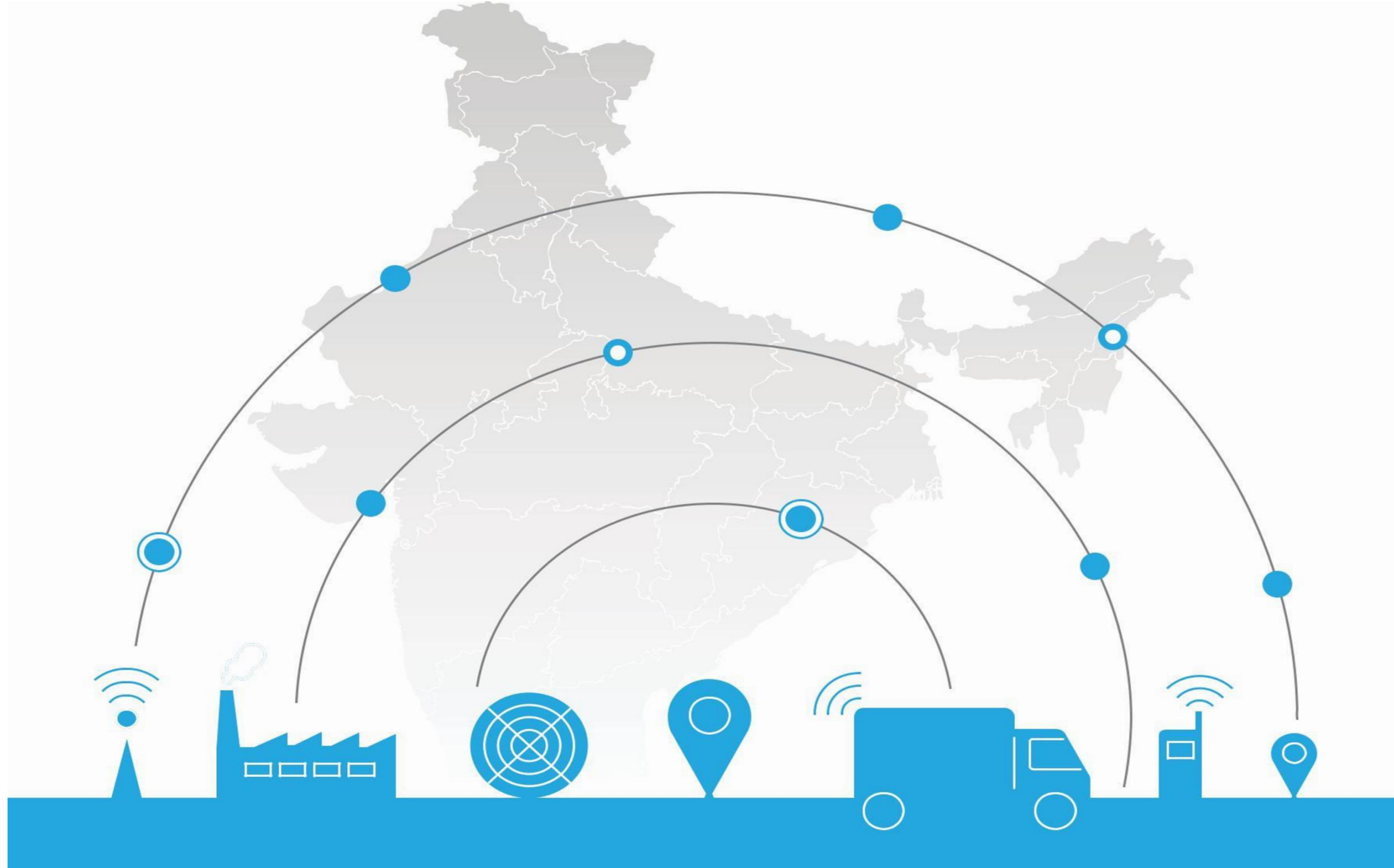


Logistics Databank Analytics Report- September 2018



JNPT Port Terminals

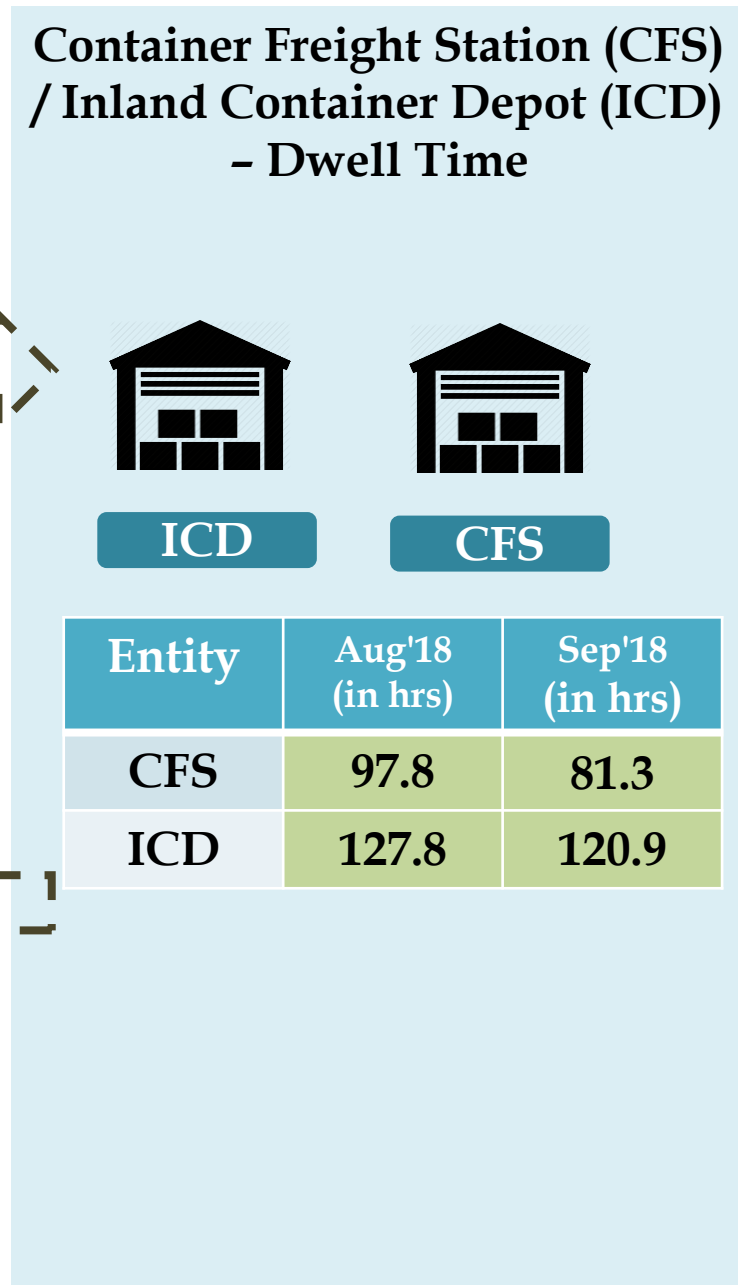
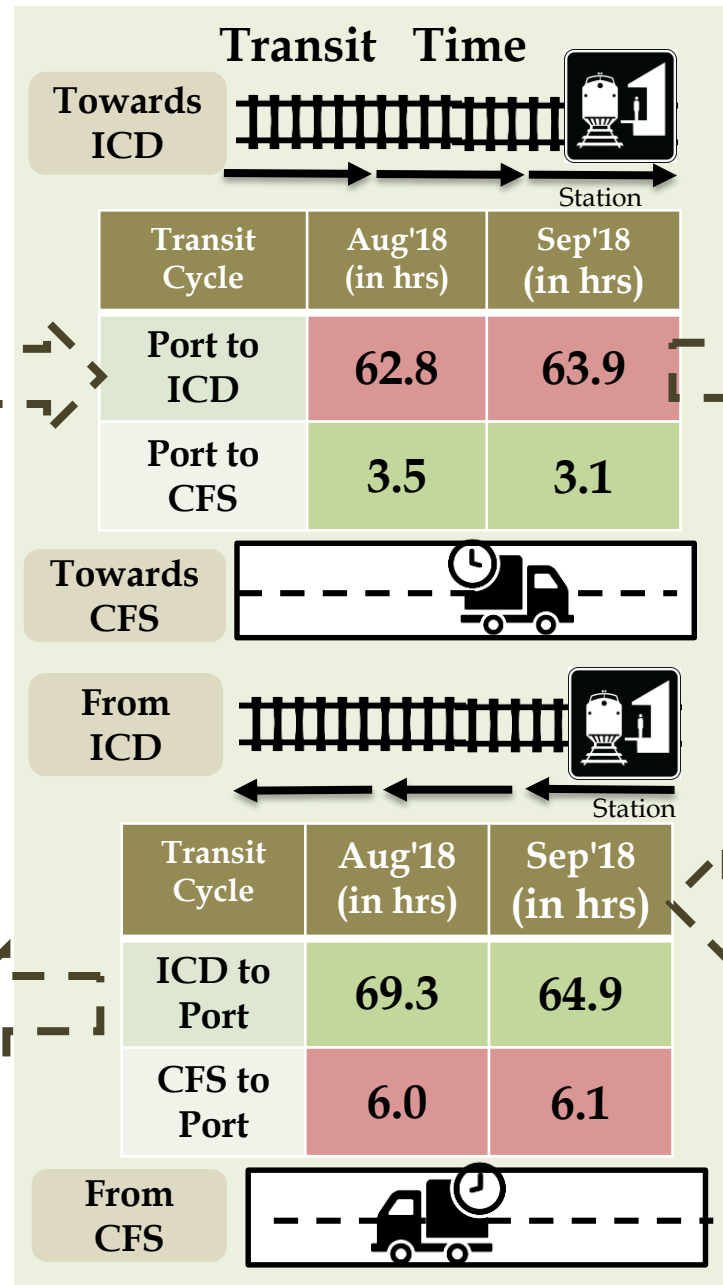
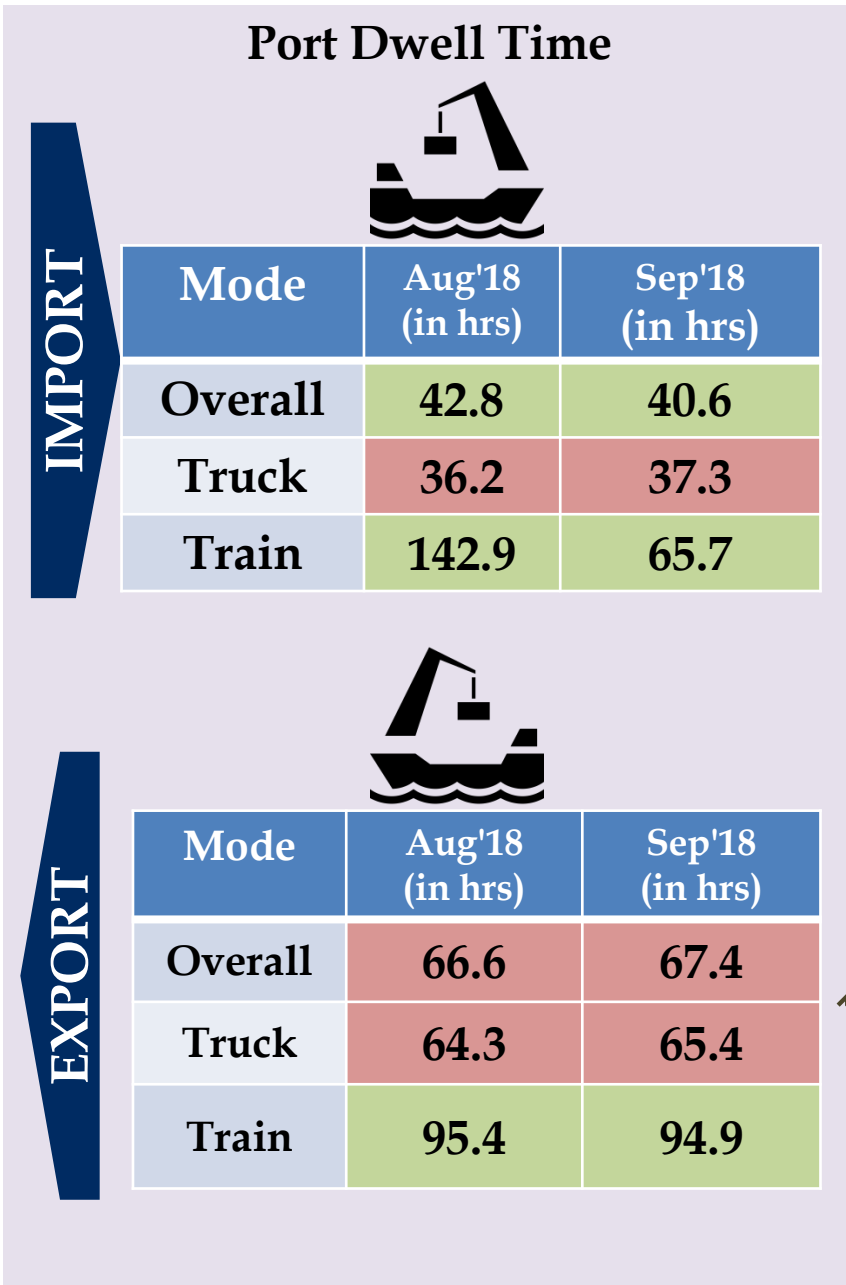
- Significant improvement has been seen in the Dwell time performance of Rail bound Import container handling across the port terminals of JNPT as below:
 - **54% improvement based on a Month-on-Month Analysis (Aug'18 vs Sep'18)**
 - **34% improvement based on Year-on-Year Analysis (Sep'17 vs Sep'18)**
- Dwell time performance of CFS around JNPT region has improved by 17% (81.3 hrs in Sep'18 from 97.8 hrs in August'18)

CFS Dwell Time Performance	Month
81.3 hours	Sep'18
97.8 hours	Aug'18

- Dwell time performance of Direct Port Delivery(DPD) container has increased by 18% as compared to previous month. (53.2 hrs in Sep'18 from 65.0 hrs in Aug'18)

DPD Dwell Time	Month
53.2 Hours	Sep'18
65 Hours	Aug'18

Container Lifecycle (Import Cycle)



Green The marked entries showcase the increase in performance as compared to previous month

Red The marked entries showcase the decrease in performance as compared to previous month

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

IMPORT CYCLE (Sep'18 - in hrs)			Compared to Aug18	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	40.6	5%	↑
	Port Dwell Time for Truck Bound Containers	37.3	3%	↓
	Port Dwell time for Train Bound Containers	65.7	54%	↑
	Port Dwell time Direct Port Delivery (DPD) containers	53.2	18%	↑
	Port Dwell time Containers bound for CFS	34.2	6%	↓
	Port Dwell time Containers bound for ICD	53.7	65%	↑
TRANSIT TIME	Port to ICD	63.9	2%	↓
	Port to CFS	3.1	13%	↑

