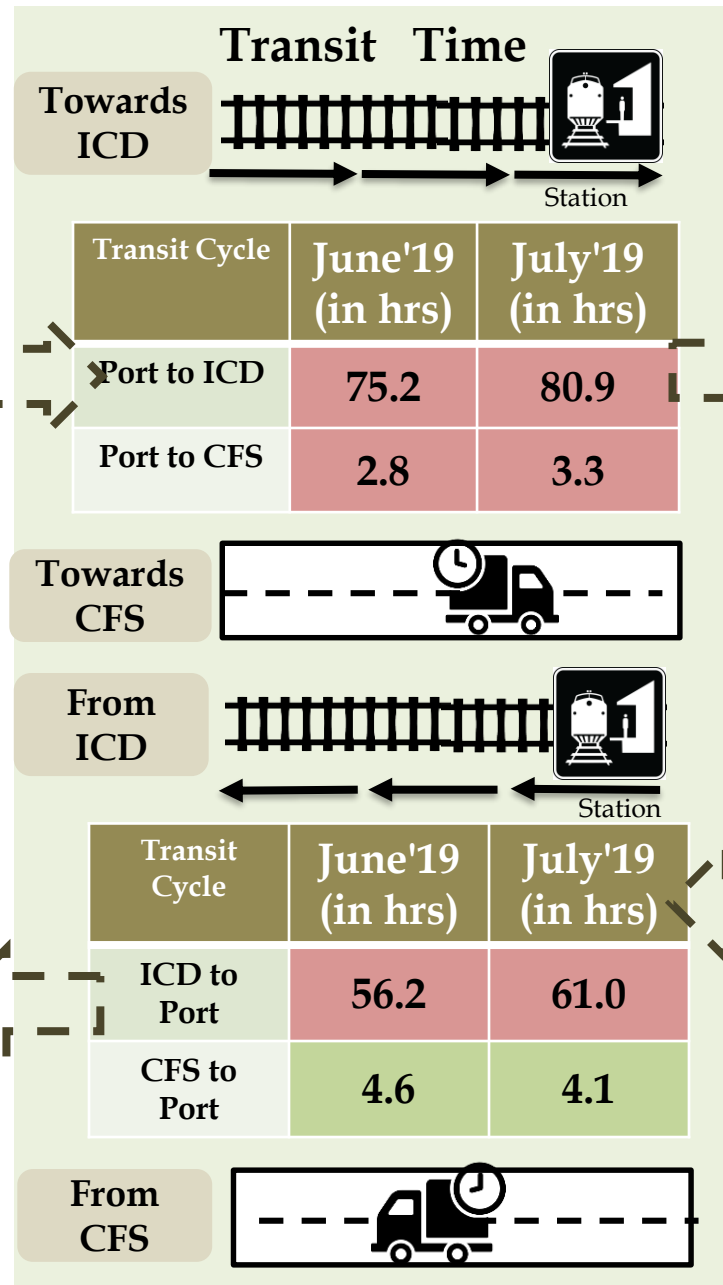
Entity	June'19 (in hrs)	July'19 (in hrs)
CFS	85.3	87.1
ICD	131.2	129.6

- The marked entries showcase increase in performance in comparison to July'19
- The marked entries showcase decrease in performance in comparison to July'19

Container Lifecycle (Import Cycle)

Port Dwell Time			
IMPORT	Mode	June'19 (in hrs)	July'19 (in hrs)
	Overall	19.0	21.6
	Truck	17.3	19.4
	Train	37.9	43.1

Port Dwell Time			
EXPORT	Mode	June'19 (in hrs)	July'19 (in hrs)
	Overall	64.5	64.7
	Truck	65.7	65.3
	Train	54.7	58.5



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

Entity	June'19 (in hrs)	July'19 (in hrs)
CFS	83.2	84.4
ICD	129.9	129.6

The marked entries showcase the increase in performance as compared to July'19

The marked entries showcase the decrease in performance as compared to July'19

Container Lifecycle (Export Cycle)

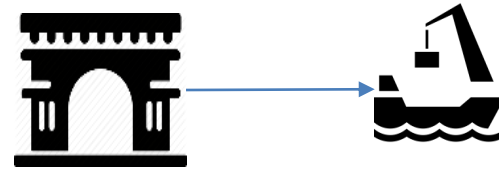
Disclaimer : Due to high level of skewness in data set, the dwell time has been evaluated using analytics tool

Container handling performance around Parking Plaza and NSIGT Port Terminal is depicted below for the month June'19 and July'19



Parking Plaza Gate In - Gate Out

Mode	June'19 (in hrs)	July'19 (in hrs)
Overall	7.3	7.8



Parking Plaza Gate Out - Terminal In

Mode	June'19 (in hrs)	July'19 (in hrs)
Overall	1.4	1.9



NISGT Port Export Dwell Time

Mode	June'19 (in hrs)	July'19 (in hrs)
Truck Bound	70.1	67.9



 The marked entries showcase the increase in performance compared to last month

 The marked entries showcase the decrease in performance compared to last month

Container Transportation- JNPT Port Terminals

IMPORT CYCLE DWELL TIME (July'19 - in hrs)			Compared to June'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	21.6	14% ↓
	Port Dwell Time for Truck Bound Containers	19.4	12% ↓
	Port Dwell time for Train Bound Containers	43.1	14% ↓
	Port Dwell time Direct Port Delivery (DPD) containers	41.9	1% ↑
	Port Dwell time Containers bound for CFS	18.3	15% ↓
	Port Dwell for Empty Containers	28.2	0.4% ↑
	Port Dwell for Laden Containers	20.9	16% ↓
TRANSIT TIME	Port to ICD	80.9	8% ↓
	Port to CFS	3.3	18% ↓

↑ ↓
The arrows depict increase/decrease in performance of the stakeholders in comparison to June'19

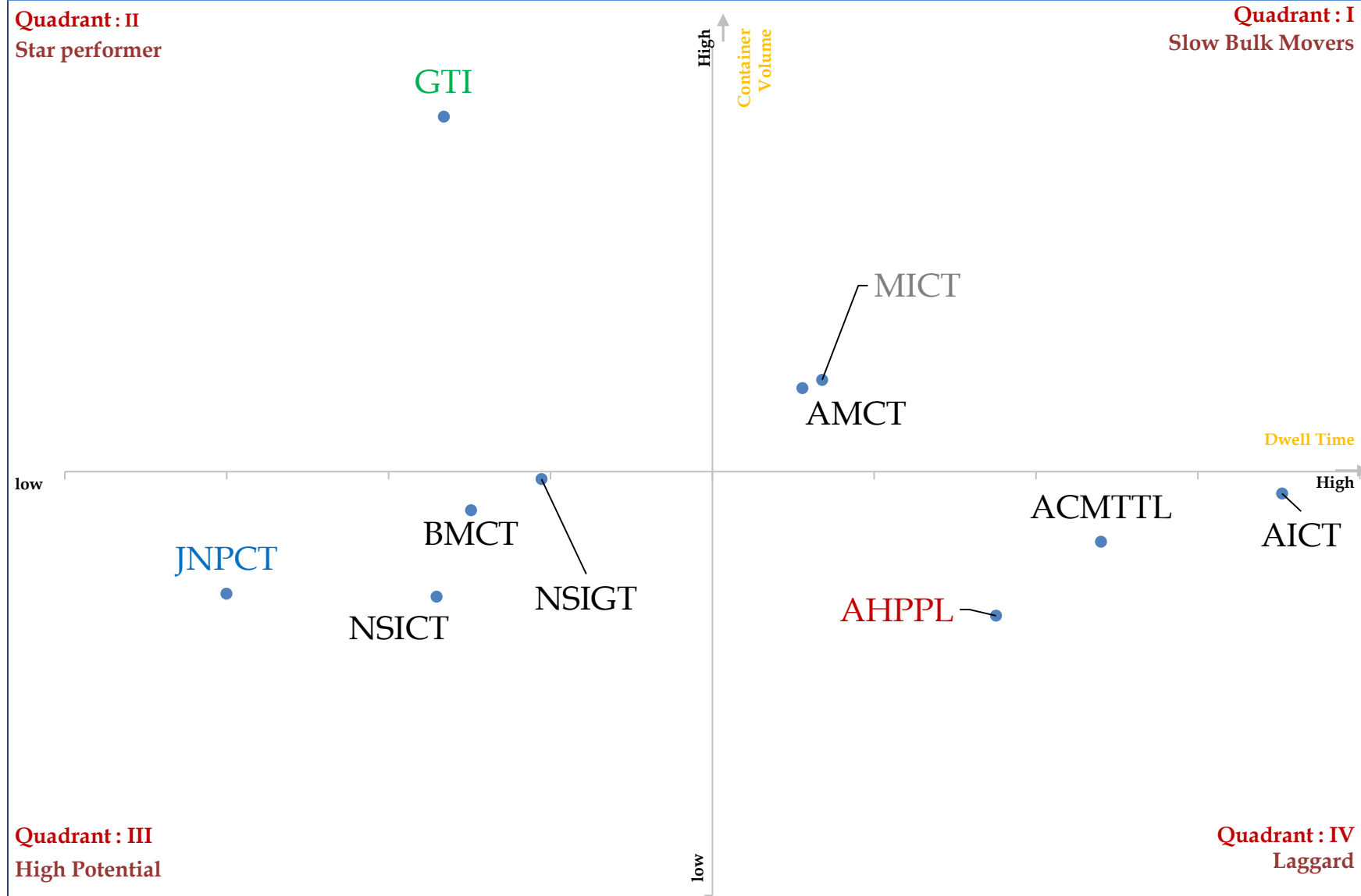
EXPORT CYCLE DWELL TIME (July'19- in hrs)			Compared to June'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	64.7	0.2% ↓
	Port Dwell Time for Truck Bound Containers	65.3	1% ↑
	Port Dwell time for Train Bound Containers	58.5	7% ↓
	Port Dwell time Direct Port Entry (DPE) containers	66.0	8% ↓
	Port Dwell time Containers bound from CFS	59.8	10% ↑
	Port Dwell for Empty Containers	63.7	5% ↑
	Port Dwell for Laden Containers	65.7	3% ↓
TRANSIT TIME	ICD to Port	61.0	9% ↓
	CFS to Port	4.1	11% ↑

↑ ↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to July'19



Performance Benchmarking - Port Terminals

Port Terminal Performance Index - July'19



Performance benchmarking for Port Terminals covered under LDB project for July'19

Top Performing Terminal	
Gateway Terminals India (GTI)	
June'19	July'19
35.9 hrs	36.9 hrs ↓
Low Performing Terminal	
Adani Hazira Port Private Limited (AHPPL)	
June'19	July'19
66.5 hrs	67.4 hrs ↓

Note: The performance benchmarking is based on performance index



The arrows depict increase/decrease in overall performance of the stakeholders in comparison to June'19

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



Performance Benchmarking



Top Performing CFS

Punjab Conware CFS, Navi Mumbai	
June'19	July'19
70.0 hrs	64.4 hrs ↑

Low Performing CFS

Maersk Annex (APM)CFS, Navi Mumbai	
June'19	July'19
110.1 hrs	113.4 hrs ↓

Note: The performance benchmarking is based on performance index
↑ ↓ The arrows depict increase/decrease in overall performance of the stakeholders as compared to July'19

