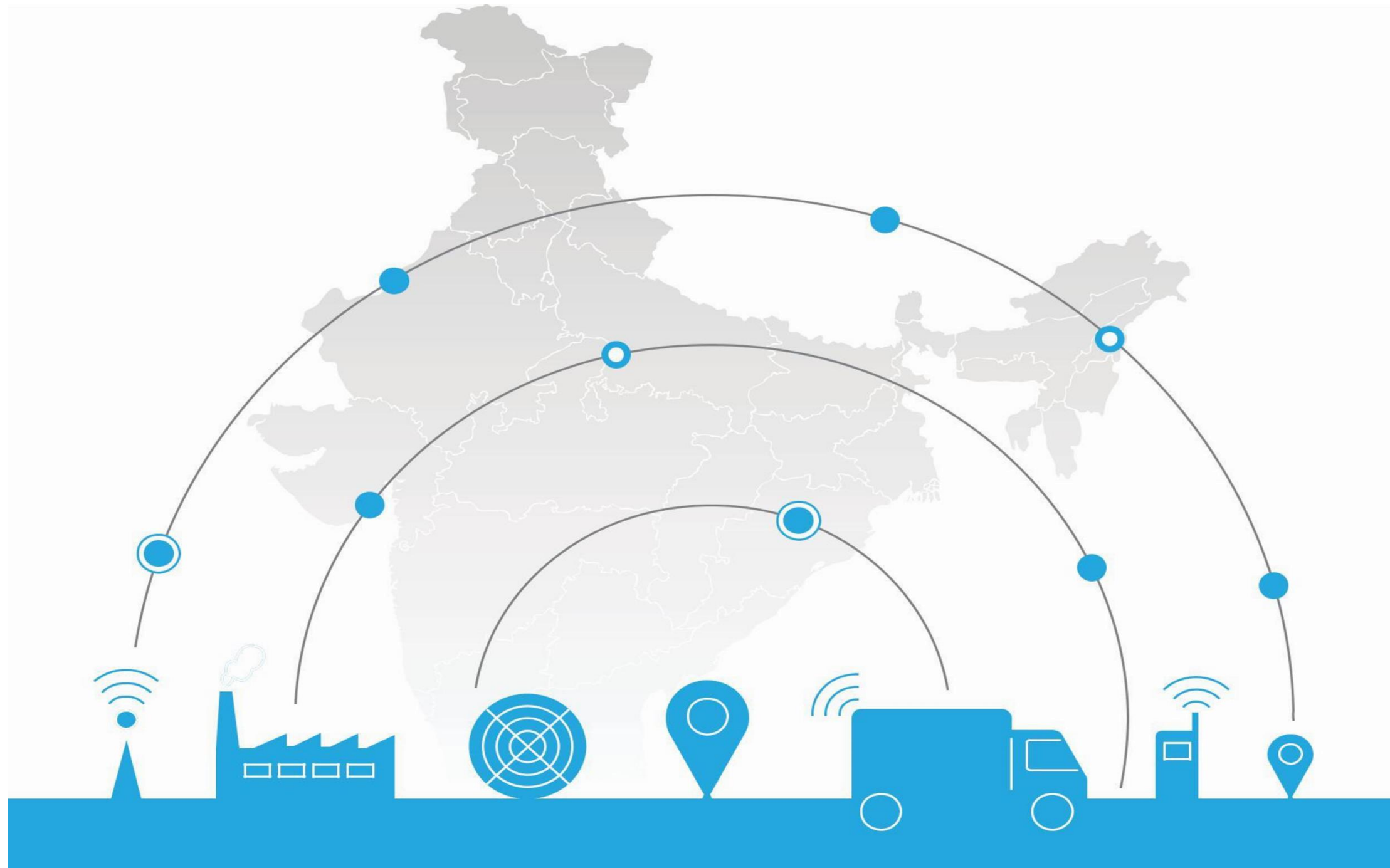


Logistics Databank Analytics Report- JNPT








Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Aug'19 (in hrs)	Sept'19 (in hrs)	Port	Aug'19 (in hrs)	Sept'19 (in hrs)
JNPCT	28.7	26.8	JNPCT	-	74.8
NSICT	32.1	27.6	NSICT	49.1	44.8
GTI	27.5	26.4	GTI	67.7	62.2
NSIGT	28.5	26.4	NSIGT	75.9	67.5
BMCT/PSA	27.5	23.9	BMCT/PSA	74.5	64.0

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- There has been an improvement in overall ICD lead time for containers from JNPT Port

Import Cycle	Import Dwell Time	Port to ICD	ICD Dwell Time	ICD to Port	Export Dwell Time
September 2019	26.1 hrs 	67.9 hrs 	132.5 hrs 	72.9 hrs 	63.9 hrs 
August 2019	28.2 hrs	76.0 hrs	137.5 hrs	74.9 hrs	68.6 hrs

Port Dwell Time

IMPORT

Mode	Aug'19 (in hrs)	Sept'19 (in hrs)
Overall	28.8	27.9
Truck	25.6	25.7
Train	58.0	41.9

EXPORT

Mode	Aug'19 (in hrs)	Sept'19 (in hrs)
Overall	84.8	77.8
Truck	83.8	77.1
Train	92.9	82.1

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





Inland Container Depot (ICD)



Container Freight Stations (CFS)

Entity	Aug'19 (in hrs)	Sept'19 (in hrs)
CFS	84.7	89.1
ICD	137.5	132.5

 The marked entries showcase increase in performance in comparison to Aug'19

 The marked entries showcase decrease in performance in comparison to Aug'19

Container Lifecycle (Import Cycle)

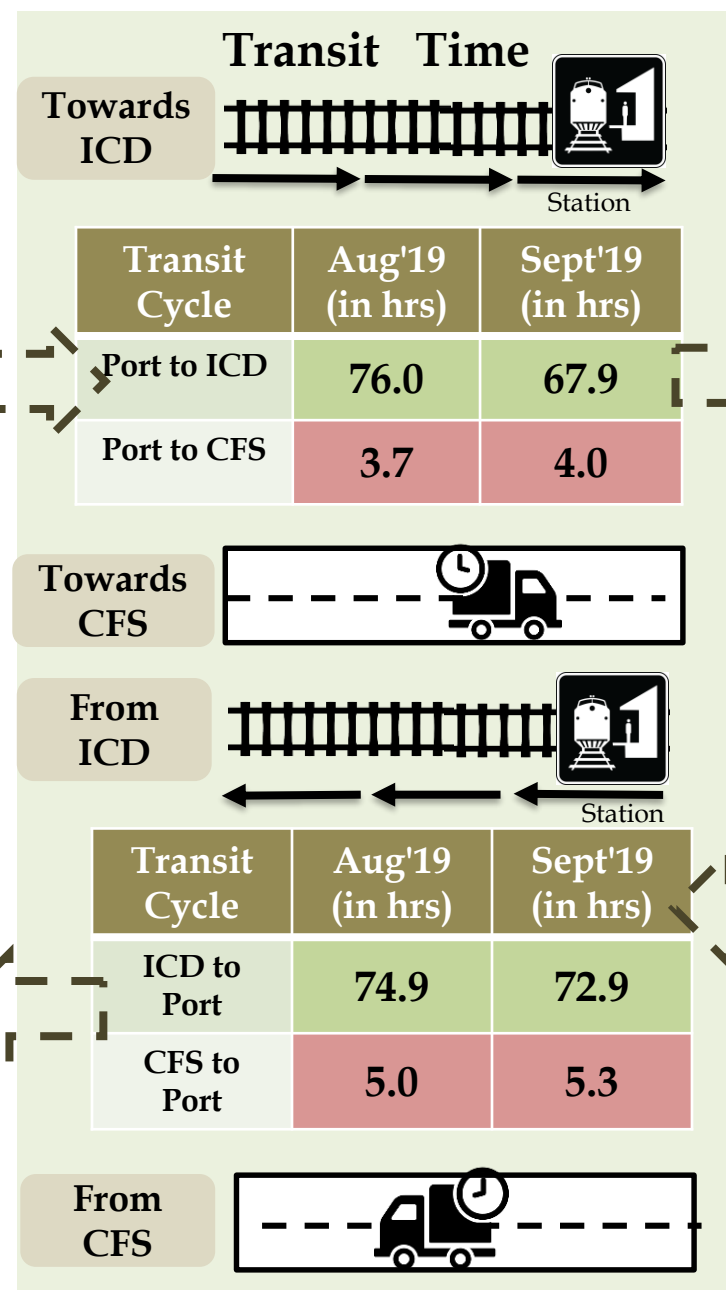
IMPORT

Port Dwell Time

Mode	Aug'19 (in hrs)	Sept'19 (in hrs)
Overall	28.2	26.1
Truck	25.7	24.5
Train	48.4	34.3

EXPORT

Mode	Aug'19 (in hrs)	Sept'19 (in hrs)
Overall	68.6	63.9
Truck	69.5	64.3
Train	56.4	60.0



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

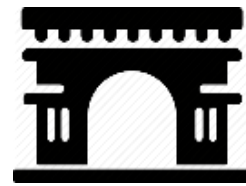
Entity	Aug'19 (in hrs)	Sept'19 (in hrs)
CFS	82.4	86.9
ICD	137.5	132.5

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

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

Container Lifecycle (Export Cycle)

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



Parking Plaza Gate In - Gate Out

Waiting Time at Parking Plaza

Mode	Aug'19 (in hrs)	Sept'19 (in hrs)
Overall	6.9	7.7



Parking Plaza Gate Out - Terminal In

Transit time from Parking plaza to terminal

Mode	Aug'19 (in hrs)	Sept'19 (in hrs)
Overall	1.88	1.3



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 (Sept'19 - in hrs)			Compared to Aug'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	26.1	7% ↑
	Port Dwell Time for Truck Bound Containers	24.5	5% ↑
	Port Dwell time for Train Bound Containers	34.3	29% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	46.0	5% ↓
	Port Dwell time Containers bound for CFS	22.6	10% ↑
	Port Dwell for Empty Containers	37.8	19% ↑
	Port Dwell for Laden Containers	25.0	6% ↑
TRANSIT TIME	Port to ICD	67.9	11% ↑
	Port to CFS	4.0	9% ↓