EXPORT CYCLE (Sep'18- in hrs)			Compared to Aug18	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	67.4	1%	↓
	Port Dwell Time for Truck Bound Containers	65.4	2%	↓
	Port Dwell time for Train Bound Containers	94.9	1%	↑
	Port Dwell time Direct Port Entry (DPE) containers	65.5	5%	↓
	Port Dwell time Containers bound from CFS	63.7	2%	↑
	Port Dwell time Containers bound from ICD	91.2	5%	↑
TRANSIT TIME	ICD to Port	64.9	6%	↑
	CFS to Port	6.1	2%	↓

↑↓ The arrows depict increase/decrease in performance of the stakeholders as compared to previous month

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

IMPORT

Port Dwell time based on transit type			
September'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time	53.2 hrs	34.2 hrs	53.7 hrs

Port Dwell time based on container type				
September'18	Laden Containers		Empty Containers	
Dwell time	40.4 hrs	7% ↓	55.5 hrs	50% ↓

EXPORT

Port Dwell time based on transit type			
September'18	Direct Port Export Containers	Containers bound from CFS	Containers bound from ICD
Dwell time	65.5	63.7	91.2

Port Dwell time based on container type				
September'18	Laden Containers		Empty Containers	
Dwell time	65.3 hrs	2% ↓	66.9 hrs	2% ↓

↓↑ The arrows depict increase/decrease in performance of the stakeholders compared to previous month



Performance Benchmarking - Port Terminals



Performance benchmarking for Port Terminals covered under LDB project for September'18

Top Performing Terminal

Gateway Terminals India (GTI)

Aug'18	Sep'18
54.5 hrs	51.6 hrs

Avg. Port Dwell Time
54.6 hrs

Low Performing Terminal

Adani CMA Mundra Terminal (ACMTTL)

Aug'18	Sep'18
90.2 hrs	85.7 hrs

Note: The performance benchmarking is based on performance index

The arrows depict increase/decrease in overall performance of the stakeholders as compared to previous month

Performance Index-Port Terminals

In order to assess the relative performance of Port terminals, 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

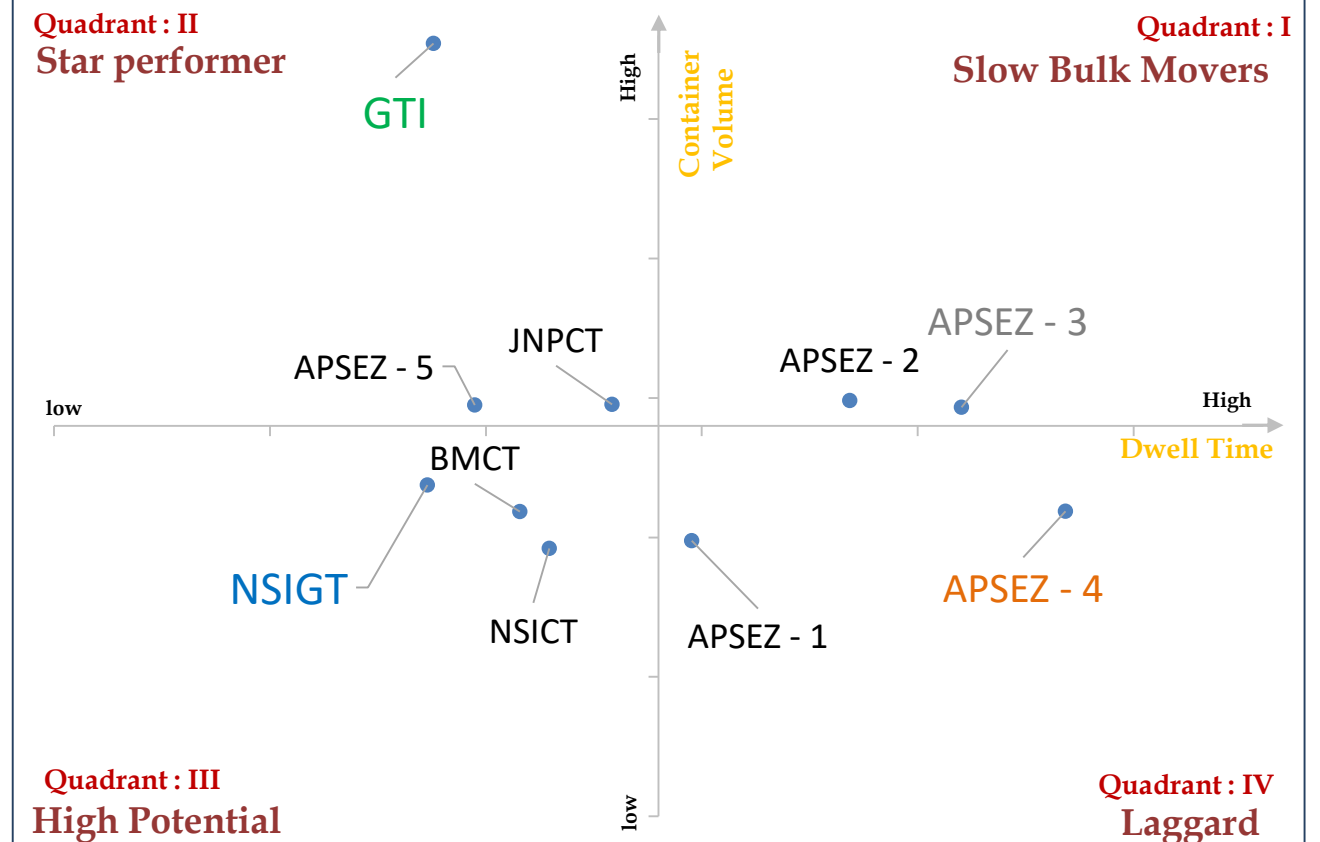
Star Performer: consist of Ports which have catered relatively high container volume in lower dwell time

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


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


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

Port Terminal Performance Index : Sep'18





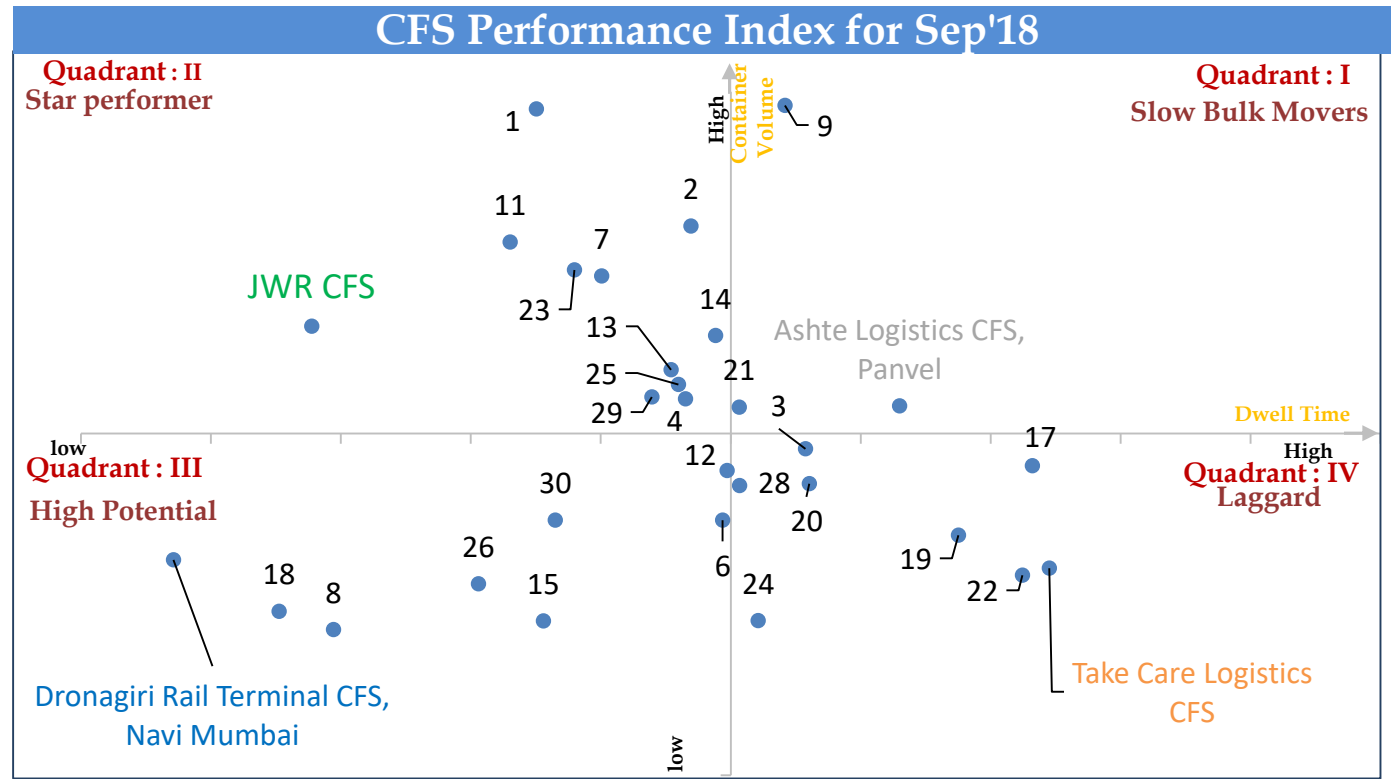
Performance benchmarking for CFS covered under LDB project for September'18

Top Performing CFS	
JWR CFS	
Aug'18	Sep'18
60.0 hrs	58.9 hrs 

Low Performing CFS	
Take Care Logistics CFS	
Aug'18	Sep'18
122.3 hrs	106.3 hrs 

Note: The performance benchmarking is based on performance index

  The arrows depict increase/decrease in overall performance of the stakeholders as compared to previous month



Performance Benchmarking - ICD(s)

Performance benchmarking for ICDs covered under LDB project for September'18

Top Performing Terminal

CONCOR ICD, Dadri

Aug'18	Sep'18
117.4 hrs	120.6 hrs



Low Performing Terminal

CONCOR ICD, Aurangabad

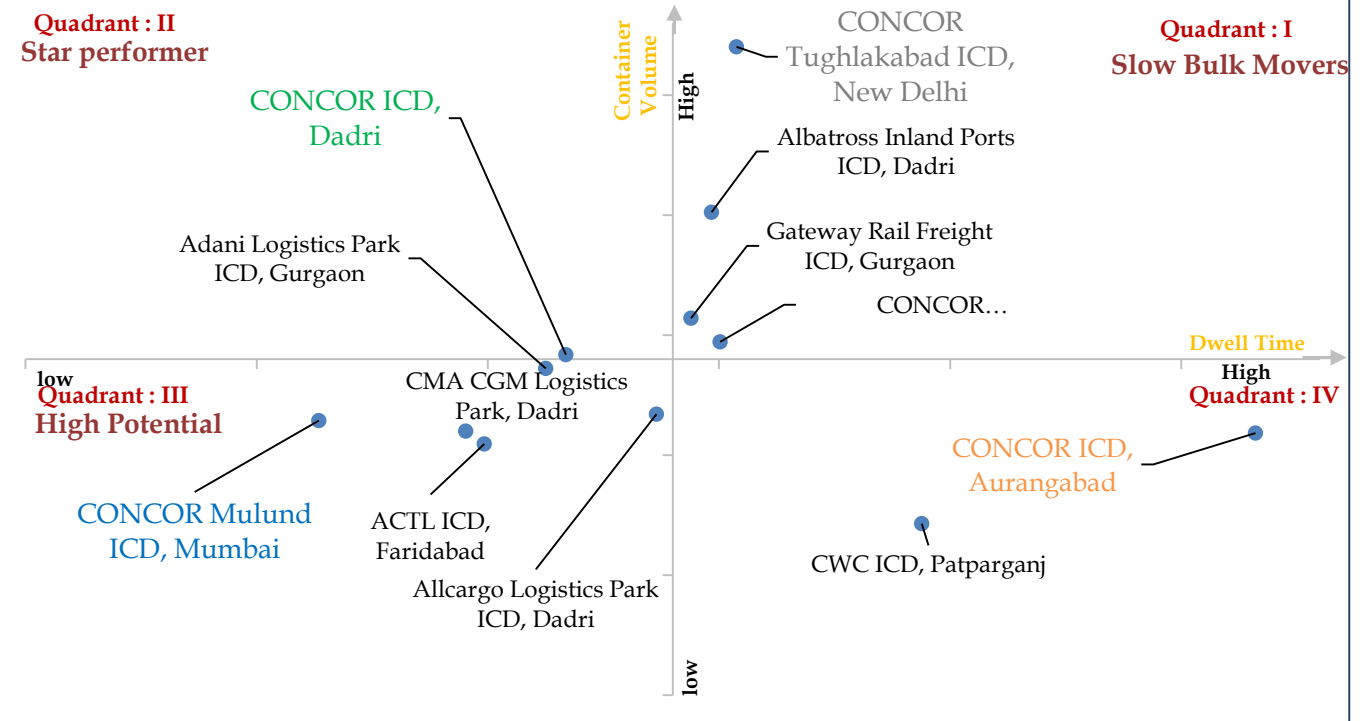
Aug'18	Sep'18
164.5 hrs	211.0 hrs



Note: The performance benchmarking is based on performance index

↑↓ The arrows depict increase/decrease in overall performance of the stakeholders as compared to previous month

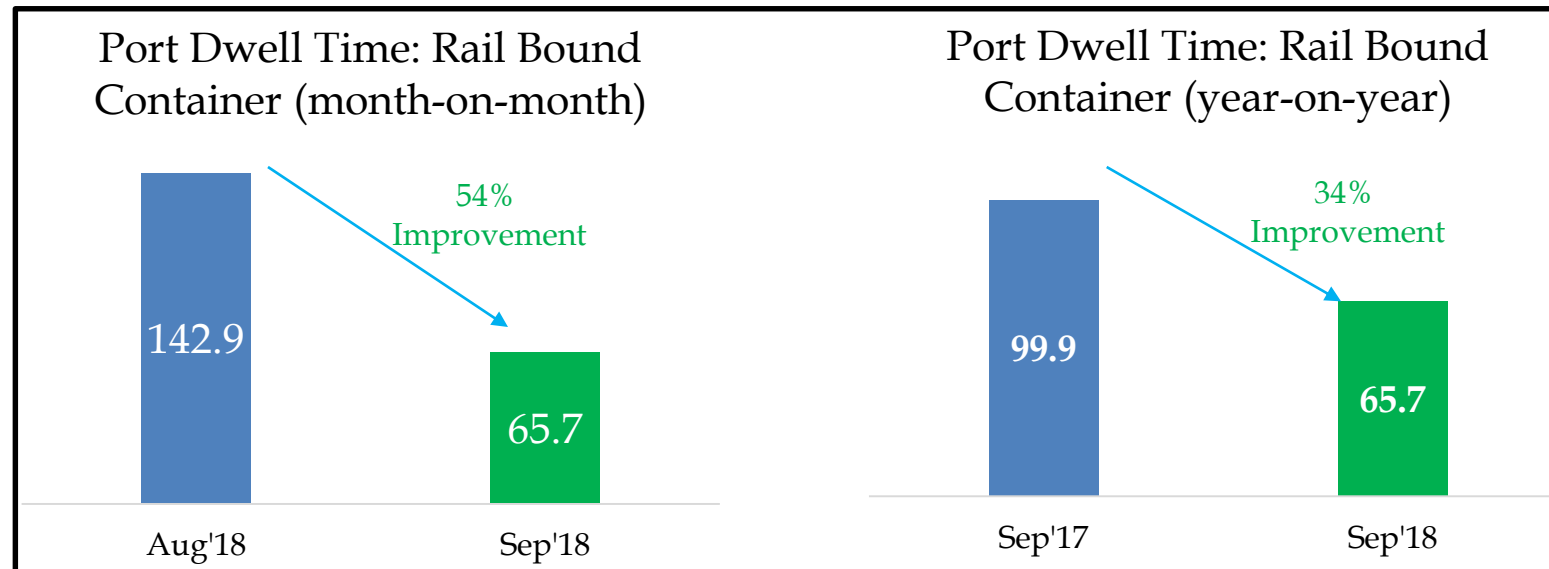
ICD Performance Index for Sep'18



KEY FINDINGS

Rail Bound Container Analysis: JNPT Port

There has been a significant improvement in handling rail bound containers at JNPT port in Sep'18 as compared to previous months, further analysis has been done to understand its impact on container import lifecycle



Improvement in Container Import Lifecycle (rail bound)

This improvement has made **positive impact on container import lifecycle** (via rail).