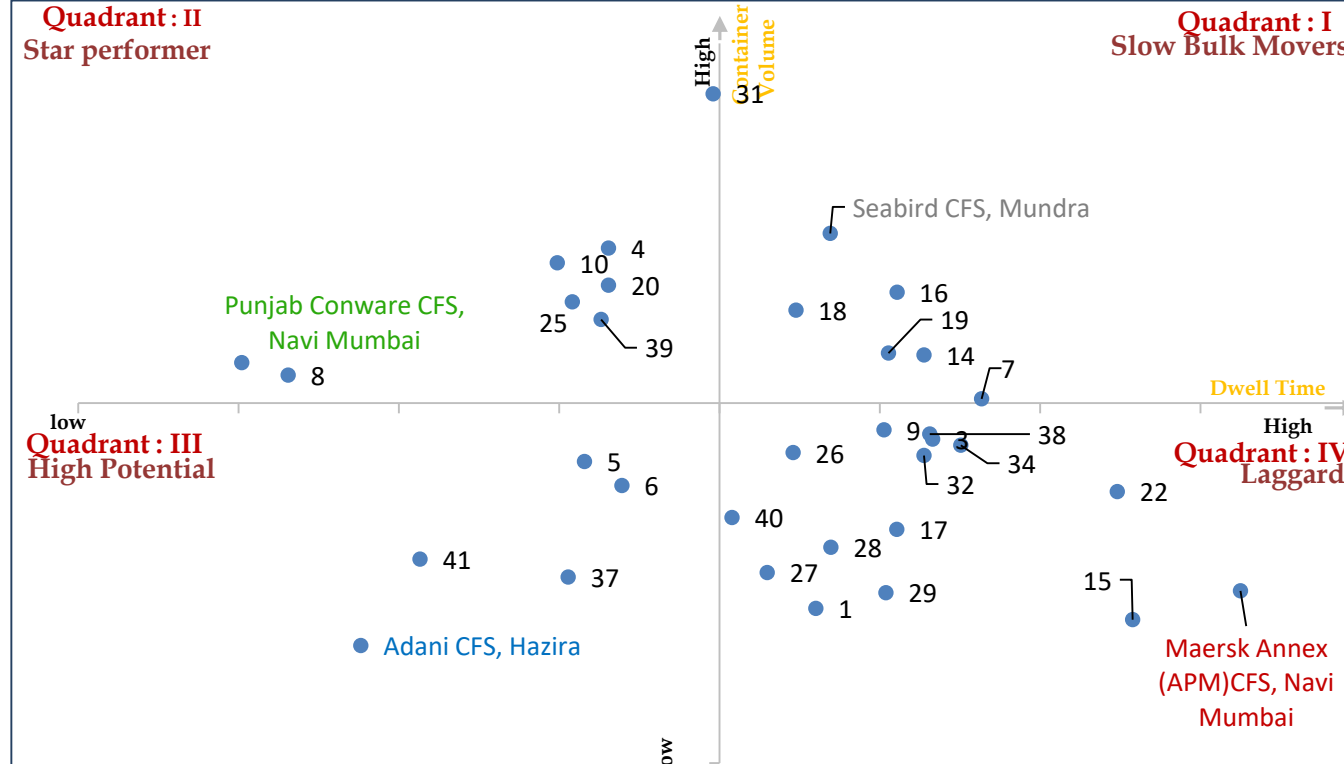
Top Performing ICD

Gateway Rail Freight ICD, Gurgaon	
June'19	July'19
97.2 hrs	104.5 hrs ↓

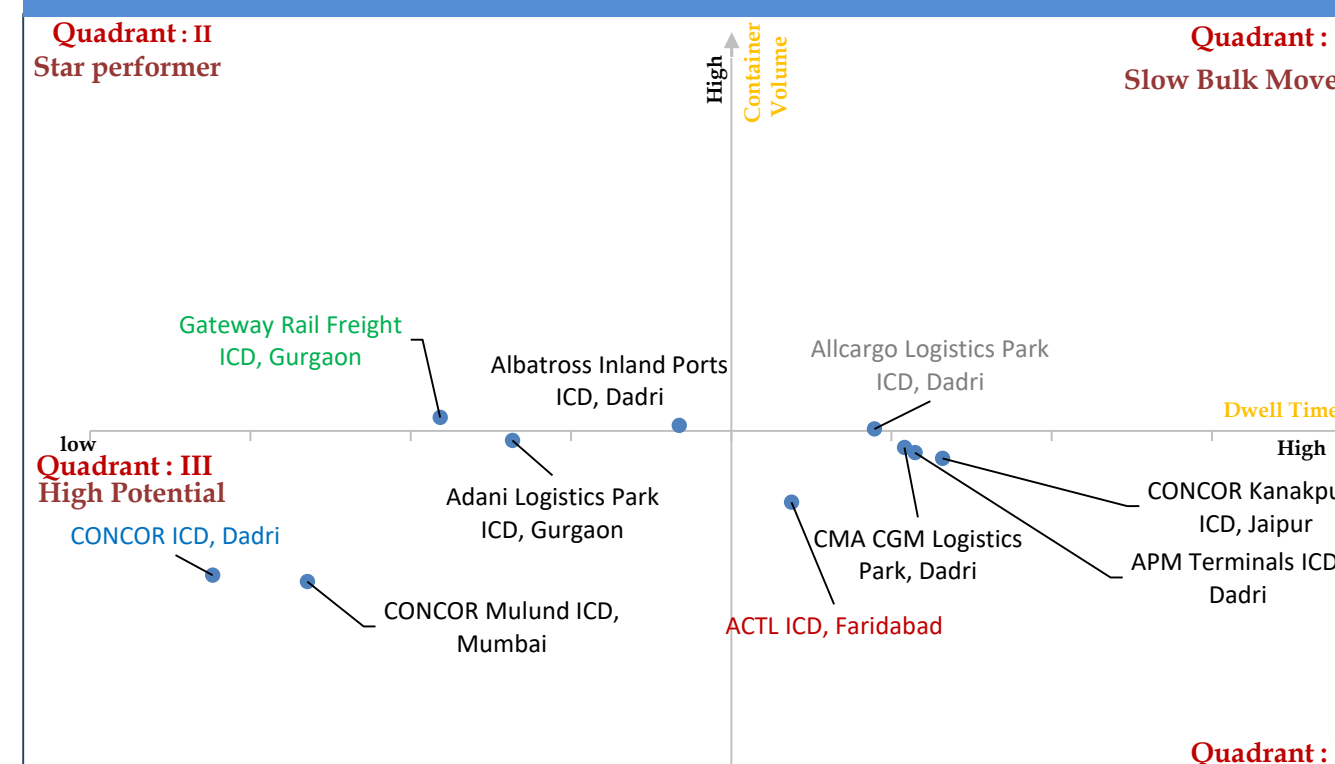
Low Performing ICD

ACTL ICD, Faridabad	
June'19	July'19
126.1 hrs	137.2 hrs ↓

Performance Index: Western Corridor CFS



Performance Index: ICD



Kindly refer to Annexure section for the names of CFS

Import Cycle Analysis

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

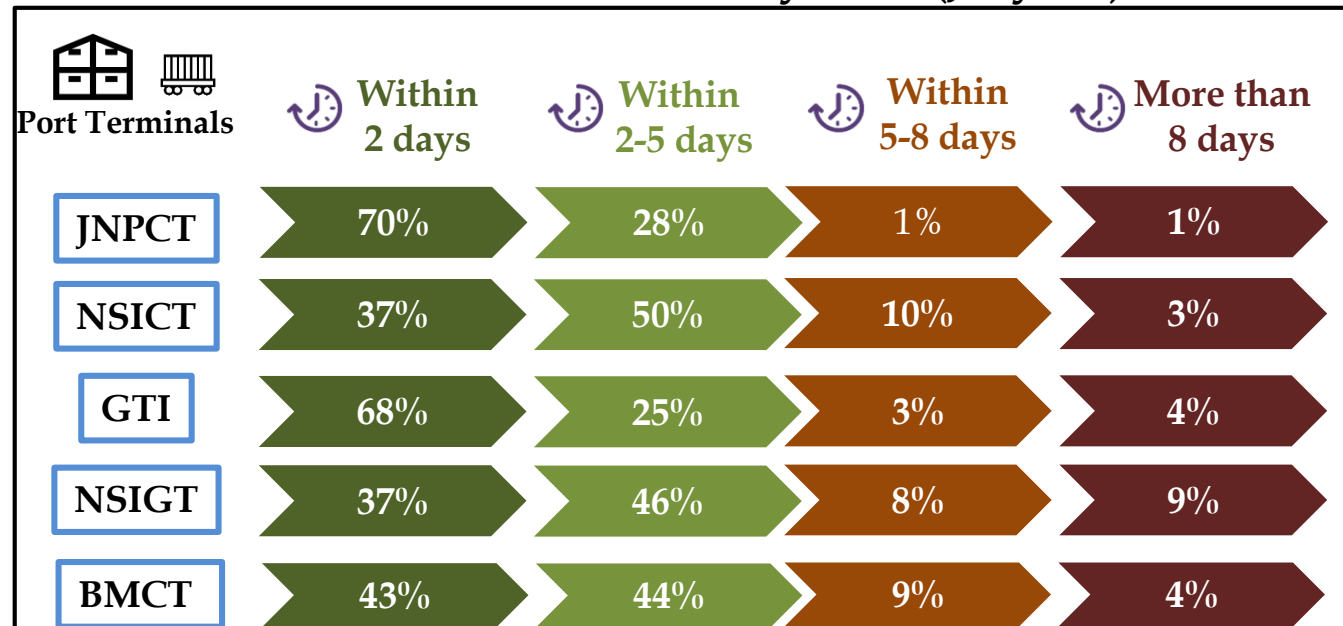
PORT IMPORT via TRAIN

(18% 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	June'19 (in hrs)	July'19 (in hrs)
JNPCT	30.0	34.0
NSICT	69.3	61.3
GTI	23.0	30.2
NSIGT	69.3	61.3
BMCT	36.6	52.9

Container Handled: Day wise (July'19)



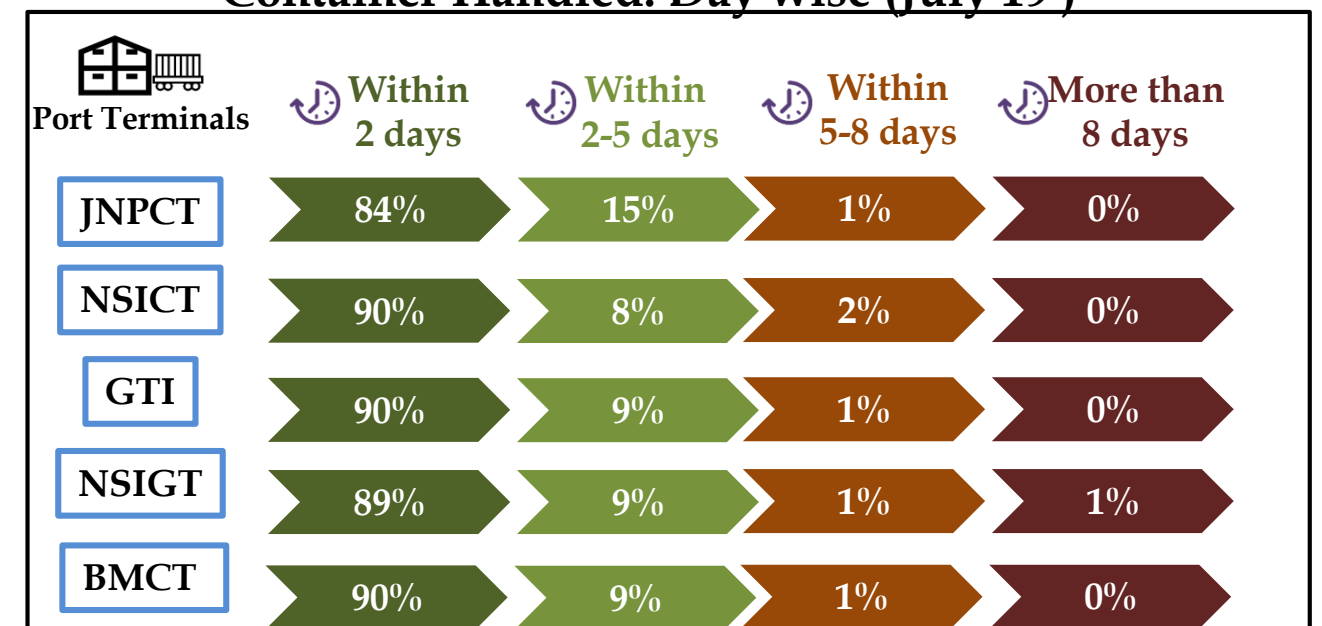
PORT IMPORT via TRUCK

(82% 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	June'19 (in hrs)	July'19 (in hrs)
JNPCT	20.8	23.8
NSICT	18.0	20.1
GTI	15.0	17.0
NSIGT	17.4	19.4
BMCT	18.6	19.8

Container Handled: Day wise (July'19)



The below tables depict the detailed JNPT region port performance in the month of July'19

JNPCT		
Port Dwell time based on transit type		
July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	31.6 hrs	24.5 hrs
Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	26.4 hrs	25.0 hrs