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

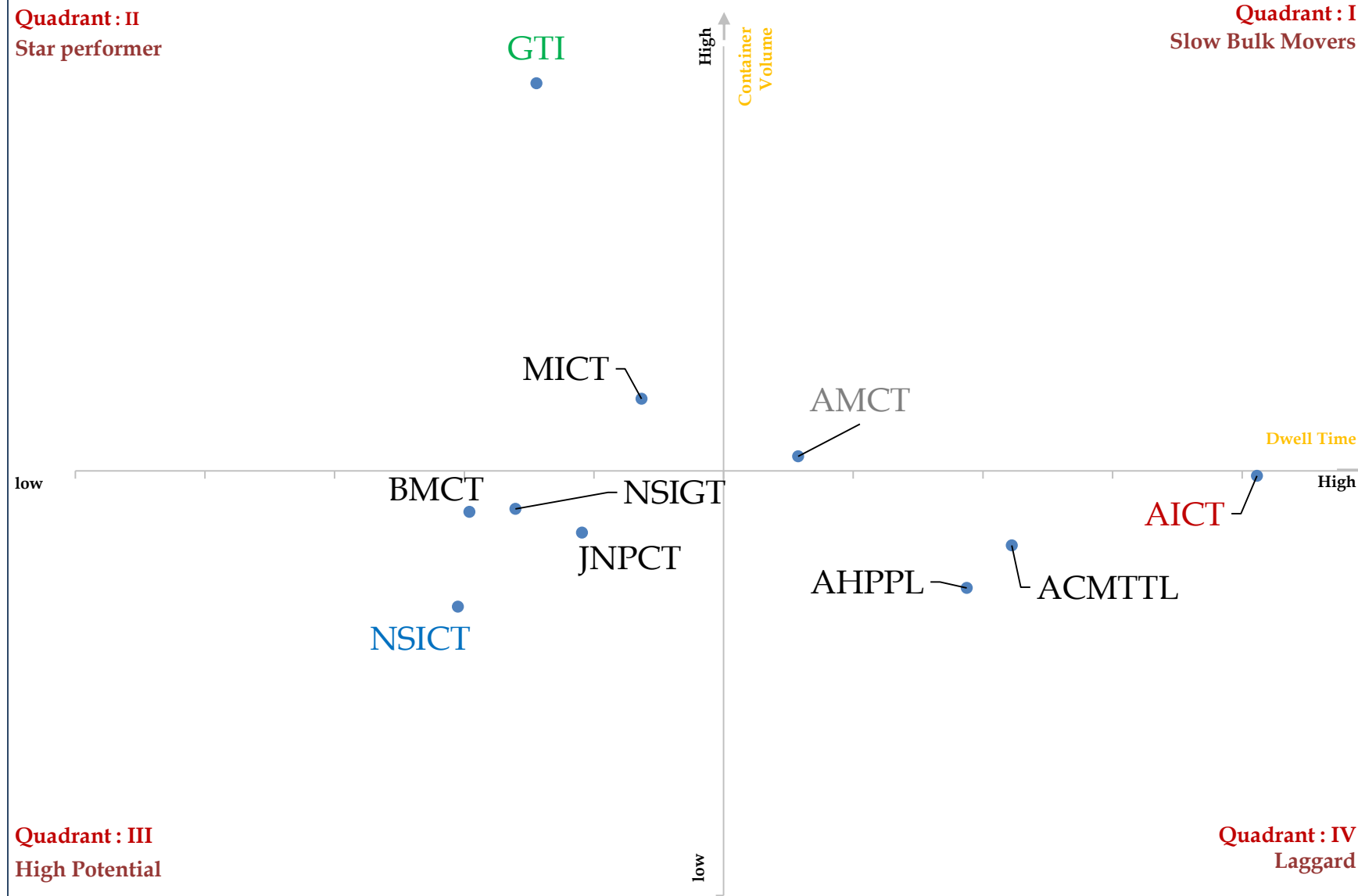
EXPORT CYCLE DWELL TIME (Sept'19- in hrs)			Compared to Aug'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	63.9	7% ↑
	Port Dwell Time for Truck Bound Containers	64.3	7% ↑
	Port Dwell time for Train Bound Containers	60.0	6% ↓
	Port Dwell time Direct Port Entry (DPE) containers	69.6	7% ↑
	Port Dwell time Containers bound from CFS	56.8	15% ↑
	Port Dwell for Empty Containers	63.7	5% ↑
	Port Dwell for Laden Containers	65.5	9% ↑
TRANSIT TIME	ICD to Port	72.9	3% ↑
	CFS to Port	5.3	6% ↓

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



Performance Benchmarking - Port Terminals

Port Terminal Performance Index - Sept'19



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

Top Performing Terminal

Gateway Terminals India (GTI)

Aug'19	Sept'19
45.4 hrs	42.6 hrs



Low Performing Terminal

Adani International Container Terminal (AICT)

Aug'19	Sept'19
84.6 hrs	97.1 hrs



Note: The performance benchmarking is based on performance index



The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Aug'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	
Aug'19	Sept'19
66.5 hrs	67.4 hrs ↓

Low Performing CFS

Take Care Logistics CFS	
Aug'19	Sept'19
104.1 hrs	122.5 hrs ↓

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

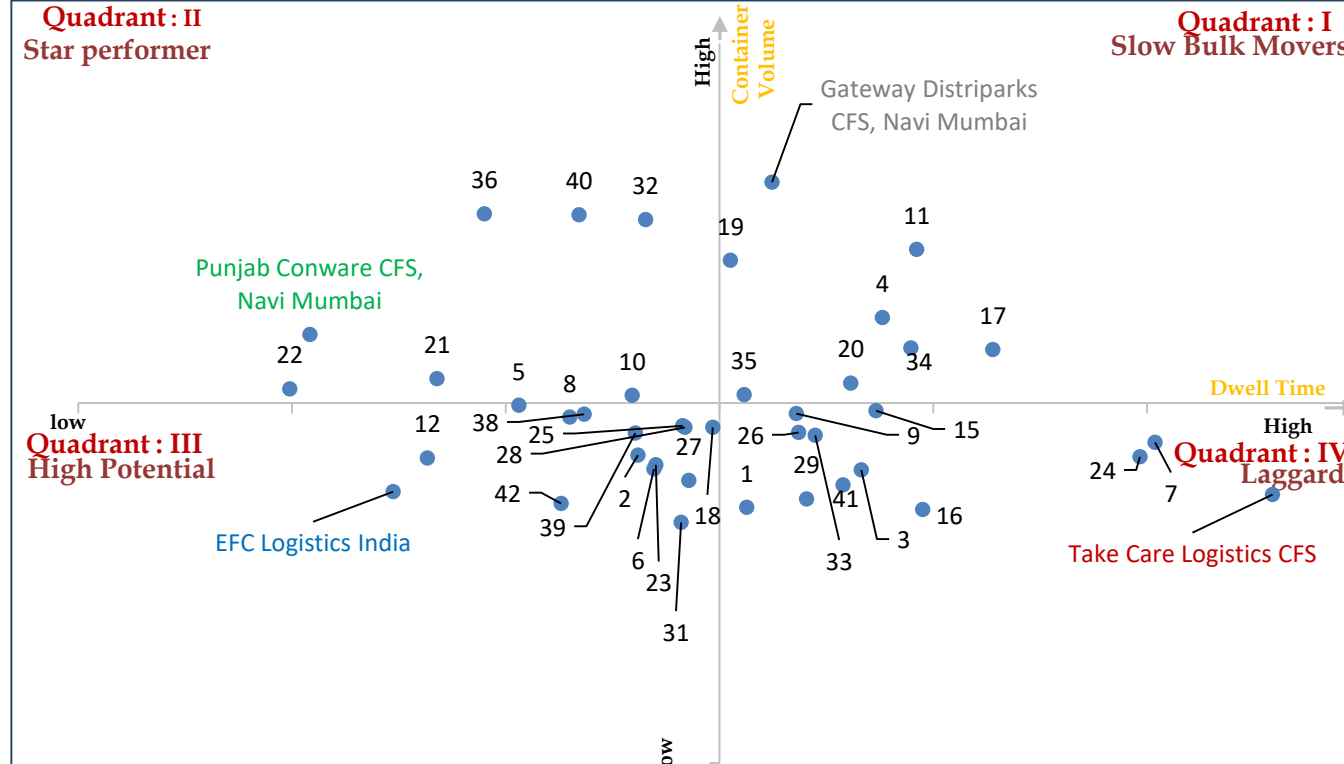
Top Performing ICD

Gateway Rail Freight ICD, Gurgaon	
Aug'19	Sept'19
114.0 hrs	100.8 hrs ↑

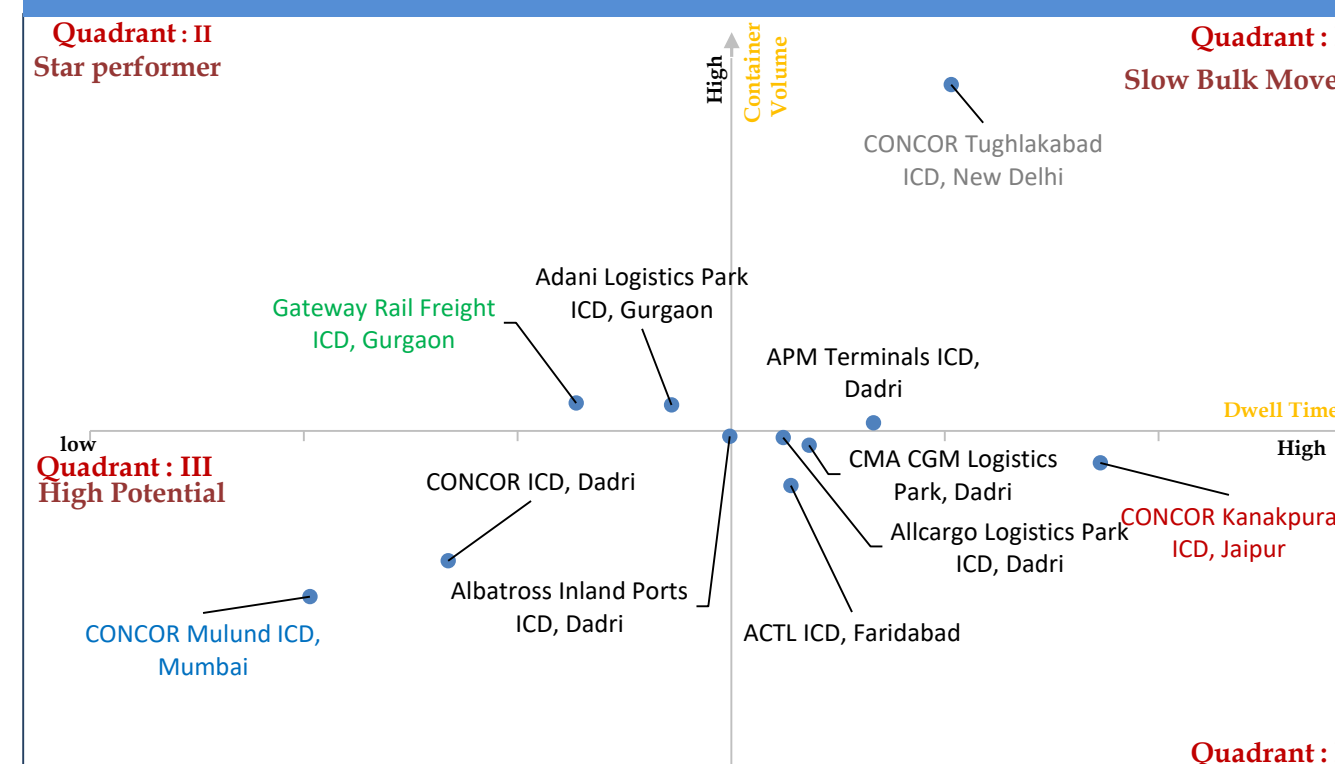
Low Performing ICD

CONCOR Kanakpura ICD, Jaipur	
Aug'19	Sept'19
174.7 hrs	180.8 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

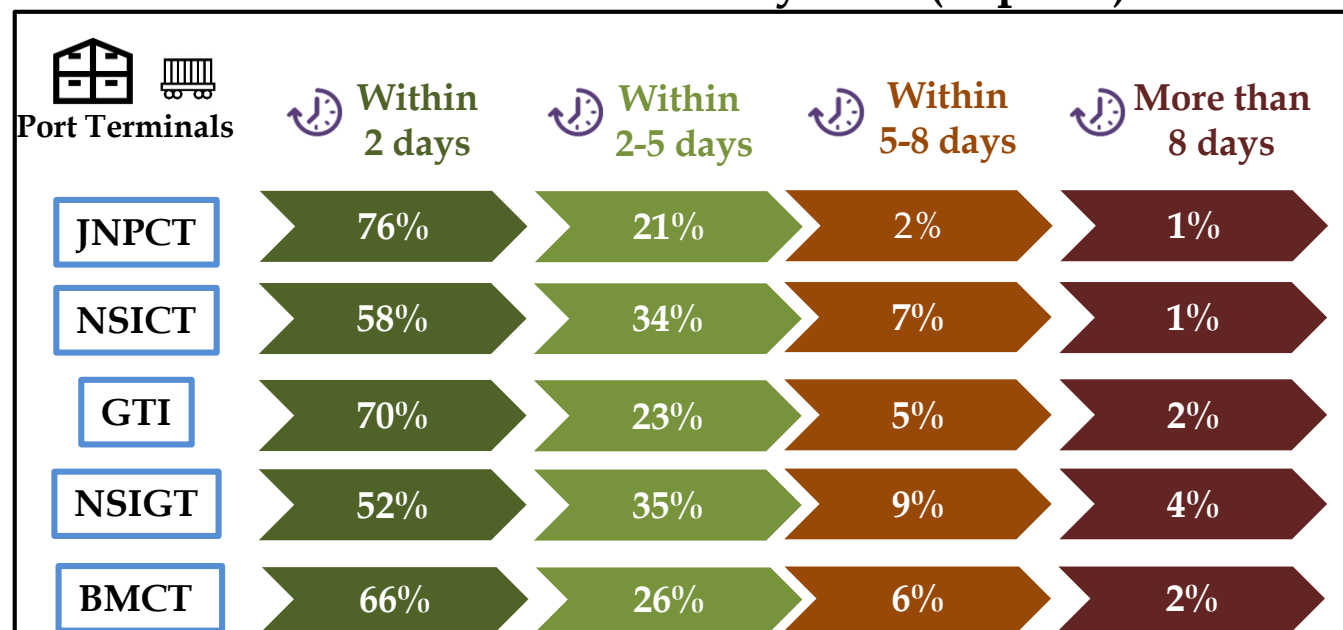
PORT IMPORT via TRAIN

(19% 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	Aug'19 (in hrs)	Sept'19 (in hrs)
JNPCT	32.7	27.1
NSICT	63.7	42.6
GTI	37.3	29.5
NSIGT	68.0	46.8
BMCT	55.6	34.0