AVERAGE CONTAINER IMPORT LIFECYCLE TIME (via RAIL)

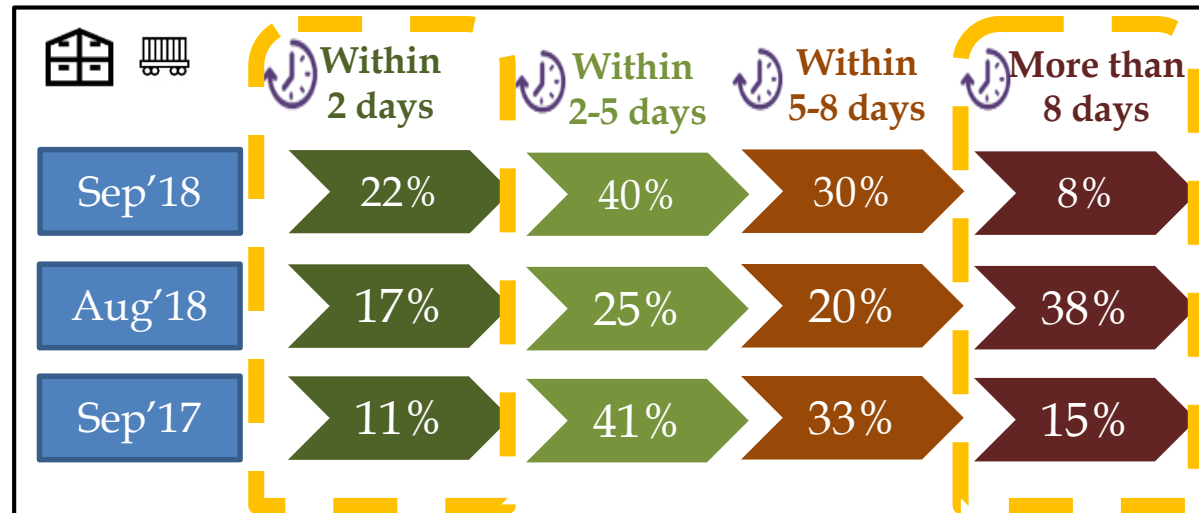
Import Cycle	Aug'18 (in days)	Sep'17 (in days)	Sep'18 (in days)
	13.9	11.9	10.4

This has led to **25%** and **12%** of **improvement** respectively in **month-on-month & year-on-year** import lifecycle performance

Container import lifecycle = Port Dwell Time + Port to ICD Delivery Time + ICD Dwell Time

Impact

There has been an increase in number of containers getting cleared from port within 2 days. Also, there has been significant reduction in number of containers taking more than 8 days to get cleared from port



Import Cycle Analysis

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

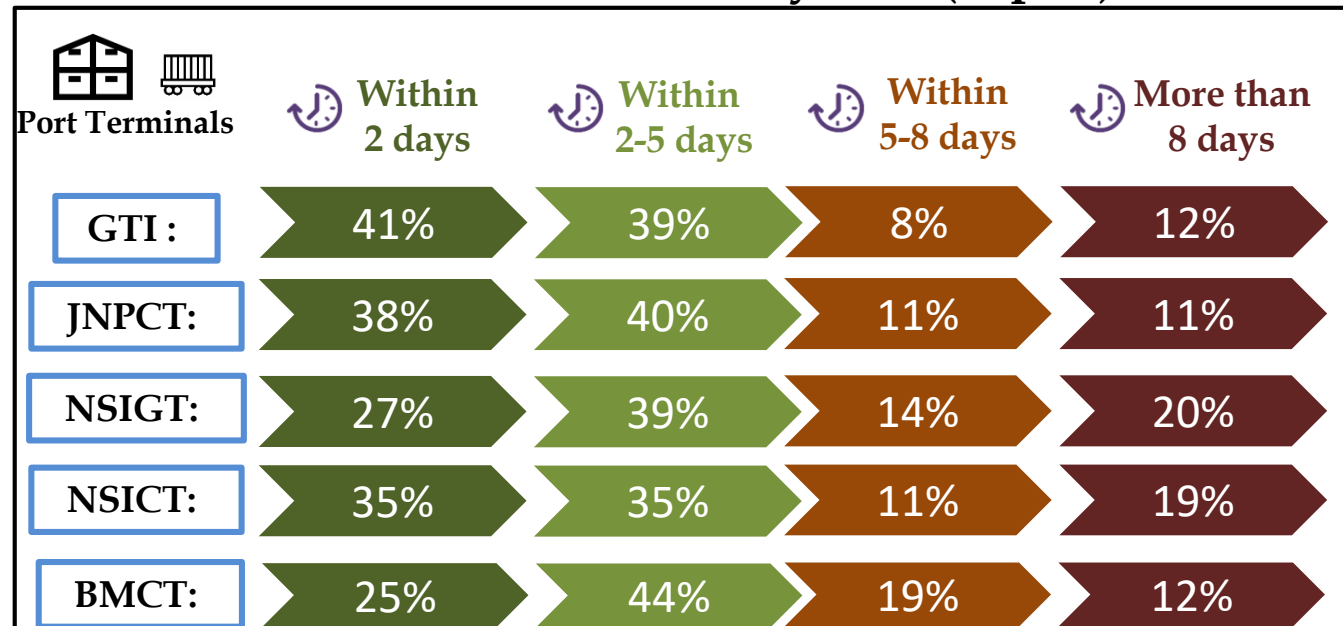
PORT IMPORT via TRAIN

(17% 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'18 (in hrs)	Sep'18 (in hrs)
GTI	153.8	57.7
JNPCT	66.2	62.0
NSIGT	201.1	86.4
NSICT	169.7	73.4
BMCT	110.9	86.8

Container Handled: Day wise (Sep'18)



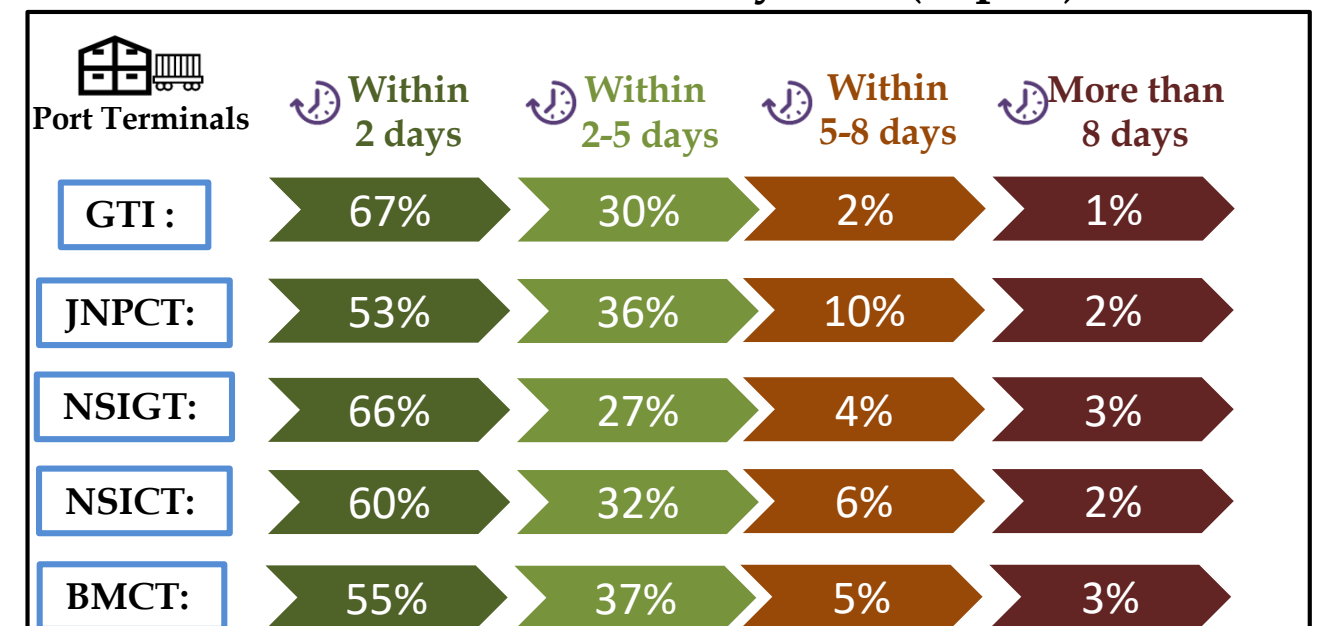
PORT IMPORT via TRUCK

(83% 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'18 (in hrs)	Sep'18 (in hrs)
GTI	34.0	34.0
JNPCT	37.3	45.0
NSIGT	35.5	34.6
NSICT	42.6	39.5
BMCT	37.8	42.5

Container Handled: Day wise (Sep'18)



The below tables depict the detailed JNPT region port performance in the month of September'18

JNPCT			
Port Dwell time based on transit type			
Sep'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	47.8 hrs	42.5 hrs	46.2 hrs
Port Dwell time based on container type			
Sep'18	Laden Containers	Empty Containers	
Dwell time (in hrs)	48.5 hrs	53.8 hrs	

GTI			
Port Dwell time based on transit type			
Sep'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	52.0 hrs	32.4 hrs	49.1 hrs
Port Dwell time based on container type			
Sep'18	Laden Containers	Empty Containers	
Dwell time (in hrs)	37.2 hrs	46.7 hrs	

The below tables depict the detailed JNPT region port performance in the month of September'18

NSICT			
Port Dwell time based on transit type			
Sep'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	31.9 hrs	34.4 hrs	90.5 hrs

Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	47.5 hrs	50.9 hrs

NSIGT			
Port Dwell time based on transit type			
Sep'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	-	29.5 hrs	79.0 hrs

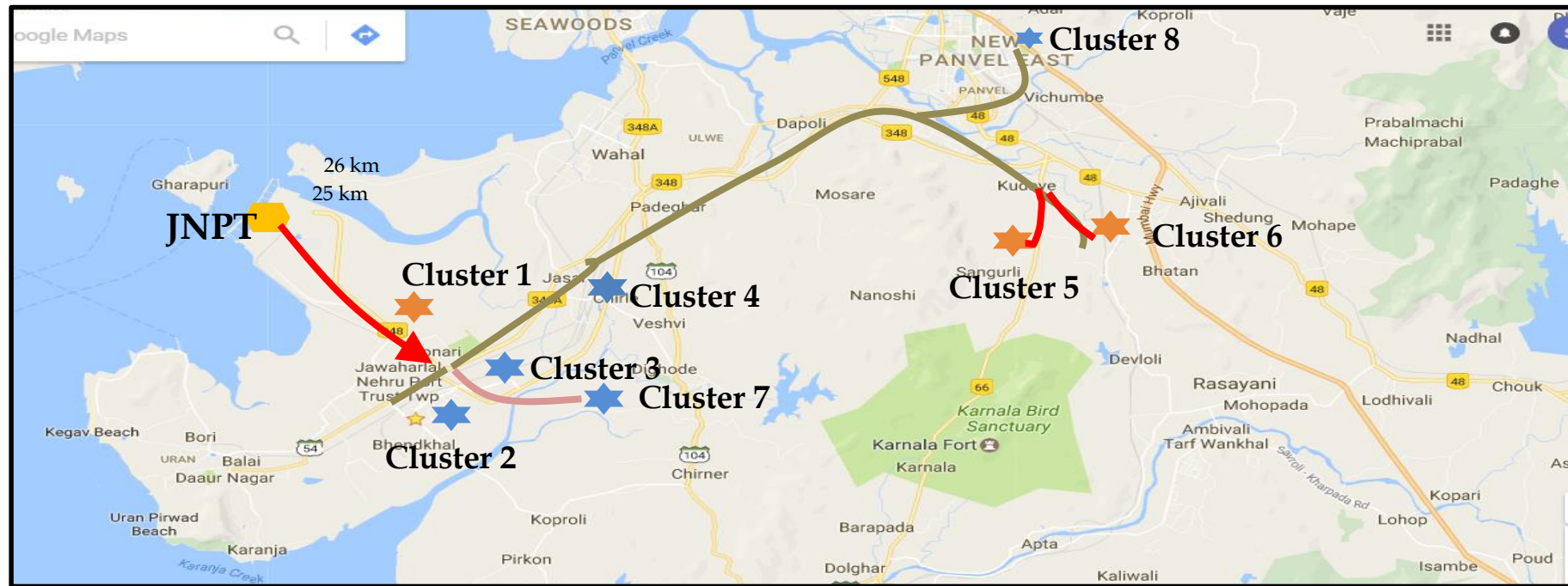
Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	38.6 hrs	49.4 hrs

BMCT			
Port Dwell time based on transit type			
Sep'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	69.5 hrs	37.4 hrs	58.9 hrs

Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	42.8 hrs	94.9 hrs

JNPT Region Import Cycle: Congestion Analysis

The below figure shows the congestion around JNPT port in import cycle for Sep'18. The movement of containers from JNPT port to adjacent CFS(s) in import cycle has been analyzed. Based on the movement, congestion is highlighted in the area. The CFS(s) are divided into cluster based on their vicinity



Clusters with bottleneck	
Cluster 1	JNPT Y Junction Area
Cluster 5	Plaspa area, Coachi kanyakumari Highway
Cluster 6	Salvaapta rd area, Bangalore highway

Clusters without bottleneck	
Cluster 2	Bhendkhal area, Khopate road
Cluster 3	Sonari area, JNPT road
Cluster 4	Chirle area, JNPT road
Cluster 7	Patilpada area, Khopate JNPT road
Cluster 8	Taloja, Navi Mumbai

Note : Please find the respective CFS in each cluster in annexure section

Legends

- High Congestion (Red line)
- Medium Congestion (Green line)
- Low Congestion (Pink line)
- Cluster with bottleneck (Orange star)
- Cluster without bottleneck (Blue star)

