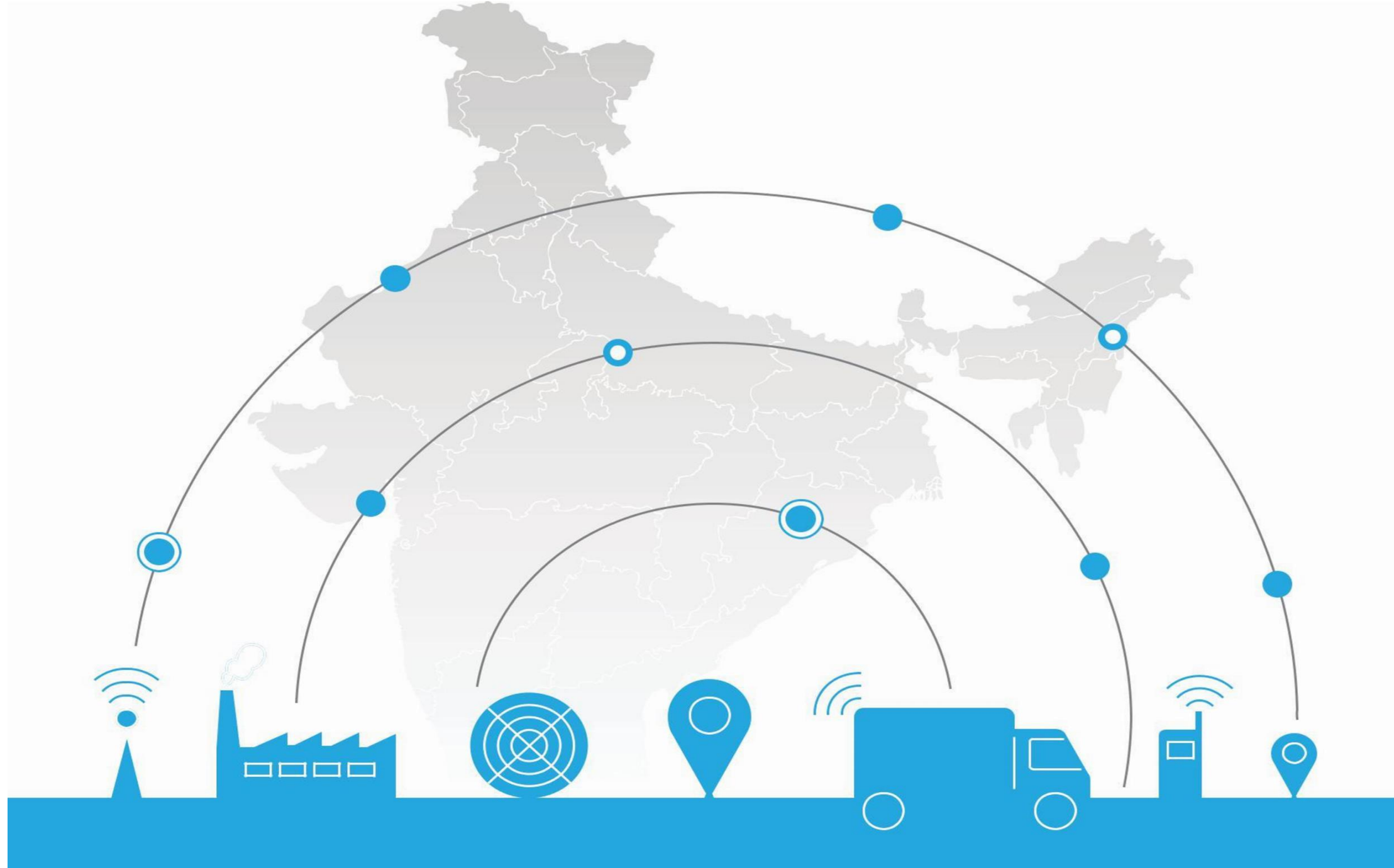


Logistics Databank Analytics Report for JNPT- November 2018



Western Corridor (JNPT & Gujarat)

- Overall Port Dwell time performance of western corridor in import cycle has increased by 12% as compared to previous month (29.3 hrs in Nov'18 from 33.4 hrs in Oct'18)
- Overall Port Dwell time performance for truck bound containers at western corridor in import cycle has increased by 12% as compared to previous month (27.0 hrs in Nov'18 from 30.6 hrs in Oct'18)

JNPT Port Terminals

- Truck Bound container handling performance in import cycle at JNPT Port Terminal has improved by 22% as compared to previous month. (25.4 hrs in Nov'18 to 32.8 hrs in Oct'18)
- Overall Port Dwell time performance of JNPT Port Terminal in import cycle has improved by 21% as compared to previous month. (27.6 hrs in Nov'18 to 34.5 hrs in Oct'18)
- Port Dwell time performance of JNPT Port Terminal for CFS bound containers has improved by 24% as compared to previous month. (23.4 hrs in Nov'18 to 30.8 hrs in Oct'18)

Port Dwell Time

IMPORT

Mode	Oct'18 (in hrs)	Nov'18 (in hrs)
Overall	33.4	29.3
Truck	30.6	27.0
Train	55.9	52.0

EXPORT

Mode	Oct'18 (in hrs)	Nov'18 (in hrs)
Overall	77.3	82.5
Truck	74.9	80.5
Train	93.7	95.3

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



Inland
Container
Depot (ICD)



Container
Freight
Stations

Entity	Oct'18 (in hrs)	Nov'18 (in hrs)
CFS	87.9	89.0
ICD	143.3	149.6

 The marked entries showcase increase in performance in comparison to previous month

 The marked entries showcase decrease in performance in comparison to previous month

Container Lifecycle (Import Cycle)

Port Dwell Time			
IMPORT	Mode	Oct'18 (in hrs)	Nov'18 (in hrs)
	Overall	34.9	27.6
	Truck	32.8	25.4
	Train	48.4	44.0

EXPORT	Mode	Oct'18 (in hrs)	Nov'18 (in hrs)
	Overall	67.8	73.2
	Truck	66.0	70.8
	Train	95.3	104.2

Transit Time			
Towards ICD	Transit Cycle	Oct'18 (in hrs)	Nov'18 (in hrs)
Towards ICD	Port to ICD	73.9	70.2
	Port to CFS	3.2	3.3
Towards CFS			
From ICD	Transit Cycle	Oct'18 (in hrs)	Nov'18 (in hrs)
	ICD to Port	62.1	64.0
	CFS to Port	6	4.9
From CFS			

Container Freight Station (CFS) / Inland Container Depot (ICD) - Dwell Time			
Entity	Oct'18 (in hrs)	Nov'18 (in hrs)	
CFS	83.7	83.1	
ICD	143.3	149.6	

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

IMPORT CYCLE PERFORMANCE (Nov'18 – in hrs)			Compared to Oct'18
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	27.6	21% ↑
	Port Dwell Time for Truck Bound Containers	25.4	22% ↑
	Port Dwell time for Train Bound Containers	44.0	9% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	46.0	7% ↑
	Port Dwell time Containers bound for CFS	23.4	24% ↑
	Port Dwell time Containers bound for ICD	28.7	15% ↑
TRANSIT TIME	Port to ICD	70.2	5% ↑
	Port to CFS	3.3	3% ↓

EXPORT CYCLE PERFORMANCE (Nov'18– in hrs)			Compared to Oct'18
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	73.2	8% ↓
	Port Dwell Time for Truck Bound Containers	70.8	7% ↓
	Port Dwell time for Train Bound Containers	104.2	9% ↓
	Port Dwell time Direct Port Entry (DPE) containers	69.4	18% ↓
	Port Dwell time Containers bound from CFS	68.5	7% ↓
	Port Dwell time Containers bound from ICD	100.0	10% ↓
TRANSIT TIME	ICD to Port	64.0	3% ↓
	CFS to Port	4.9	19% ↑

↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison 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			
Nov'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time	46.0 hrs	23.4 hrs	28.7 hrs

Port Dwell time based on container type				
Nov'18	Laden Containers		Empty Containers	
Dwell time	27.9 hrs	22% ↑	35.7 hrs	20% ↑

EXPORT

Port Dwell time based on transit type			
Nov'18	Direct Port Export Containers	Containers bound from CFS	Containers bound from ICD
Dwell time	69.4 hrs	68.5 hrs	100.0 hrs

Port Dwell time based on container type				
Nov'18	Laden Containers		Empty Containers	
Dwell time	68.6 hrs	10% ↓	78.5 hrs	7% ↓

↓↑ 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 Nov'18

Top Performing Terminal

Gateway Terminals India (GTI)

Oct'18	Nov'18
50.6 hrs	45.0 hrs

Low Performing Terminal

Adani CMA Mundra Terminal (ACMTTL)

Oct'18	Nov'18
72.6 hrs	71.8 hrs

Note: The performance benchmarking is based on performance index

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

Performance Index-Port Terminals

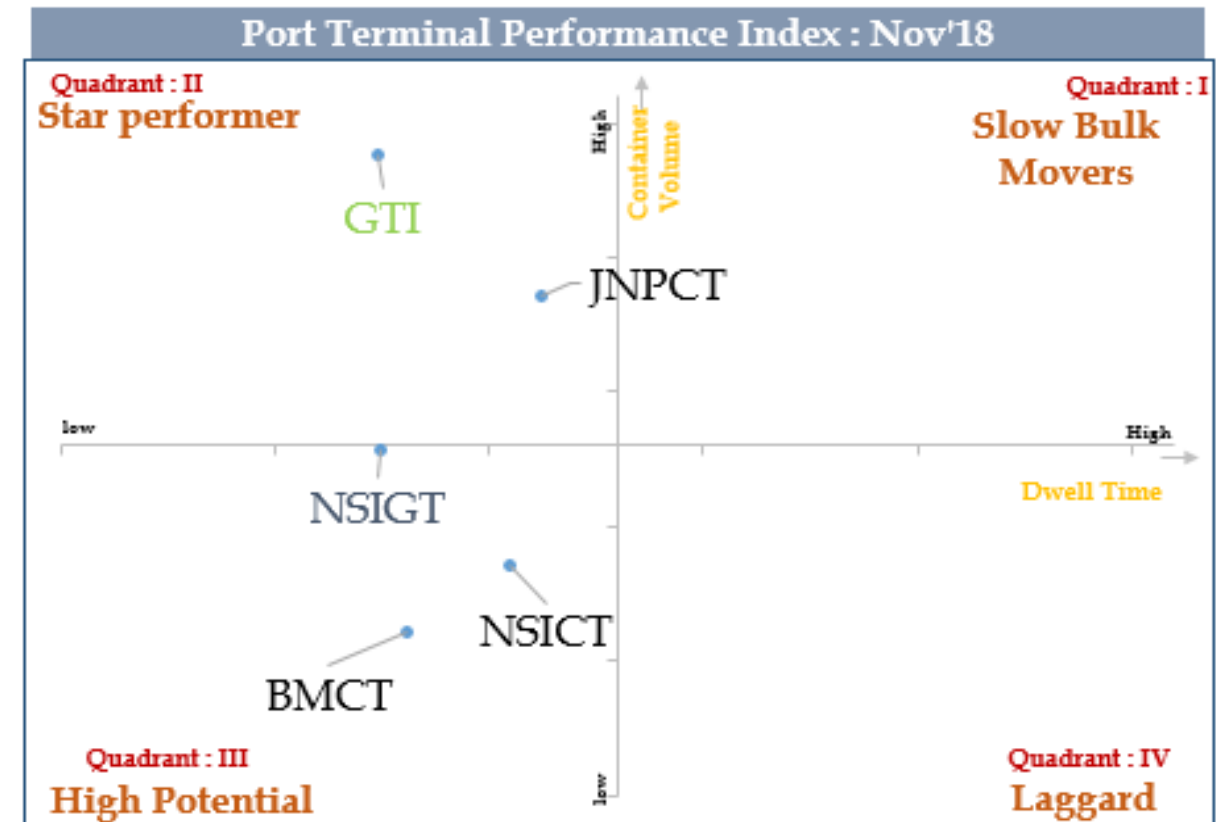
In order to assess the relative performance of Port terminals, the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time 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