GTI		
Port Dwell time based on transit type		
July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	43.2 hrs	15.1 hrs
Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	17.5 hrs	27.4 hrs

The below tables depict the detailed JNPT region port performance in the month of July'19

NSICT		
Port Dwell time based on transit type		
July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	56.9 hrs	18.6 hrs

Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	23.4 hrs	24.4 hrs

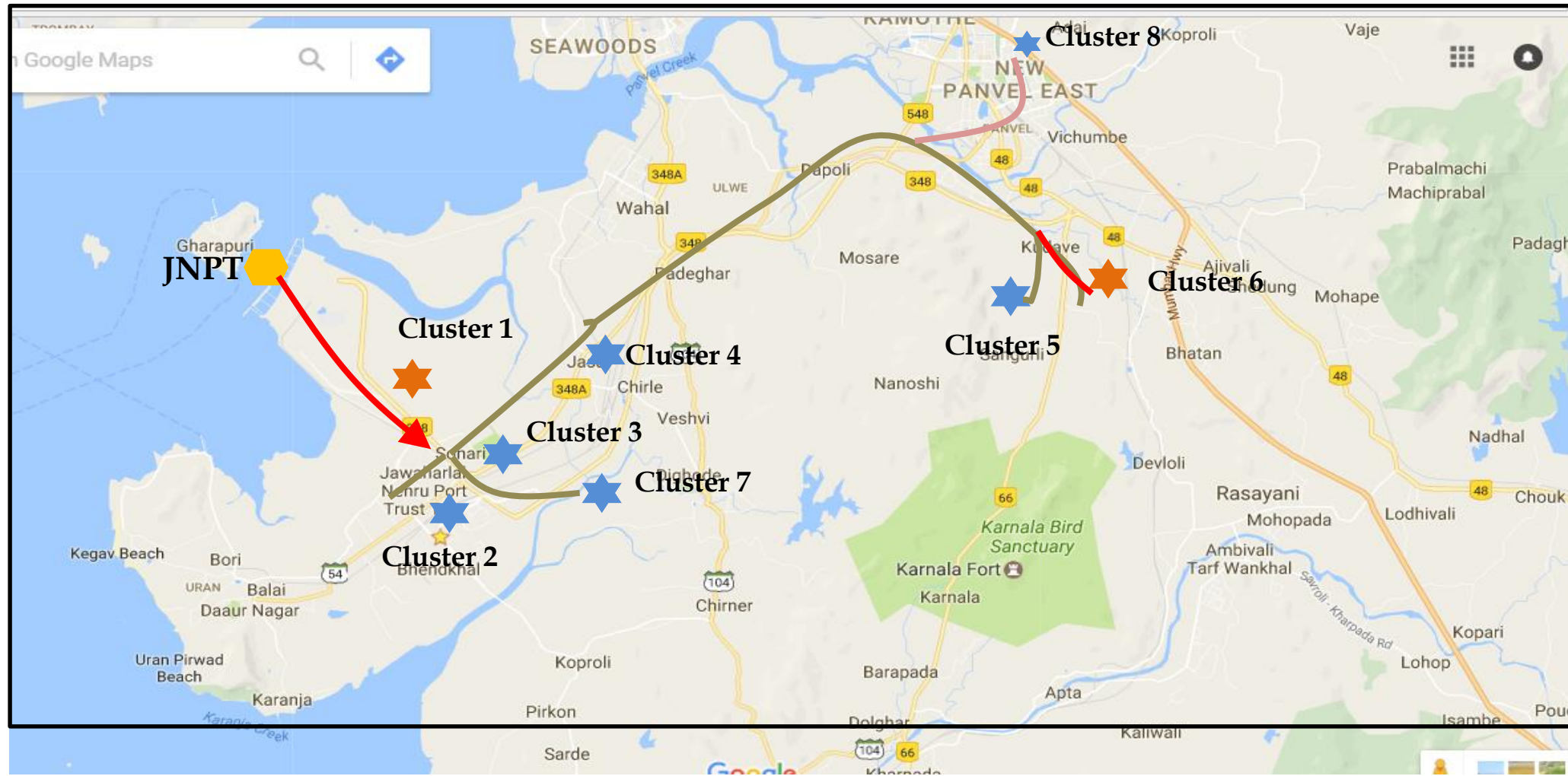
NSIGT		
Port Dwell time based on transit type		
July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	47.0 hrs	17.9 hrs

Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	22.4 hrs	42.4 hrs

BMCT		
Port Dwell time based on transit type		
July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	50.3 hrs	18.8 hrs

Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	21.4 hrs	29.9 hrs

The Below map indicate congestion around JNPT region in Import Cycle in month of July'19



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, Coachi kanyakumari Highway
CLUSTER 7	Patilpada area, Khopate JNPT road
CLUSTER 8	Taloja, Navi Mumbai

Clusters with bottleneck

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

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

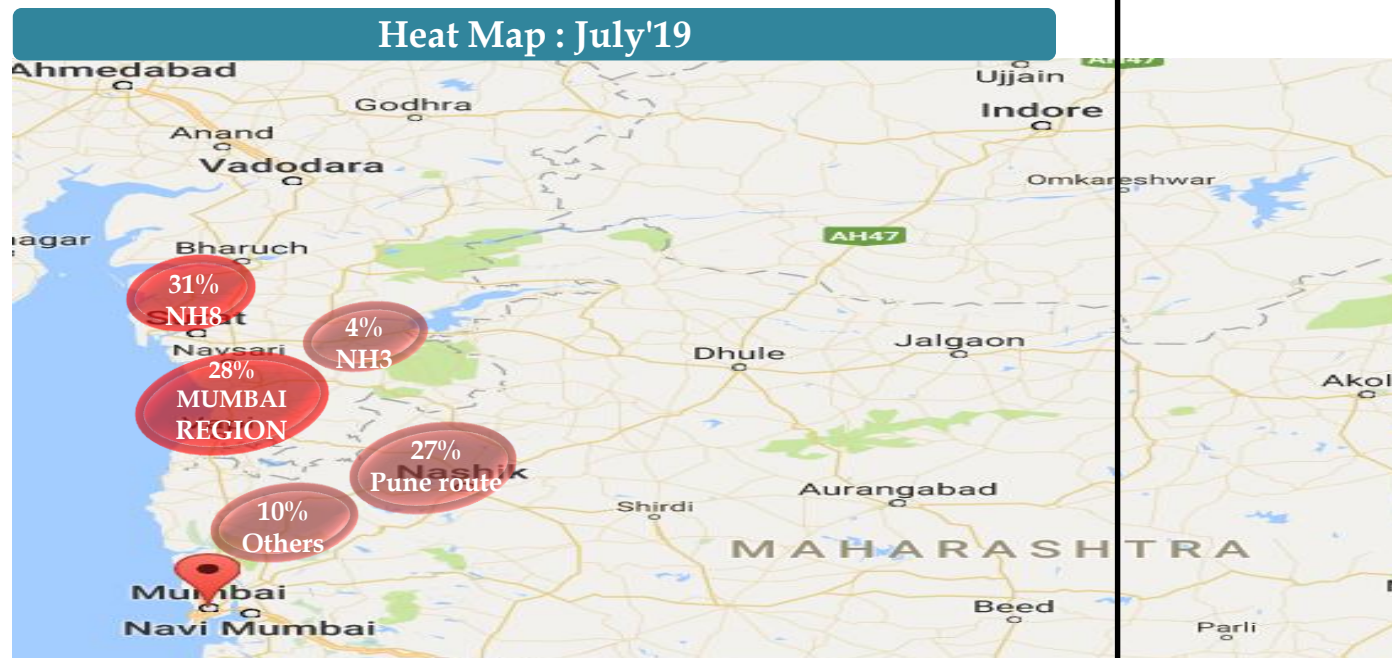
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	July'19
Mumbai region	28%
NH3	4%
Pune	27%
NH8	31%
others	10%

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

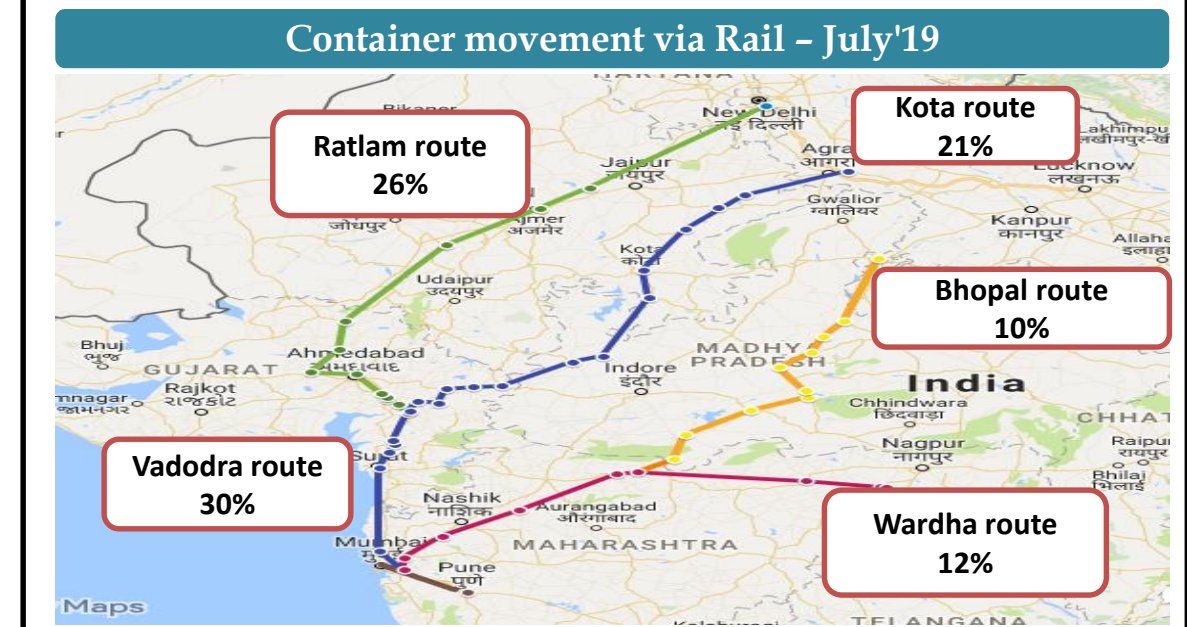


Train

VOLUME WISE CONTAINER MOVEMENT

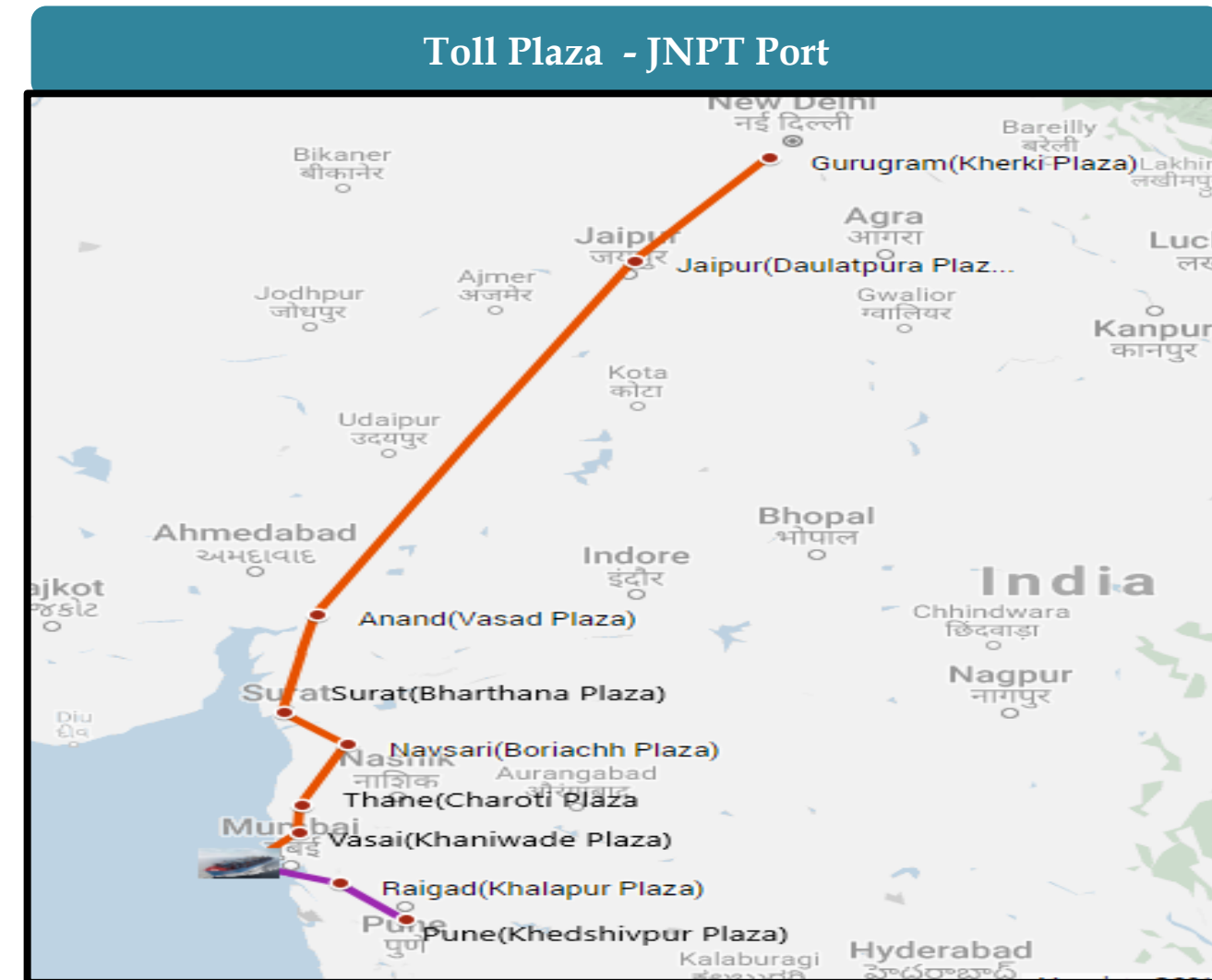
Region	July'19
Vadodra Route	31%
Ratlam Route	26%
Wardha Route	12%
Kota Route	21%
Bhopal Route	10%