Legends

- High Congestion (Red line)
- Medium Congestion (Green line)
- Low Congestion (Pink line)
- Cluster with bottleneck (Orange star)
- Cluster without bottleneck (Blue star)

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

Import Cycle :-

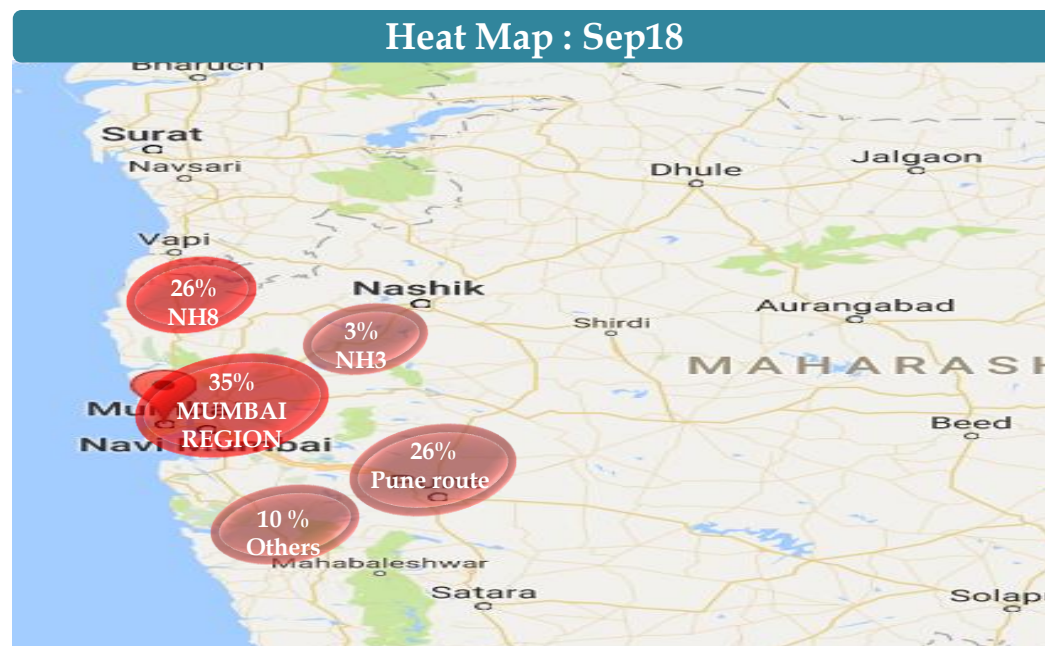
Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals
 2) Analysis consist of CFS covered under LDB project

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

Truck
HEAT MAP : OVERALL MUMBAI REGION

Region	Sep'18
Mumbai region	35%
NH3	3%
Pune	26%
NH8	26%
others	10%

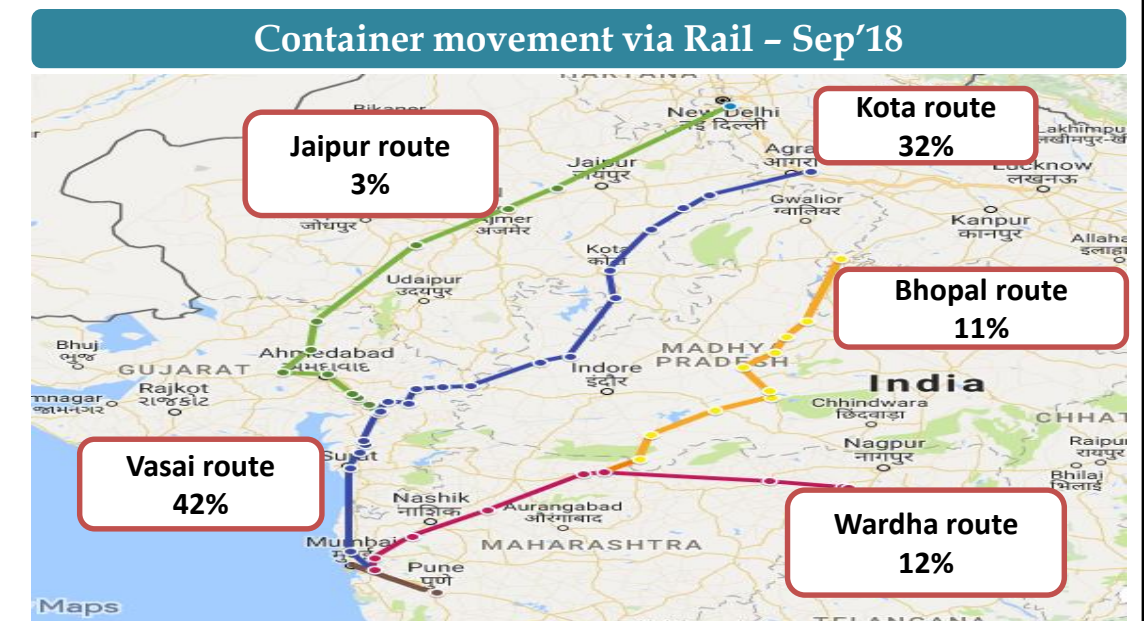
The figure depicts the movement of containers via truck in and around Mumbai region.



Train
VOLUME WISE CONTAINER MOVEMENT

Region	Sep'18
Vasai Route	42%
Jaipur Route	3%
Kota Route	32%
Bhopal Route	11%
Wardha Route	12%

The map shows the volume wise container movement through different railway routes in import cycle for Sep18

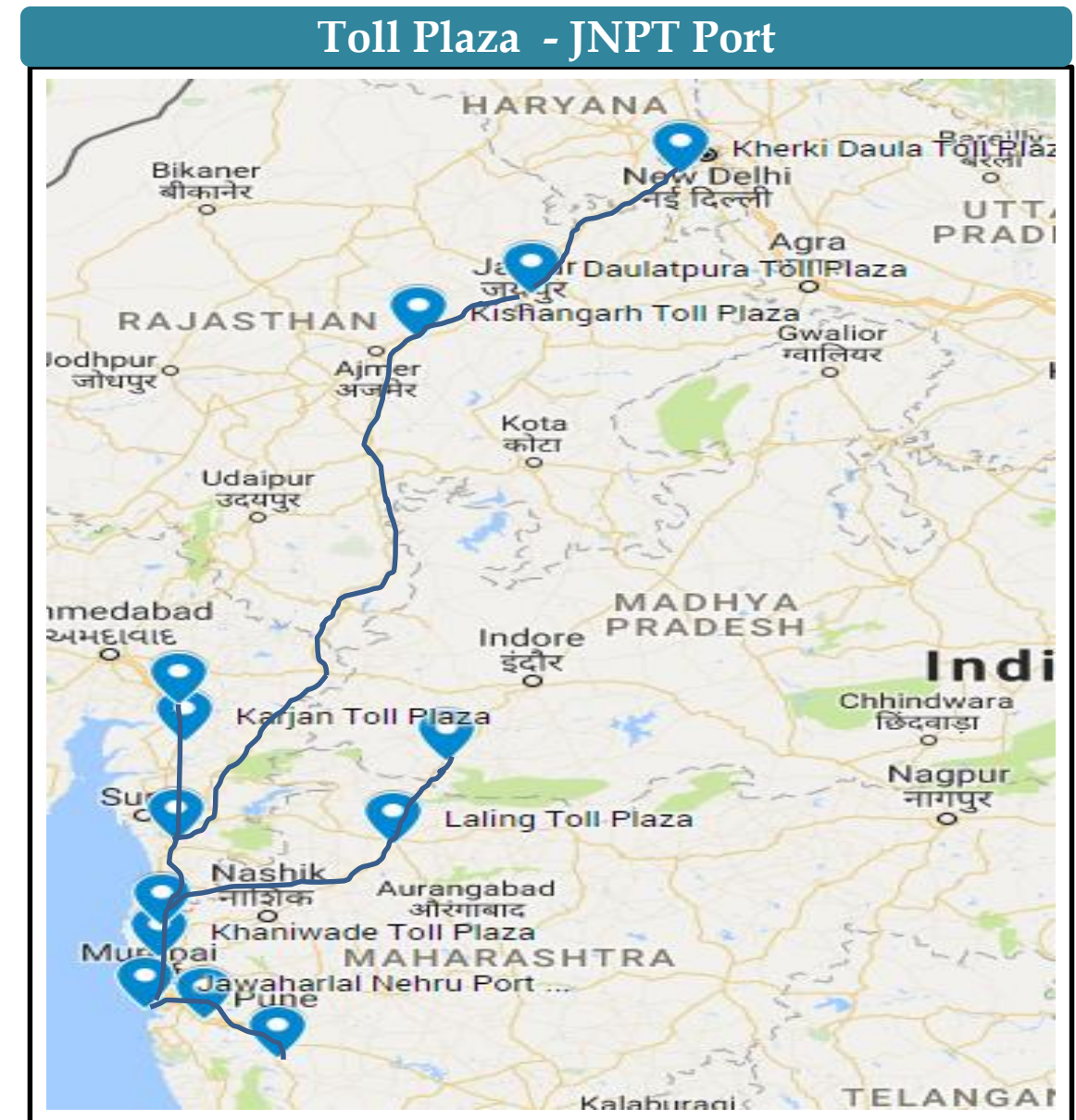


The below table depicts the container movement across the toll plazas connected with JNPT port. The movement is depicted in term of average speed by which container moved across these specific toll plaza routes

Avg. Travel Time & Speed between Toll Plazas (Sep'18)

Source	Destination Toll Plaza	Inter Distance (Km)	Aug18 Avg. Speed (Km/Hr.)	Sep'18 Avg. Speed (Km/Hr.)	
JNPT	Khaniwade	94	7.2	11.9	↑
JNPT	Khalapur	60	4.9	6.0	↑
Khaniwade	Charoti	50	31.2	36.2	↓
Charoti	Boriach	126	25.7	25.2	↓
Boriach	Bharthan	142	30.1	30.6	↑
Bharthan	Vasad	60	43.4	42.3	↓
Khalapur	Khedshivpur	105	26.8	28.6	↑
Daulatpura	Kherki	199	23.8	22.0	↓

↑↓ The arrows depict increase/decrease in overall performance of the stakeholders as compared to previous month



Export Cycle Analysis

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

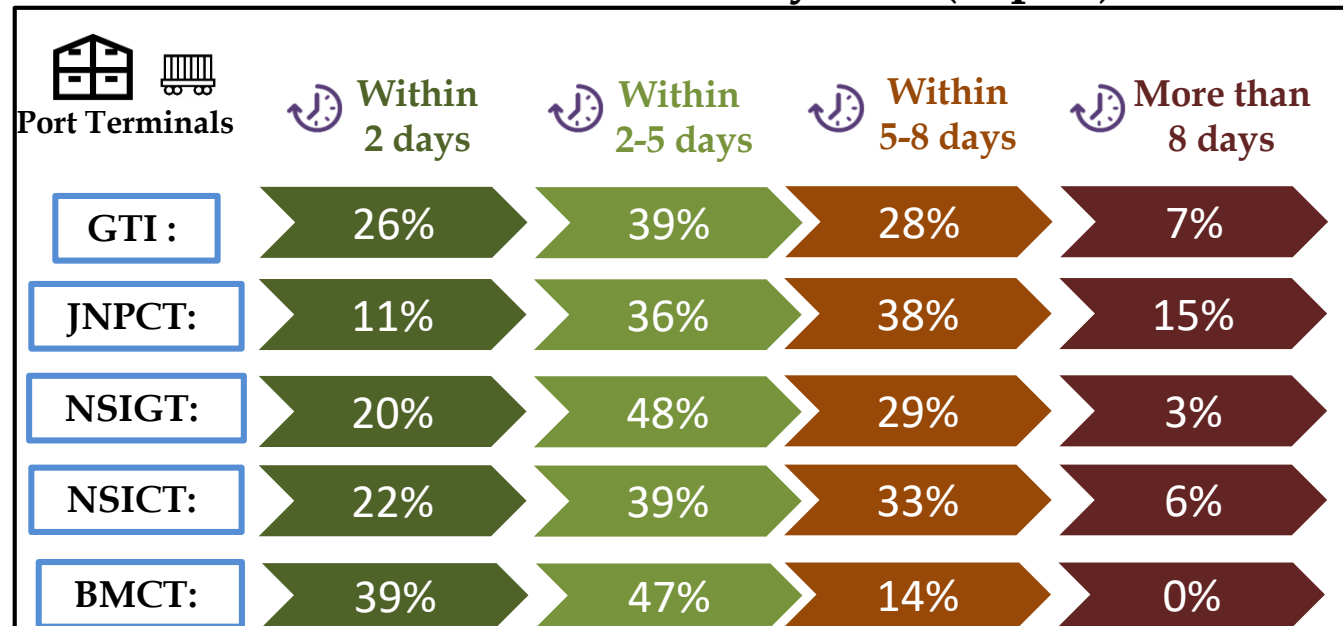
PORT EXPORT via TRAIN

(13% 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	Aug'18 (in hrs)	Sep18 (in hrs)
GTI	87.9	89.0
JNPCT	114.6	121.9
NSIGT	105.2	87.6
NSICT	105.7	97.3
BMCT	65.0	61.5

Container Handled: Day wise (Sep'18)



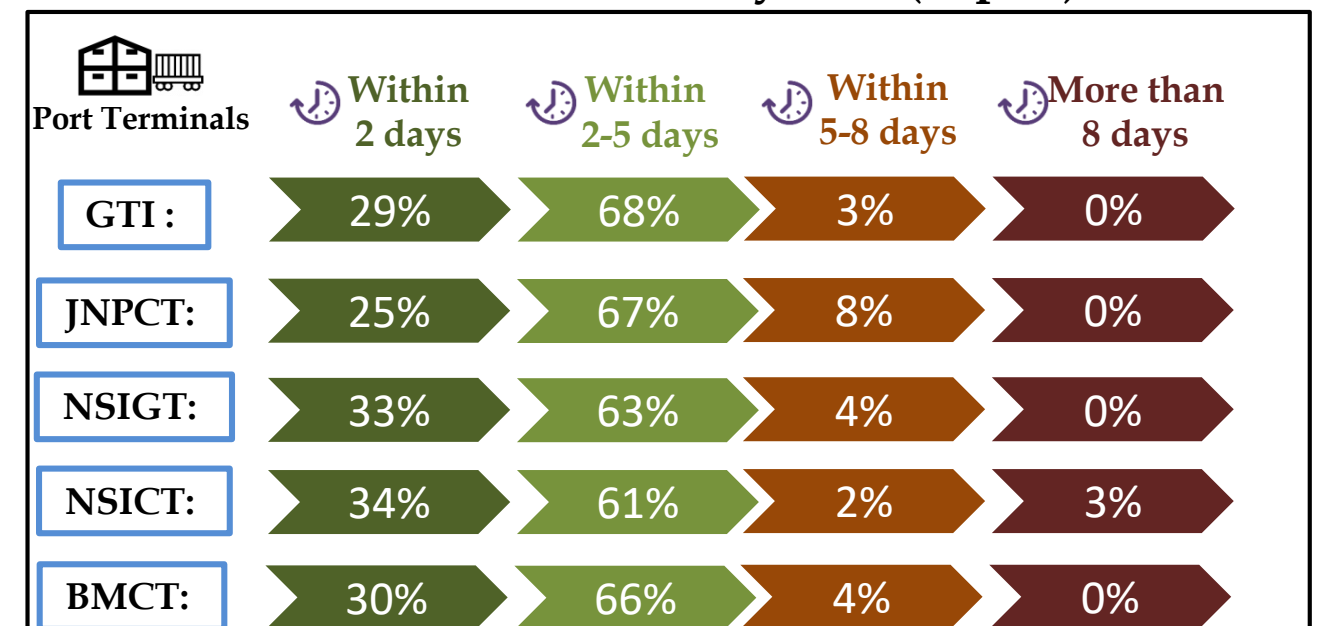
PORT EXPORT via TRUCK

(87% 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	Aug'18 (in hrs)	Sep18 (in hrs)
GTI	61.4	64.5
JNPCT	69.2	70.2
NSIGT	66.0	63.6
NSICT	61.5	64.7
BMCT	68.1	63.8