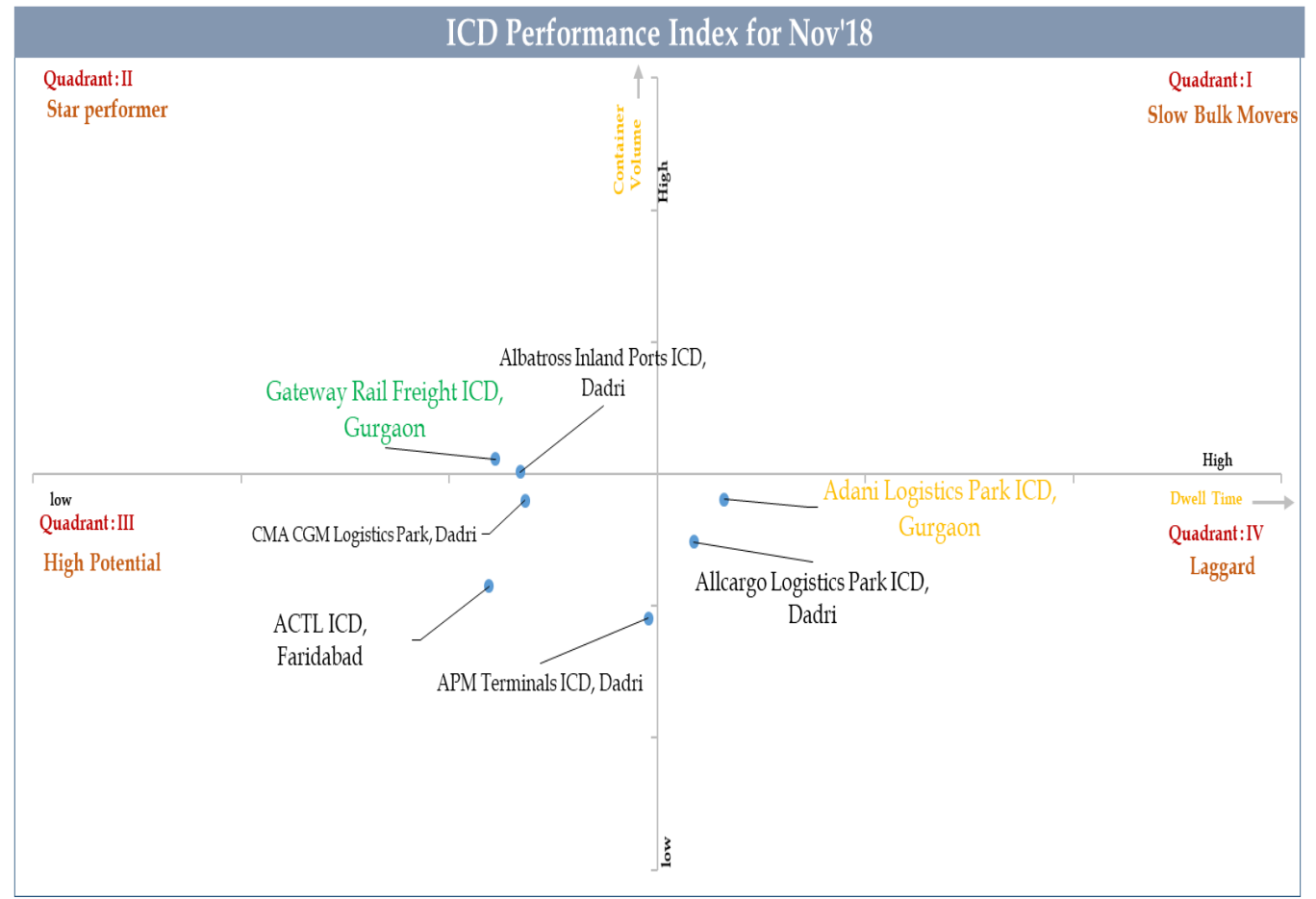
Performance Benchmarking – ICD(s)

Performance benchmarking for ICD(s) covered under LDB project for Nov'18

Top Performing ICD		
Gateway Rail Freight ICD, Gurgaon		
Oct'18	Nov'18	
109.5 hrs	120.7 hrs	↓

Low Performing ICD		
Adani Logistics Park ICD, Gurgaon		
Oct'18	Nov'18	
139.6 hrs	160.3 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



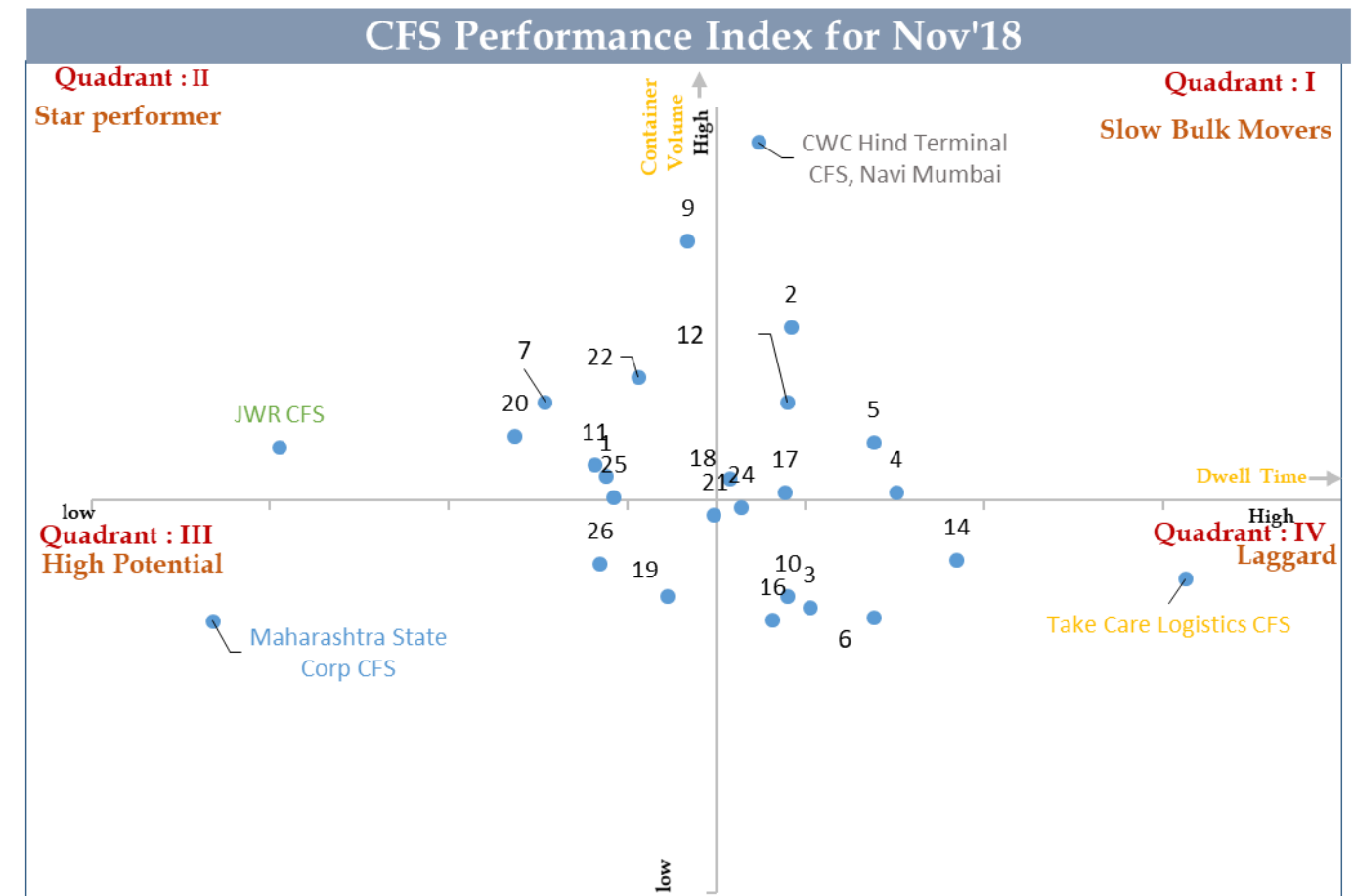
Performance Benchmarking - CFS(s)

Performance benchmarking for CFS(s) covered under LDB project for Nov'18

Top Performing CFS		
JWR CFS		
Oct'18	Nov'18	
56.73	56.65	↑
Low Performing CFS		
Take Care Logistics CFS		
Oct'18	Nov'18	
115.0	126.8	↓

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



Import Cycle Analysis

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

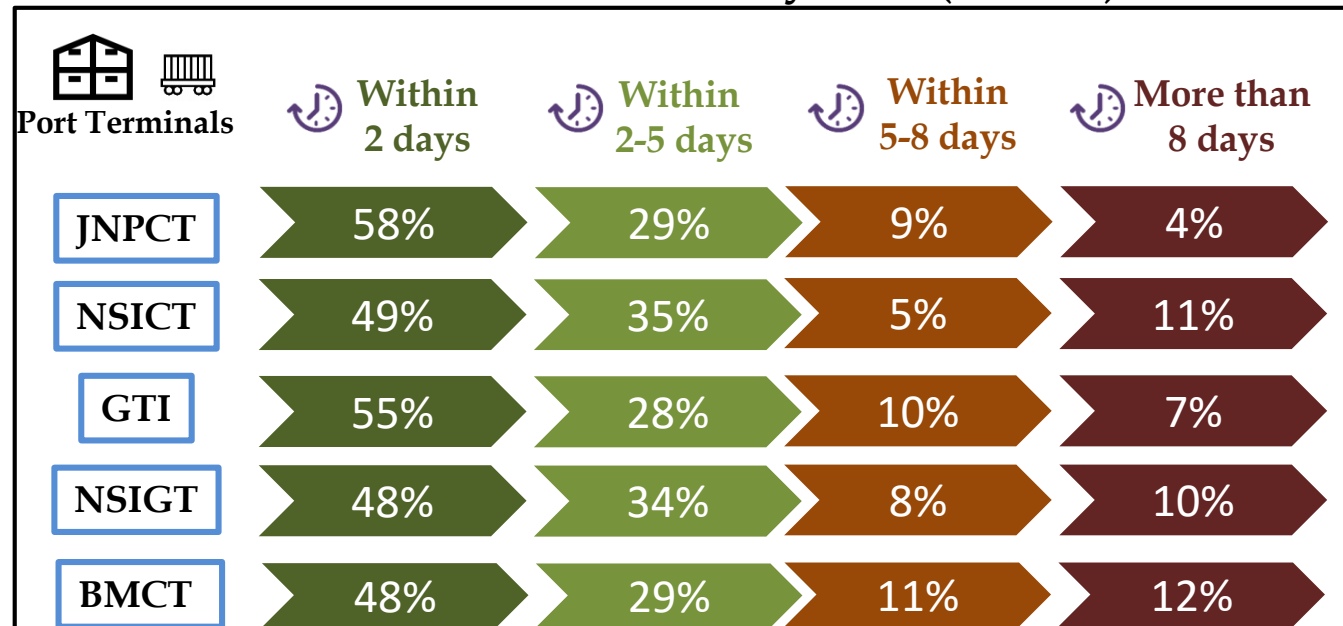
PORT IMPORT via TRAIN

(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	Oct'18 (in hrs)	Nov'18 (in hrs)
JNPCT	51.8	39.5
NSICT	53.5	48.9
GTI	36.8	41.6
NSIGT	60.5	50.9
BMCT	70.6	50.4

Container Handled: Day wise (Nov'18)