Container Handled: Day wise (Sept'19)



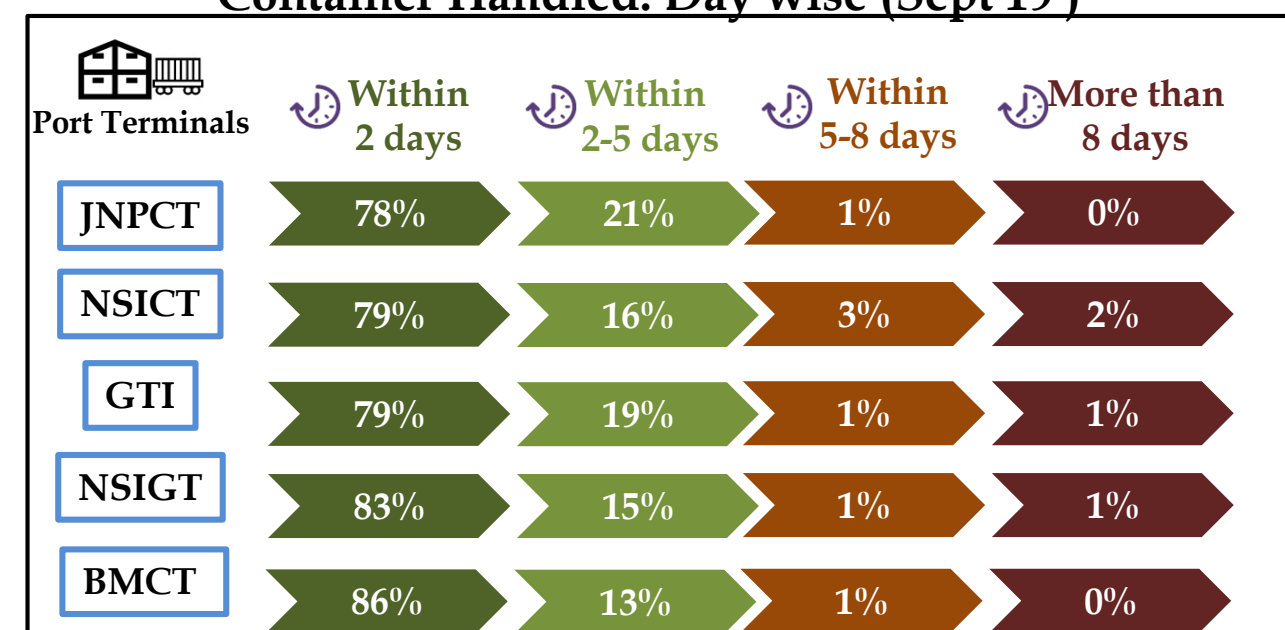
PORT IMPORT via TRUCK

(81% 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	Aug'19 (in hrs)	Sept'19 (in hrs)
JNPCT	28.3	26.8
NSICT	26.3	23.4
GTI	26.0	25.7
NSIGT	22.8	22.7
BMCT	25.4	22.7

Container Handled: Day wise (Sept'19)



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

JNPCT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	39.6 hrs	25.5 hrs
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	27.4 hrs	29.5 hrs

GTI		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	46.1 hrs	23.2 hrs
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	25.3 hrs	41.1 hrs

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

NSICT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	73.2 hrs	20.1 hrs

Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	23.6 hrs	51.4 hrs

NSIGT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	67.8 hrs	21.4 hrs

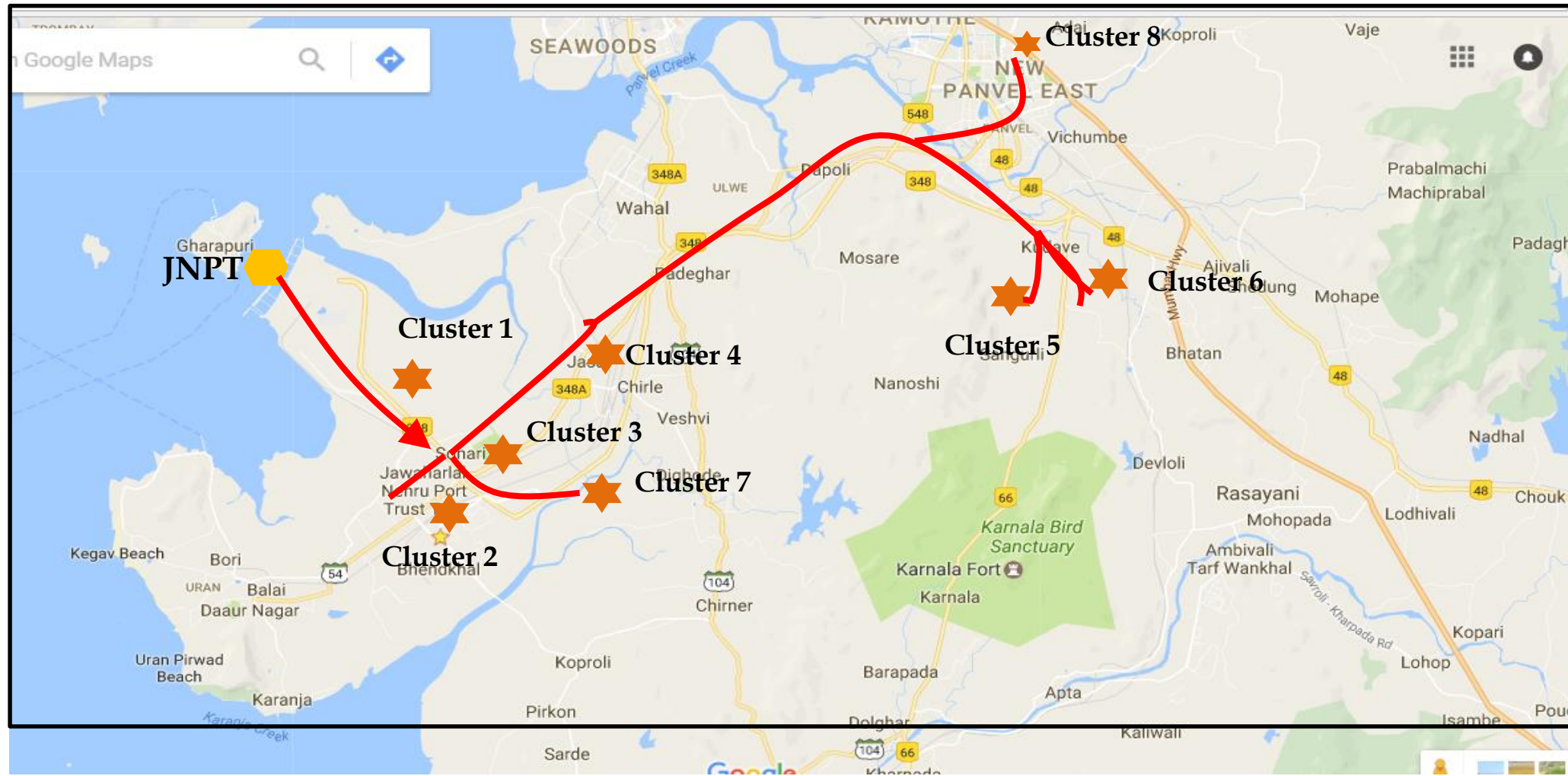
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	24.0 hrs	40.2 hrs

BMCT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	44.9 hrs	21.8 hrs

Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	23.3 hrs	40.5 hrs

JNPT Region: Congestion Analysis (Import Cycle)

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

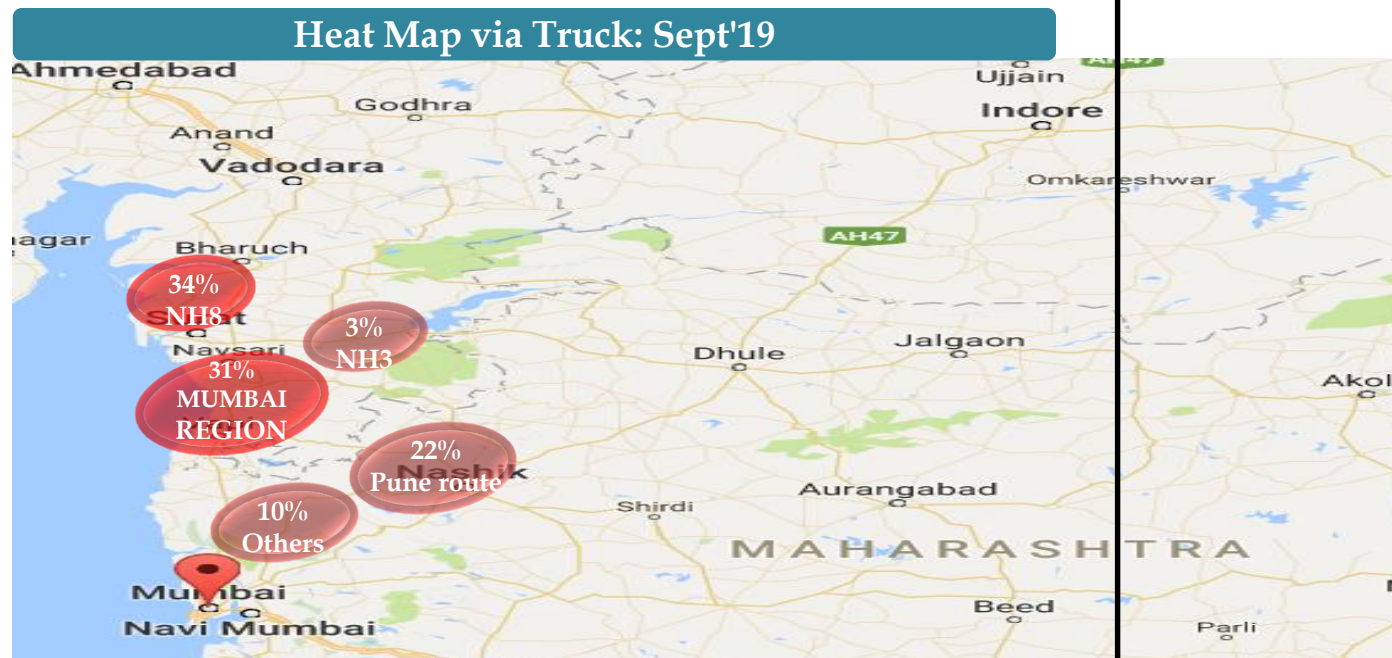
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Sept'19
Mumbai region	31%
NH3	3%
Pune	22%
NH8	34%
others	10%