Container Handled: Day wise (Sep'18)



The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Sep'18

JNPCT

Port Dwell time based on transit type			
Sep'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	67.4 hrs	63.8 hrs	106.1 hrs

Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	66.4 hrs	74.8 hrs

GTI

Port Dwell time based on transit type			
Sep'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	65.0 hrs	64.4 hrs	92.2 hrs

Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	64.4 hrs	64.2 hrs

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Sep'18

NSICT			
Port Dwell time based on transit type			
Sep'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	-	59.1 hrs	104.2 hrs

Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	65.4 hrs	66.0 hrs

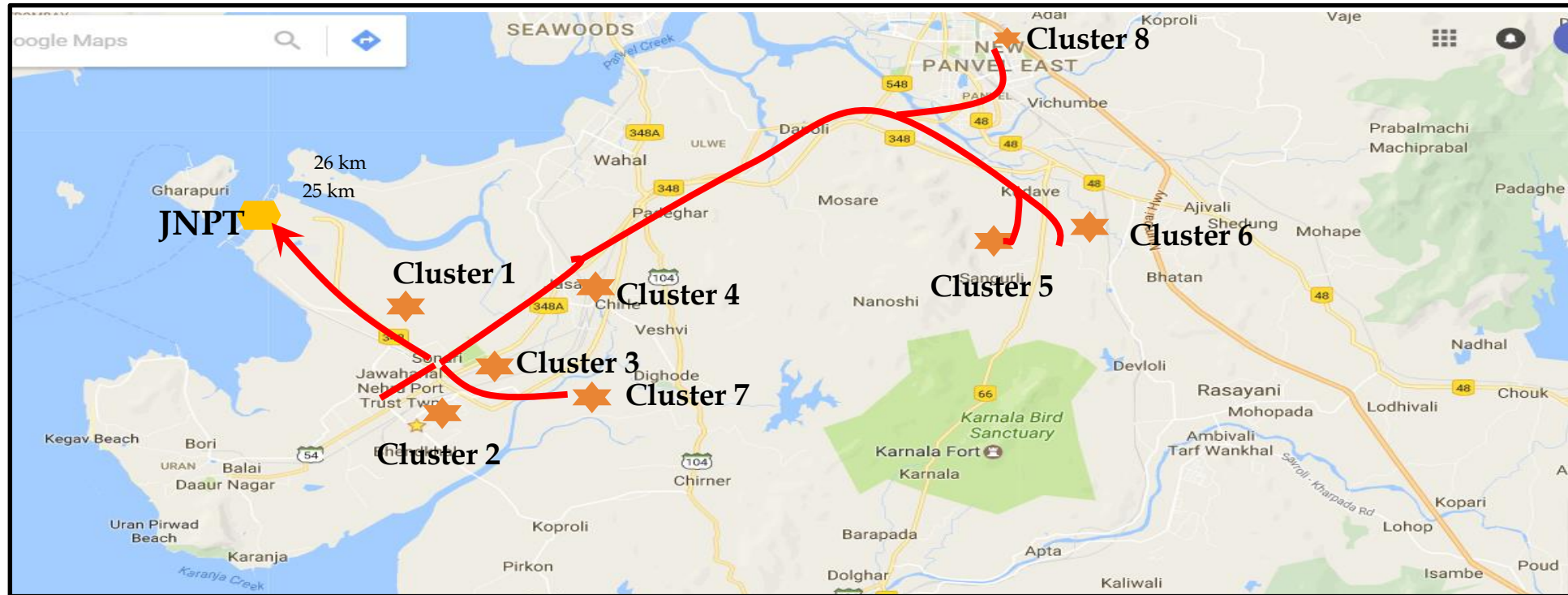
NSIGT			
Port Dwell time based on transit type			
Sep'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	-	65.2 hrs	84.8 hrs

Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	64.8 hrs	61.7 hrs

BMCT			
Port Dwell time based on transit type			
Sep'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	83.7 hrs	61.9 hrs	-

Port Dwell time based on container type		
Sep'18	Laden Containers	Empty Containers
Dwell time (in hrs)	68.1 hrs	59.0 hrs

The below figure shows the congestion around JNPT port in export cycle for Sept'18. The movement of containers from adjacent CFS(s) to JNPT port in export cycle has been analyzed. Based on the movement, congestion is highlighted in the area. The CFS(s) are divided into cluster based on their vicinity



Cluster 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, Coachi kanyakumari Highway
Cluster 6	Salva apta rd area, Bangalore highway
Cluster 7	Patilpada area, Khopate JNPT road
Cluster 8	Taloja, Navi Mumbai

Note : Please find the respective CFS in each cluster in annexure section

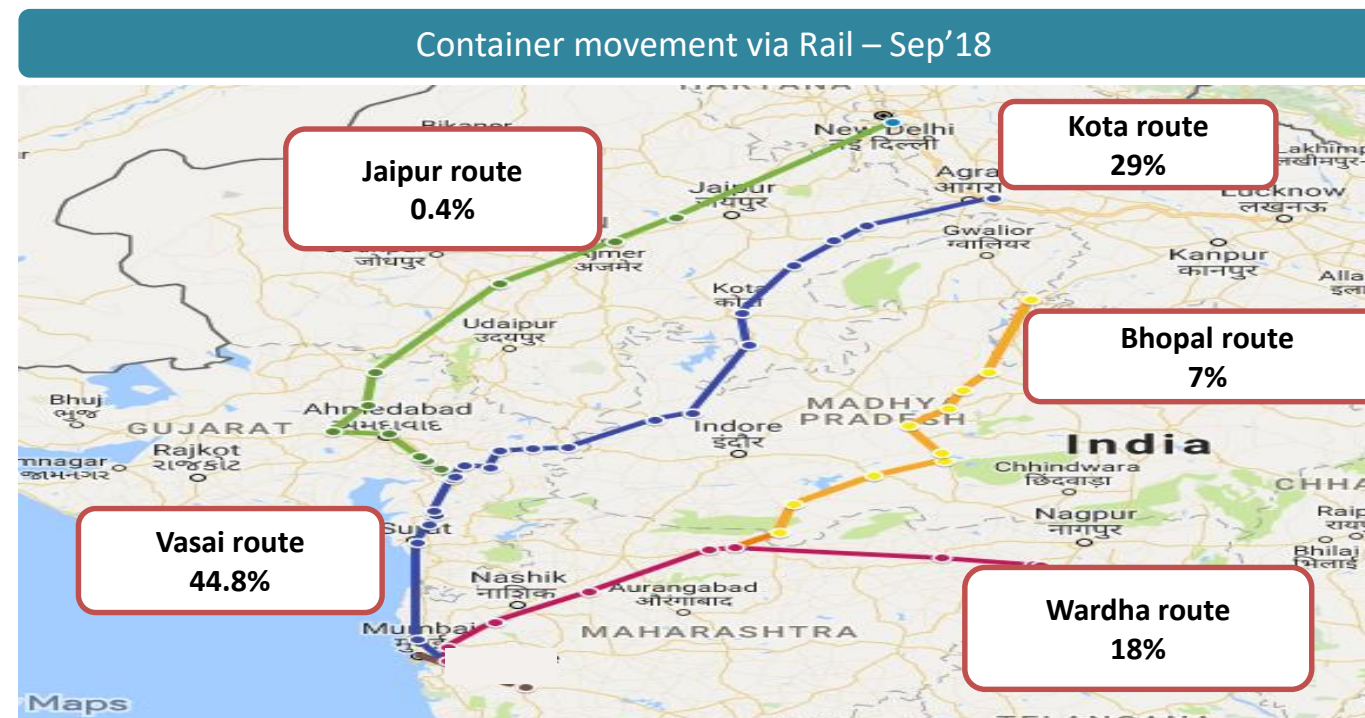
Legends High Congestion Medium Congestion Low Congestion Cluster with bottleneck Cluster without bottleneck	GTI Terminal Congestion Level Export Cycle :-	JNPCT Terminal Congestion Level Export Cycle :-	NSICT Terminal Congestion Level Export Cycle :-	NSIGT Terminal Congestion Level Export Cycle :-	BMCT 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

Container movement around JNPT Port terminal region via Train

To JNPT Port From	
Route	Percentage of Container Movement
Vasai Route	44.8%
Jaipur Route	0.4%
Kota Route	29%
Bhopal Route	7%
Wardha Route	18%

The map shows the volume wise container movement through different railway routes in export cycle for Sep'18



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 Sep'18

CFS Dwell Time (in hrs)					
CFS	Aug'18	Sep'18	CFS	Aug'18	Sep'18
All Cargo Logistics CFS, Navi Mumbai	89.7	73.3	JWR CFS	60.0	58.9
Ameya Logistics CFS, Navi Mumbai	108.2	83.2	Maersk Annex (APM)CFS, Navi Mumbai	103.6	105.2
APM (Maersk India) CFS, Navi Mumbai	112.5	90.6	Maharashtra State Corp CFS	59.7	56.8
Apollo Logisolutions CFS, Panvel	90.7	82.9	Navkar Corporation Yard 1 CFS, Panvel	108.4	100.4
Ashte Logistics CFS, Panvel	100.2	96.6	Navkar Corporation Yard 2 CFS, Panvel	113.8	90.8
Balmer & Lawrie CFS, Navi Mumbai	110.3	85.3	Navkar Corporation Yard 3 CFS, Panvel	100.0	86.3
Continental Warehousing CFS, Navi Mumbai	97.5	77.5	Ocean Gate CFS, Panvel	89.2	104.5
CWC Dronagiri CFS, Navi Mumbai	76.7	60.3	Punjab Conware CFS, Navi Mumbai	51.6	75.7
CWC Hind Terminal CFS, Navi Mumbai	98.3	89.3	SBW Logistics CFS, Navi Mumbai	89.1	87.6
Dronagiri Rail Terminal CFS, Navi Mumbai	60.2	50.0	Seabird CFS, Navi Mumbai	101.7	82.4
Gateway Distriparks CFS, Navi Mumbai	99.7	71.6	Speedy Multimode CFS, JNPT	109.2	69.6
Indev Logistics CFS, Panvel	104.1	85.5	Take Care Logistics CFS	122.3	106.3
International Cargo Terminal CFS	79.1	82.0	TG Terminals CFS	114.4	86.4

In JNPT Region

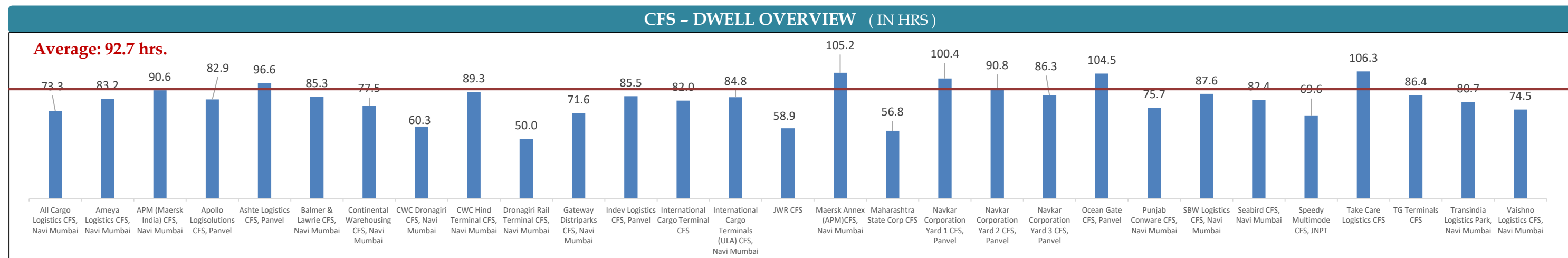
Top Performing CFS

Dronagiri Rail Terminal CFS, Navi Mumbai	50.0 hrs
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Low Performing CFS

Take Care Logistics CFS	106.3 hrs
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*Based on Dwell time for Sep'18



ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Aug'18	Sep'18
ACTL ICD, Faridabad	116.5	109.9
Adani Logistics Park ICD, Gurgaon	112.6	118.0
Albatross Inland Ports ICD, Dadri	114.9	139.7
Allcargo Logistics Park ICD, Dadri	129.5	132.5
APM Terminals ICD, Dadri	88.9	128.2
CMA CGM Logistics Park, Dadri	143.5	107.5
CONCOR ICD, Aurangabad	164.5	211.0
CONCOR ICD, Dadri	117.4	120.6
CONCOR Kanakpura ICD, Jaipur	142.1	140.8
CONCOR Mulund ICD, Mumbai	142.8	88.2
CONCOR Tughlakabad ICD, New Delhi	130.5	143.0
CWC ICD, Loni	90.1	72.2
CWC ICD, Patparganj	191.6	167.2
Gateway Rail Freight ICD, Gurgaon	116.0	137.0

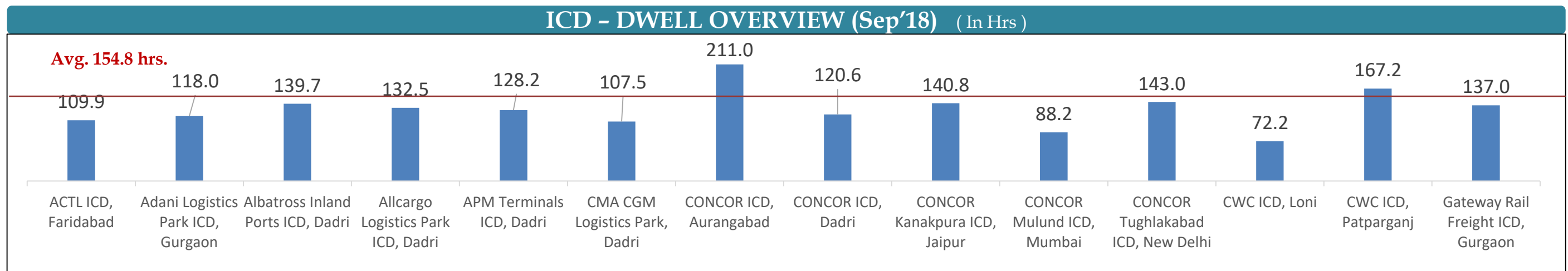
Top Performing ICD

CWC ICD, Loni	72.2 hrs
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Low Performing ICD