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)	June'19 (in km/hrs)	July'19 (in km/hrs)
JNPT	JNPT	Khaniwade	94	15.6	14.9
	JNPT	Khalapur	60	13.0	10.9
	Khaniwade	Charoti	50	35.7	34.4
	Charoti	Boriach	126	27.5	26.7
	Boriach	Bharthan	142	32.3	33.0
	Bharthan	Vasad	60	39.7	40.5
	Khalapur	Khedshivpur	105	27.1	25.3
	Daulatpura	Kherki	199	22.5	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

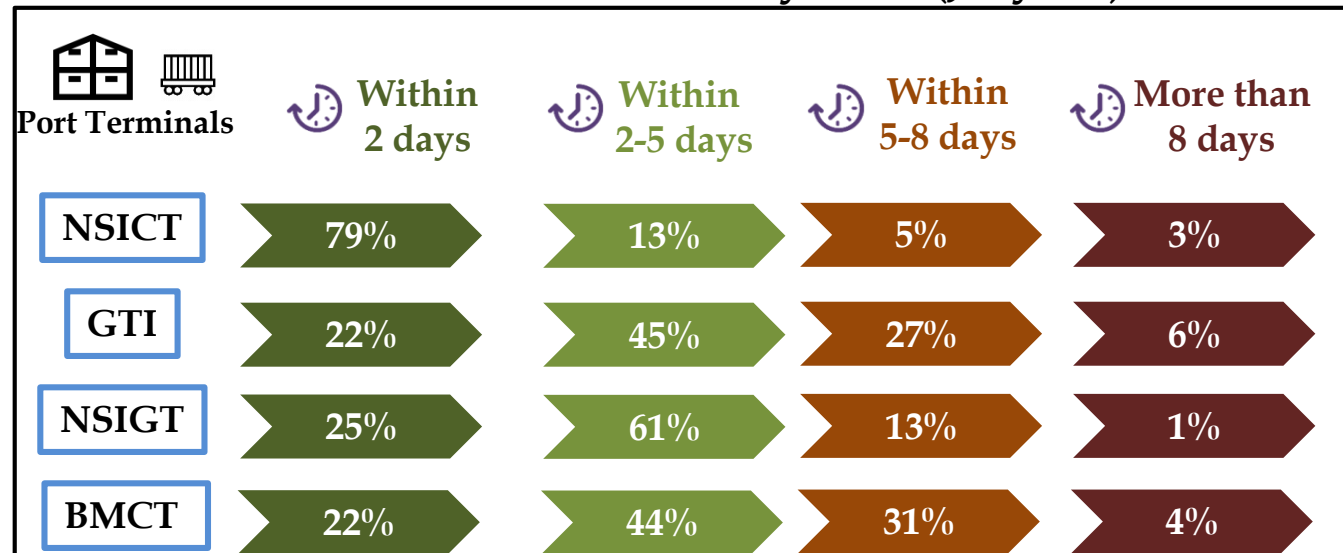
PORT EXPORT via TRAIN

(18% of total import 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	June'19 (in hrs)	July'19 (in hrs)
NSICT	18.3	14.6
GTI	73.9	91.2
NSIGT	104.1	72.6
BMCT	81.3	87.1

Container Handled: Day wise (July'19)



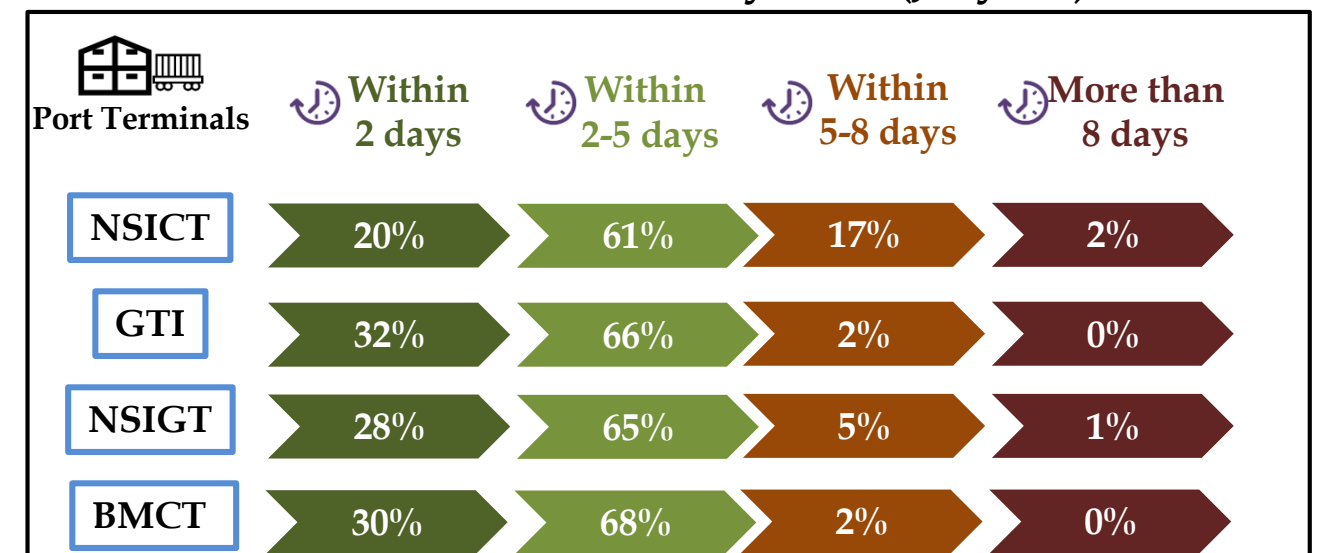
PORT EXPORT via TRUCK

(82% of total import 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	June'19 (in hrs)	July'19 (in hrs)
NSICT	74.8	82.8
GTI	62.1	62.3
NSIGT	70.1	67.9
BMCT	69.5	63.0

Container Handled: Day wise (July'19)



Disclaimer : Due to low volume count received in Export cycle for JNPCT Terminal, hence the analysis for the terminal is not included

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for July'19

GTI		
Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	63.6 hrs	57.3 hrs
Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	62.5 hrs	65.7 hrs

NSICT		
Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	79.1 hrs	72.8 hrs
Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	74.9 hrs	44.6 hrs

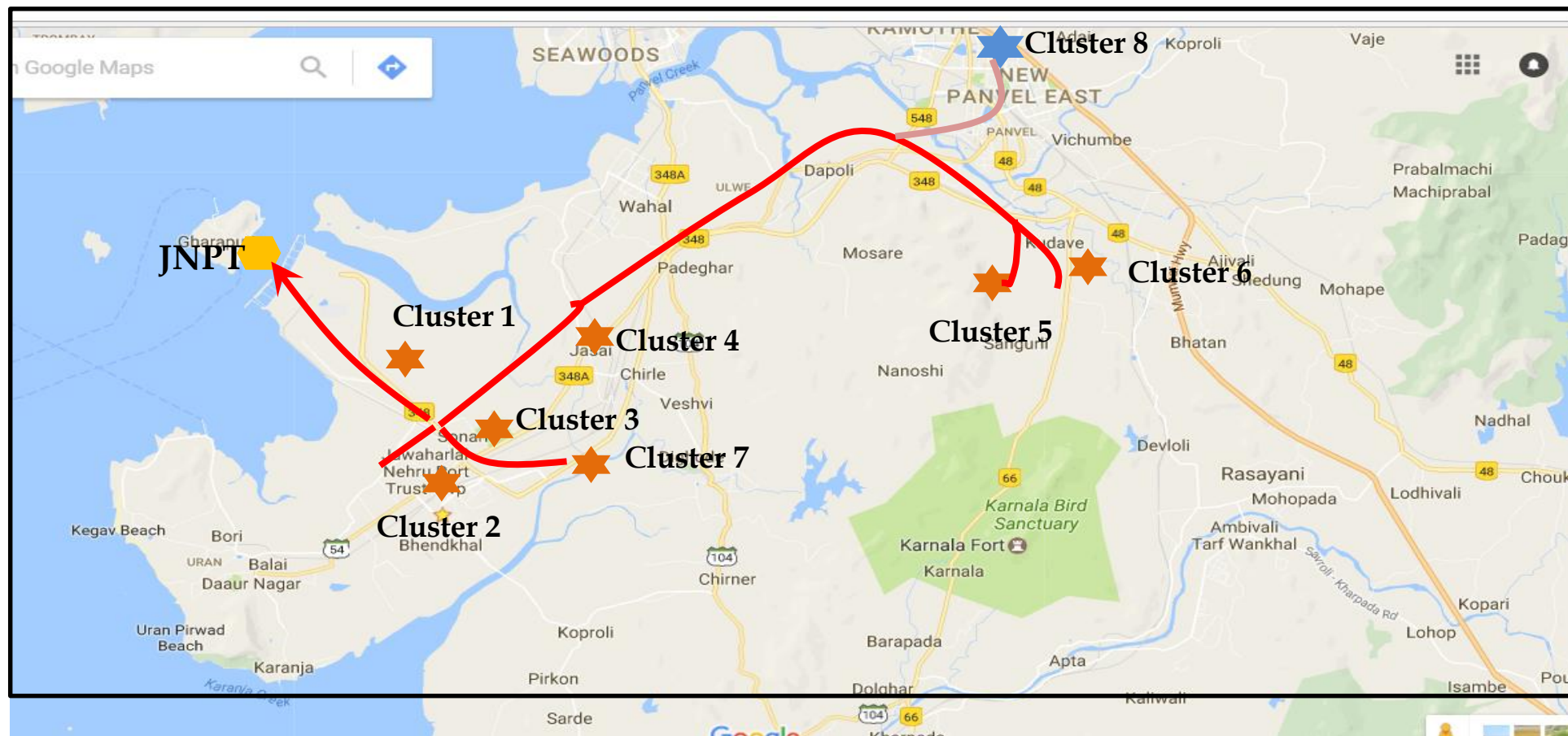
The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for July'19

NSIGT		
Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	76.7 hrs	62.1 hrs
Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	67.7 hrs	50.0 hrs

BMCT		
Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	-	55.6 hrs
Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	65.7 hrs	63.3 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of July'19