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

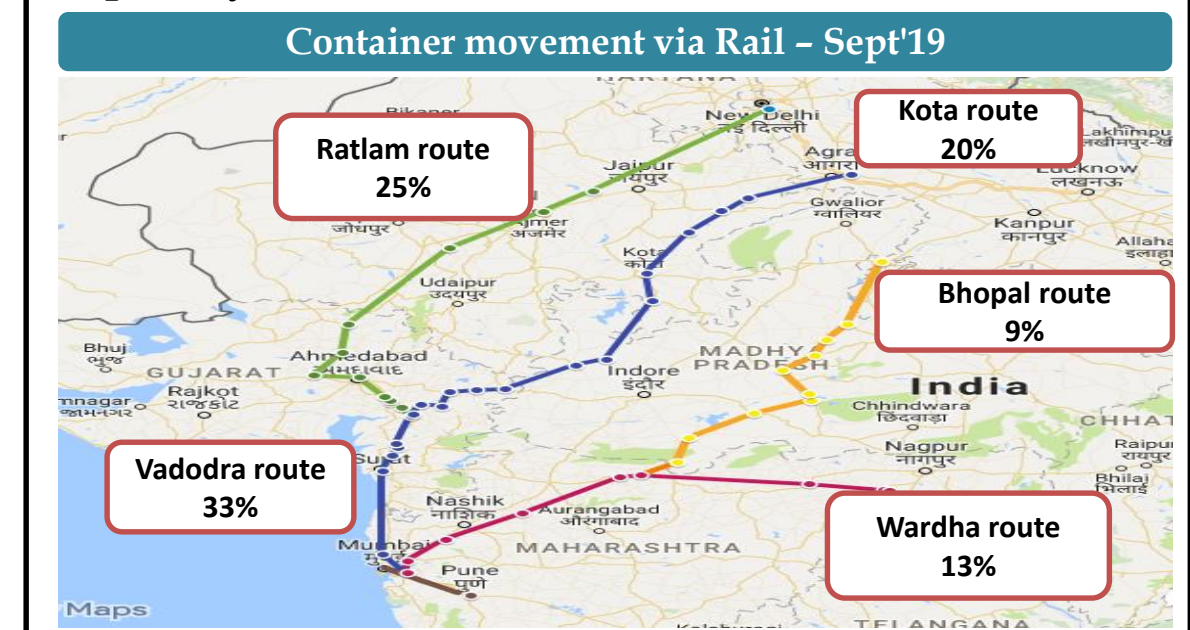


Train

VOLUME WISE CONTAINER MOVEMENT

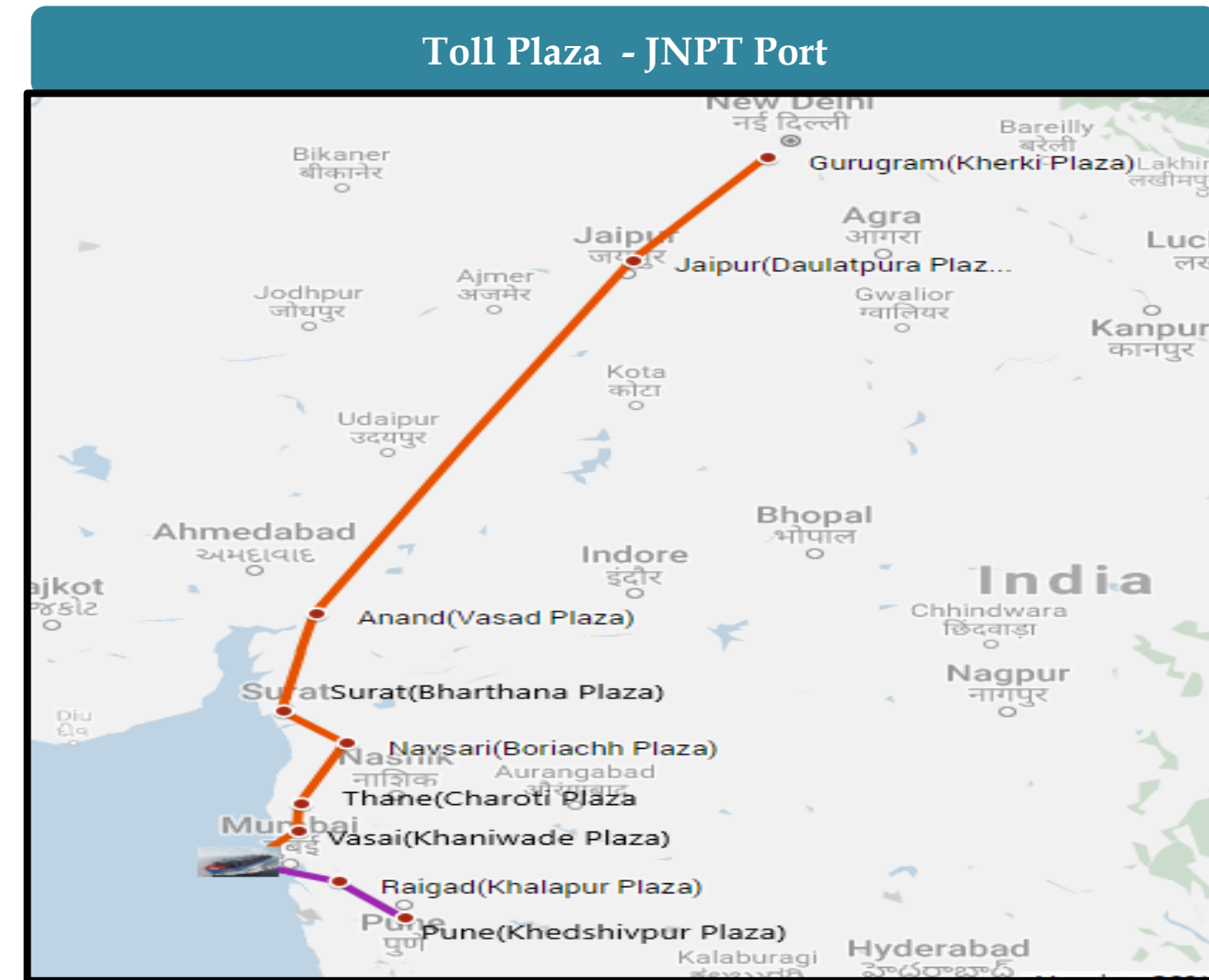
Region	Sept'19
Vadodra Route	33%
Ratlam Route	25%
Wardha Route	13%
Kota Route	20%
Bhopal Route	9%

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)	Aug'19 (in km/hrs)	Sept'19 (in km/hrs)
JNPT	JNPT	Khaniwade	94	13.1	11.5
	JNPT	Khalapur	60	11.22	11.21
	Khaniwade	Charoti	50	33.6	33.7
	Charoti	Boriach	126	26.3	26.8
	Boriach	Bharthan	142	31.3	31.8
	Bharthan	Vasad	60	39.7	39.2
	Khalapur	Khedshivpur	105	25.3	27.9
	Daulatpura	Kherki	199	23.1	23.5



Export Cycle Analysis

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

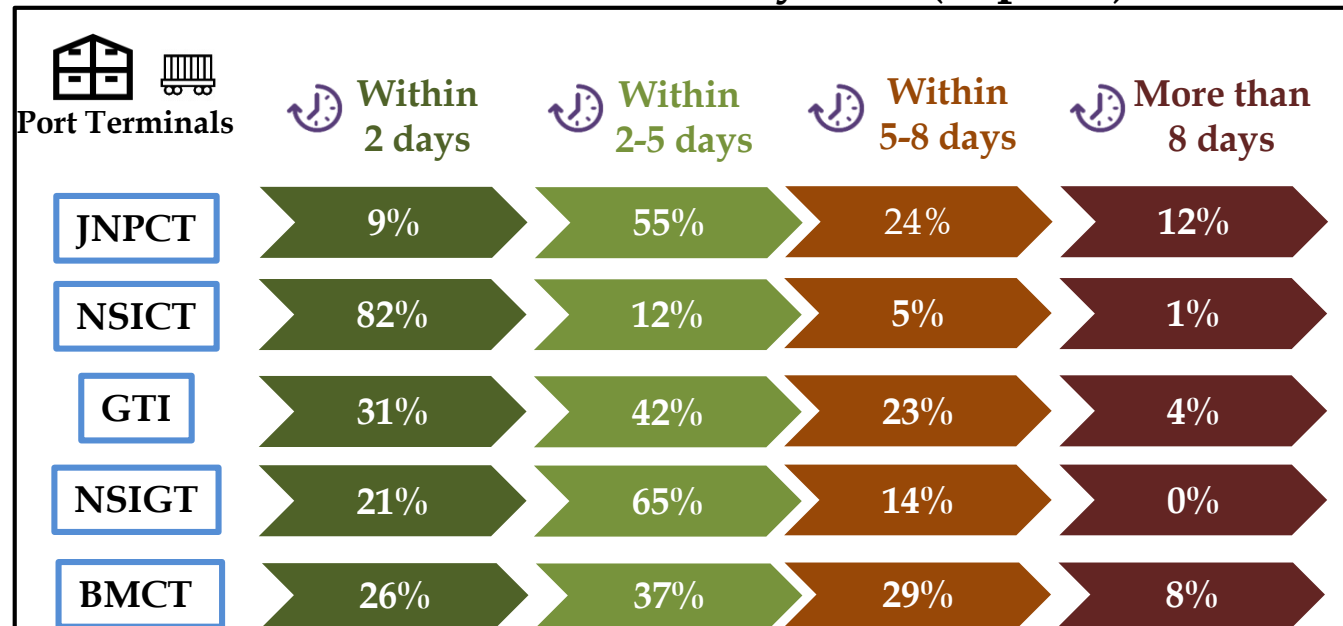
PORT EXPORT via TRAIN

(18% of total 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	Aug'19 (in hrs)	Sept'19 (in hrs)
JNPCT	-	98.3
NSICT	13.9	10.6
GTI	98.5	78.7
NSIGT	86.8	77.3
BMCT	109.6	88.2

Container Handled: Day wise (Sept'19)



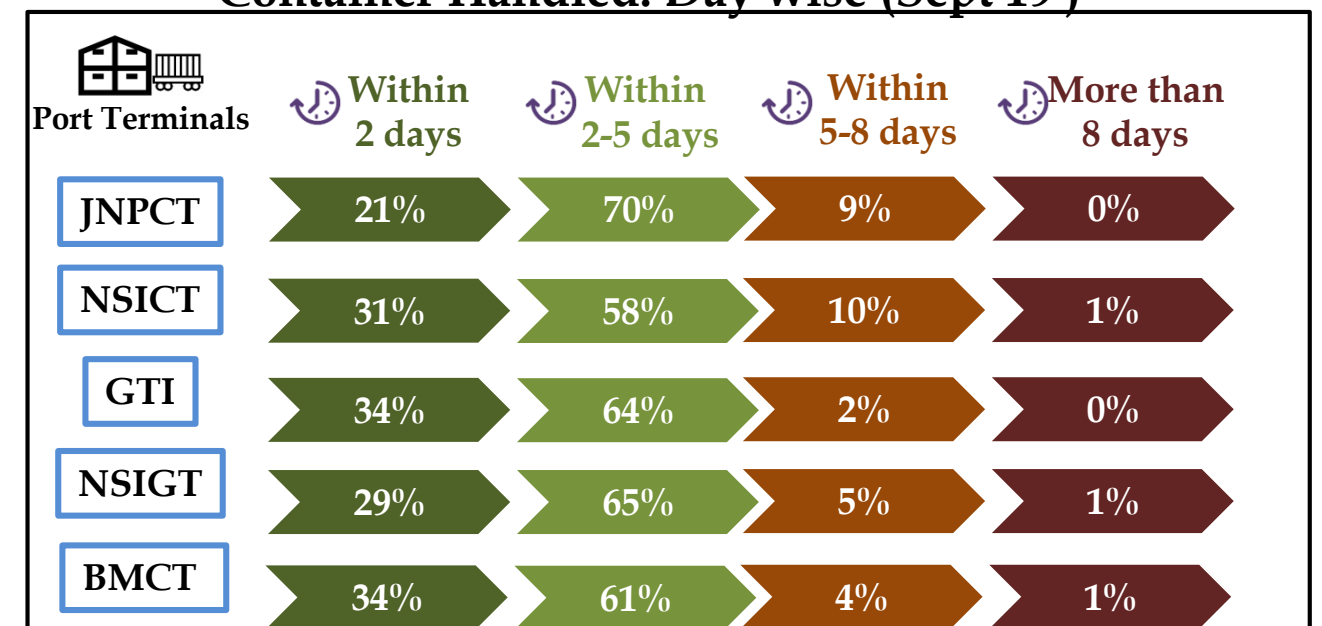
PORT EXPORT via TRUCK

(82% 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	Aug'19 (in hrs)	Sept'19 (in hrs)
JNPCT	-	73.8
NSICT	76.7	69.0
GTI	64.9	60.6
NSIGT	75.9	67.4
BMCT	72.3	61.4

Container Handled: Day wise (Sept'19)



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

JNPCT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	71.1 hrs	68.0 hrs
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	70.5 hrs	80.0 hrs

GTI		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	65.2 hrs	52.9 hrs
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	63.4 hrs	58.1 hrs