CONCOR ICD, Aurangabad	211.0 hrs
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*Based on Dwell time for Sep'18

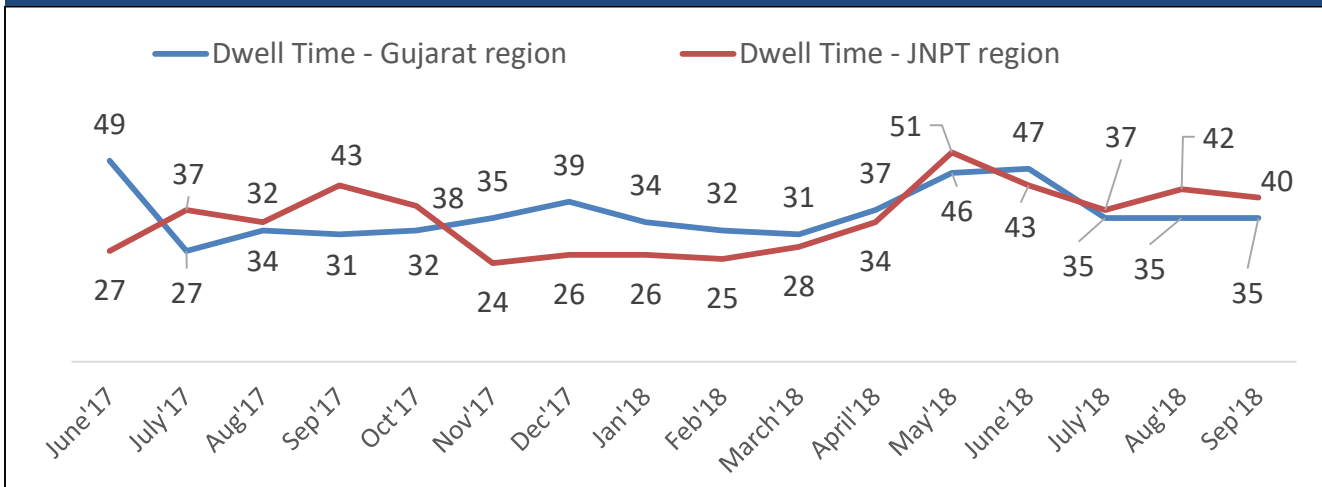


Trend Analysis

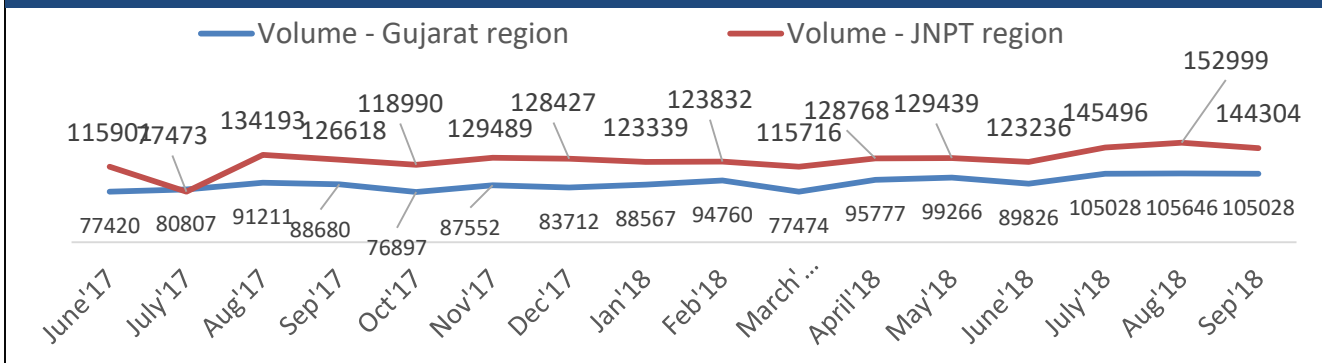
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Sep'18

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



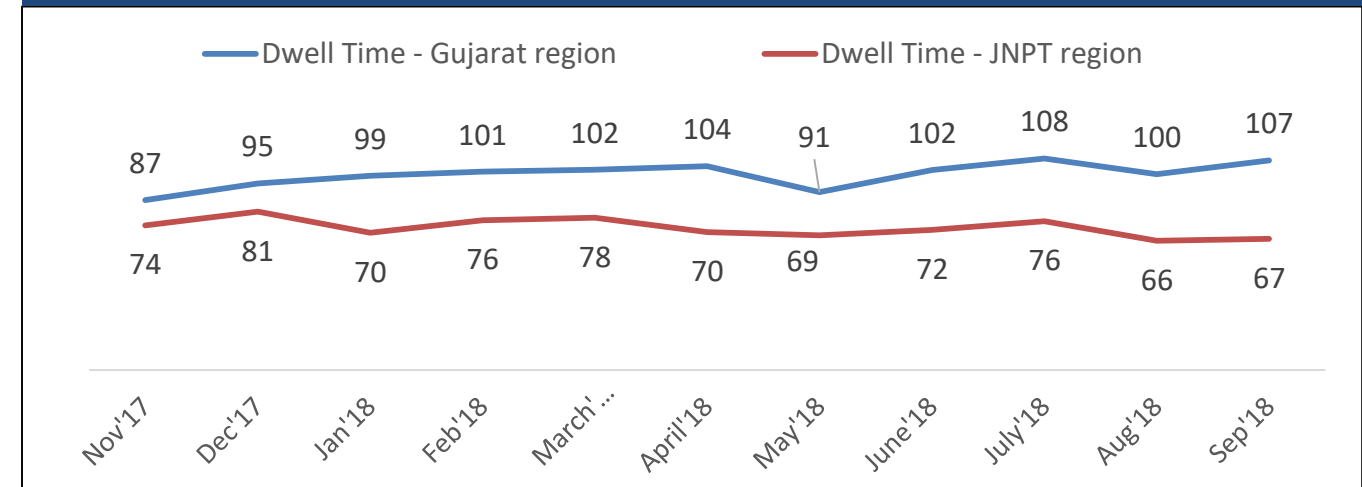
Volume – Gujarat Region Vs JNPT Region



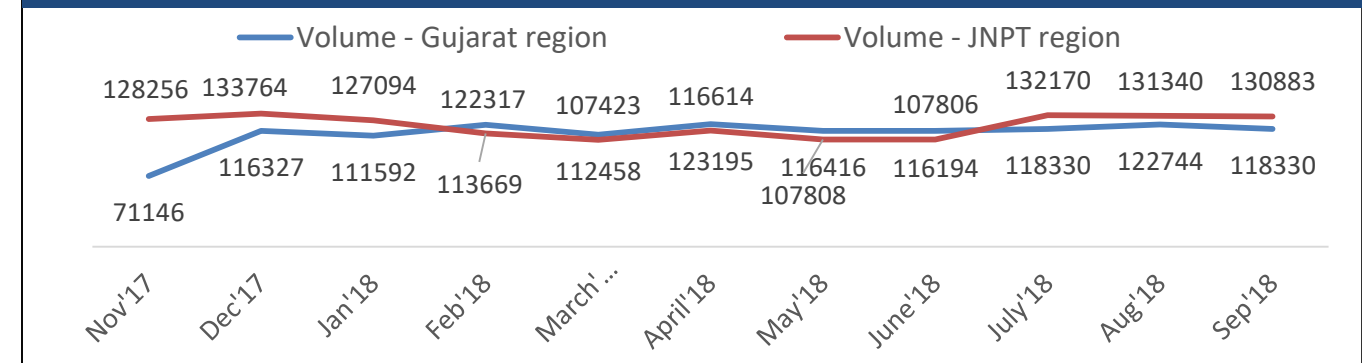
In Import cycle, for the month of Sep'18 JNPT port has catered **37% more volume** than APSEZ Port, while keeping its **dwell time 14% less** than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

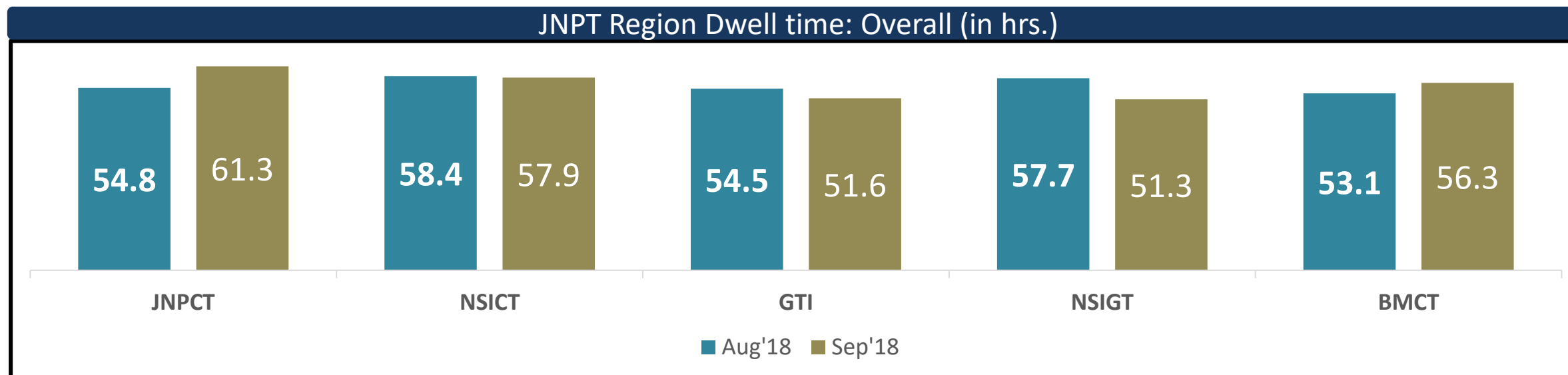


In Export cycle, Volume catered by APSEZ port in Sep'18 is just **10% less** than JNPT Port, yet the dwell time is **37% higher** than JNPT Port

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 combine) trend(Month of Month) of all the JNPT Port terminals. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal



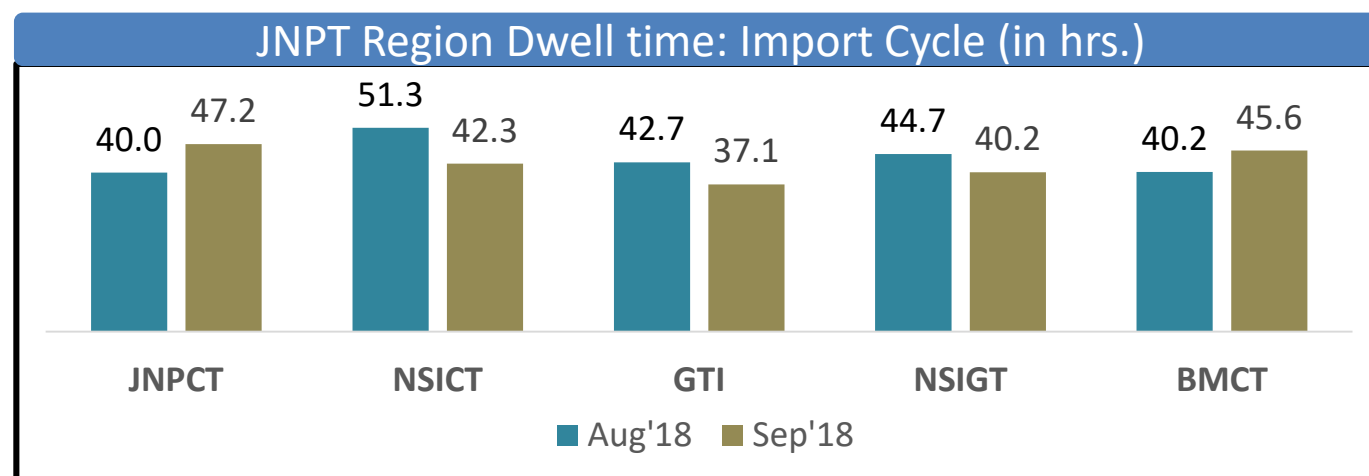
The overall JNPT region average dwell time for Sep'18 is 54.6 hrs as compared to 55 hrs in Aug'18

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of Sep'18



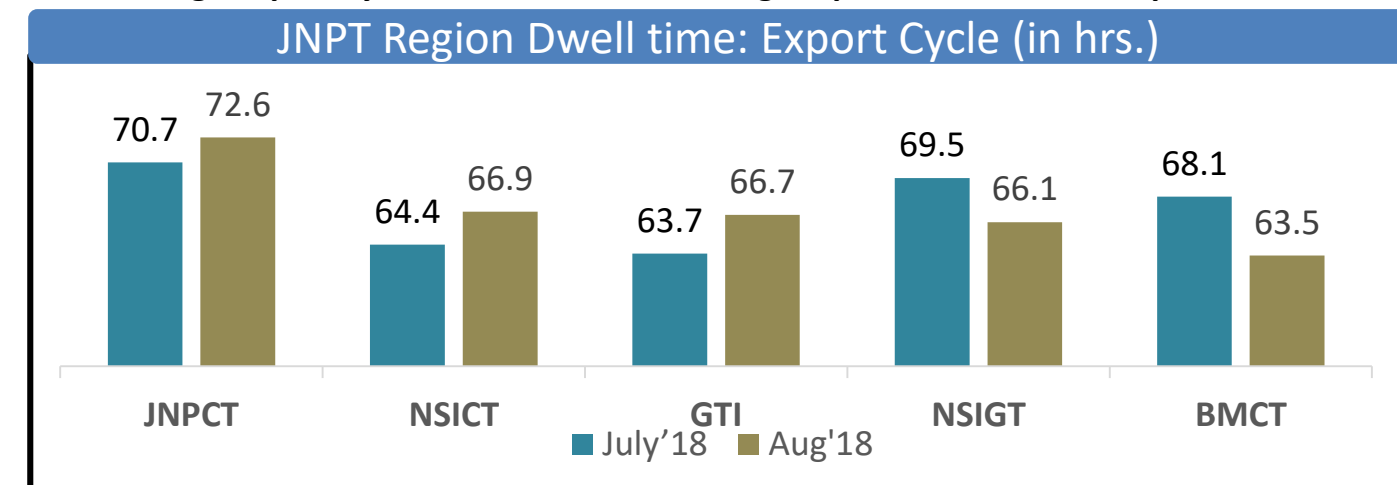
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Sep'18 is 40.6hrs.