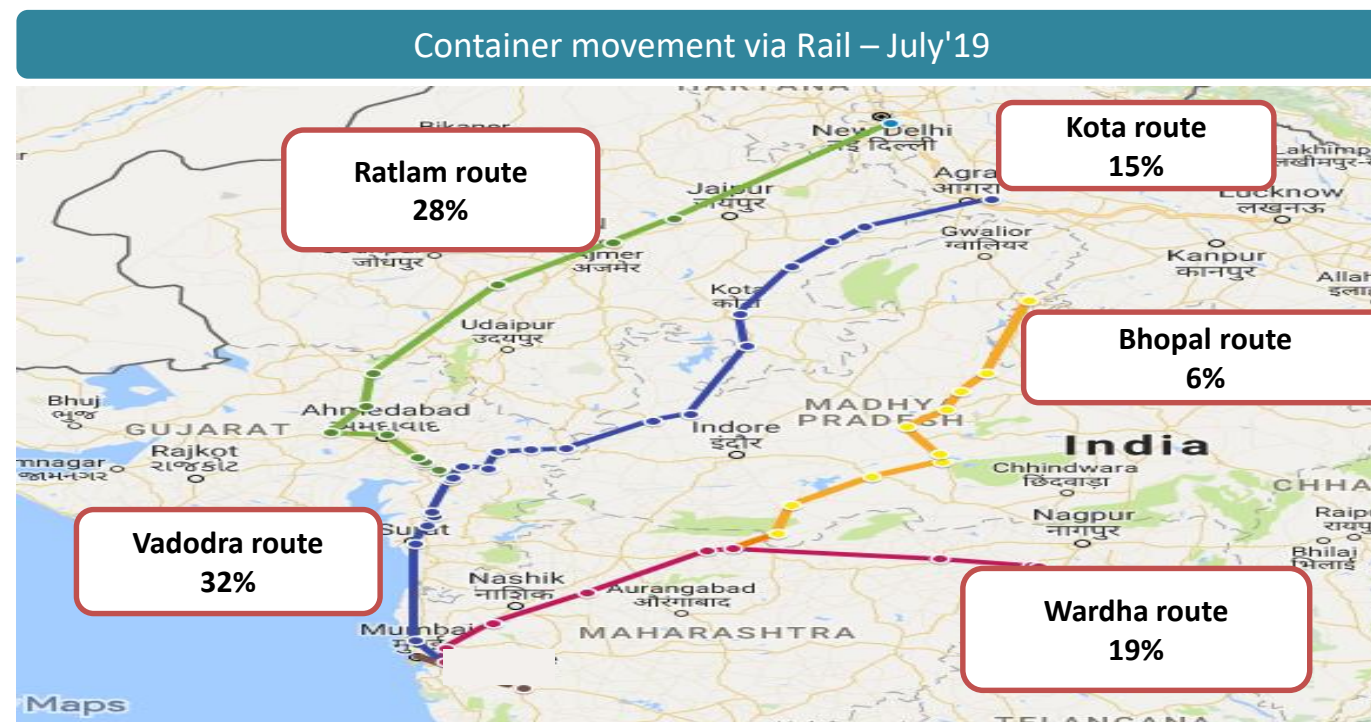
Clusters with bottleneck	
CLUSTER 1	JNPT Area
CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area, JNPT road
CLUSTER 4	Chirle area, JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road
Clusters without bottleneck	
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 :-
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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	32%
Ratlam Route	28%
Wardha Route	19%
Kota Route	15%
Bhopal Route	6%

The map shows the volume wise container movement through different railway routes in export cycle for July'19

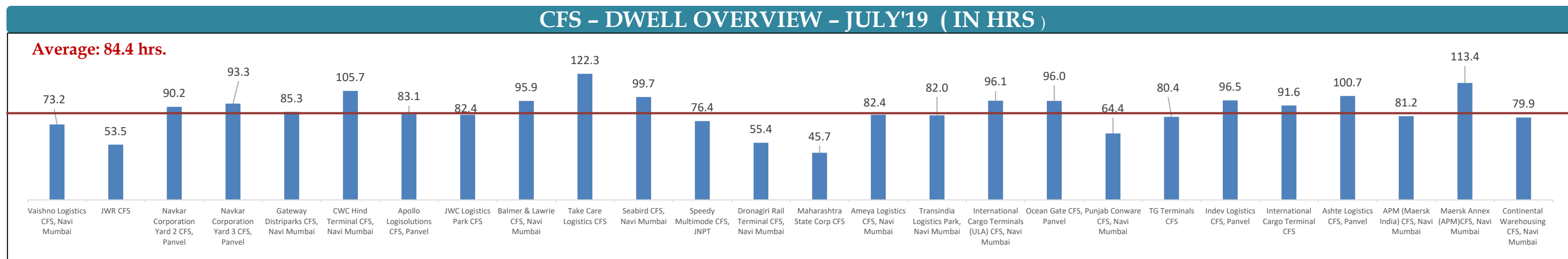


CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

Below table and graphs show the dwell time of the respective CFSs for the month of July'19

CFS Dwell Time (in hrs.)					
CFS	June'19	July'19	CFS	June'19	July'19
International Cargo Terminal CFS	90.0	91.6	Take Care Logistics CFS	120.0	122.3
JWC Logistics Park CFS	82.6	82.4	JWR CFS	53.6	53.5
CWC Hind Terminal CFS, Navi Mumbai	97.0	105.7	Navkar Corporation Yard 2 CFS, Panvel	96.5	90.2
Navkar Corporation Yard 3 CFS, Panvel	93.3	93.3	Punjab Conware CFS, Navi Mumbai	70.0	64.4
SBW Logistics CFS, Navi Mumbai	110.1	-	Indev Logistics CFS, Panvel	93.2	96.5
Seabird CFS, Navi Mumbai	99.5	99.7	Ameya Logistics CFS, Navi Mumbai	78.3	82.4
Dronagiri Rail Terminal CFS, Navi Mumbai	63.8	55.4	TG Terminals CFS	81.2	80.4
Ashte Logistics CFS, Panvel	99.2	100.7	APM (Maersk India) CFS, Navi Mumbai	89.6	81.2
Balmer & Lawrie CFS, Navi Mumbai	91.4	95.9	International Cargo Terminals (ULA) CFS, Navi Mumbai	89.8	96.1
Speedy Multimode CFS, JNPT	73.9	76.4	Maersk Annex (APM)CFS, Navi Mumbai	110.1	113.4
Transindia Logistics Park, Navi Mumbai	81.0	82.0	Ocean Gate CFS, Panvel	94.8	96.0
Gateway Distriparks CFS, Navi Mumbai	78.7	85.3	Navkar Corporation Yard 1 CFS, Panvel	90.1	-
Continental Warehousing CFS, Navi Mumbai	80.5	79.9	Maharashtra State Corp CFS	49.0	45.7
Apollo Logisolutions CFS, Panvel	82.8	83.1			
Vaishno Logistics CFS, Navi Mumbai	73.6	73.2			



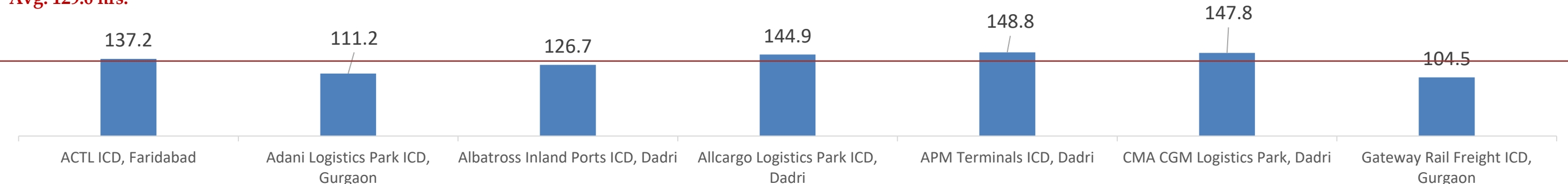
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	June'19 (in hrs)	July'19 (in hrs)
ACTL ICD, Faridabad	126.1	137.2
Adani Logistics Park ICD, Gurgaon	125.6	111.2
Albatross Inland Ports ICD, Dadri	115.4	126.7
Allcargo Logistics Park ICD, Dadri	165.4	144.9
APM Terminals ICD, Dadri	154.7	148.8
CMA CGM Logistics Park, Dadri	137.2	147.8
Gateway Rail Freight ICD, Gurgaon	97.2	104.5

ICD - DWELL OVERVIEW (July'19) (In Hrs)

Avg. 129.6 hrs.

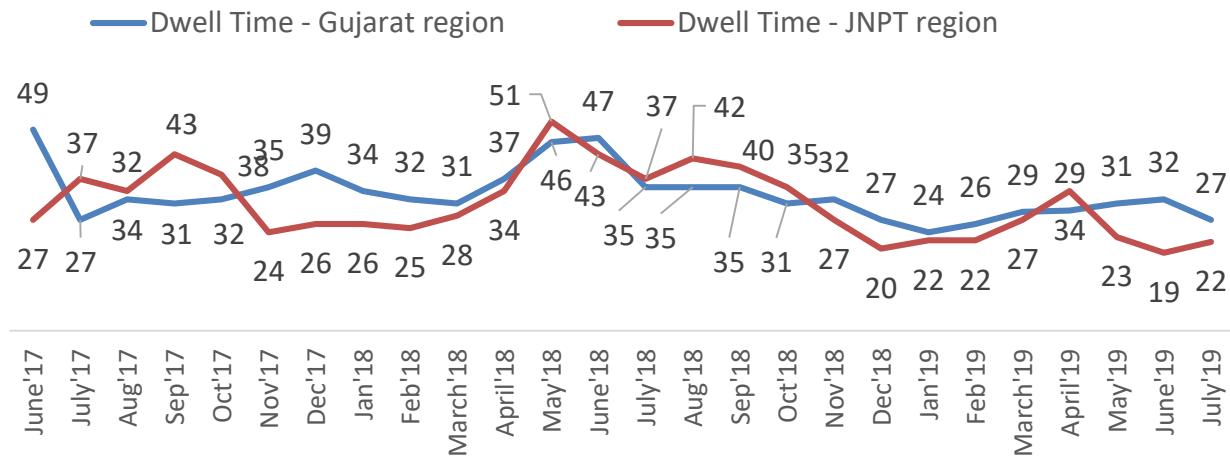


Trend Analysis

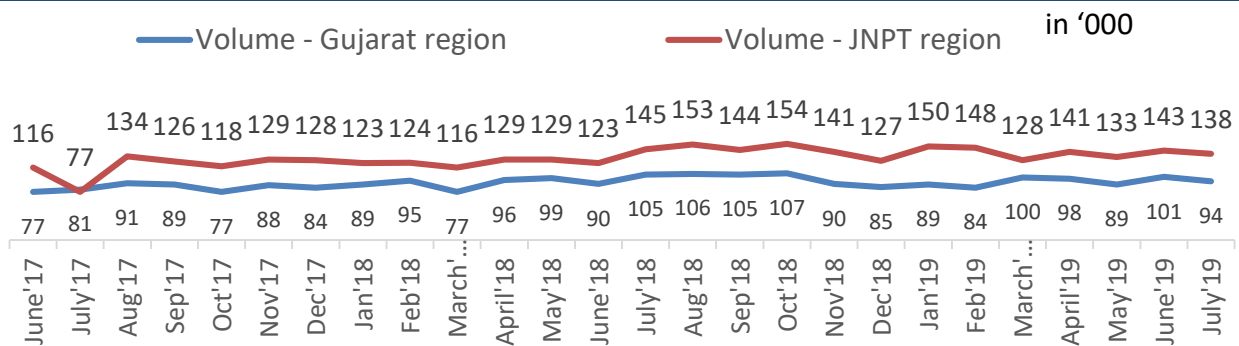
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until June'19