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

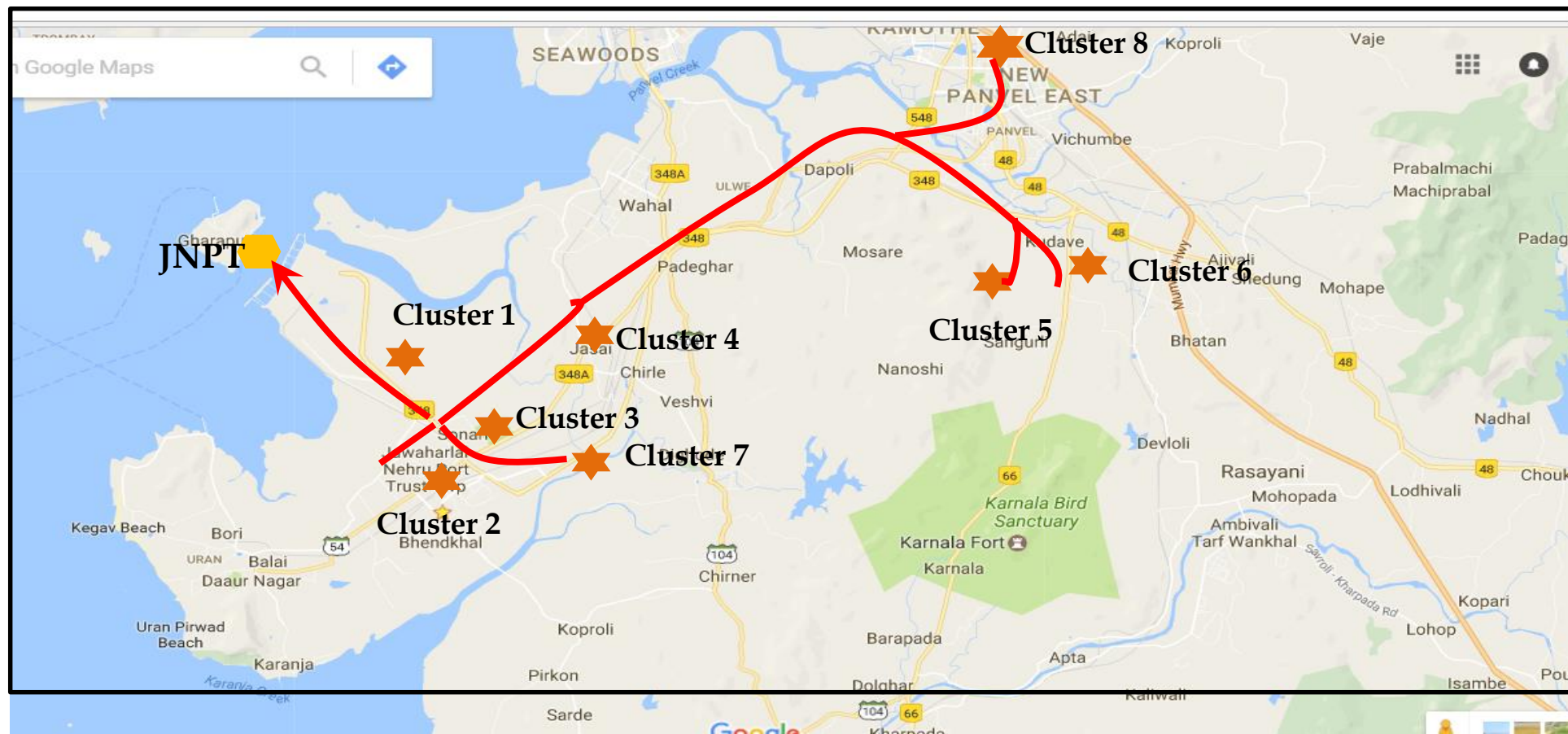
NSICT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	74.8 hrs	60.8 hrs
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	65.8 hrs	25.9 hrs

NSIGT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	75.3 hrs	57.4 hrs
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	66.9 hrs	56.1 hrs

BMCT		
Port Dwell time based on transit type		
Aug'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	-	56.3 hrs
Port Dwell time based on container type		
Aug'19	Laden Containers	Empty Containers
Dwell time (in hrs)	70.5 hrs	60.1 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of Sept'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
CLUSTER 8	Taloja, Navi Mumbai

Legends

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

GTI Terminal

Congestion Level
Import Cycle :- [Red bar]

JNPCT Terminal

Congestion Level
Import Cycle :- [Red bar]

NSICT Terminal

Congestion Level
Import Cycle :- [Light red bar]

NSIGT Terminal

Congestion Level
Import Cycle :- [Light red bar]

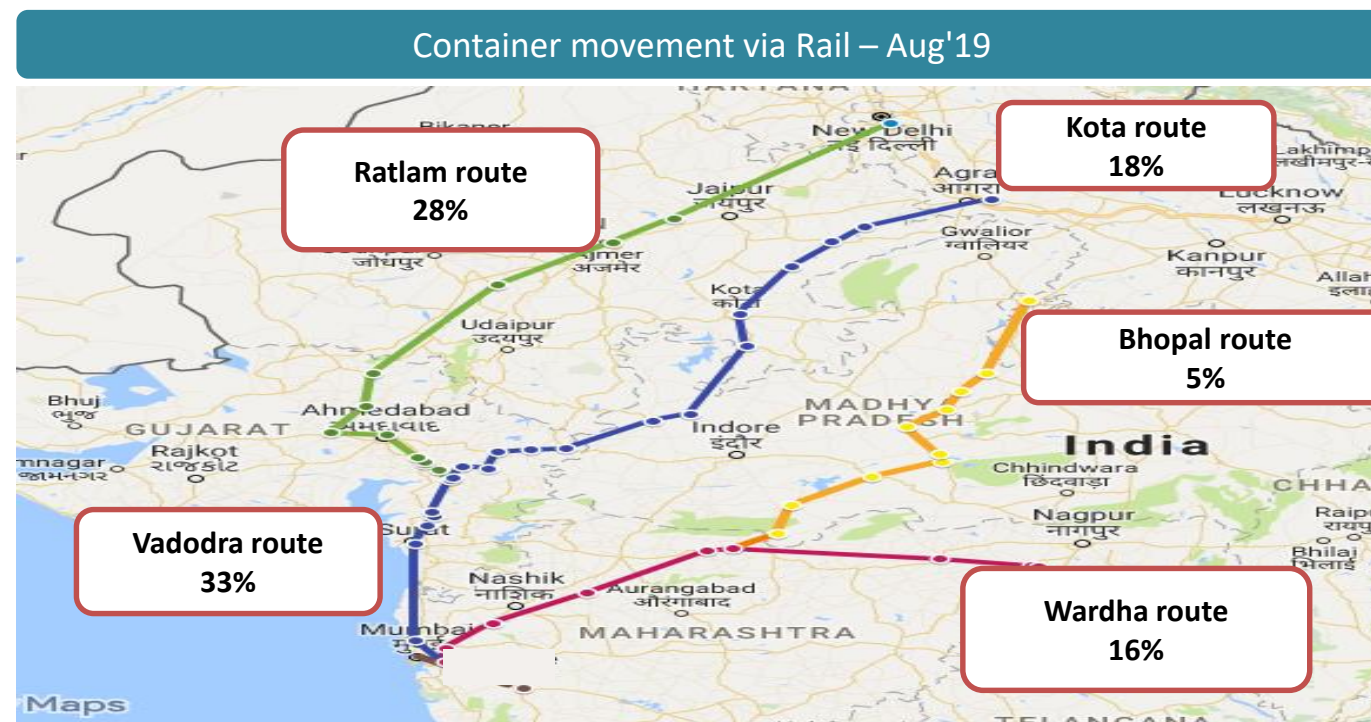
BMCT Terminal

Congestion Level
Export Cycle :- [Light 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	33%
Ratlam Route	28%
Wardha Route	16%
Kota Route	18%
Bhopal Route	5%

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



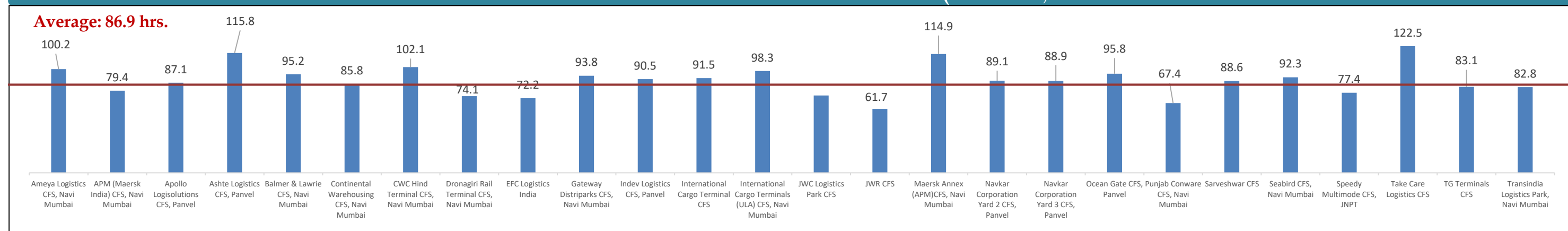
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)					
CFS	Aug'19	Sept'19	CFS	Aug'19	Sept'19
Ameya Logistics CFS, Navi Mumbai	82.4	100.2	Maersk Annex (APM)CFS, Navi Mumbai	109.2	114.9
APM (Maersk India) CFS, Navi Mumbai	77.5	79.4	Maharashtra State Corp CFS	-	-
Apollo Logisolutions CFS, Panvel	84.6	87.1	Navkar Corporation Yard 1 CFS, Panvel	90.4	-
Ashte Logistics CFS, Panvel	103.9	115.8	Navkar Corporation Yard 2 CFS, Panvel	91.1	89.1
Balmer & Lawrie CFS, Navi Mumbai	92.5	95.2	Navkar Corporation Yard 3 CFS, Panvel	79.0	88.9
Continental Warehousing CFS, Navi Mumbai	81.2	85.8	Ocean Gate CFS, Panvel	85.4	95.8
CWC Hind Terminal CFS, Navi Mumbai	97.2	102.1	Punjab Conware CFS, Navi Mumbai	66.5	67.4
Dronagiri Rail Terminal CFS, Navi Mumbai	61.2	74.1	Sarveshwar CFS	-	88.6
EFC Logistics India	-	72.2	SBW Logistics CFS, Navi Mumbai	-	-
Gateway Distriparks CFS, Navi Mumbai	89.7	93.8	Seabird CFS, Navi Mumbai	101.0	92.3
Indev Logistics CFS, Panvel	100.2	90.5	Speedy Multimode CFS, JNPT	78.9	77.4
International Cargo Terminal CFS	83.3	91.5	Take Care Logistics CFS	104.1	122.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	97.6	98.3	TG Terminals CFS	84.9	83.1
JWC Logistics Park CFS	81.3	74.7	Transindia Logistics Park, Navi Mumbai	78.9	82.8
JWR CFS	54.8	61.7	Vaishno Logistics CFS, Navi Mumbai	80.2	81.8

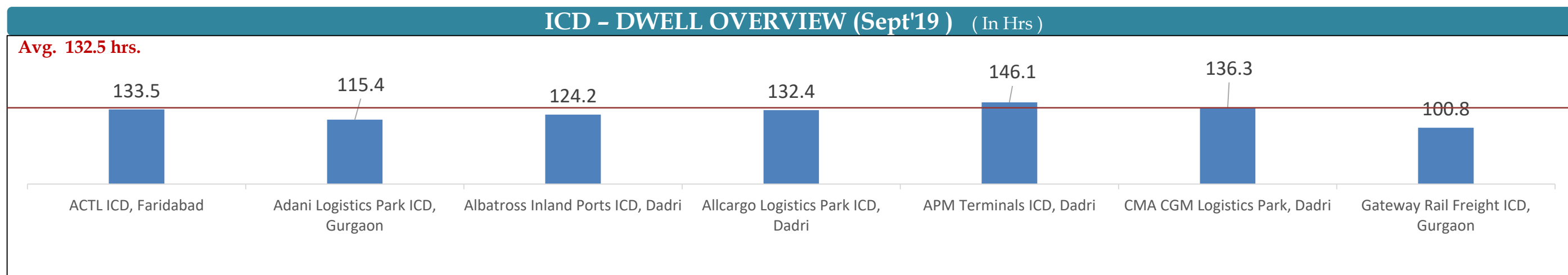
CFS - DWELL OVERVIEW - SEPT'19 (IN HRS)



ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Aug'19 (in hrs)	Sept'19 (in hrs)
ACTL ICD, Faridabad	133.4	133.5
Adani Logistics Park ICD, Gurgaon	109.7	115.4
Albatross Inland Ports ICD, Dadri	128.5	124.2
Allcargo Logistics Park ICD, Dadri	154.0	132.4
APM Terminals ICD, Dadri	157.5	146.1
CMA CGM Logistics Park, Dadri	133.9	136.3
Gateway Rail Freight ICD, Gurgaon	114.0	100.8