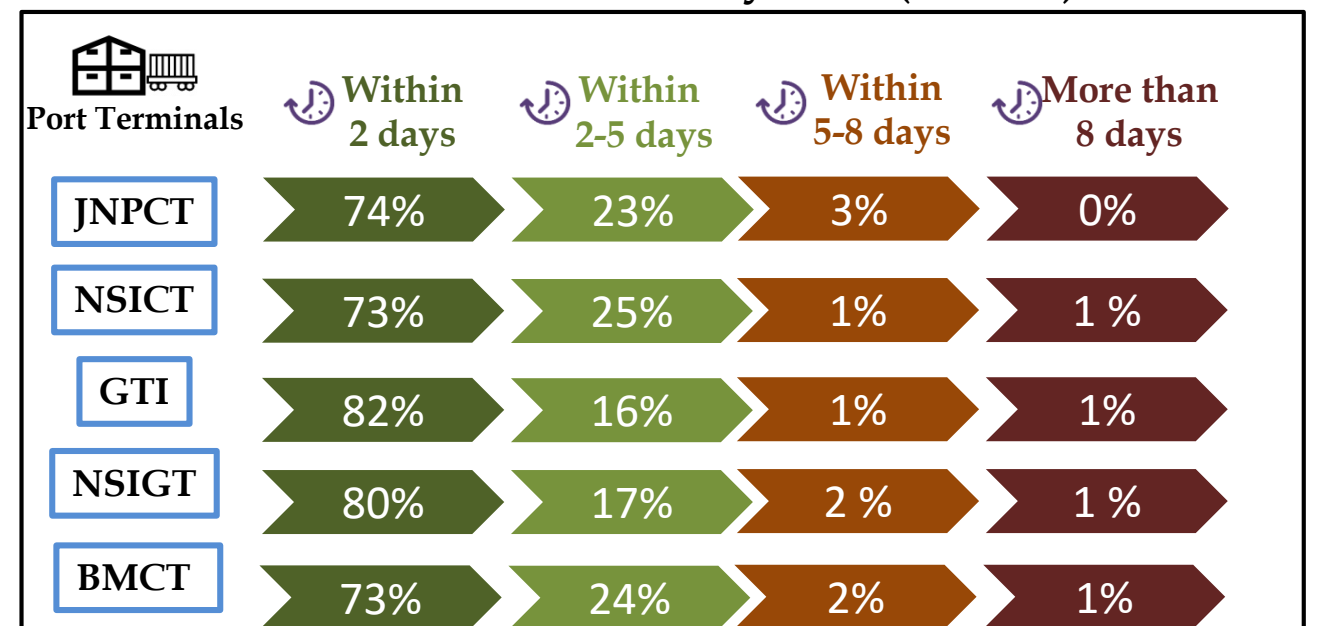
PORT IMPORT via TRUCK

(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	Oct'18 (in hrs)	Nov'18 (in hrs)
JNPCT	35.5	28.5
NSICT	32.8	31.0
GTI	37.0	21.7
NSIGT	27.4	25.8
BMCT	24.2	24.2

Container Handled: Day wise (Nov'18)



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

JNPCT			
Port Dwell time based on transit type			
Nov'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	43.2 hrs	27.9 hrs	25.3 hrs
Port Dwell time based on container type			
Nov'18	Laden Containers	Empty Containers	
Dwell time (in hrs)	29.8 hrs	35.1 hrs	

GTI			
Port Dwell time based on transit type			
Nov'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	45.0 hrs	19.8 hrs	29.1 hrs
Port Dwell time based on container type			
Nov'18	Laden Containers	Empty Containers	
Dwell time (in hrs)	24.3 hrs	34.2 hrs	

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

NSICT			
Port Dwell time based on transit type			
nov'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	-	31.5 hrs	40.3 hrs

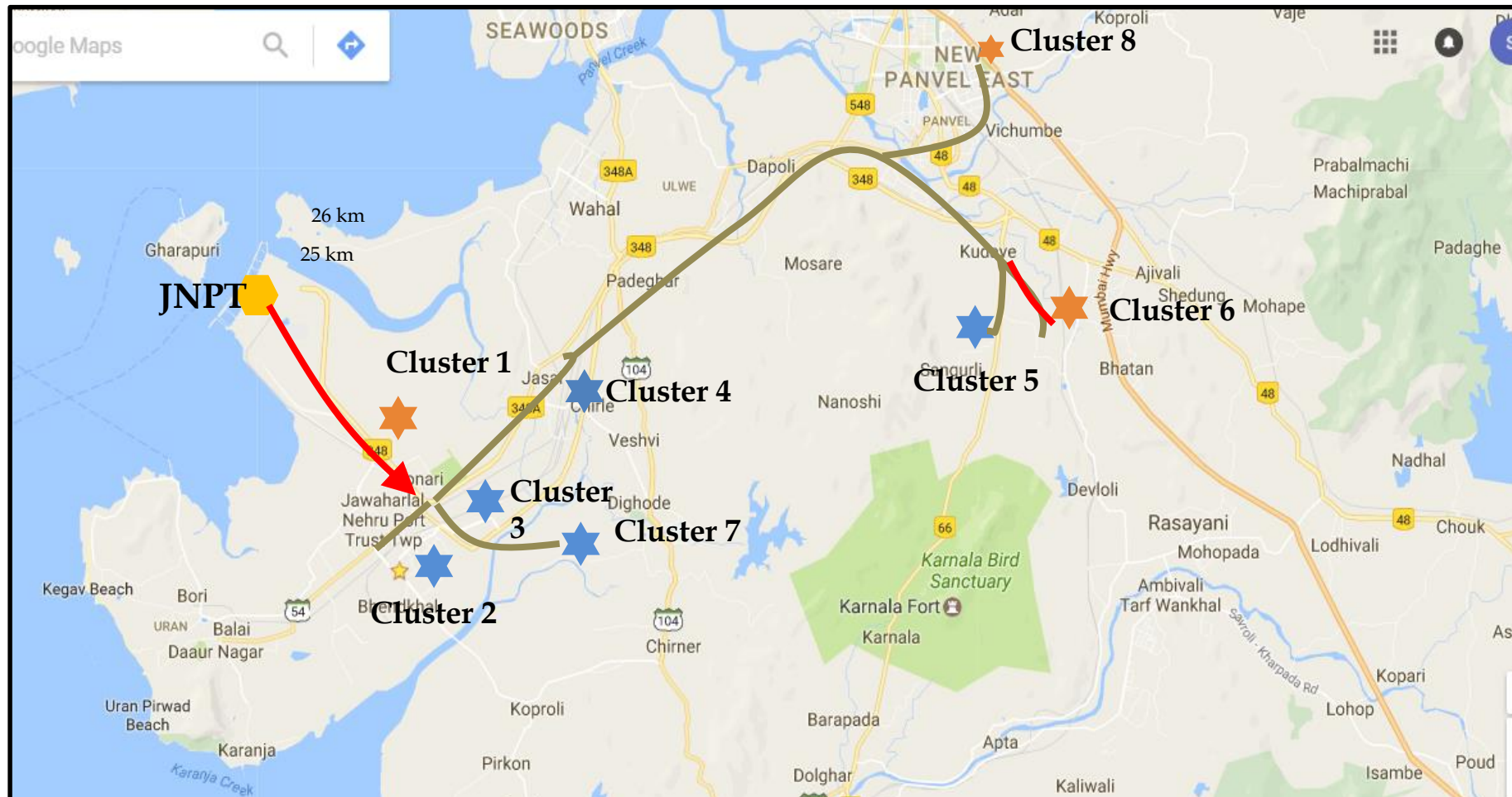
Port Dwell time based on container type		
nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	35.3 hrs	29.2 hrs

NSIGT			
Port Dwell time based on transit type			
nov'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	-	24.8 hrs	21.5 hrs

Port Dwell time based on container type		
nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	28.9 hrs	33.9 hrs

BMCT			
Port Dwell time based on transit type			
nov'18	Direct Port Delivery containers	Containers bound for CFS	Containers bound for ICD
Dwell time (in hrs)	21.2 hrs	28.6 hrs	-

Port Dwell time based on container type		
nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	25.1 hrs	76.9 hrs



Legends

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

Clusters with bottleneck	
Cluster 1	JNPT Y Junction Area
Cluster 6	Salva apta rd area, Bangalore highwa

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

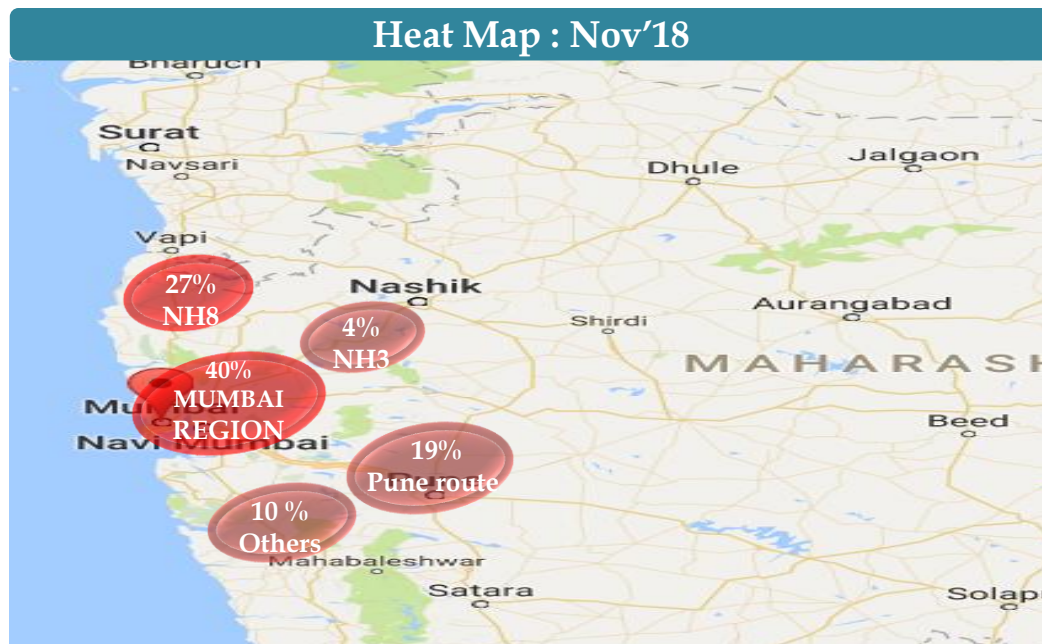
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Nov'18
Mumbai region	40%
NH3	4%
Pune	19%
NH8	27%
others	10%