JNPT Export cycle Trend

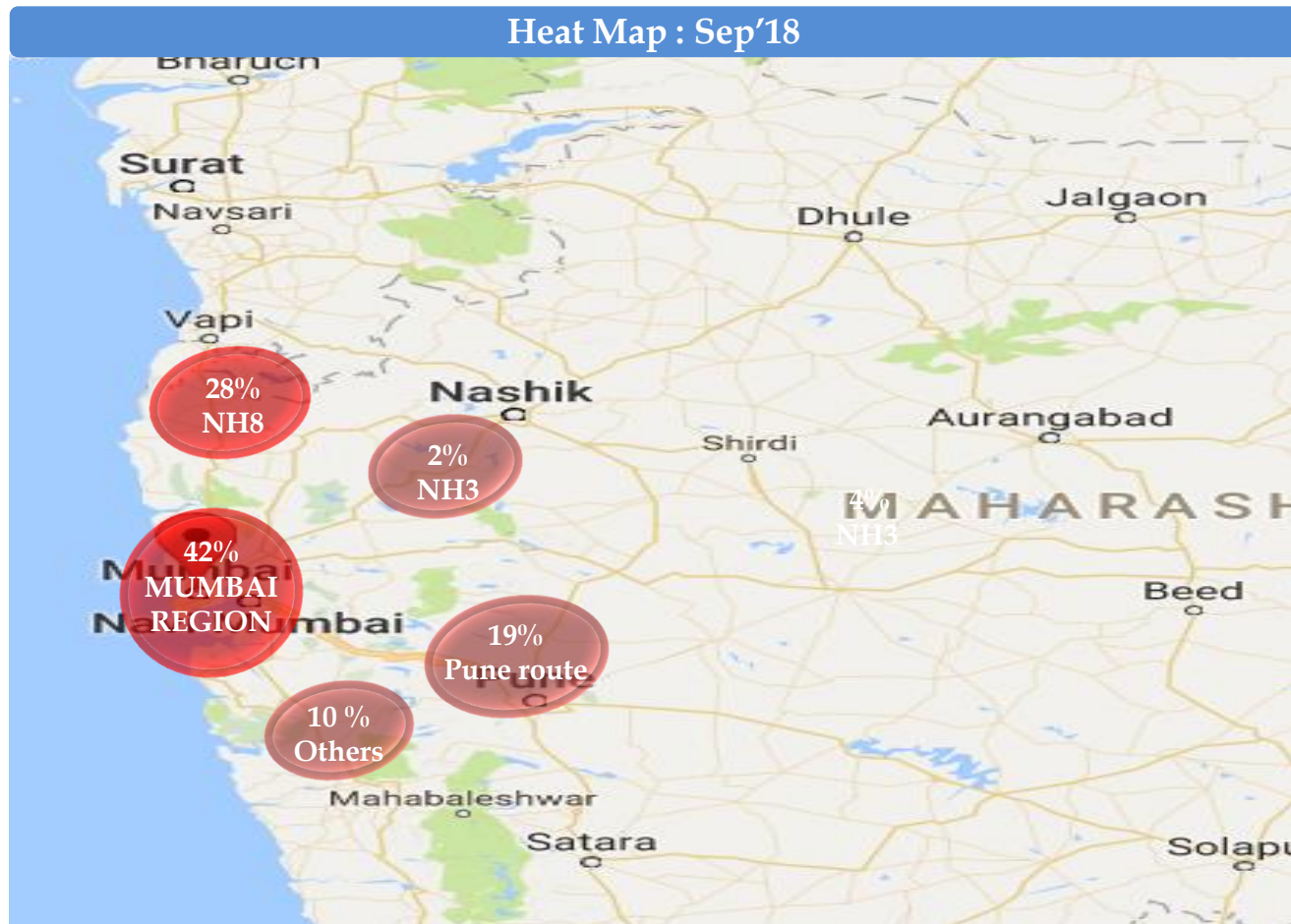
The average export cycle dwell time of JNPT region port terminals for Sep'18 is 67.4hrs.



ANNEXURE

Container movement around JNPT Port terminal region via Truck

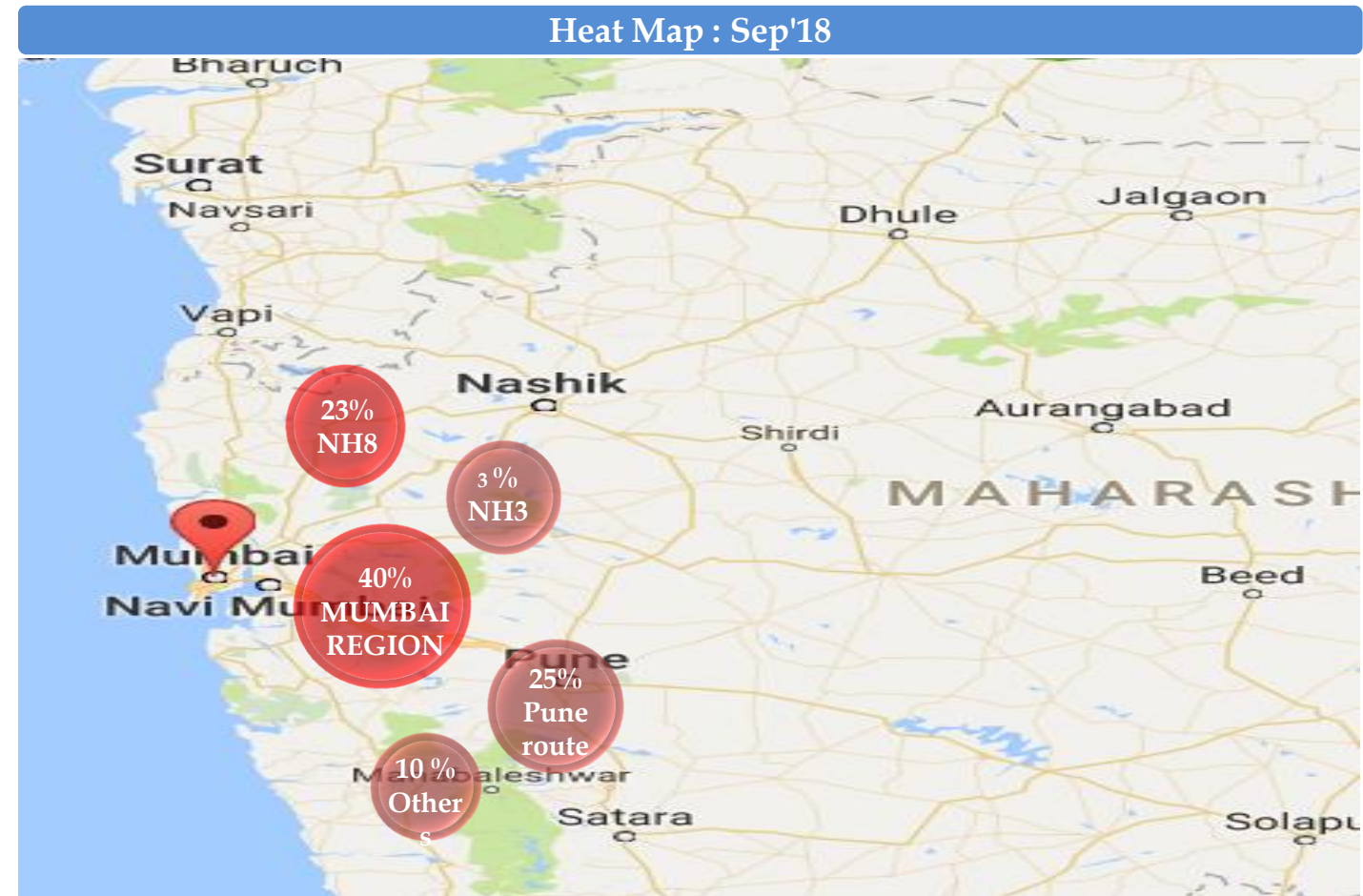
HEAT MAP : JNPCT Port Terminal



Region	Aug'18	Sep'18
Mumbai region	39%	42%
NH3	2%	2%
Pune	20%	19%
NH8	29%	28%
others	10%	10%

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

HEAT MAP : GTI Port Terminal

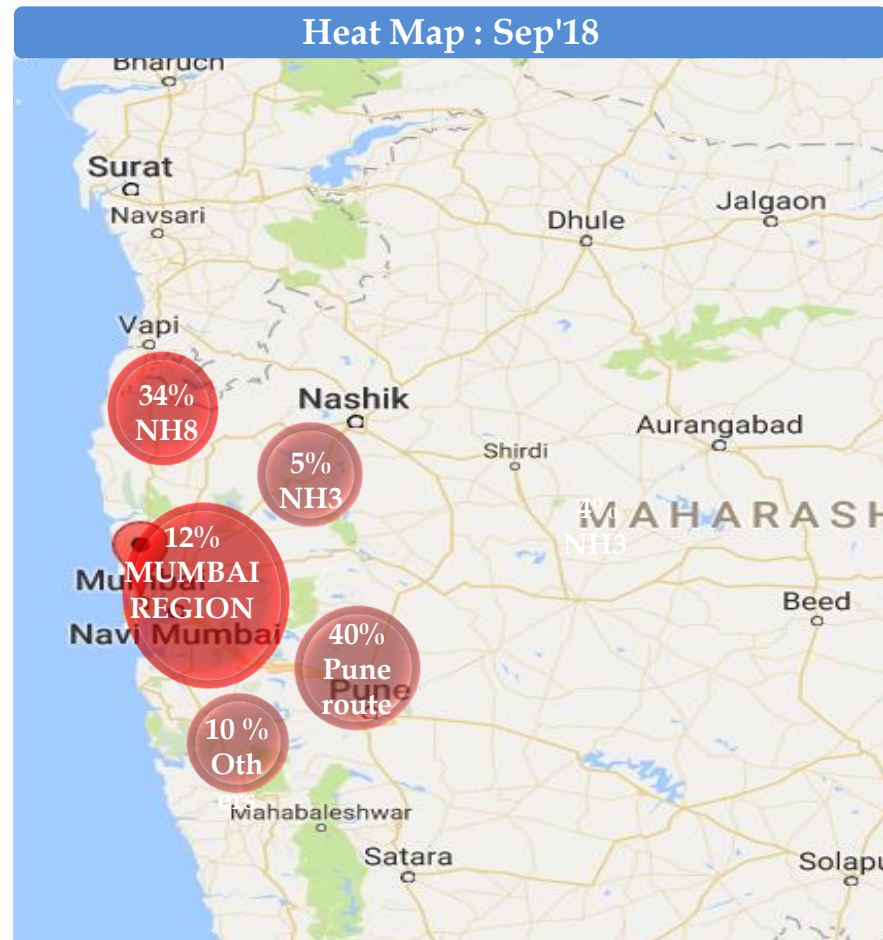


Region	Aug'18	Sep'18
Mumbai region	49%	40%
NH3	2%	3%
Pune	19%	25%
NH8	20%	23%
others	10%	10%

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

Container movement around JNPT Port terminal region via Truck

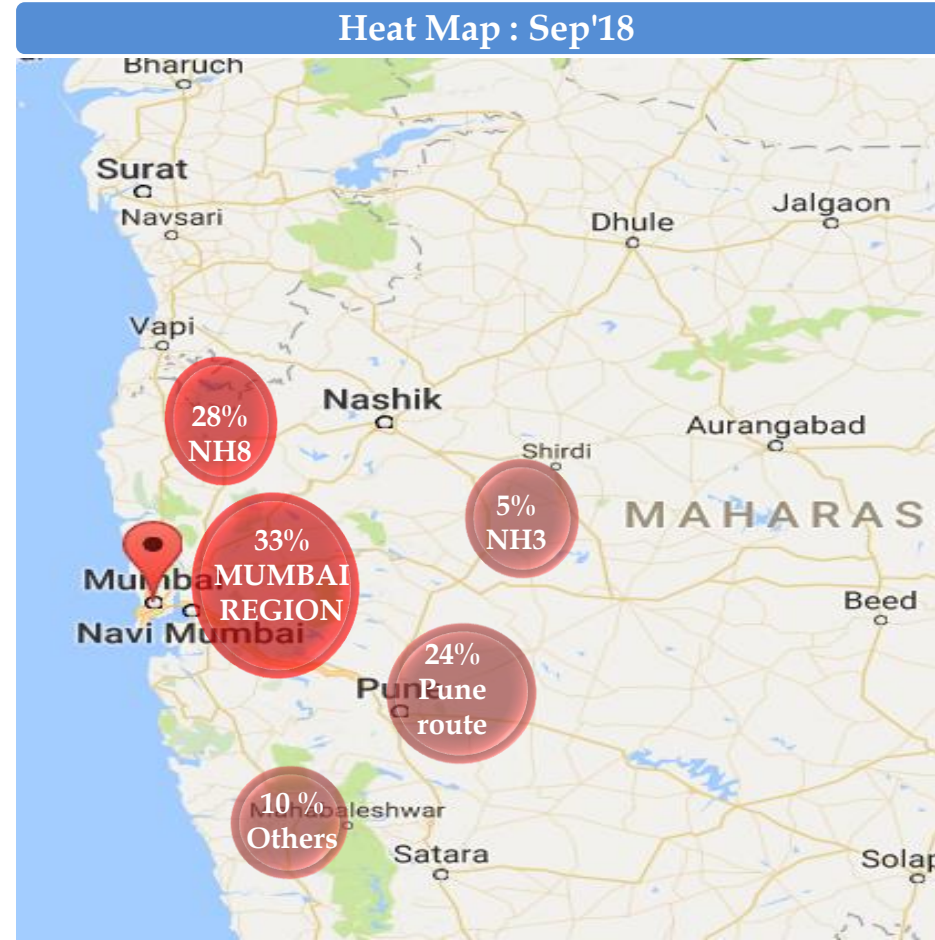
HEAT MAP : NSIGT



Region	Aug'18	Sep'18
Mumbai region	33%	12%
NH3	3%	5%
Pune	31%	40%
NH8	23%	34%
others	10%	10%