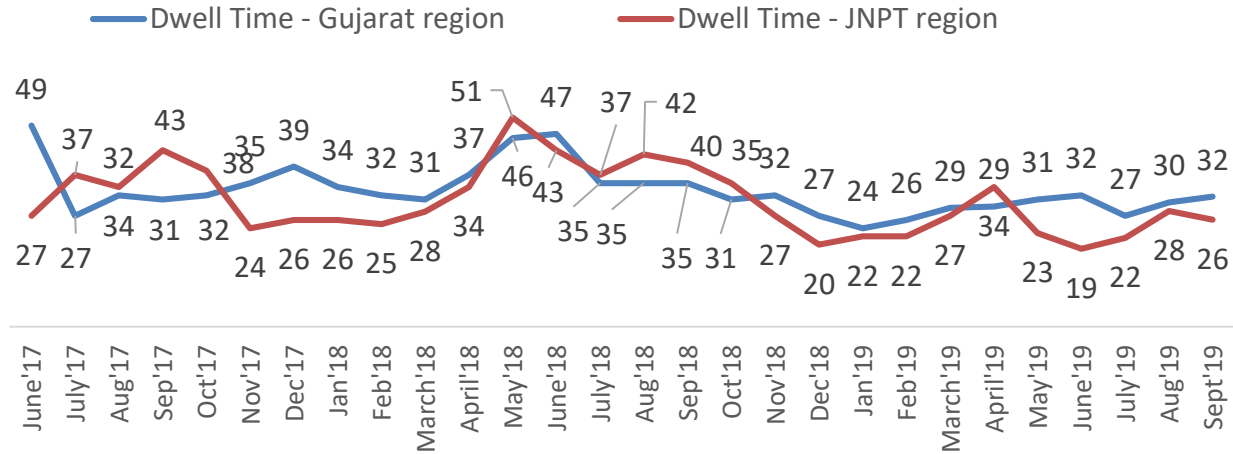


Trend Analysis

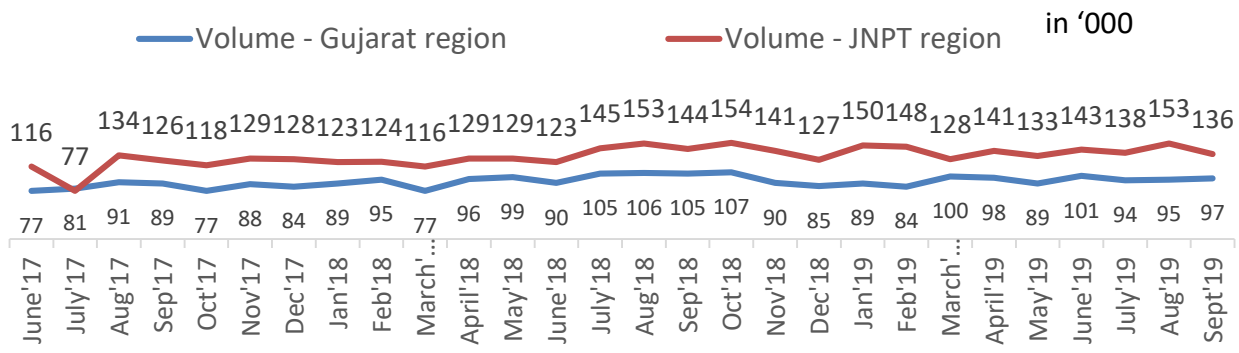
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Sept'19

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



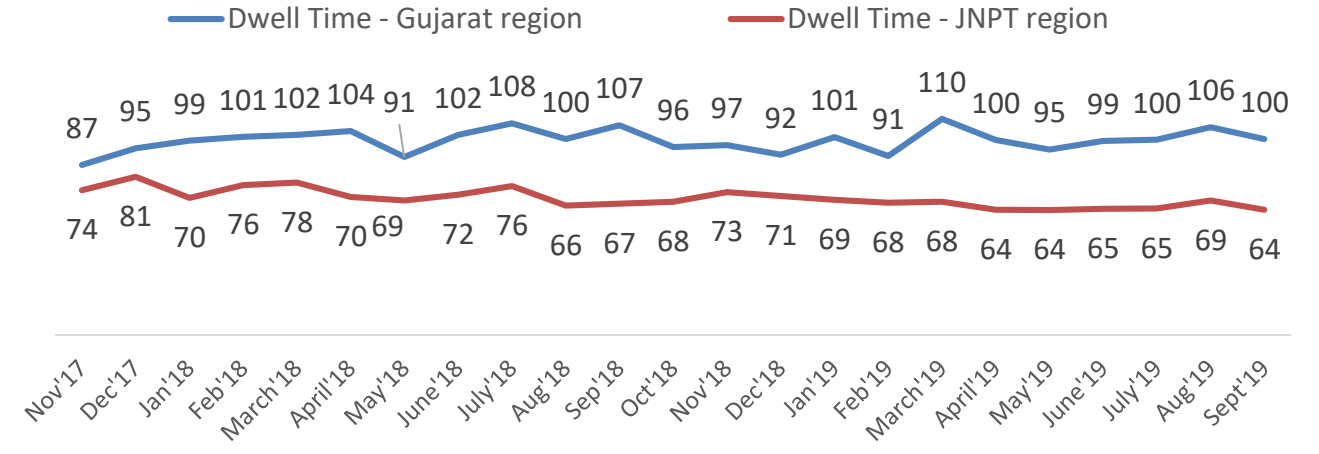
Volume – Gujarat Region Vs JNPT Region



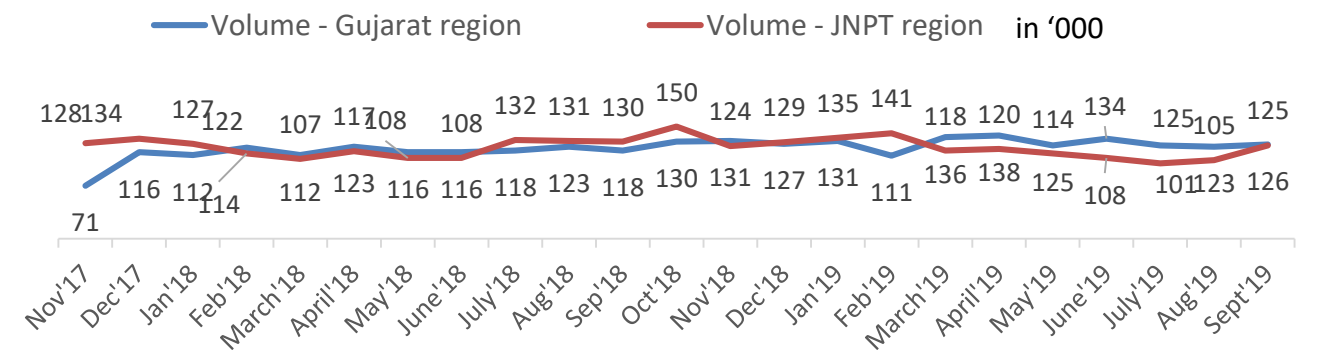
In Import cycle, for the month of Sept'19 JNPT port has catered 40% more volume than APSEZ Port, and has maintained 18% lower dwell time than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



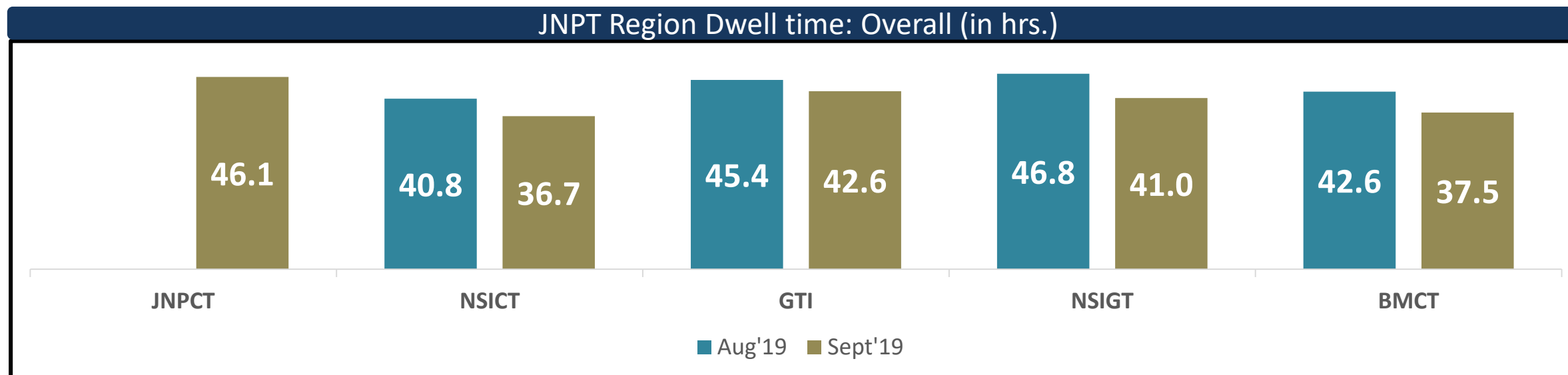
Volume – Gujarat Region Vs JNPT Region



In Export cycle, for the month Sept'19 JNPT port catered 1% more volume than APSEZ Port, and has maintained 36% 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



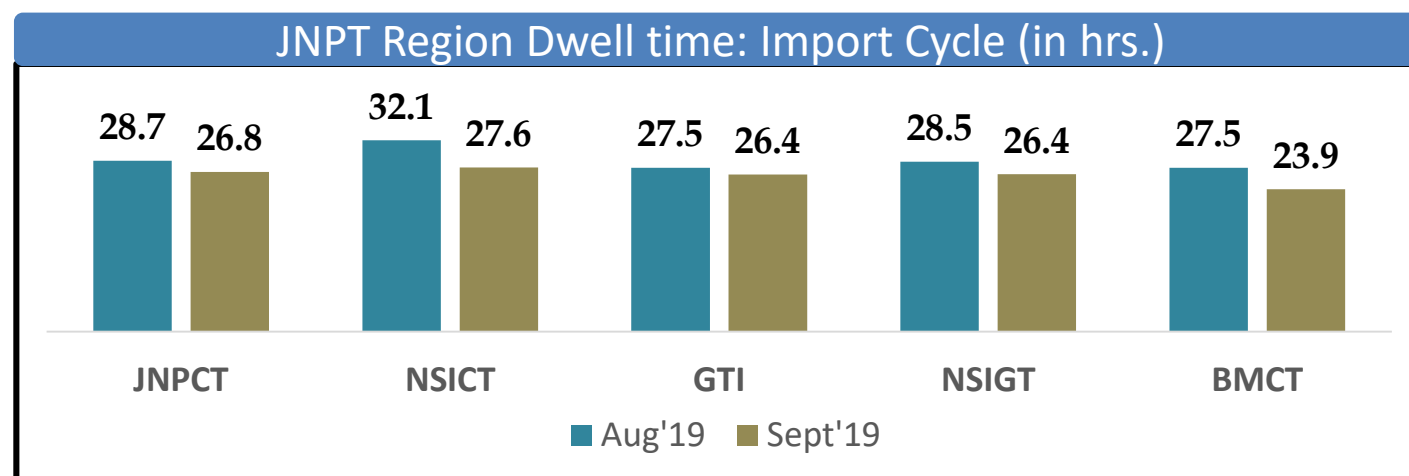
The overall JNPT region average dwell time for Sept'19 is 41.6 hrs as compared to 28.2 hrs in Aug'19

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



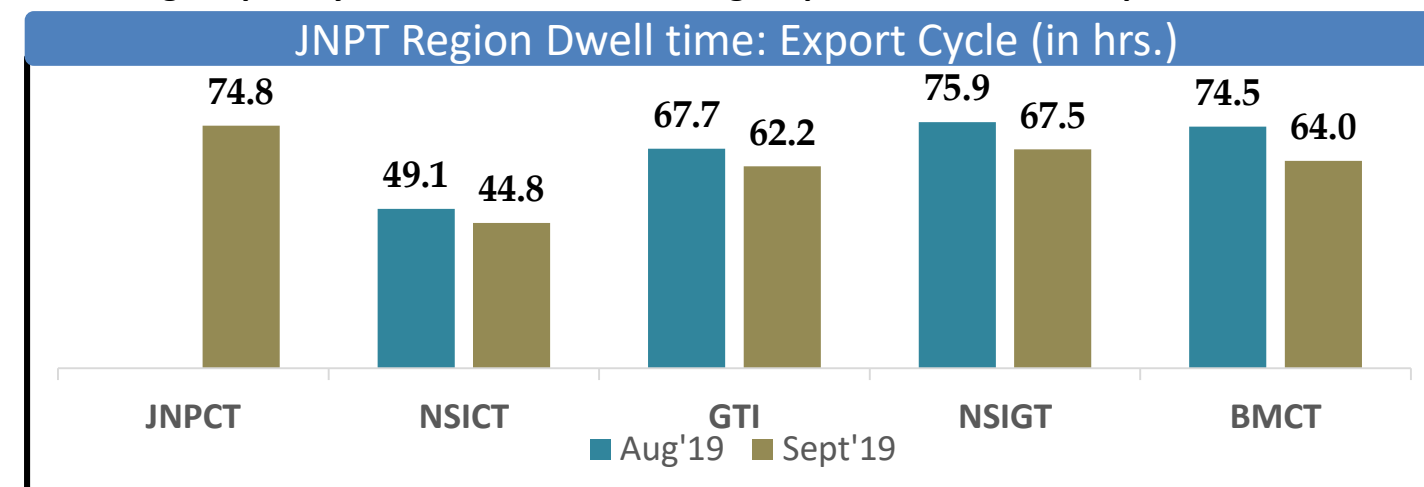
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Sept'19 is 26.1 hrs.



JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Sept'19 is 63.9 hrs.



ANNEXURE

Container movement around JNPT Port terminal region via Truck

HEAT MAP : GTI Port Terminal



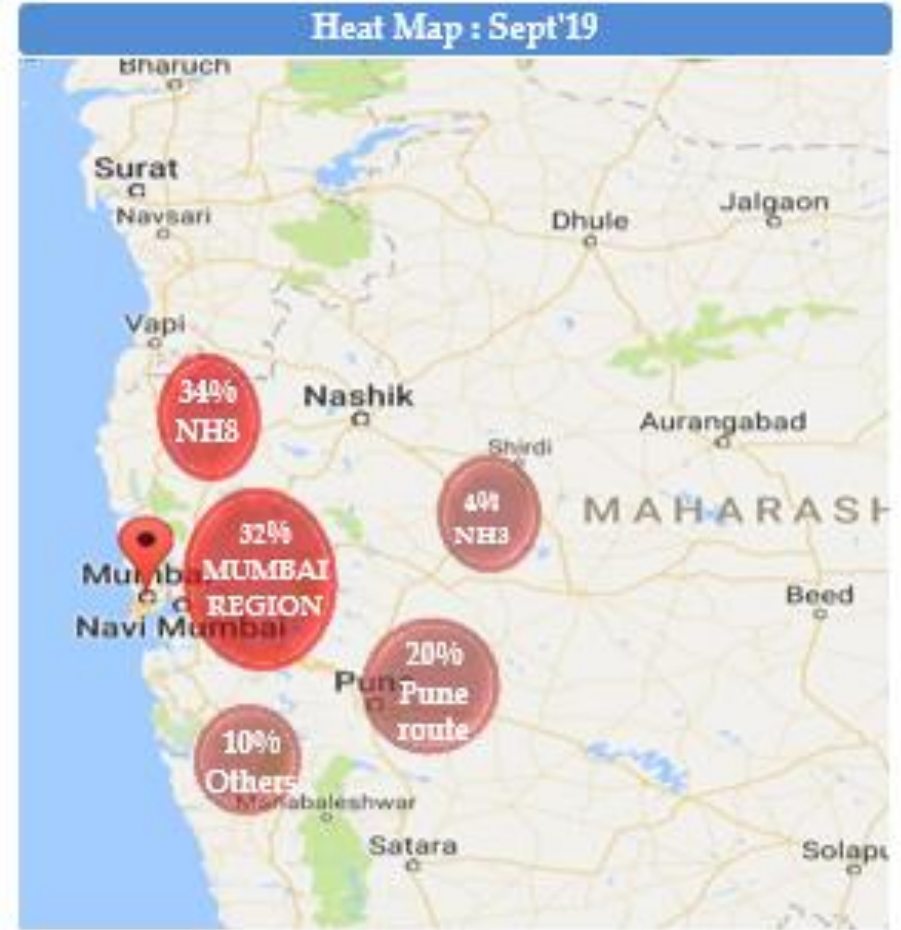
The heat map above depicts the movement of containers in and around the Mumbai region.

HEAT MAP : JNPCT Port Terminal



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

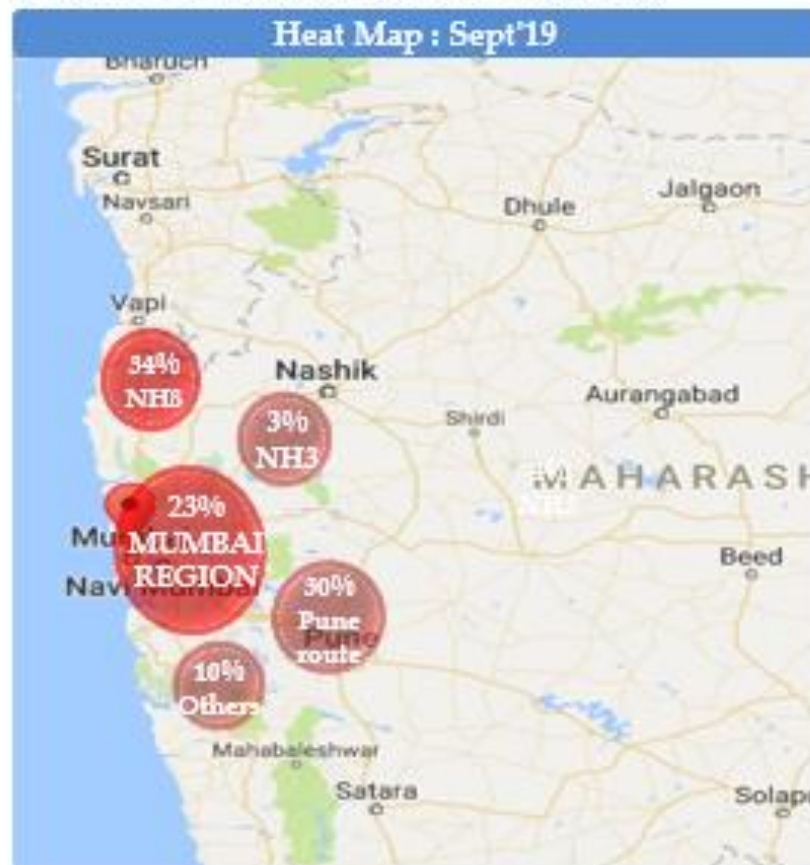
HEAT MAP : NSICT Port Terminal



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

Container movement around JNPT Port terminal region via Truck

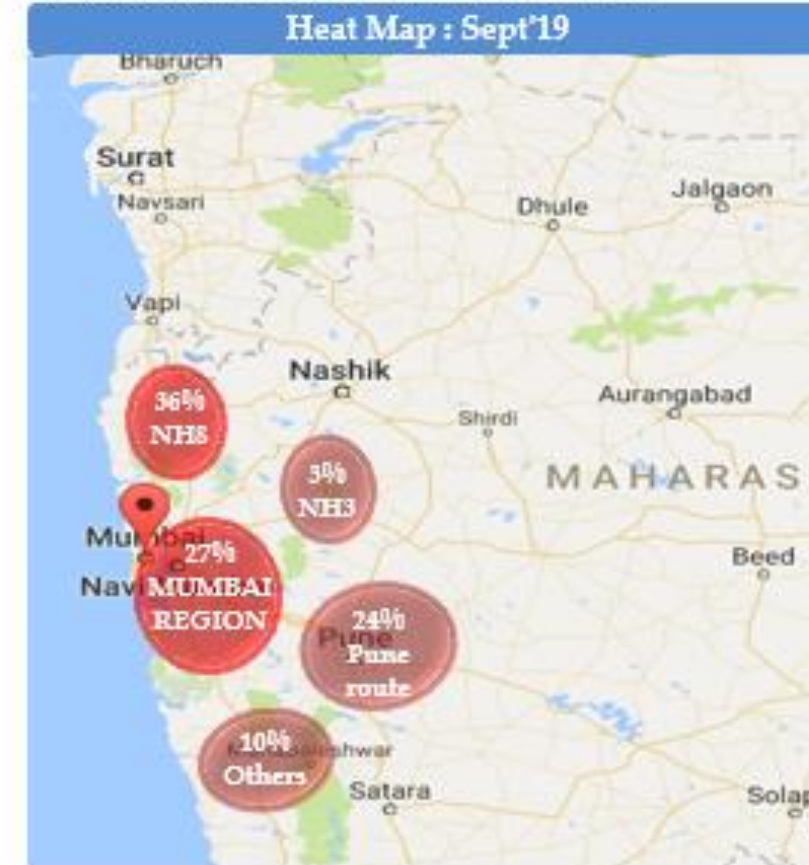
HEAT MAP : NSIGT Port Terminal



Region	Aug'19	Sept'19
Mumbai region	37%	23%
NH3	3%	3%
Pune	24%	30%
NH8	25%	34%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Aug'19	Sept'19
Mumbai region	40%	27%
NH3	3%	3%
Pune	19%	24%
NH8	28%	36%
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 Sept'19					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Speedy Multimode CFS, JNPT	3.7	6.2	2.3	1.7	2.0
Dronagiri Rail Terminal CFS, Navi Mumbai	7.7	7.9	2.5	2.7	2.5
Maharashtra State Corp CFS	4.1	6.3	2.7	2.8	2.4
JWR CFS	-	-	-	-	-
Navkar Corporation Yard 3 CFS, Panvel	12.3	12.6	8.2	7.9	13.7
International Cargo Terminal CFS	6.9	8.4	5.9	4.4	2.7
CWC Hind Terminal CFS, Navi Mumbai	7.2	8.6	2.0	2.9	3.5
Navkar Corporation Yard 2 CFS, Panvel	7.8	13.6	9.4	9.1	14.0
Punjab Conware CFS, Navi Mumbai	5.8	7.1	2.4	2.4	2.5
JWC Logistics Park CFS	5.9	8.5	3.4	3.4	4.5
TG Terminals CFS	-	-	-	-	-
Apollo Logisolutions CFS, Panvel	7.5	10.0	11.0	3.8	5.2
Vaishno Logistics CFS, Navi Mumbai	6.2	8.1	3.5	4.1	3.3
Gateway Distriparks CFS, Navi Mumbai	6.0	7.5	2.8	3.1	3.1
Transindia Logistics Park, Navi Mumbai	4.6	8.3	2.5	2.5	4.7
Ashte Logistics CFS, Panvel	11.0	12.5	6.5	3.8	6.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	5.5	6.8	2.5	2.3	2.2
All Cargo Logistics CFS, Navi Mumbai	-	-	-	-	-
Ocean Gate CFS, Panvel	8.5	9.3	4.2	3.4	3.7
Ameya Logistics CFS, Navi Mumbai	11.2	11.2	3.4	4.5	2.6
APM (Maersk India) CFS, Navi Mumbai	2.7	6.2	2.6	2.4	3.0
Seabird CFS, Navi Mumbai	5.5	10.0	2.4	2.8	3.0
Continental Warehousing CFS, Navi Mumbai	2.5	6.0	2.2	2.2	2.1
Indev Logistics CFS, Panvel	8.7	9.5	7.6	5.4	5.3
SBW Logistics CFS, Navi Mumbai	-	11.8	7.1	12.3	9.6
Balmer & Lawrie CFS, Navi Mumbai	7.7	9.8	1.7	3.5	2.9
CWC Dronagiri CFS, Navi Mumbai	7.4	4.9	5.6	2.5	-
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	Sept'19 (in hrs)
Speedy Multimode CFS, JNPT	2.8
Dronagiri Rail Terminal CFS, Navi Mumbai	3.0
Maharashtra State Corp CFS	2.1
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	7.7
International Cargo Terminal CFS	3.7
CWC Hind Terminal CFS, Navi Mumbai	2.9
Navkar Corporation Yard 2 CFS, Panvel	6.4
Punjab Conware CFS, Navi Mumbai	3.6
JWC Logistics Park CFS	7.7
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	11.4
Vaishno Logistics CFS, Navi Mumbai	4.0
Gateway Distriparks CFS, Navi Mumbai	4.0
Transindia Logistics Park, Navi Mumbai	5.2
Ashte Logistics CFS, Panvel	5.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.4
All Cargo Logistics CFS, Navi Mumbai	3.0
Ocean Gate CFS, Panvel	5.9
Ameya Logistics CFS, Navi Mumbai	3.5
APM (Maersk India) CFS, Navi Mumbai	3.3
Seabird CFS, Navi Mumbai	4.3
Continental Warehousing CFS, Navi Mumbai	2.6
Indev Logistics CFS, Panvel	8.6
SBW Logistics CFS, Navi Mumbai	8.3
Balmer & Lawrie CFS, Navi Mumbai	4.2
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	6.4