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

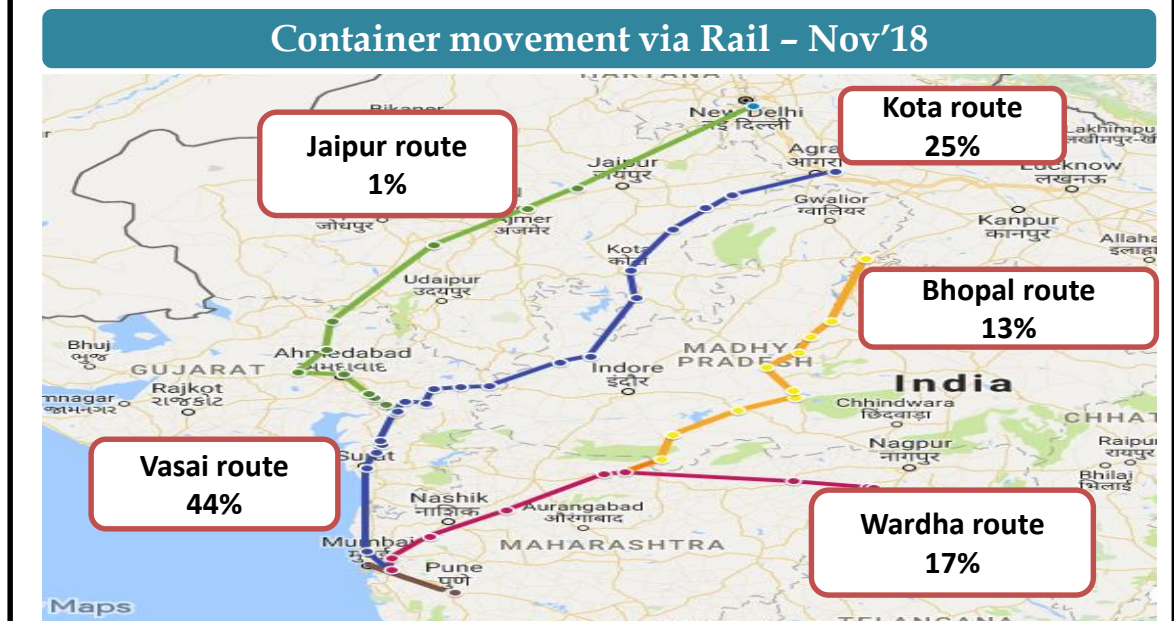


Train

VOLUME WISE CONTAINER MOVEMENT

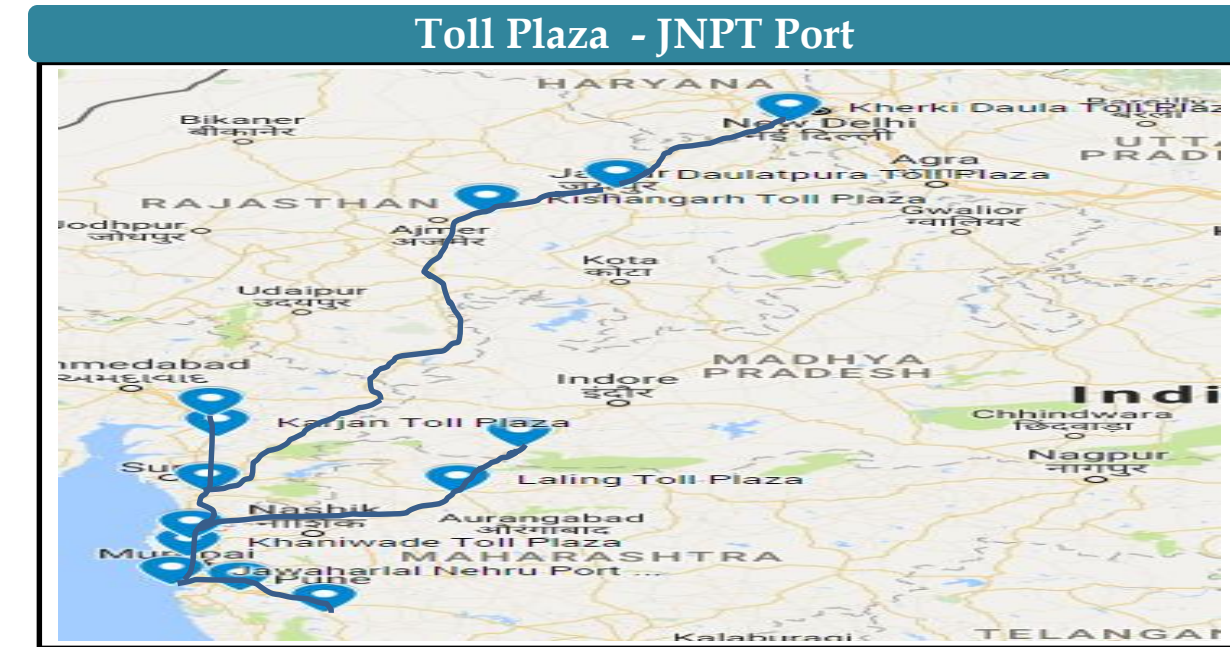
Region	Nov'18
Vasai Route	44%
Jaipur Route	1%
Kota Route	25%
Bhopal Route	13%
Wardha Route	17%

The map shows the volume wise container movement through different railway routes in import cycle for Nov18



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

Source	Destination Toll Plaza	Inter Distance (Km)	Oct'18 Avg. Speed (Km/Hr.)	Nov'18 Avg. Speed (Km/Hr.)
JNPT	Khaniwade	94	14.0	13.9
JNPT	Khalapur	60	15.1	3.4
Khaniwade	Charoti	50	36.6	38.2
Charoti	Boriach	126	26.0	27.0
Boriach	Bharthan	142	31.4	31.8
Bharthan	Vasad	60	43.5	44.6
Khalapur	Khedshivpur	105	27.2	28.6
Daulatpura	Kherki	199	24.3	23.8



Export Cycle Analysis

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

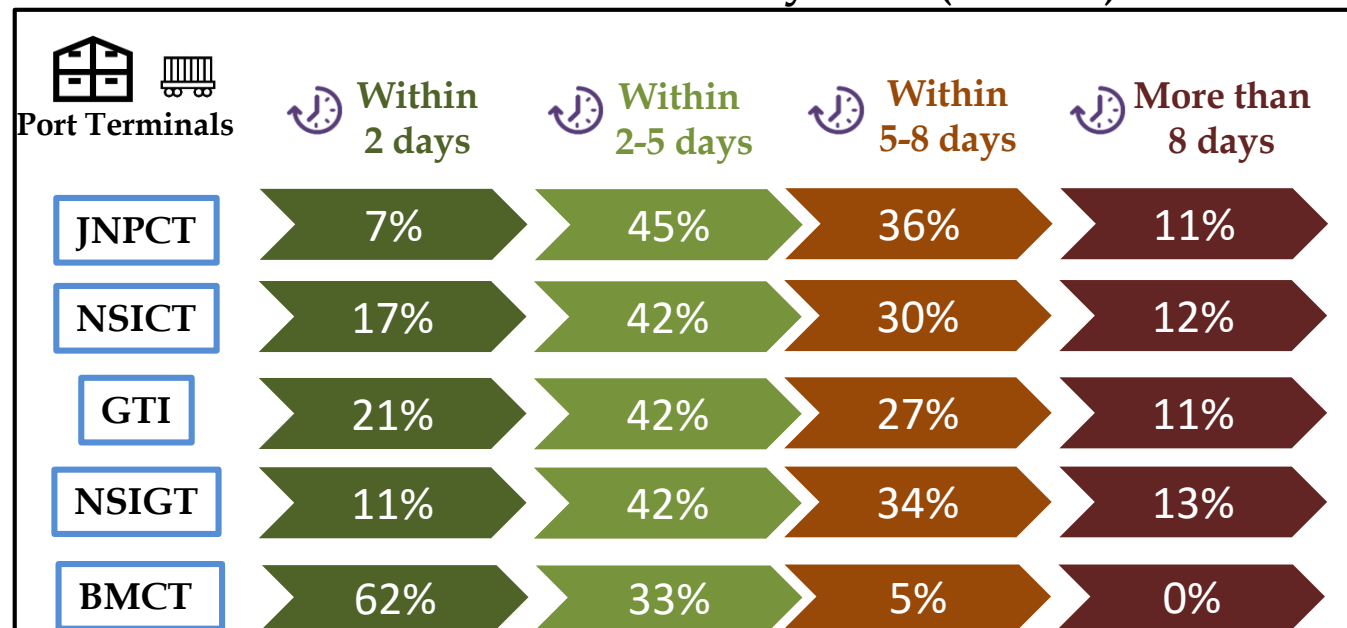
PORT EXPORT via TRAIN

(12 % 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	Oct'18 (in hrs)	Nov'18 (in hrs)
JNPCT	105.1	113.9
NSICT	96.6	105.5
GTI	90.2	99.3
NSIGT	103.7	114.9
BMCT	43.0	19.5

Container Handled: Day wise (Nov'18)



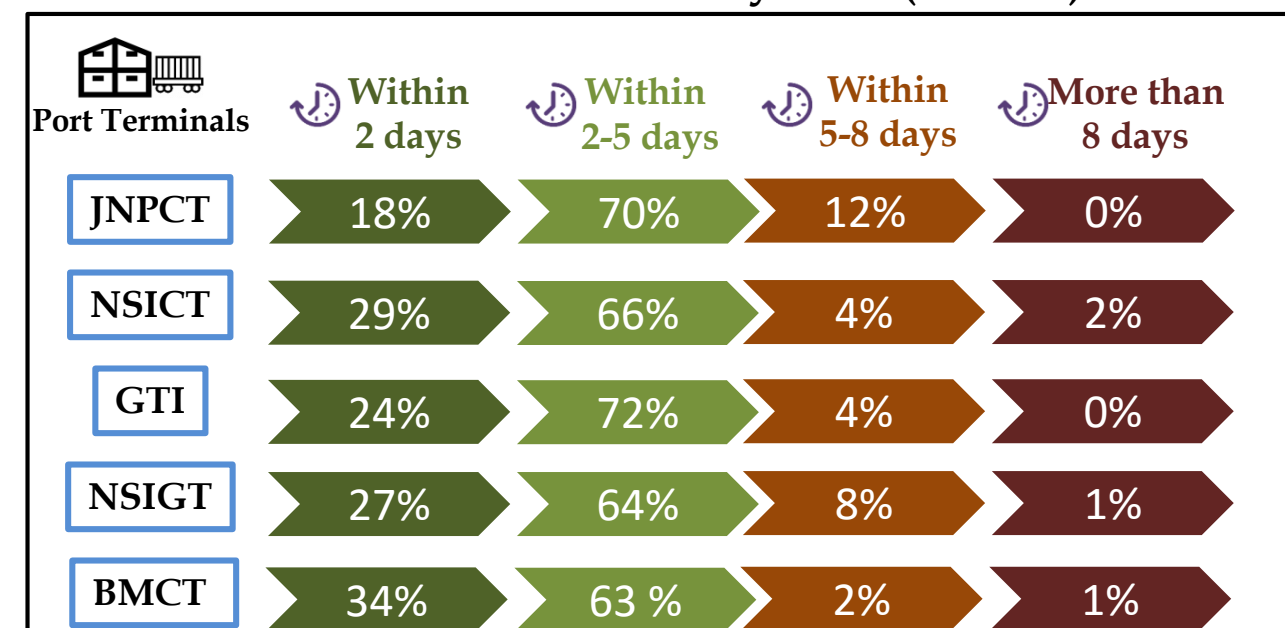
PORT EXPORT via TRUCK

(88 % 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	Oct'18 (in hrs)	Nov'18 (in hrs)
JNPCT	74.6	77.9
NSICT	66.4	67.4
GTI	59.9	68.3
NSIGT	64.6	68.7
BMCT	68.1	60.7

Container Handled: Day wise (Nov'18)



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

JNPCT

Port Dwell time based on transit type			
Nov'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	73.4 hrs	75.1 hrs	79.4 hrs

Port Dwell time based on container type		
Nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	72.5 hrs	83.5 hrs

GTI

Port Dwell time based on transit type			
Nov'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	67.2 hrs	65.7 hrs	90.2 hrs

Port Dwell time based on container type		
Nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	67.5 hrs	74.1 hrs

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

NSICT			
Port Dwell time based on transit type			
Nov'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	-	65.8 hrs	74.2 hrs