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



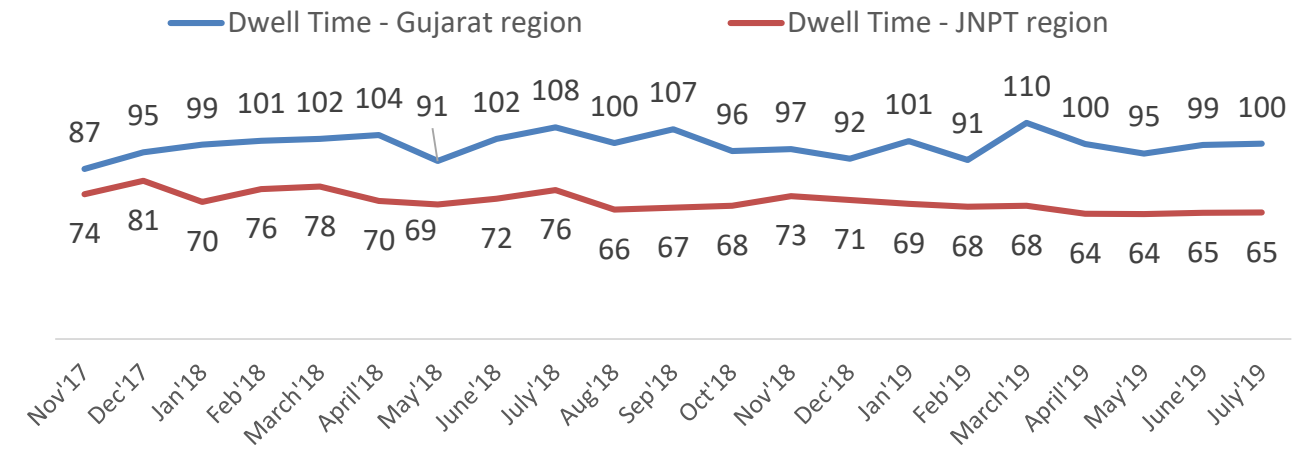
Volume – Gujarat Region Vs JNPT Region



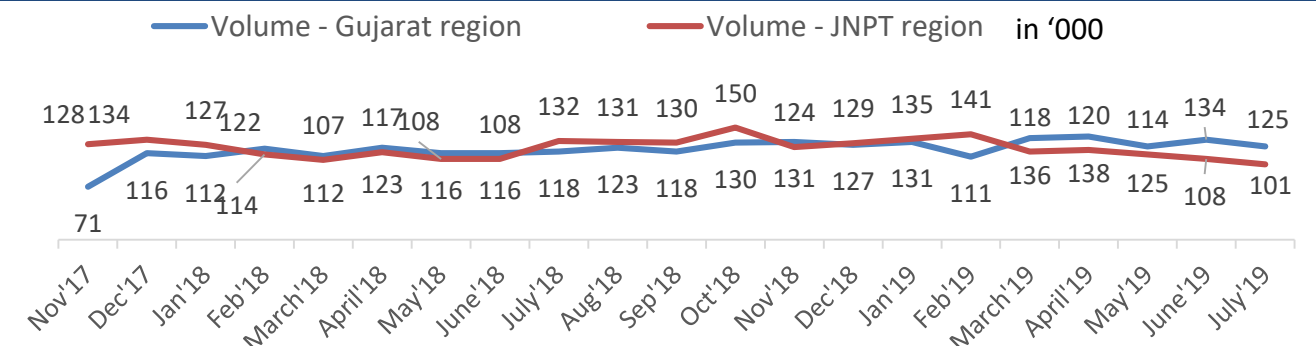
In Import cycle, for the month of July'19 JNPT port has catered 47% more volume than APSEZ Port, and has maintained 20% lower dwell time than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

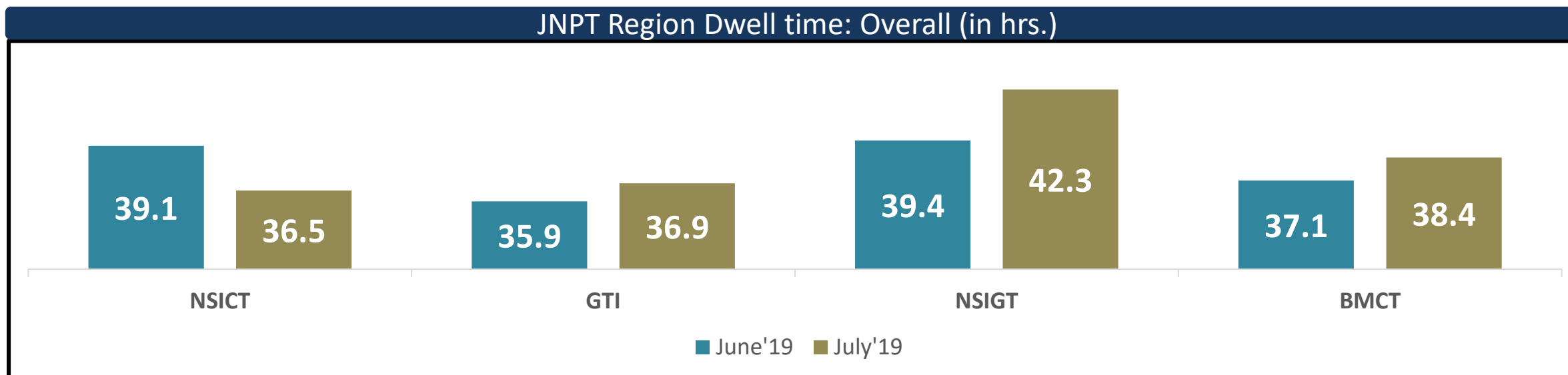


In Export cycle, for the month July'19 JNPT port catered 19% more volume than APSEZ Port, and has maintained 35% lower dwell time than APSEZ Port

JNPT PORT DWELL TIME TREND: Month on Month

JNPT port dwell time trend :

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

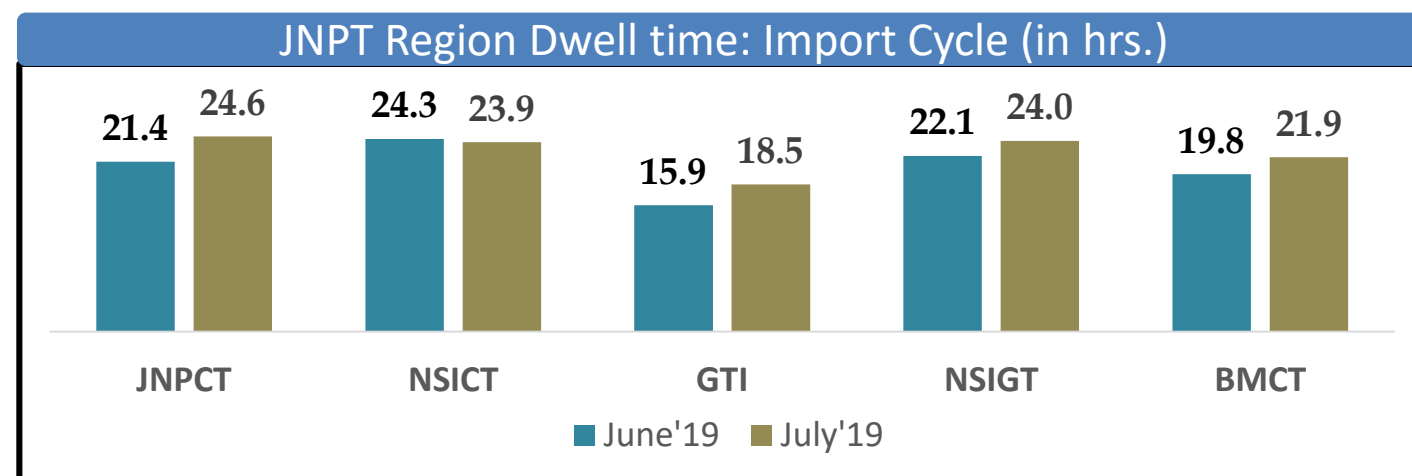


The overall JNPT region average dwell time for July'19 is 36.0 hrs as compared to 34.3 hrs in June'19

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

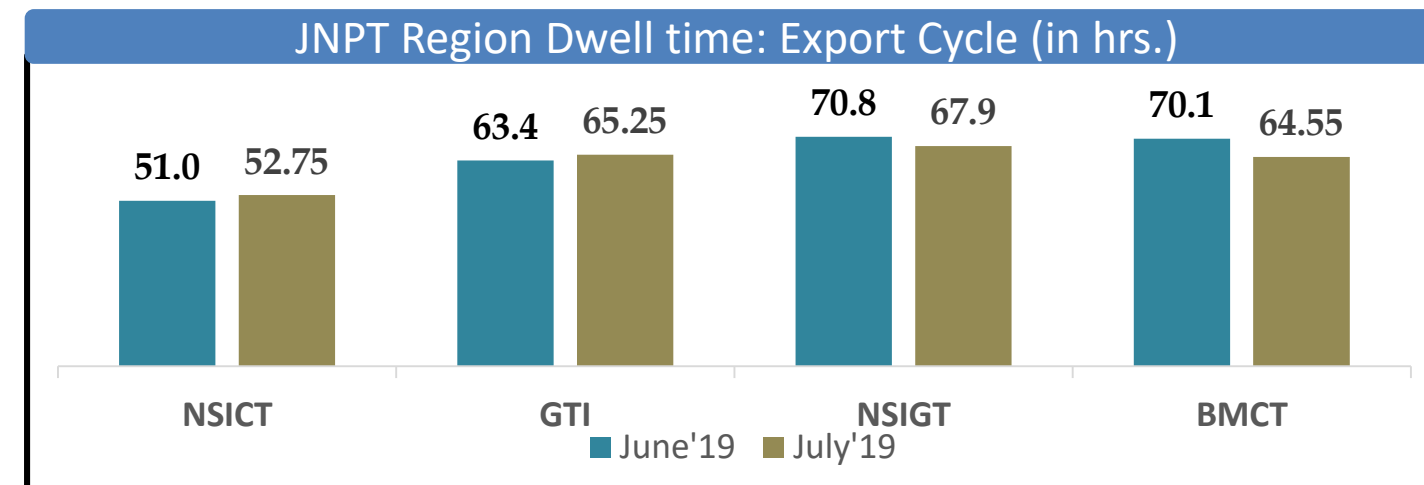
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for July'19 is 21.6 hrs.



JNPT Export cycle Trend

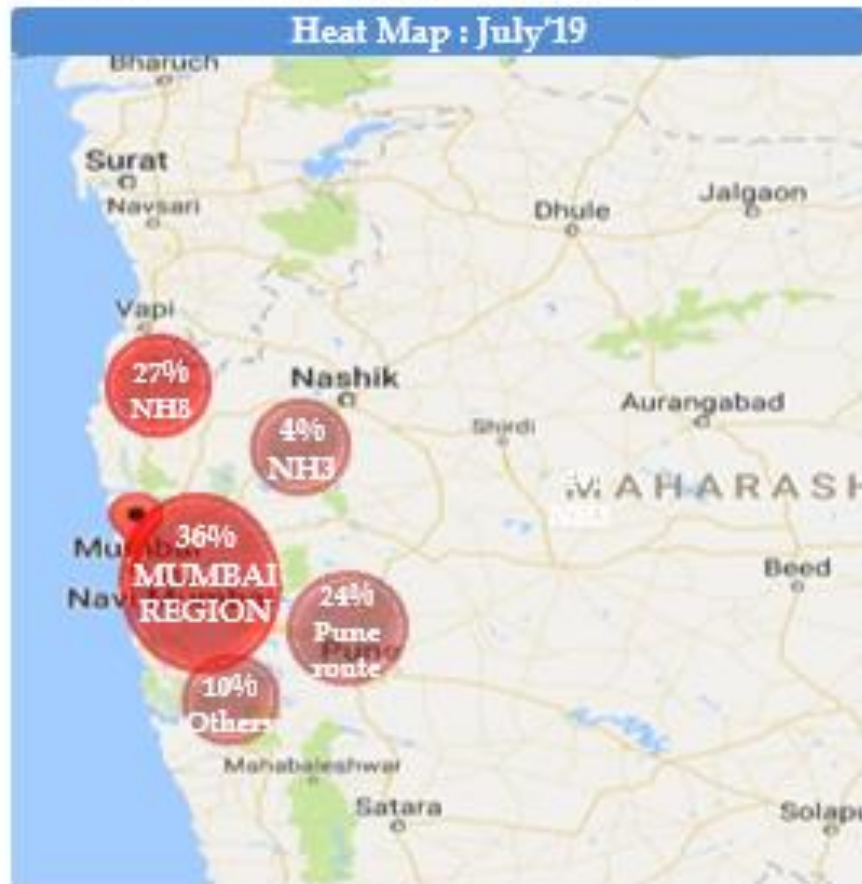
The average export cycle dwell time of JNPT region port terminals for July'19 is 64.7 hrs.