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'19 (in hrs)
Speedy Multimode CFS, JNPT	1.8
Dronagiri Rail Terminal CFS, Navi Mumbai	4.0
Maharashtra State Corp CFS	4.4
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	6.2
International Cargo Terminal CFS	3.4
CWC Hind Terminal CFS, Navi Mumbai	2.7
Navkar Corporation Yard 2 CFS, Panvel	6.1
Punjab Conware CFS, Navi Mumbai	4.0
JWC Logistics Park CFS	6.9
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	8.4
Vaishno Logistics CFS, Navi Mumbai	4.1
Gateway Distriparks CFS, Navi Mumbai	3.5
Transindia Logistics Park, Navi Mumbai	4.3
Ashte Logistics CFS, Panvel	5.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.9
All Cargo Logistics CFS, Navi Mumbai	5.7
Ocean Gate CFS, Panvel	5.6
Ameya Logistics CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	2.9
Seabird CFS, Navi Mumbai	3.6
Continental Warehousing CFS, Navi Mumbai	2.4
Indev Logistics CFS, Panvel	7.9
SBW Logistics CFS, Navi Mumbai	6.7
Balmer & Lawrie CFS, Navi Mumbai	3.7
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	5.0

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'19 (in hrs)
Speedy Multimode CFS, JNPT	2.0
Dronagiri Rail Terminal CFS, Navi Mumbai	2.3
Maharashtra State Corp CFS	41.5
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	11.5
International Cargo Terminal CFS	3.2
CWC Hind Terminal CFS, Navi Mumbai	2.7
Navkar Corporation Yard 2 CFS, Panvel	8.3
Punjab Conware CFS, Navi Mumbai	4.0
JWC Logistics Park CFS	7.1
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	10.5
Vaishno Logistics CFS, Navi Mumbai	1.0
Gateway Distriparks CFS, Navi Mumbai	4.2
Transindia Logistics Park, Navi Mumbai	4.0
Ashte Logistics CFS, Panvel	9.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.4
All Cargo Logistics CFS, Navi Mumbai	2.2
Ocean Gate CFS, Panvel	11.5
Ameya Logistics CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.6
Seabird CFS, Navi Mumbai	3.6
Continental Warehousing CFS, Navi Mumbai	2.0
Indev Logistics CFS, Panvel	11.3
SBW Logistics CFS, Navi Mumbai	11.5
Balmer & Lawrie CFS, Navi Mumbai	4.4
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	12.8

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

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

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

CFS	Sept'19 (in hrs)
Speedy Multimode CFS, JNPT	2.4
Dronagiri Rail Terminal CFS, Navi Mumbai	3.7
Maharashtra State Corp CFS	20.0
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	5.6
International Cargo Terminal CFS	3.6
CWC Hind Terminal CFS, Navi Mumbai	2.9
Navkar Corporation Yard 2 CFS, Panvel	6.4
Punjab Conware CFS, Navi Mumbai	3.4
JWC Logistics Park CFS	9.0
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	10.2
Vaishno Logistics CFS, Navi Mumbai	4.4
Gateway Distriparks CFS, Navi Mumbai	4.5
Transindia Logistics Park, Navi Mumbai	3.8
Ashte Logistics CFS, Panvel	7.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.0
All Cargo Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	5.8
Ameya Logistics CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.4
Seabird CFS, Navi Mumbai	4.2
Continental Warehousing CFS, Navi Mumbai	1.8
Indev Logistics CFS, Panvel	10.2
SBW Logistics CFS, Navi Mumbai	4.8
Balmer & Lawrie CFS, Navi Mumbai	3.3
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	6.0

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	Sept'19 (in hrs)
Speedy Multimode CFS, JNPT	2.1
Dronagiri Rail Terminal CFS, Navi Mumbai	2.3
Maharashtra State Corp CFS	1.4
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	5.1
International Cargo Terminal CFS	3.8
CWC Hind Terminal CFS, Navi Mumbai	3.3
Navkar Corporation Yard 2 CFS, Panvel	5.9
Punjab Conware CFS, Navi Mumbai	3.1
JWC Logistics Park CFS	8.0
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	7.6
Vaishno Logistics CFS, Navi Mumbai	3.1
Gateway Distriparks CFS, Navi Mumbai	4.5
Transindia Logistics Park, Navi Mumbai	4.6
Ashte Logistics CFS, Panvel	6.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.3
All Cargo Logistics CFS, Navi Mumbai	3.7
Ocean Gate CFS, Panvel	4.6
Ameya Logistics CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	3.5
Seabird CFS, Navi Mumbai	3.0
Continental Warehousing CFS, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	8.9
SBW Logistics CFS, Navi Mumbai	5.7
Balmer & Lawrie CFS, Navi Mumbai	4.1
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	4.1

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 Sept'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	2.8	6.2
Cluster 2	6	13	3.6	8.0
Cluster 3	6	11	3.0	7.1
Cluster 4	1	13	2.0	4.1
Cluster 5	2	25	6.8	8.9
Cluster 6	6	25	7.1	11.3
Cluster 7	4	12	3.3	7.1
Cluster 8	1	34	8.3	11.8

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Sept'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	3.7
Cluster 2	6	13	3.1	6.5
Cluster 3	6	11	4.0	5.8
Cluster 4	1	13	2.1	3.1
Cluster 5	2	25	6.2	7.2
Cluster 6	6	25	6.2	8.3
Cluster 7	4	12	3.5	3.6
Cluster 8	1	34	6.7	-

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'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	2.0	2.3
Cluster 2	6	13	3.3	2.6
Cluster 3	6	11	3.6	2.5
Cluster 4	1	13	0.5	1.7
Cluster 5	2	25	9.3	3.8
Cluster 6	6	25	10.9	7.9
Cluster 7	4	12	2.7	2.4
Cluster 8	1	34	11.5	7.1

CFS Cluster : NSIGT Terminal

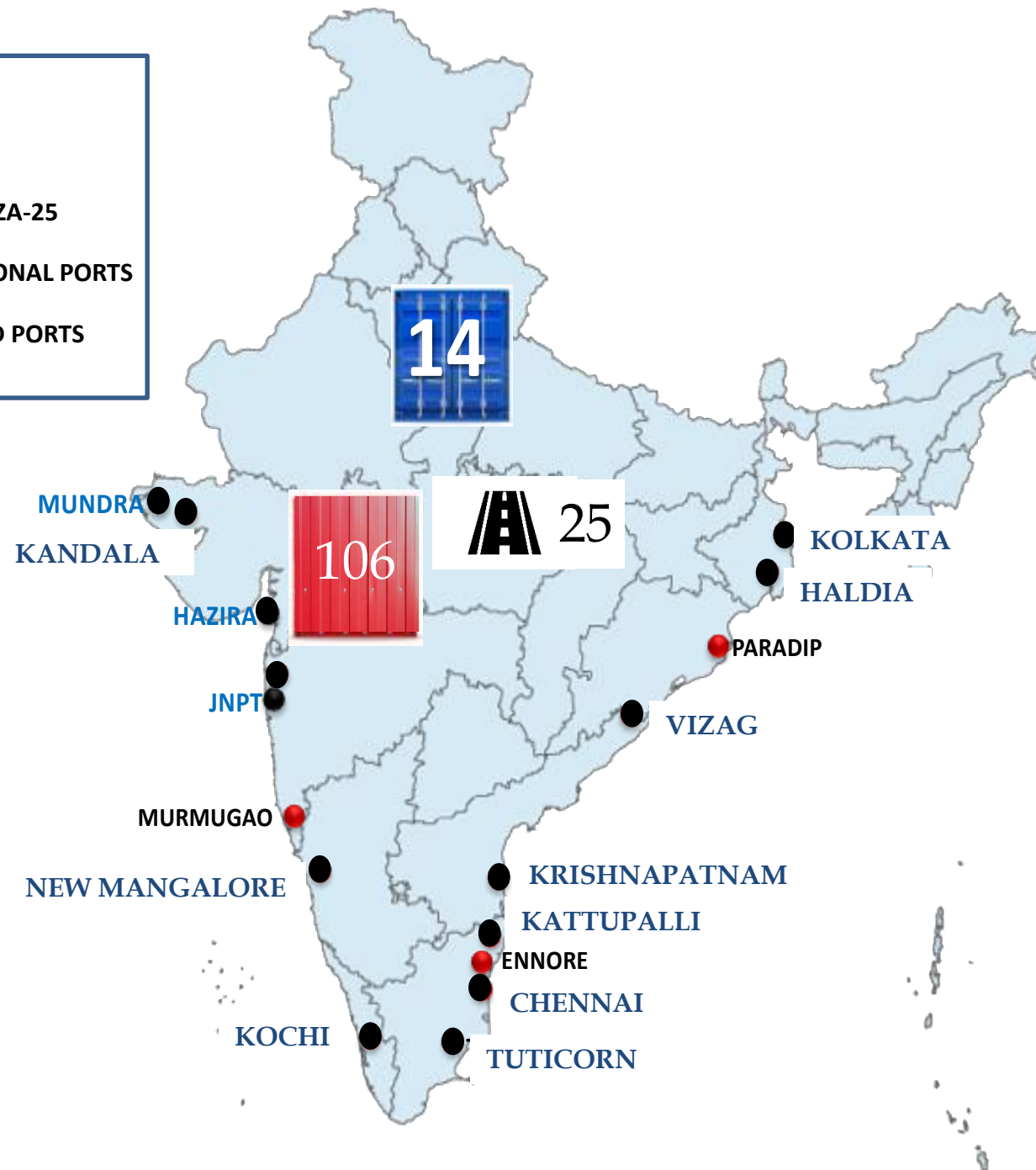
JNPCT terminal for month of Sept'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.4	1.7
Cluster 2	6	13	3.2	3.0
Cluster 3	6	11	3.7	2.7
Cluster 4	1	13	2.2	2.1
Cluster 5	2	25	7.4	3.4
Cluster 6	6	25	6.7	4.6
Cluster 7	4	12	2.2	2.3
Cluster 8	1	34	4.8	12.3

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Sept'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	2.1	2.0
Cluster 2	6	13	3.6	3.0
Cluster 3	6	11	2.3	2.5
Cluster 4	1	13	0.0	0.0
Cluster 5	2	25	6.3	4.1
Cluster 6	6	25	6.4	5.7
Cluster 7	4	12	3.4	2.4
Cluster 8	1	34	5.7	9.6

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	16	Maersk Annex (APM)CFS, Navi Mumbai
2	APM (Maersk India) CFS, Navi Mumbai	17	Maharashtra State Corp CFS
3	Apollo Logisolutions CFS, Panvel	18	Navkar Corporation Yard 1 CFS, Panvel
4	Ashte Logistics CFS, Panvel	19	Navkar Corporation Yard 2 CFS, Panvel
5	Balmer & Lawrie CFS, Navi Mumbai	20	Navkar Corporation Yard 3 CFS, Panvel
6	Continental Warehousing CFS, Navi Mumbai	21	Ocean Gate CFS, Panvel
7	CWC Hind Terminal CFS, Navi Mumbai	22	Punjab Conware CFS, Navi Mumbai
8	Dronagiri Rail Terminal CFS, Navi Mumbai	23	Sarveshwar CFS
9	EFC Logistics India	24	SBW Logistics CFS, Navi Mumbai
10	Gateway Distriparks CFS, Navi Mumbai	25	Seabird CFS, Navi Mumbai
11	Indev Logistics CFS, Panvel	26	Speedy Multimode CFS, JNPT
12	International Cargo Terminal CFS	27	Take Care Logistics CFS
13	International Cargo Terminals (ULA) CFS, Navi Mumbai	28	TG Terminals CFS
14	JWC Logistics Park CFS	29	Transindia Logistics Park, Navi Mumbai
15	JWR CFS	30	Vaishno Logistics CFS, Navi Mumbai



THANK YOU