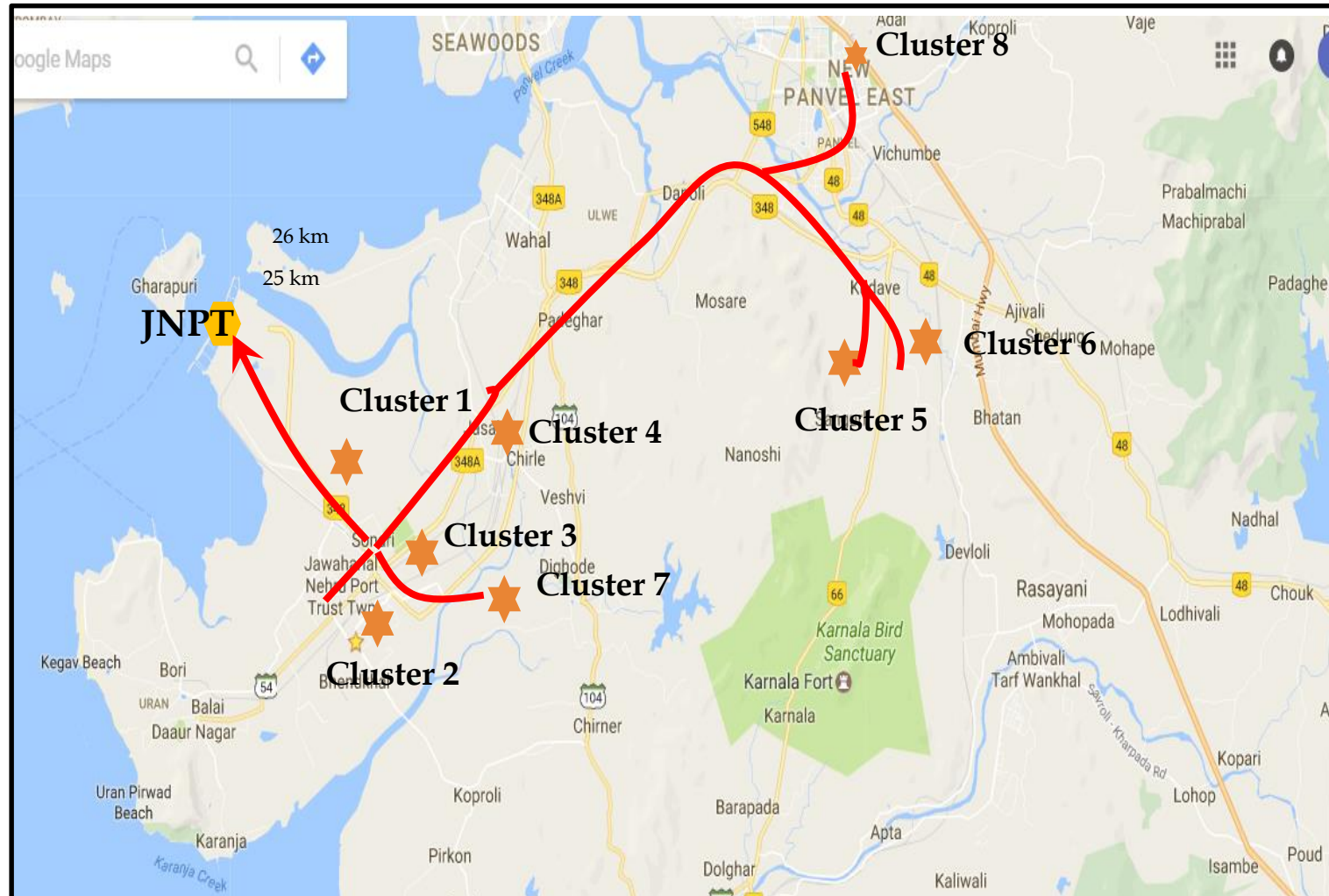
Port Dwell time based on container type		
Nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	68.9 hrs	65.6 hrs

NSIGT			
Port Dwell time based on transit type			
Nov'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	-	67.8 hrs	121.8 hrs

Port Dwell time based on container type		
Nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	71.1 hrs	57.9 hrs

BMCT			
Port Dwell time based on transit type			
Nov'18	Direct Port Export containers	Containers bound from CFS	Containers bound from ICD
Dwell time (in hrs)	-	62.9 hrs	-

Port Dwell time based on container type		
Nov'18	Laden Containers	Empty Containers
Dwell time (in hrs)	59.1 hrs	63.1 hrs

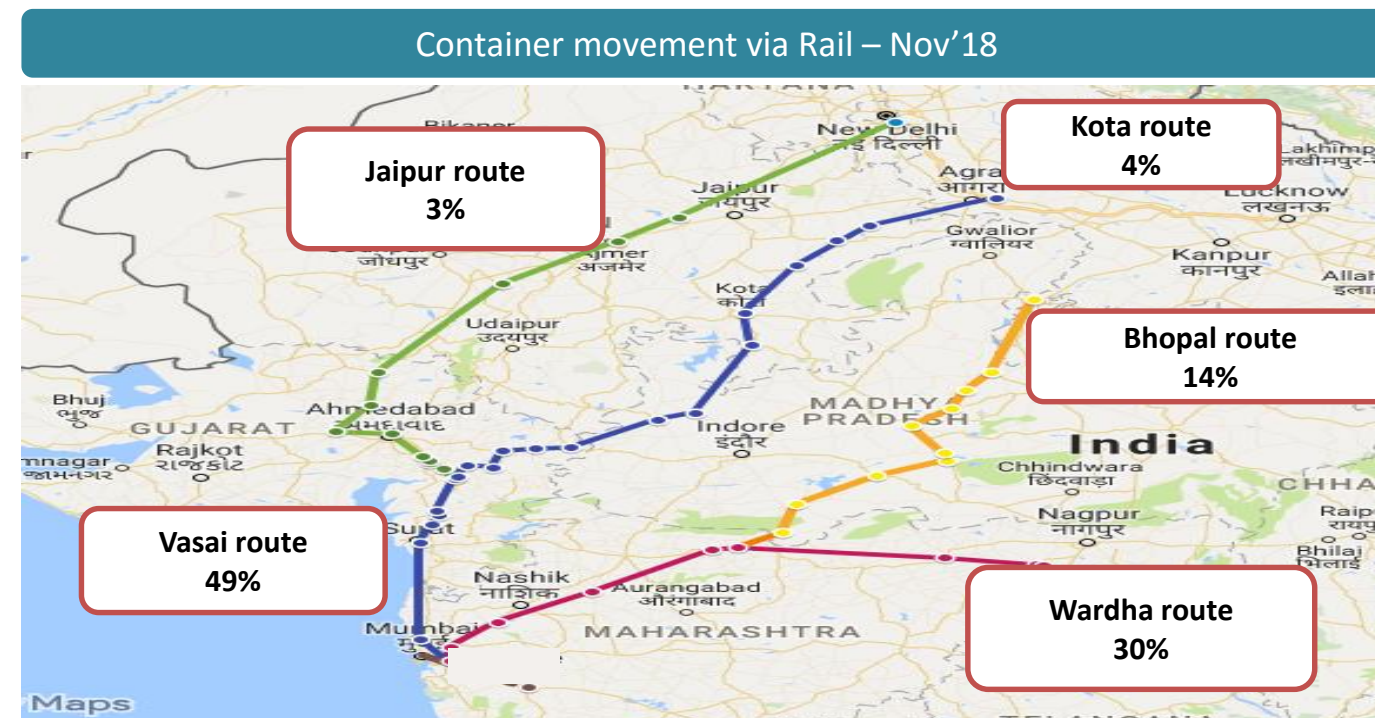


Cluster with bottleneck	
Cluster 1	JNPT Area
Cluster 2	Bhendkhal area, Khopate road
Cluster 3	Sonari area, JNPT road
Cluster 4	Chirle area, JNPT road
Cluster 5	Plaspa area, Coachi kanyakumari Highway
Cluster 6	Salva apta rd area, Bangalore highway
Cluster 7	Patilpada area, Khopate JNPT road
Cluster 8	Taloja, Navi Mumbai

Container movement around JNPT Port terminal region via Train

To JNPT Port From:	
Route	Percentage of Container Movement
Vasai Route	49%
Jaipur Route	3%
Kota Route	4%
Bhopal Route	14%
Wardha Route	30%

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



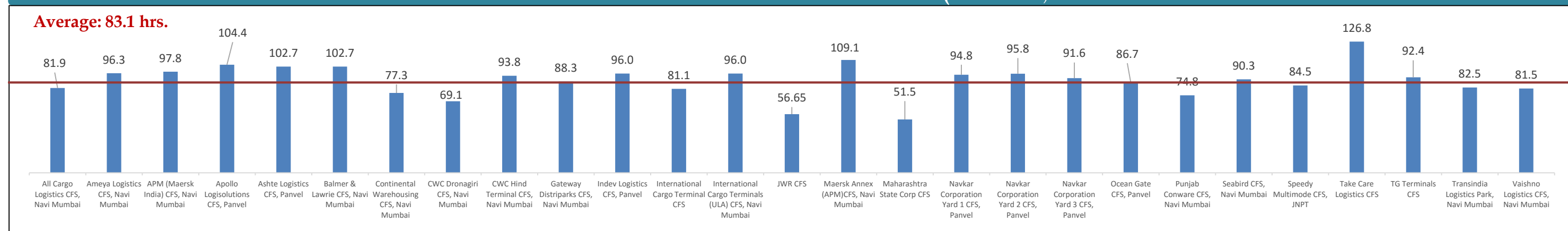
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

Below table and graphs show the dwell time of the respective CFSs for the month of Nov'18

CFS Dwell Time (in hrs)					
CFS	Oct'18	Nov'18	CFS	Oct'18	Nov'18
All Cargo Logistics CFS, Navi Mumbai	84.5	81.9	International Cargo Terminals (ULA) CFS, Navi Mumbai	86.6	96.0
Ameya Logistics CFS, Navi Mumbai	94.9	96.3	JWR CFS	56.73	56.65
APM (Maersk India) CFS, Navi Mumbai	77.1	97.8	Maersk Annex (APM)CFS, Navi Mumbai	106.8	109.1
Apollo Logisolutions CFS, Panvel	92.1	104.4	Maharashtra State Corp CFS	49.9	51.5
Ashte Logistics CFS, Panvel	101.9	102.7	Navkar Corporation Yard 1 CFS, Panvel	88.7	94.8
Balmer & Lawrie CFS, Navi Mumbai	21.2	102.7	Navkar Corporation Yard 2 CFS, Panvel	86.6	95.8
Continental Warehousing CFS, Navi Mumbai	79.8	77.3	Navkar Corporation Yard 3 CFS, Panvel	80.6	91.6
CWC Dronagiri CFS, Navi Mumbai	51.6	69.1	Ocean Gate CFS, Panvel	83.7	86.7
CWC Hind Terminal CFS, Navi Mumbai	87.3	93.8	Punjab Conware CFS, Navi Mumbai	71.6	74.8
Gateway Distriparks CFS, Navi Mumbai	83.0	88.3	Seabird CFS, Navi Mumbai	87.6	90.3
Indev Logistics CFS, Panvel	93.6	96.0	Speedy Multimode CFS, JNPT	73.3	84.5
International Cargo Terminal CFS	82.6	81.1	Take Care Logistics CFS	115.0	126.8
			TG Terminals CFS	89.7	92.4
			Transindia Logistics Park, Navi Mumbai	78.5	82.5
			Vaishno Logistics CFS, Navi Mumbai	79.3	81.5

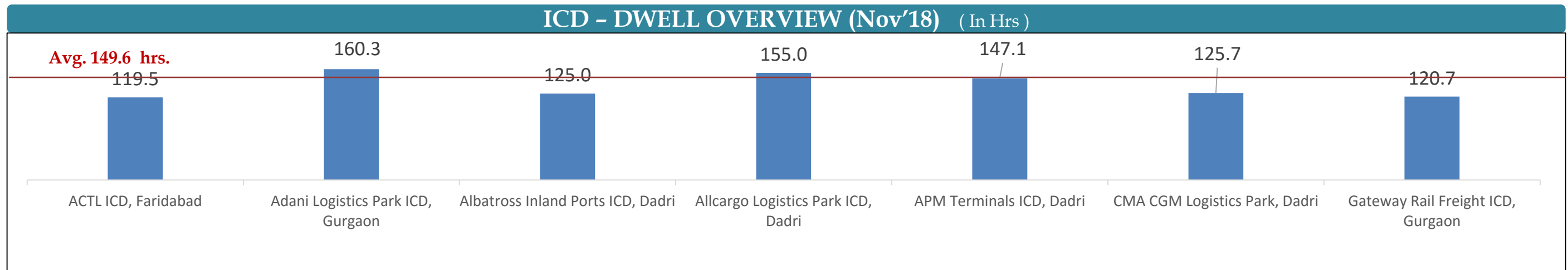
CFS - DWELL OVERVIEW - NOV'18 (IN HRS)



ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Oct'18	Nov'18
ACTL ICD, Faridabad	125.3	119.5
Adani Logistics Park ICD, Gurgaon	139.6	160.3
Albatross Inland Ports ICD, Dadri	136.6	125.0
Allcargo Logistics Park ICD, Dadri	165.0	155.0
APM Terminals ICD, Dadri	175.3	147.1
CMA CGM Logistics Park, Dadri	126.8	125.7
Gateway Rail Freight ICD, Gurgaon	109.5	120.7