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

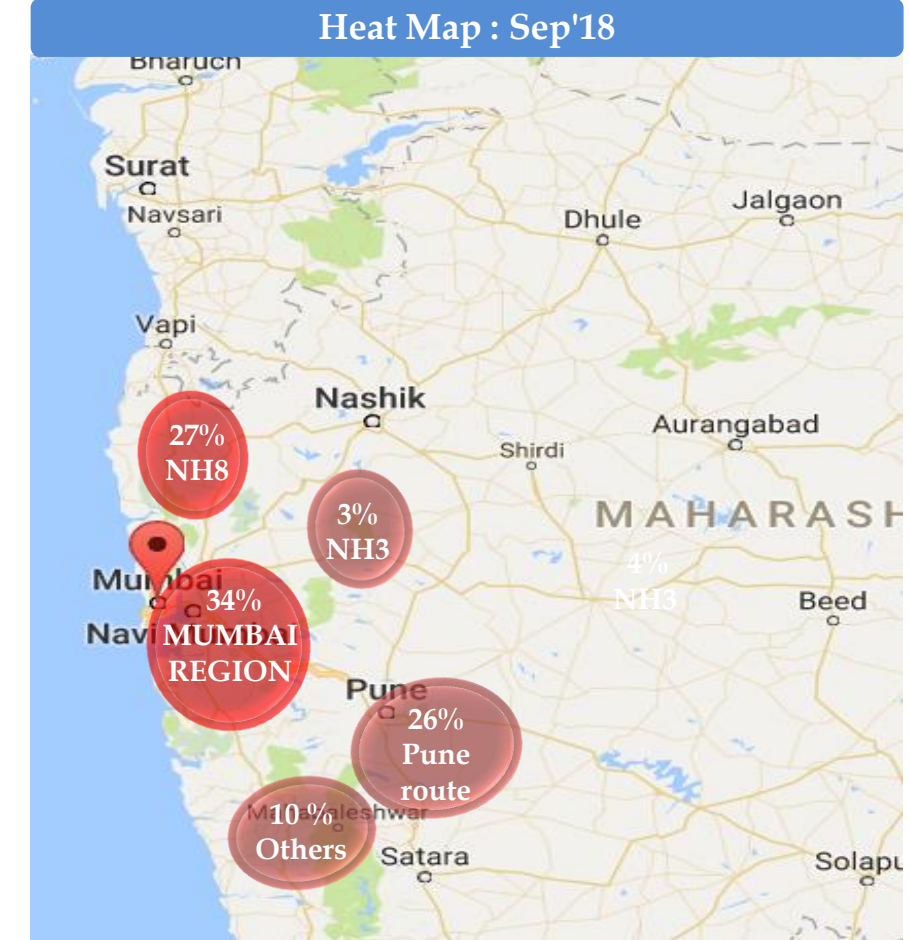
HEAT MAP : NSICT Port Terminal



Region	Aug'18	Sep'18
Mumbai region	74%	33%
NH3	1%	5%
Pune	6%	24%
NH8	8%	29%
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'18	Sep'18
Mumbai region	41%	34%
NH3	3%	3%
Pune	23%	26%
NH8	23%	27%
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 Sep'18					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Transindia Logistics Park Pvt, Ltd CFS	8.4	8.3	4.4	5.1	4.4
DRONAGIRI RAIL TERMINAL	4.2	6.7	4.0	5.2	3.7
Ocean Gate Container Terminals Pvt. Ltd.CFS	6.9	8.1	4.5	4.4	-
Transindia Logistics Park Pvt, Ltd CFS	8.4	8.3	-	5.1	4.4
NAVKAR CORPORATION LTD.YARD-III CFS	7.8	11.0	7.1	5.1	4.7
PUNJAB CONWARE (PW)	4.3	5.9	3.3	3.4	2.8
Ameya Logistics Pvt. Ltd.	6.9	7.9	5.4	4.8	4.8
Continental Warehousing (Nhava Sheva) Ltd.	3.4	6.0	2.8	3.3	3.2
Seabird Marine Services Pvt Ltd.	4.4	5.6	1.8	4.3	1.7
Balmer & Lawrie & Co. Ltd.,CFS	7.2	10.2	-	3.2	8.6
APM (Maersk India Pvt. Ltd)CFS	3.6	4.6	2.2	2.4	3.3
Ashte Logistics Pvt. Ltd.	7.8	9.0	-	6.0	8.7
International Cargo Terminals & Infrastructure Private Limited-CFS	4.7	10.0	7.7	7.2	2.5
All Cargo Logistics Ltd., CFS	6.3	7.8	5.5	7.7	23.5
NAVKAR CORPORATION LTD.,YARD-II CFS	8.6	11.2	7.4	8.5	8.2
MAHARASHTRA STATE WARE. CORP. CFS	5.2	5.7	6.1	-	6.4
Indev Logistics Pvt. Ltd.CFS	4.6	5.7	-	5.9	3.1
CWC LOGISTIC PARK - Opr.Hind Trmnl.	5.6	6.8	3.9	4.2	3.8
Vaishno Logistics Yard CFS	8.0	7.3	4.1	4.3	5.3
International Cargo Terminal CFS	5.9	9.0	4.0	7.3	3.4
SBW Logistics CFS , Navi Mumbai	9.3	12.4	14.1	13.0	12.5
CWC Dronagiri CFS	3.2	5.0	2.6	4.9	6.2
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	4.5	4.7	2.9	2.9	-
NAVKAR CORPORATION LTD.,YARD-1 CFS	-	7.4	-	-	-

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	Spe'18 (in hrs)
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.9
Balmer & Lawrie & Co. Ltd. CFS	3.0
Gateway Distriparks Ltd	3.3
APM (Maersk India Pvt. Ltd)CFS	2.3
Continental Warehousing (Nhava Sheva) Ltd.	2.4
Seabird Marine Services Pvt Ltd.	2.5
JWC Logistics Park Ltd CFS	6.3
Ameya Logistics Pvt. Ltd.	3.6
Ashte Logistics Pvt. Ltd.	6.3
NAVAKAR CORPORATION LTD.,YARD-1 CFS	6.6
Apollo Logisolutions Ltd.	7.2
Ocean Gate Container Terminals Pvt. Ltd. CFS	4.1
Indev Logistics Pvt. Ltd. CFS	5.9
Transindia Logistics Park Pvt, Ltd CFS	3.2
All Cargo Logistics Ltd., CFS	3.0
Vaishno Logistics Yard CFS	3.9
NAVAKAR CORPORATION LTD.,YARD-II CFS	5.4
PUNJAB CONWARE (PW)	2.9
DRONAGIRI RAIL TERMINAL	2.3
MAHARASHTRA STATE WARE. CORP. CFS	35.8
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.4
NAVAKAR CORPORATION LTD.YARD-III CFS	5.1
International Cargo Terminals & Infrastructure Private Limited-CFS	2.8
Maersk Annex (APM)CFS	3.5
International Cargo Terminal CFS	2.9
SBW Logistics CFS , Navi Mumbai	6.9

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	Sep'18 (in hrs)
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.5
Balmer & Lawrie & Co. Ltd. CFS	2.5
Gateway Distriparks Ltd	3.3
APM (Maersk India Pvt. Ltd)CFS	2.0
Continental Warehousing (Nhava Sheva) Ltd.	1.8
Seabird Marine Services Pvt Ltd.	2.1
JWC Logistics Park Ltd CFS	7.2
Ameya Logistics Pvt. Ltd.	3.1
Ashte Logistics Pvt. Ltd.	4.1
NAVAKAR CORPORATION LTD.,YARD-1 CFS	6.9
Apollo Logisolutions Ltd.	5.4
Ocean Gate Container Terminals Pvt. Ltd. CFS	3.2
Indev Logistics Pvt. Ltd. CFS	4.8
Transindia Logistics Park Pvt, Ltd CFS	3.0
All Cargo Logistics Ltd., CFS	2.4
Vaishno Logistics Yard CFS	2.1
NAVAKAR CORPORATION LTD.,YARD-II CFS	4.8
PUNJAB CONWARE (PW)	2.6
DRONAGIRI RAIL TERMINAL	2.3
MAHARASHTRA STATE WARE. CORP. CFS	2.9
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.1
NAVAKAR CORPORATION LTD.YARD-III CFS	3.9
International Cargo Terminals & Infrastructure Private Limited-CFS	2.3
Maersk Annex (APM)CFS	2.2
International Cargo Terminal CFS	2.8
SBW Logistics CFS , Navi Mumbai	10.2

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	Sep'18 (in hrs)
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	2.9
Balmer & Lawrie & Co. Ltd. CFS	2.5
Gateway Distriparks Ltd	2.7
APM (Maersk India Pvt. Ltd)CFS	2.1
Continental Warehousing (Nhava Sheva) Ltd.	1.7
Seabird Marine Services Pvt Ltd.	1.8
JWC Logistics Park Ltd CFS	6.0
Ameya Logistics Pvt. Ltd.	3.0
Ashte Logistics Pvt. Ltd.	5.5
NAVAKAR CORPORATION LTD.,YARD-1 CFS	6.8
Apollo Logisolutions Ltd.	4.8
Ocean Gate Container Terminals Pvt. Ltd. CFS	4.2
Indev Logistics Pvt. Ltd. CFS	4.6
Transindia Logistics Park Pvt, Ltd CFS	3.0
All Cargo Logistics Ltd., CFS	2.0
NAVAKAR CORPORATION LTD.,YARD-II CFS	5.3
PUNJAB CONWARE (PW)	2.3
DRONAGIRI RAIL TERMINAL	2.8
CWC LOGISTIC PARK - Opr.Hind Trmnl.	1.8
NAVAKAR CORPORATION LTD.YARD-III CFS	4.3
International Cargo Terminals & Infrastructure Private Limited-CFS	1.9
Maersk Annex (APM)CFS	2.5
International Cargo Terminal CFS	2.1
SBW Logistics CFS , Navi Mumbai	3.3

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	Sep'18 (in hrs)
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.5
Balmer & Lawrie & Co. Ltd. CFS	2.3
Gateway Distriparks Ltd	2.9
APM (Maersk India Pvt. Ltd)CFS	1.9
Continental Warehousing (Nhava Sheva) Ltd.	1.6
Seabird Marine Services Pvt Ltd.	1.9
JWC Logistics Park Ltd CFS	3.9
Ameya Logistics Pvt. Ltd.	2.6
Ashte Logistics Pvt. Ltd.	5.3
NAVAKAR CORPORATION LTD.,YARD-1 CFS	5.5
Apollo Logisolutions Ltd.	9.2
Ocean Gate Container Terminals Pvt. Ltd. CFS	3.4
Indev Logistics Pvt. Ltd. CFS	4.8
Transindia Logistics Park Pvt, Ltd CFS	2.6
All Cargo Logistics Ltd., CFS	2.4
Vaishno Logistics Yard CFS	2.1
NAVAKAR CORPORATION LTD.,YARD-II CFS	5.7
PUNJAB CONWARE (PW)	2.2
DRONAGIRI RAIL TERMINAL	1.5
CWC LOGISTIC PARK - Opr.Hind Trmnl.	1.9
NAVAKAR CORPORATION LTD.YARD-III CFS	5.7
International Cargo Terminals & Infrastructure Private Limited-CFS	2.1
Maersk Annex (APM)CFS	4.2
International Cargo Terminal CFS	2.8
SBW Logistics CFS , Navi Mumbai	5.2

Base on container movement from port to CFS in Mumbai region, All the CFS's have been grouped into 9 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 Sep'18				
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	1.9	4.7
Cluster 2	6	13	2.9	6.8
Cluster 3	6	11	2.5	5.7
Cluster 4	1	13	3.9	7.3
Cluster 5	2	25	5.2	4.1
Cluster 6	6	25	6.1	9.6
Cluster 7	4	12	3.1	7.9
Cluster 8	1	34	6.9	12.4

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Sep'18				
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	1.5	4.5
Cluster 2	6	13	2.3	5.6
Cluster 3	6	11	2.3	4.3
Cluster 4	1	13	2.1	8.0
Cluster 5	2	25	5.2	3.4
Cluster 6	6	25	4.8	7.8
Cluster 7	4	12	2.7	6.6
Cluster 8	1	34	10.2	9.3

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 9 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

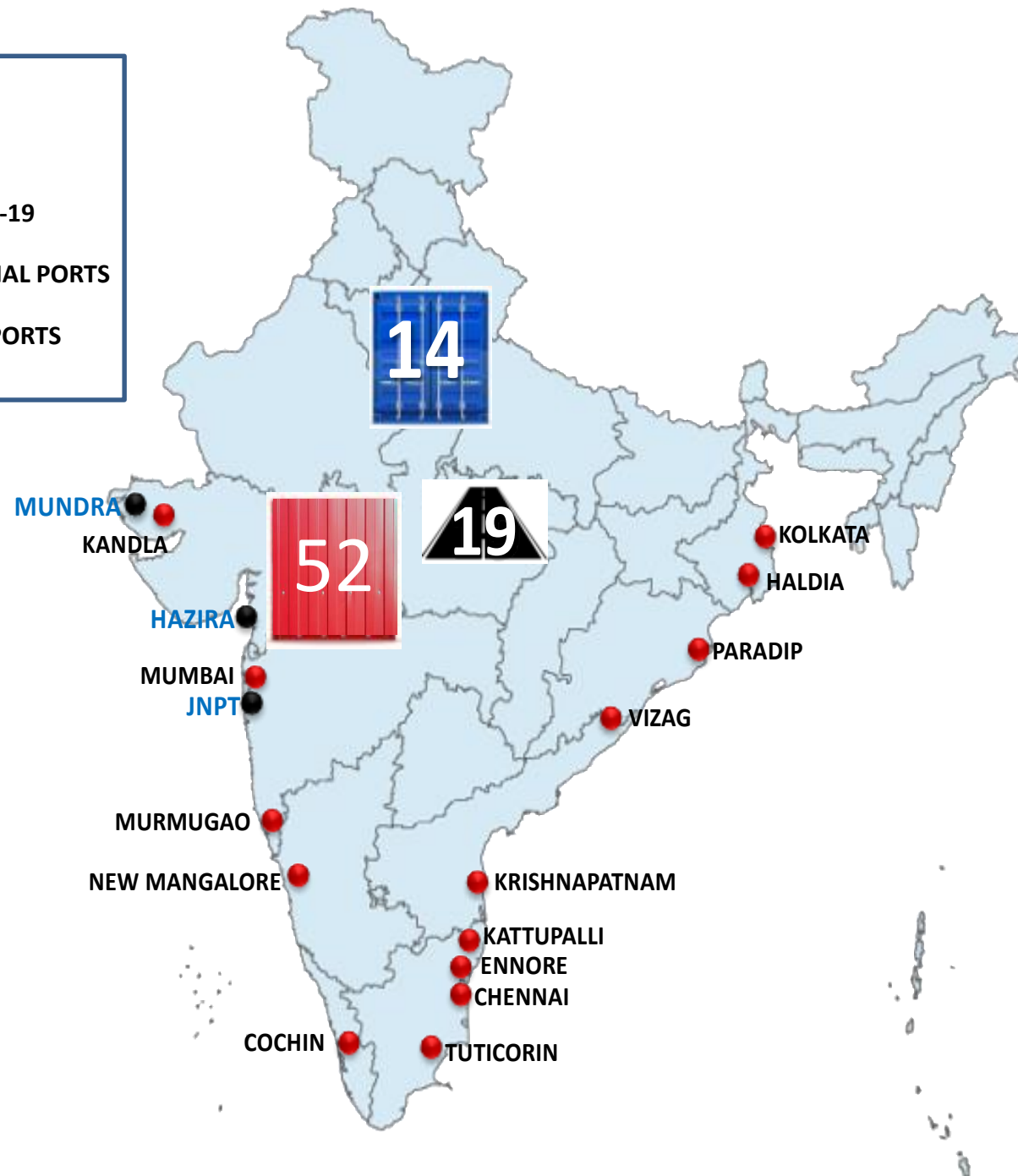
GTI terminal for month of Sep'18				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.9	2.9
Cluster 2	6	13	2.1	4.0
Cluster 3	6	11	0.9	3.3
Cluster 4	1	13	0.0	0.0
Cluster 5	2	25	5.1	2.3
Cluster 6	6	25	5.0	5.3
Cluster 7	4	12	2.5	4.9
Cluster 8	1	34	3.3	0.0

CFS Cluster : NSIGT Terminal

JNPCT terminal for month of Sep'18				
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	1.5	6.61
Cluster 2	6	13	2.3	6.61
Cluster 3	6	11	1.5	4.3
Cluster 4	1	13	2.1	4.3
Cluster 5	2	25	3.6	2.2
Cluster 6	6	25	5.6	5.5
Cluster 7	4	12	2.5	4.9
Cluster 8	1	34	5.2	0.0

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

	ICD- 14
	CFS-52
	TOLL PLAZA-19
	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>	

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



THANK YOU