ANNEXURE

Container movement around JNPT Port terminal region via Truck

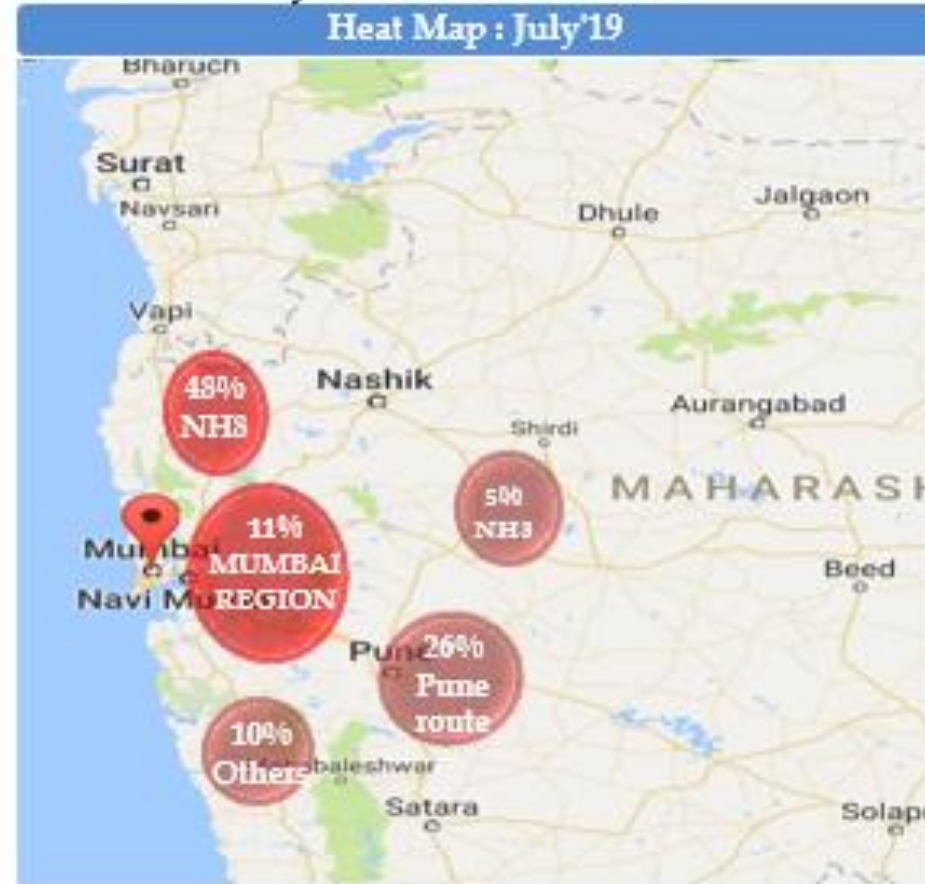
HEAT MAP : GTI Port Terminal



Region	June'19	July'19
Mumbai region	29%	36%
NH3	4%	4%
Pune	25%	24%
NH8	33%	27%
others	10%	10%

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

HEAT MAP : JNPT Port Terminal

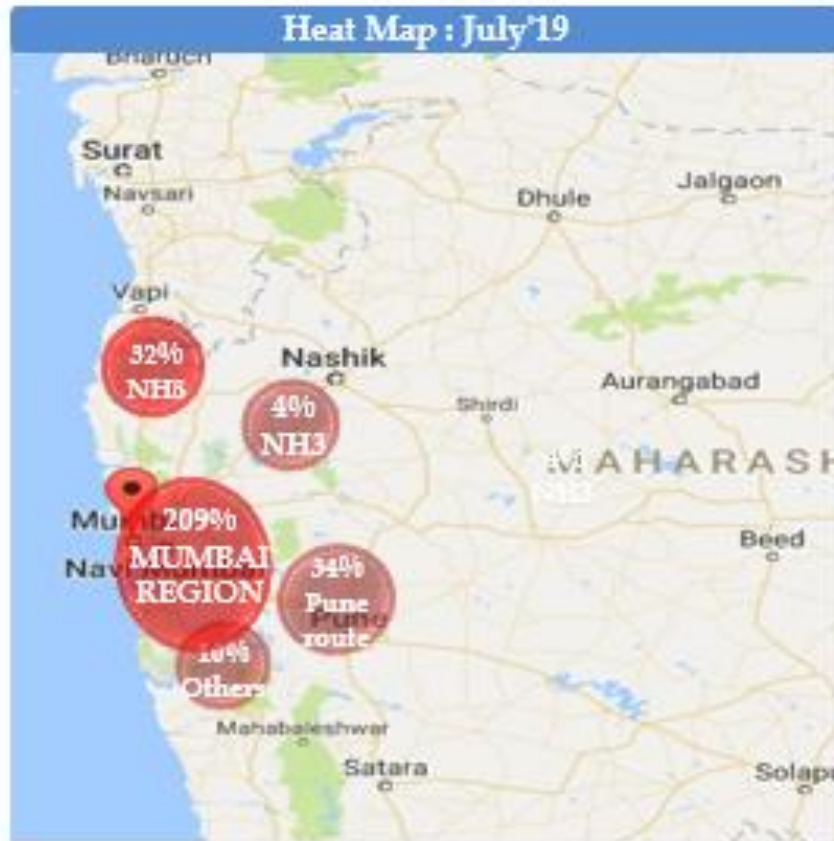


Region	June'19	July'19
Mumbai region	6%	11%
NH3	4%	5%
Pune	30%	26%
NH8	49%	48%
others	10%	10%

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

Container movement around JNPT Port terminal region via Truck

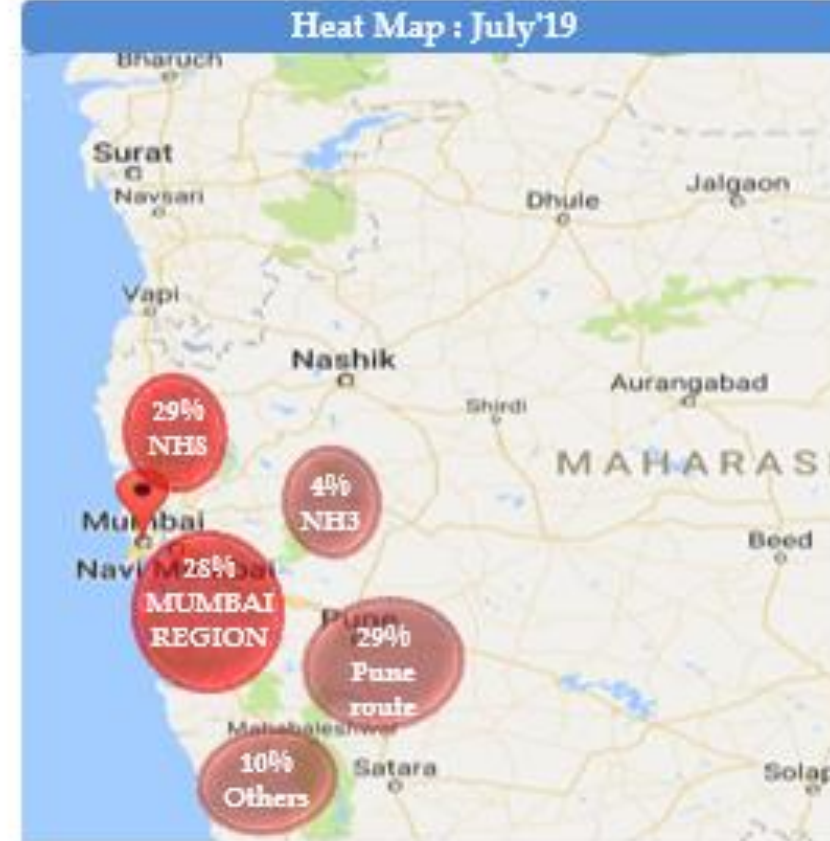
HEAT MAP : NSIGT Port Terminal



Region	June'19	July'19
Mumbai region	9%	20%
NH3	4%	4%
Pune	41%	34%
NH8	37%	32%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	June'19	July'19
Mumbai region	21%	28%
NH3	4%	4%
Pune	31%	29%
NH8	35%	29%
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 July'19					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Speedy Multimode CFS, JNPT	4.4	3.6	1.7	2.7	1.9
Dronagiri Rail Terminal CFS, Navi Mumbai	4.1	3.7	2.3	2.9	2.6
Maharashtra State Corp CFS	5.6	3.8	2.2	2.7	2.5
JWR CFS	-	-	-	-	-
Navkar Corporation Yard 3 CFS, Panvel	14.3	10.3	4.9	7.6	6.2
International Cargo Terminal CFS	4.9	6.5	2.3	3.1	2.8
CWC Hind Terminal CFS, Navi Mumbai	10.5	5.5	3.8	3.7	2.5
Navkar Corporation Yard 2 CFS, Panvel	14.9	9.3	7.7	8.1	12.7
Punjab Conware CFS, Navi Mumbai	7.5	4.2	1.7	2.6	1.7
JWC Logistics Park CFS	6.9	5.6	3.0	3.9	3.5
TG Terminals CFS	-	-	-	-	-
Apollo Logisolutions CFS, Panvel	9.0	6.4	3.9	4.2	4.8
Vaishno Logistics CFS, Navi Mumbai	7.2	3.8	2.7	4.7	1.5
Gateway Distriparks CFS, Navi Mumbai	8.0	4.3	2.3	5.4	3.0
Transindia Logistics Park, Navi Mumbai	4.3	4.5	2.3	3.3	3.7
Ashte Logistics CFS, Panvel	8.6	5.1	4.7	4.7	4.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	7.0	5.1	3.1	2.6	2.3
All Cargo Logistics CFS, Navi Mumbai	-	-	-	-	5.7
Ocean Gate CFS, Panvel	7.7	6.3	4.9	3.3	4.8
Ameya Logistics CFS, Navi Mumbai	6.7	5.4	3.8	5.1	6.3
APM (Maersk India) CFS, Navi Mumbai	3.7	3.7	2.4	3.4	2.4
Seabird CFS, Navi Mumbai	5.1	5.6	1.9	3.7	2.6
Continental Warehousing CFS, Navi Mumbai	16.0	4.3	2.4	3.7	2.4
Indev Logistics CFS, Panvel	10.2	6.3	2.1	4.6	3.2
SBW Logistics CFS, Navi Mumbai	-	6.5	-	3.5	4.2
Balmer & Lawrie CFS, Navi Mumbai	9.2	7.2	3.3	6.9	2.5
CWC Dronagiri CFS, Navi Mumbai	3.6	3.5	11.2	3.0	1.6
Navkar Corporation Yard 1 CFS, Panvel	-	-	-	-	-

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	July'19 (in hrs)
Speedy Multimode CFS, JNPT	2.2
Dronagiri Rail Terminal CFS, Navi Mumbai	2.7
Maharashtra State Corp CFS	4.3
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	4.6
International Cargo Terminal CFS	3.1
CWC Hind Terminal CFS, Navi Mumbai	2.4
Navkar Corporation Yard 2 CFS, Panvel	5.1
Punjab Conware CFS, Navi Mumbai	3.0
JWC Logistics Park CFS	4.2
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	6.1
Vaishno Logistics CFS, Navi Mumbai	2.9
Gateway Distriparks CFS, Navi Mumbai	3.4
Transindia Logistics Park, Navi Mumbai	3.5
Ashte Logistics CFS, Panvel	5.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.9
All Cargo Logistics CFS, Navi Mumbai	4.1
Ocean Gate CFS, Panvel	5.1
Ameya Logistics CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.6
Seabird CFS, Navi Mumbai	2.8
Continental Warehousing CFS, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	5.9
SBW Logistics CFS, Navi Mumbai	4.6
Balmer & Lawrie CFS, Navi Mumbai	3.1
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	6.3