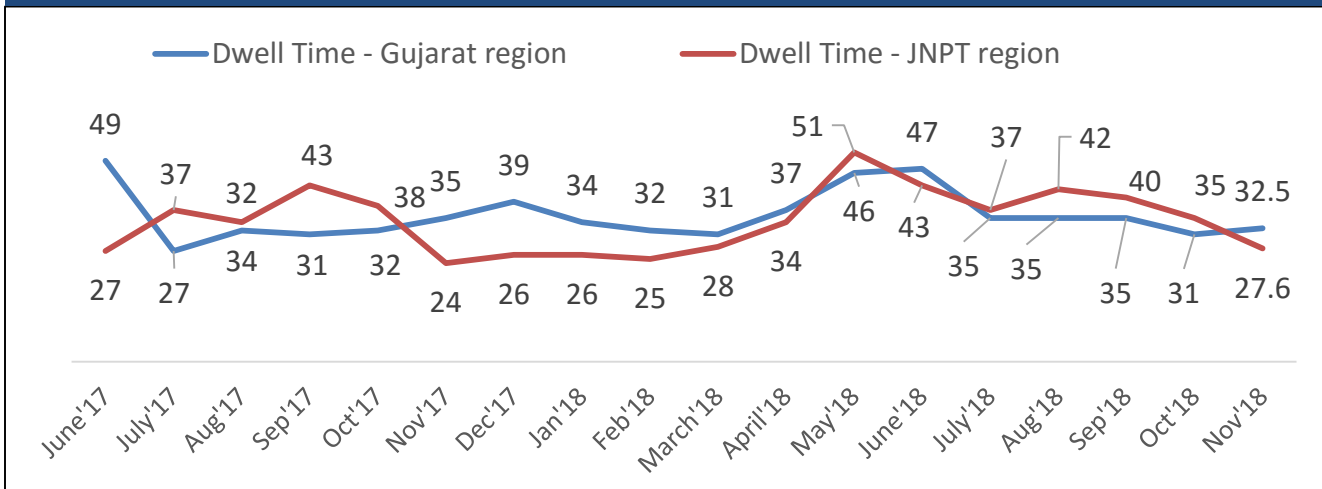


Trend Analysis

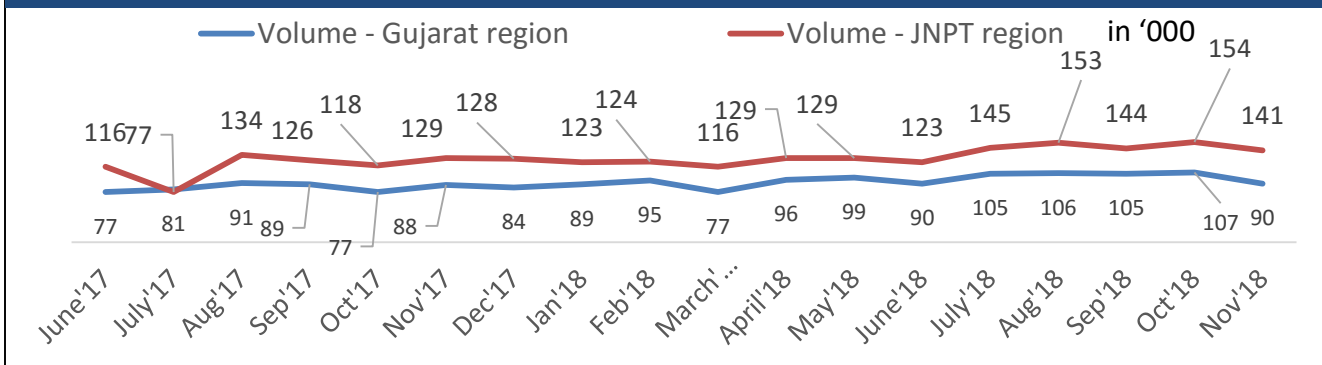
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Nov'18

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



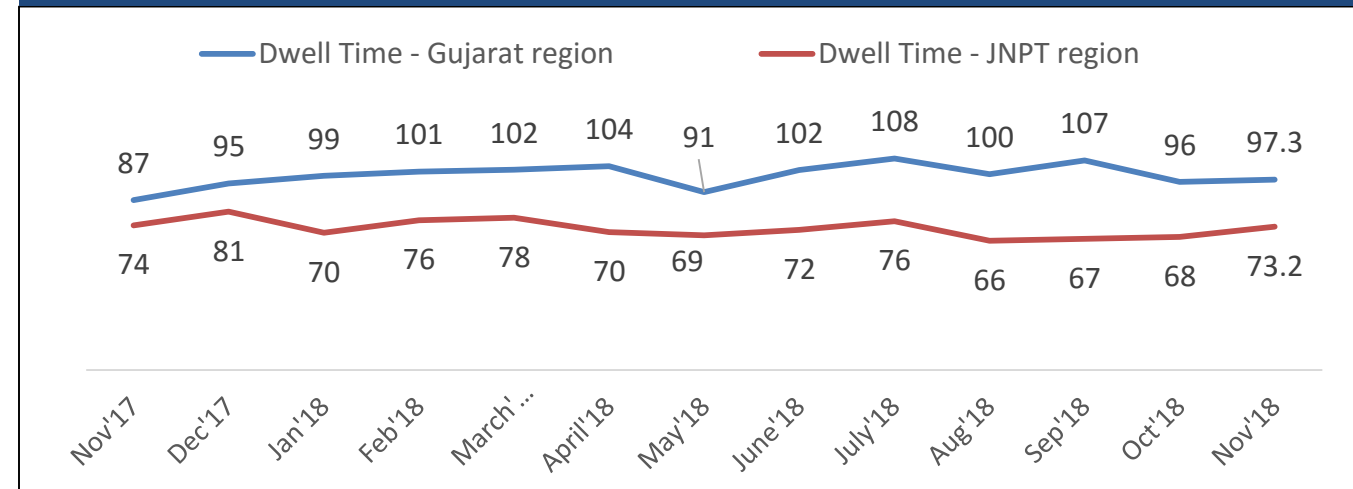
Volume – Gujarat Region Vs JNPT Region



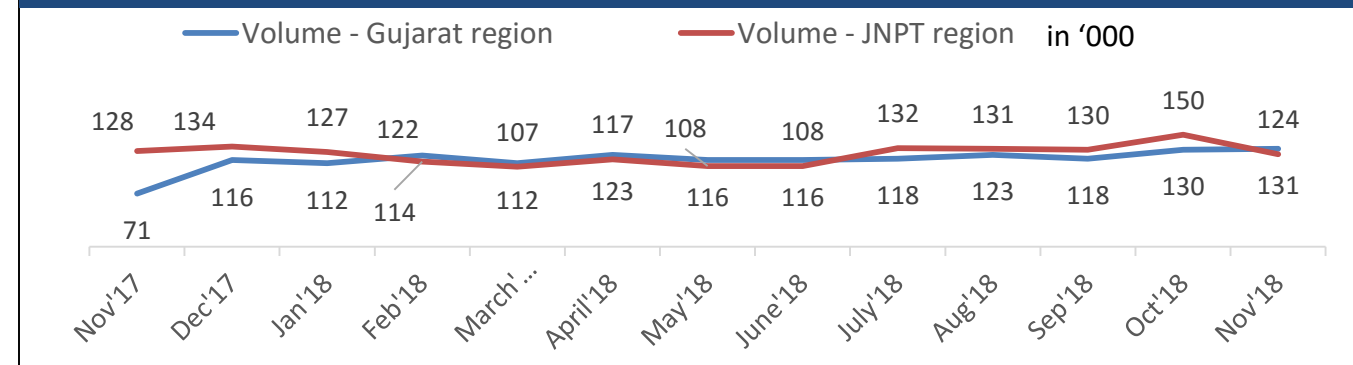
In Import cycle, for the month of Nov'18 JNPT port has catered **56% more volume** than APSEZ Port, and has maintained **15% lower dwell time** than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

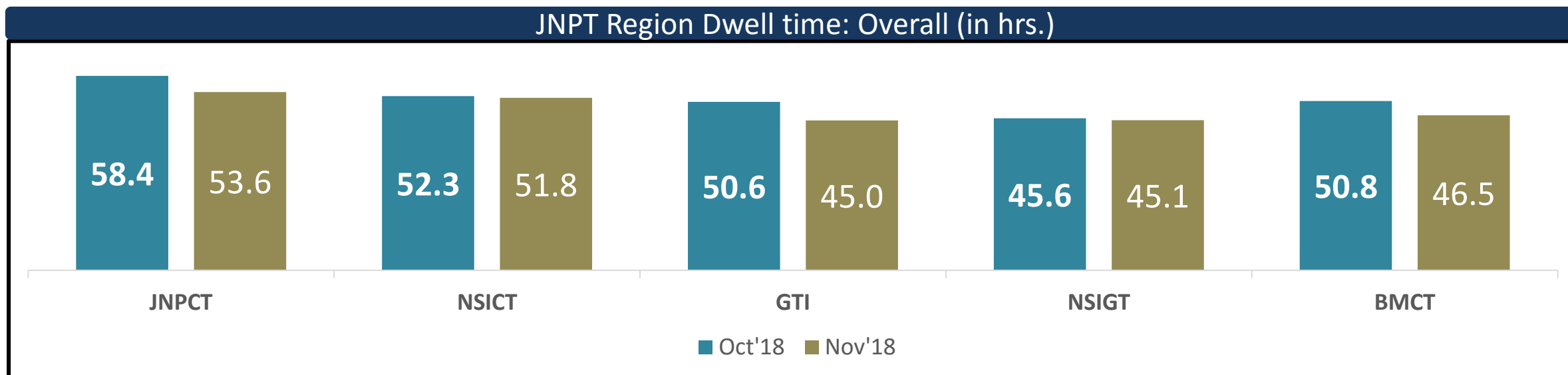


In Export cycle, for the month Nov'18 APSEZ port cater **5% more volume** than JNPT Port, but their dwell time is **34% higher** than JNPT Port

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

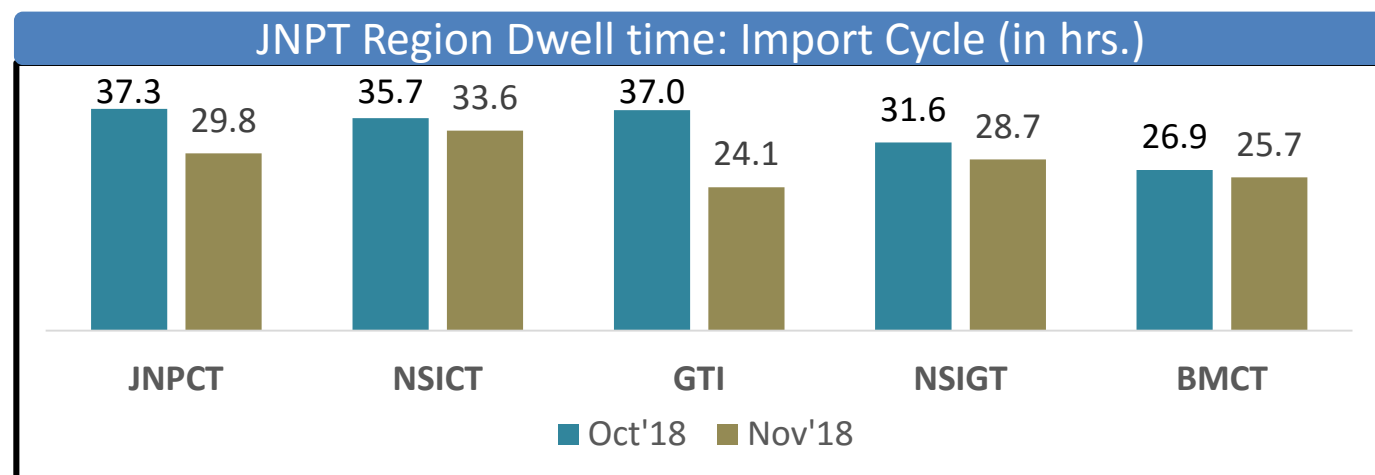


The overall JNPT region average dwell time for Nov'18 is 48.3 hrs as compared to 51.8 hrs in Oct'18

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

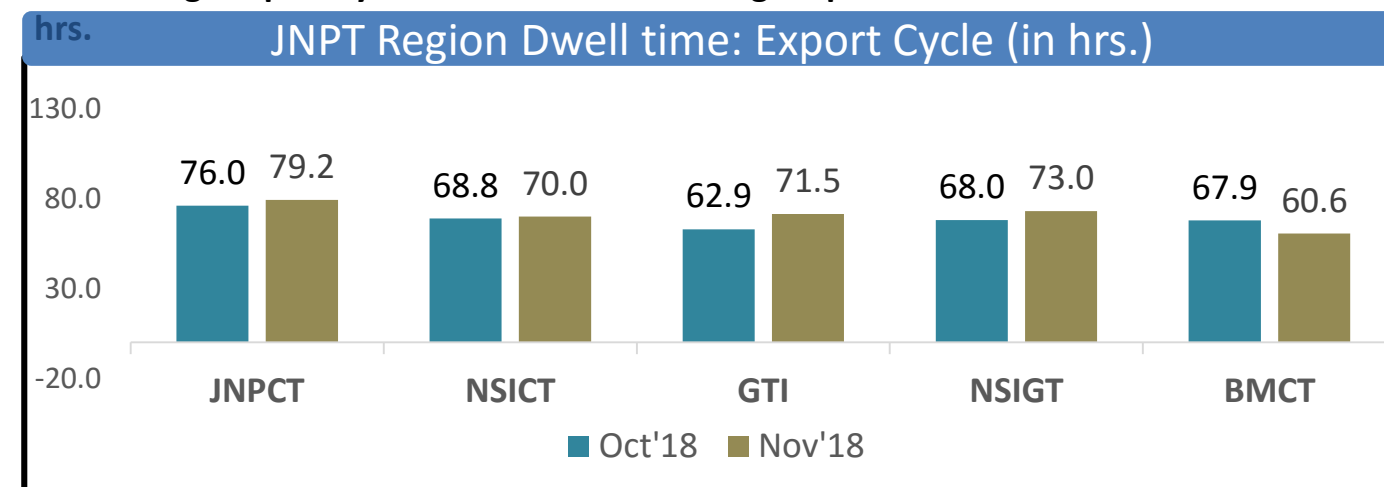
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Nov'18 is 27.6 hrs.



JNPT Export cycle Trend

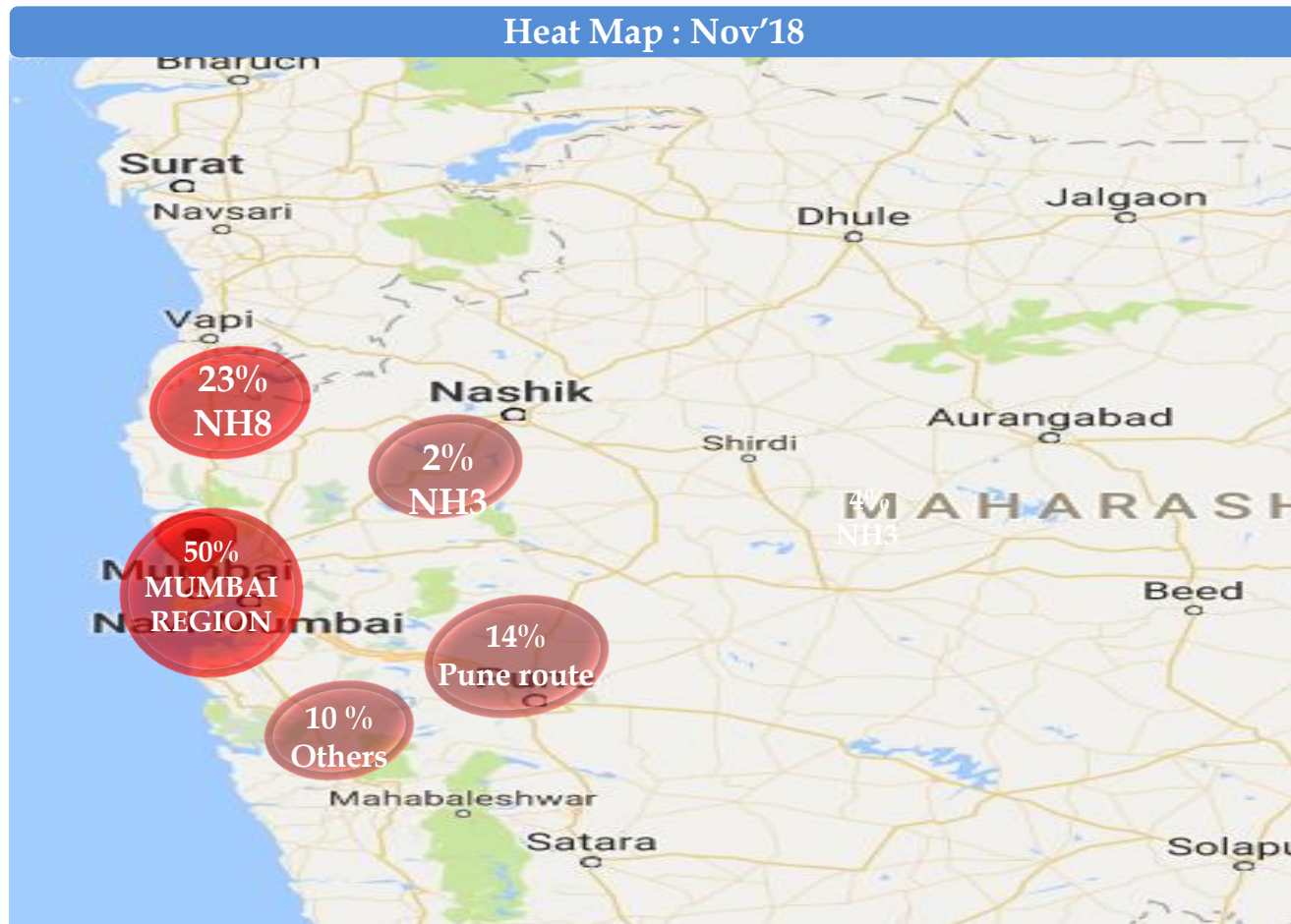
The average export cycle dwell time of JNPT region port terminals for Nov'18 is 73.2 hrs.



ANNEXURE

Container movement around JNPT Port terminal region via Truck

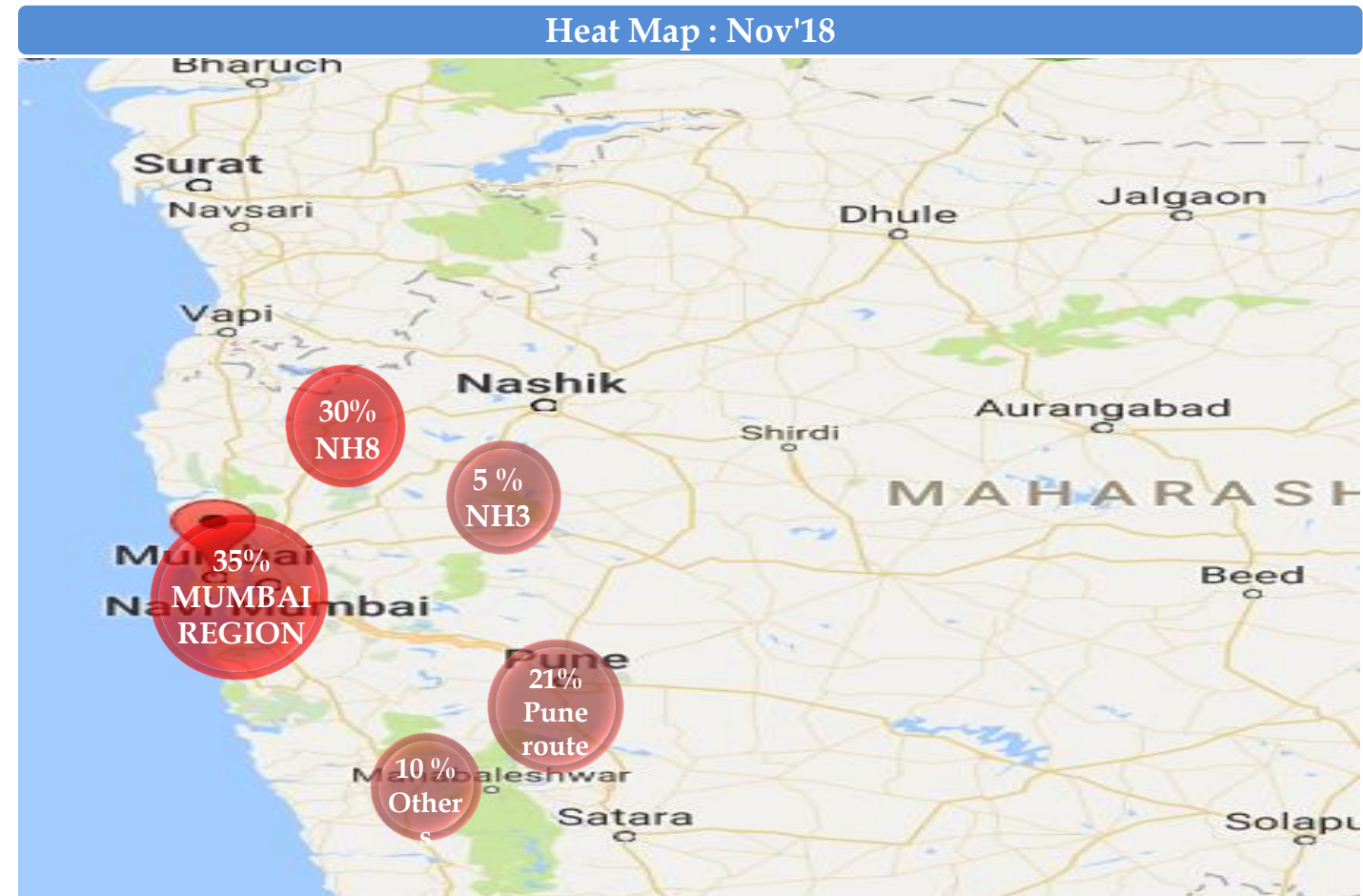
HEAT MAP : JNPCT Port Terminal



Region	Oct'18	Nov'18
Mumbai region	41%	50%
NH3	3%	2%
Pune	19%	14%
NH8	28%	23%
others	10%	10%

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

HEAT MAP : GTI Port Terminal



Region	Oct'18	Nov'18
Mumbai region	35%	35%
NH3	3%	5%
Pune	24%	21%
NH8	27%	30%
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