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	July'19 (in hrs)
Speedy Multimode CFS, JNPT	1.6
Dronagiri Rail Terminal CFS, Navi Mumbai	1.8
Maharashtra State Corp CFS	1.7
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	4.5
International Cargo Terminal CFS	3.2
CWC Hind Terminal CFS, Navi Mumbai	2.1
Navkar Corporation Yard 2 CFS, Panvel	5.1
Punjab Conware CFS, Navi Mumbai	2.6
JWC Logistics Park CFS	3.5
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	6.0
Vaishno Logistics CFS, Navi Mumbai	2.9
Gateway Distriparks CFS, Navi Mumbai	3.4
Transindia Logistics Park, Navi Mumbai	3.3
Ashte Logistics CFS, Panvel	4.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.6
All Cargo Logistics CFS, Navi Mumbai	3.3
Ocean Gate CFS, Panvel	4.9
Ameya Logistics CFS, Navi Mumbai	2.8
APM (Maersk India) CFS, Navi Mumbai	2.5
Seabird CFS, Navi Mumbai	2.8
Continental Warehousing CFS, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	5.7
SBW Logistics CFS, Navi Mumbai	4.6
Balmer & Lawrie CFS, Navi Mumbai	3.2
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	5.8

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	July'19 (in hrs)
Speedy Multimode CFS, JNPT	1.7
Dronagiri Rail Terminal CFS, Navi Mumbai	2.5
Maharashtra State Corp CFS	-
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	4.4
International Cargo Terminal CFS	3.3
CWC Hind Terminal CFS, Navi Mumbai	2.3
Navkar Corporation Yard 2 CFS, Panvel	5.2
Punjab Conware CFS, Navi Mumbai	2.4
JWC Logistics Park CFS	3.8
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	8.2
Vaishno Logistics CFS, Navi Mumbai	2.4
Gateway Distriparks CFS, Navi Mumbai	3.3
Transindia Logistics Park, Navi Mumbai	3.5
Ashte Logistics CFS, Panvel	5.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.3
All Cargo Logistics CFS, Navi Mumbai	4.5
Ocean Gate CFS, Panvel	4.7
Ameya Logistics CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.3
Seabird CFS, Navi Mumbai	3.2
Continental Warehousing CFS, Navi Mumbai	1.8
Indev Logistics CFS, Panvel	5.6
SBW Logistics CFS, Navi Mumbai	7.0
Balmer & Lawrie CFS, Navi Mumbai	2.9
CWC Dronagiri CFS, Navi Mumbai	31.2
Navkar Corporation Yard 1 CFS, Panvel	4.9

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

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

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

CFS	July'19 (in hrs)
Speedy Multimode CFS, JNPT	1.8
Dronagiri Rail Terminal CFS, Navi Mumbai	1.8
Maharashtra State Corp CFS	8.2
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	4.1
International Cargo Terminal CFS	2.8
CWC Hind Terminal CFS, Navi Mumbai	2.0
Navkar Corporation Yard 2 CFS, Panvel	4.5
Punjab Conware CFS, Navi Mumbai	2.7
JWC Logistics Park CFS	3.7
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	4.9
Vaishno Logistics CFS, Navi Mumbai	2.7
Gateway Distriparks CFS, Navi Mumbai	3.0
Transindia Logistics Park, Navi Mumbai	3.4
Ashte Logistics CFS, Panvel	5.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.9
All Cargo Logistics CFS, Navi Mumbai	22.5
Ocean Gate CFS, Panvel	4.2
Ameya Logistics CFS, Navi Mumbai	2.9
APM (Maersk India) CFS, Navi Mumbai	2.2
Seabird CFS, Navi Mumbai	3.0
Continental Warehousing CFS, Navi Mumbai	1.6
Indev Logistics CFS, Panvel	8.4
SBW Logistics CFS, Navi Mumbai	5.1
Balmer & Lawrie CFS, Navi Mumbai	3.0
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	5.0

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

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

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

CFS	July'19 (in hrs)
Speedy Multimode CFS, JNPT	1.7
Dronagiri Rail Terminal CFS, Navi Mumbai	2.6
Maharashtra State Corp CFS	4.0
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	4.6
International Cargo Terminal CFS	3.7
CWC Hind Terminal CFS, Navi Mumbai	2.5
Navkar Corporation Yard 2 CFS, Panvel	5.3
Punjab Conware CFS, Navi Mumbai	2.7
JWC Logistics Park CFS	3.9
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	5.2
Vaishno Logistics CFS, Navi Mumbai	1.7
Gateway Distriparks CFS, Navi Mumbai	3.7
Transindia Logistics Park, Navi Mumbai	3.5
Ashte Logistics CFS, Panvel	5.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.1
All Cargo Logistics CFS, Navi Mumbai	7.9
Ocean Gate CFS, Panvel	4.2
Ameya Logistics CFS, Navi Mumbai	2.9
APM (Maersk India) CFS, Navi Mumbai	2.5
Seabird CFS, Navi Mumbai	3.0
Continental Warehousing CFS, Navi Mumbai	1.7
Indev Logistics CFS, Panvel	4.5
SBW Logistics CFS, Navi Mumbai	4.8
Balmer & Lawrie CFS, Navi Mumbai	2.8
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	5.1

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 July'19				
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	3.6
Cluster 2	6	13	3.0	5.3
Cluster 3	6	11	2.9	3.8
Cluster 4	1	13	2.9	1.9
Cluster 5	2	25	4.6	5.9
Cluster 6	6	25	5.5	6.4
Cluster 7	4	12	3.3	4.4
Cluster 8	1	34	4.6	6.5

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of July'19				
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	4.4
Cluster 2	6	13	2.9	7.5
Cluster 3	6	11	2.2	5.1
Cluster 4	1	13	2.9	3.6
Cluster 5	2	25	4.2	7.3
Cluster 6	6	25	5.4	9.6
Cluster 7	4	12	3.0	5.5
Cluster 8	1	34	4.6	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 GTI and JNPCT terminal

CFS Cluster : NSICT Terminal

GTI terminal for month of July'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	1.7
Cluster 2	6	13	3.1	2.8
Cluster 3	6	11	2.8	2.2
Cluster 4	1	13	2.4	1.4
Cluster 5	2	25	4.3	3.9
Cluster 6	6	25	5.4	4.3
Cluster 7	4	12	3.3	2.4
Cluster 8	1	34	7.0	0.0






CFS Cluster : NSIGT Terminal

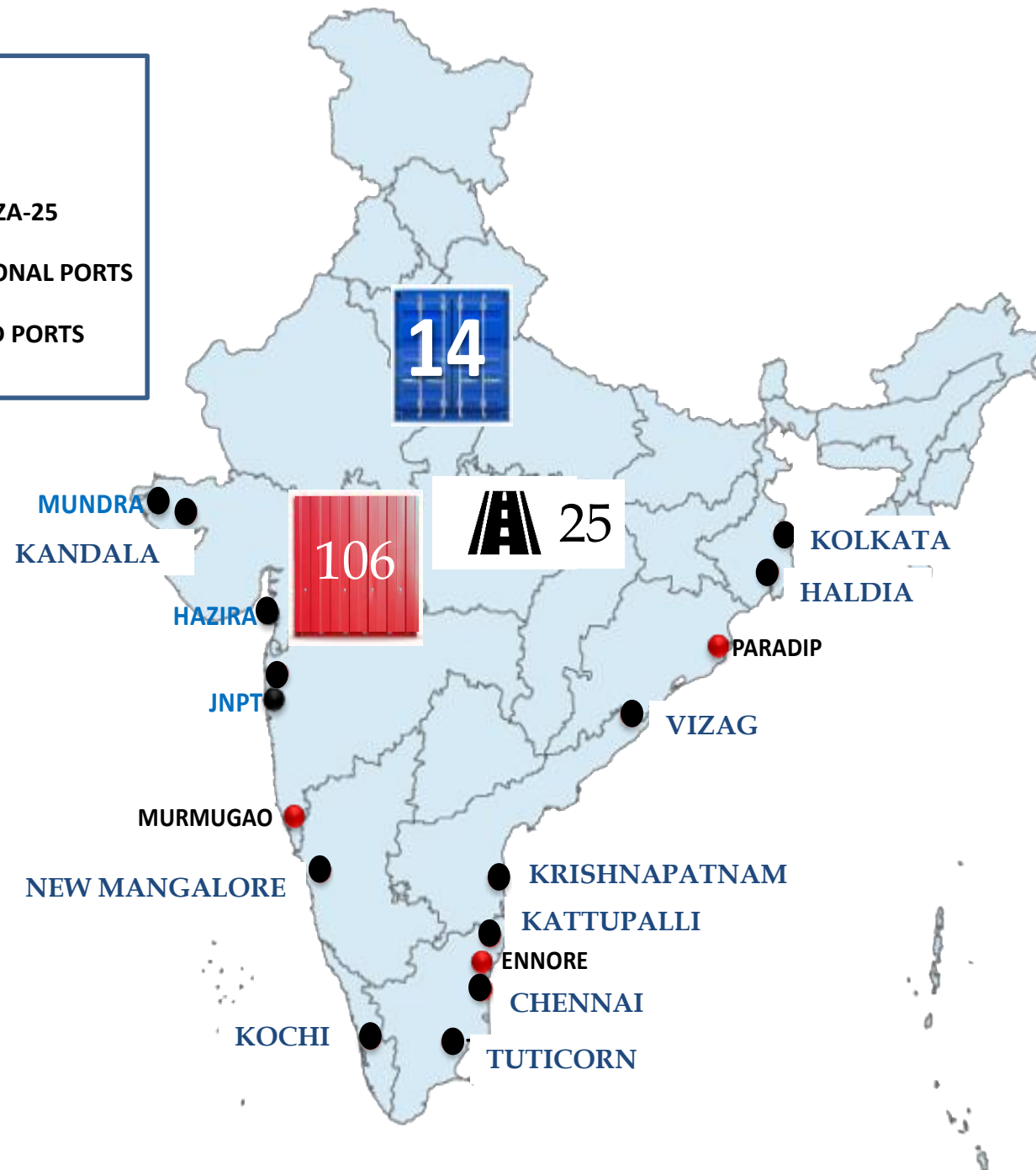
JNPCT terminal for month of July'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.8	2.7
Cluster 2	6	13	2.8	3.5
Cluster 3	6	11	2.8	2.9
Cluster 4	1	13	2.7	2.3
Cluster 5	2	25	3.9	3.6
Cluster 6	6	25	5.0	4.7
Cluster 7	4	12	3.1	3.5
Cluster 8	1	34	5.1	3.5

CFS Cluster : BMCT Terminal

JNPCT terminal for month of July'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	1.9
Cluster 2	6	13	3.0	2.5
Cluster 3	6	11	2.8	2.5
Cluster 4	1	13	3.7	0.7
Cluster 5	2	25	4.0	4.2
Cluster 6	6	25	5.2	4.7
Cluster 7	4	12	3.2	4.7
Cluster 8	1	34	4.8	4.2

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	21	Seabird CFS, Navi Mumbai
2	APM (Maersk India) CFS, Navi Mumbai	22	Speedy Multimode CFS, JNPT
3	Apollo Logisolutions CFS, Panvel	23	Take Care Logistics CFS
4	Ashte Logistics CFS, Panvel	24	TG Terminals CFS
5	Balmer & Lawrie CFS, Navi Mumbai	25	Transindia Logistics Park, Navi Mumbai
6	Continental Warehousing CFS, Navi Mumbai	26	Vaishno Logistics CFS, Navi Mumbai
7	CWC Hind Terminal CFS, Navi Mumbai	27	Adani CFS Eximyard, Mundra
8	Dronagiri Rail Terminal CFS, Navi Mumbai	28	Adani CFS, Hazira
9	Gateway Distriparks CFS, Navi Mumbai	29	AllCargo CFS, Mundra
10	Indev Logistics CFS, Panvel	30	Ashutosh CFS, Mundra
11	International Cargo Terminal CFS	31	Hind Mundra Terminals CFS, Mundra
12	International Cargo Terminals (ULA) CFS, Navi Mumbai	32	Hind Terminal CFS, Hazira
13	JWC Logistics Park CFS	33	Honey Comb CFS, Mundra
14	JWR CFS	34	MICT CFS, Mundra
15	Maersk Annex (APM)CFS, Navi Mumbai	35	Mundhra CFS, Mundra
16	Maharashtra State Corp CFS	36	Saurashtra CFS, Mundra
17	Navkar Corporation Yard 2 CFS, Panvel	37	Seabird CFS, Hazira
18	Navkar Corporation Yard 3 CFS, Panvel	38	Seabird CFS, Mundra
19	Ocean Gate CFS, Panvel	39	TG Terminals CFS, Mundra
20	Punjab Conware CFS, Navi Mumbai	40	Transworld CFS, Mundra



THANK YOU