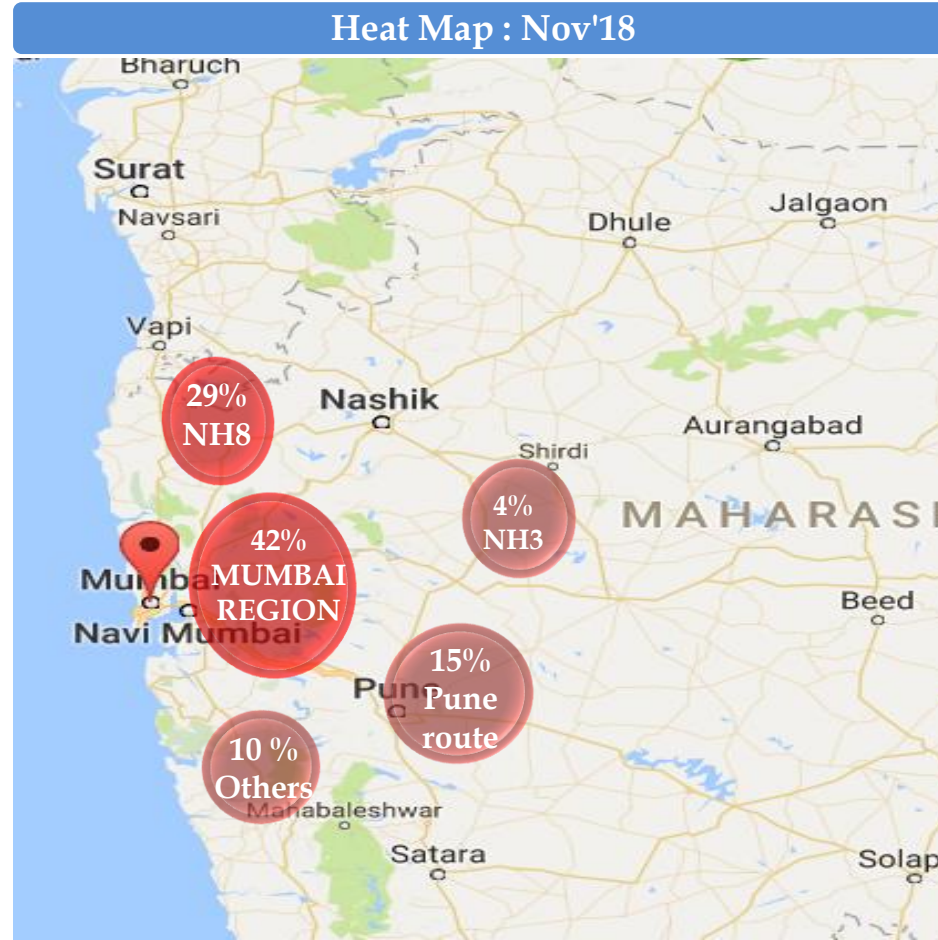
HEAT MAP : NSIGT Port Terminal



Region	Oct'18	Nov'18
Mumbai region	14%	36%
NH3	5%	4%
Pune	42%	24%
NH8	30%	26%
others	10%	10%

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

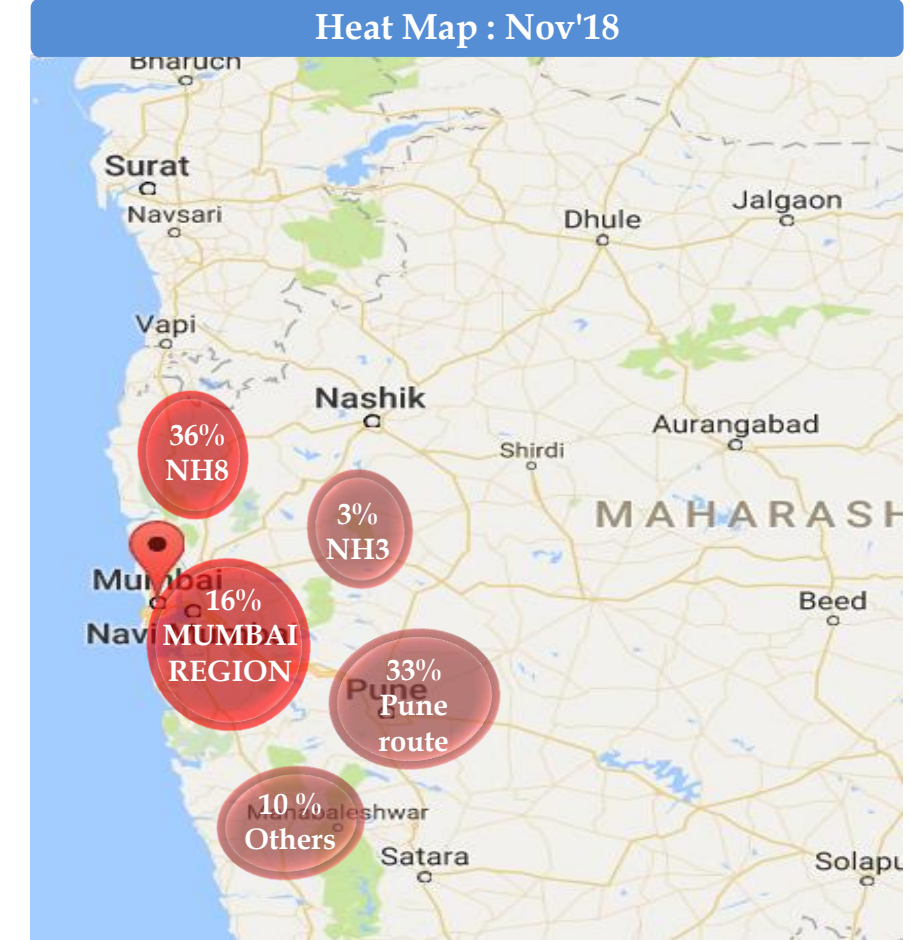
HEAT MAP : NSICT Port Terminal



Region	Oct'18	Nov'18
Mumbai region	30%	42%
NH3	5%	4%
Pune	24%	15%
NH8	31%	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	Oct'18	Nov'18
Mumbai region	13%	16%
NH3	4%	3%
Pune	37%	33%
NH8	36%	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 Nov'18					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Transindia Logistics Park Pvt, Ltd CFS	4.9	4.3	5.0	5.7	2.7
Ocean Gate Container Terminals Pvt. Ltd.CFS	8.1	4.0	6.5	5.4	2.7
Transindia Logistics Park Pvt, Ltd CFS	4.9	4.3	5.0	5.7	2.7
NAVKAR CORPORATION LTD.YARD-III CFS	10.2	5.7	6.9	7.6	3.5
PUNJAB CONWARE (PW)	5.4	3.4	4.5	4.3	1.5
Ameya Logistics Pvt. Ltd.	7.5	6.0	5.3	7.4	2.3
Apollo Logisolutions Ltd.	8.8	5.3	7.3	8.3	2.6
Continental Warehousing (Nhava Sheva) Ltd.	5.7	3.7	3.8	3.7	1.4
Seabird Marine Services Pvt Ltd.	7.0	3.6	7.8	4.9	3.1
Balmer & Lawrie & Co. Ltd.,CFS	5.6	4.8	5.7	6.7	2.4
APM (Maersk India Pvt. Ltd)CFS	4.2	2.5	3.7	3.8	1.2
Gateway Distriparks Ltd	5.6	3.9	4.2	5.5	2.2
Ashte Logistics Pvt. Ltd.	7.6	4.0	6.8	5.0	3.8
International Cargo Terminals & Infrastructure Private Limited-CFS	6.2	4.9	4.6	3.5	11.1
All Cargo Logistics Ltd., CFS	6.4	5.8	4.8	2.7	2.4
NAVKAR CORPORATION LTD.,YARD-II CFS	7.6	6.8	7.5	7.6	3.0
MAHARASHTRA STATE WARE. CORP. CFS	5.3	3.6	4.3	4.5	1.7
Indev Logistics Pvt. Ltd.CFS	8.9	4.1	4.2	5.1	1.8
CWC LOGISTIC PARK - Opr.Hind Trmnl.	5.0	3.7	5.0	4.1	1.7
Vaishno Logistics Yard CFS	6.6	4.1	4.4	6.7	1.7
International Cargo Terminal CFS	8.5	8.5	3.1	3.6	2.1
SBW Logistics CFS , Navi Mumbai	11.3	3.8	7.2	6.6	3.7
CWC Dronagiri CFS	6.8	4.1	3.7	5.8	1.8
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	4.8	3.4	3.5	3.2	1.5
JWC Logistics Park Ltd CFS	22.4	7.4	-	4.5	-
NAVKAR CORPORATION LTD.,YARD-1 CFS	-	10.3	-	9.8	7.7

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	Nov'18 (in hrs)
Ameya Logistics Pvt. Ltd.	3.6
Ashte Logistics Pvt. Ltd.	5.2
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	2.3
Balmer & Lawrie & Co. Ltd.,CFS	4.2
JWC Logistics Park Ltd CFS	5.0
Transindia Logistics Park Pvt, Ltd CFS	3.3
All Cargo Logistics Ltd., CFS	2.9
International Cargo Terminal CFS	2.9
Seabird Marine Services Pvt Ltd.	2.6
SBW Logistics CFS , Navi Mumbai	4.5
International Cargo Terminals & Infrastructure Private Limited-CFS	3.9
PUNJAB CONWARE (PW)	3.7
Indev Logistics Pvt. Ltd.CFS	5.2
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.3
Continental Warehousing (Nhava Sheva) Ltd.	2.4
Gateway Distriparks Ltd	4.1
Apollo Logisolutions Ltd.	8.3
Vaishno Logistics Yard CFS	4.1
NAVKAR CORPORATION LTD.,YARD-II CFS	5.4
NAVKAR CORPORATION LTD.,YARD-1 CFS	4.8
MAHARASHTRA STATE WARE. CORP. CFS	2.6
Ocean Gate Container Terminals Pvt. Ltd.CFS	4.0
Maersk Annex (APM)CFS	4.1
NAVKAR CORPORATION LTD.YARD-III CFS	5.4
APM (Maersk India Pvt. Ltd)CFS	2.4
CWC Dronagiri CFS	22.9

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	Nov'18 (in hrs)
Ameya Logistics Pvt. Ltd.	3.6
Ashte Logistics Pvt. Ltd.	3.8
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.6
Balmer & Lawrie & Co. Ltd.,CFS	3.2
JWC Logistics Park Ltd CFS	5.0
Transindia Logistics Park Pvt, Ltd CFS	3.2
All Cargo Logistics Ltd., CFS	2.5
International Cargo Terminal CFS	2.6
Seabird Marine Services Pvt Ltd.	2.0
SBW Logistics CFS , Navi Mumbai	4.1
International Cargo Terminals & Infrastructure Private Limited-CFS	2.8
PUNJAB CONWARE (PW)	2.5
Indev Logistics Pvt. Ltd.CFS	4.4
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.2
Continental Warehousing (Nhava Sheva) Ltd.	2.0
Gateway Distriparks Ltd	3.3
Apollo Logisolutions Ltd.	6.7
Vaishno Logistics Yard CFS	2.1
NAVKAR CORPORATION LTD.,YARD-II CFS	3.8
NAVKAR CORPORATION LTD.,YARD-1 CFS	4.5
MAHARASHTRA STATE WARE. CORP. CFS	2.2
Ocean Gate Container Terminals Pvt. Ltd.CFS	3.0
Maersk Annex (APM)CFS	2.6
NAVKAR CORPORATION LTD.YARD-III CFS	4.1
APM (Maersk India Pvt. Ltd)CFS	1.8

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	Nov'18 (in hrs)
Ameya Logistics Pvt. Ltd.	3.2
Ashte Logistics Pvt. Ltd.	3.6
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.9
Balmer & Lawrie & Co. Ltd.,CFS	5.5
JWC Logistics Park Ltd CFS	3.0
Transindia Logistics Park Pvt, Ltd CFS	3.2
All Cargo Logistics Ltd., CFS	1.8
International Cargo Terminal CFS	2.2
Seabird Marine Services Pvt Ltd.	2.8
SBW Logistics CFS , Navi Mumbai	4.1
International Cargo Terminals & Infrastructure Private Limited-CFS	3.1
PUNJAB CONWARE (PW)	2.5
Indev Logistics Pvt. Ltd.CFS	4.5
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.0
Continental Warehousing (Nhava Sheva) Ltd.	1.6
Gateway Distriparks Ltd	3.2
Apollo Logisolutions Ltd.	7.6
Vaishno Logistics Yard CFS	1.8
NAVKAR CORPORATION LTD.,YARD-II CFS	3.8
NAVKAR CORPORATION LTD.,YARD-1 CFS	4.9
MAHARASHTRA STATE WARE. CORP. CFS	25.7
Ocean Gate Container Terminals Pvt. Ltd.CFS	6.7
Maersk Annex (APM)CFS	3.1
NAVKAR CORPORATION LTD.YARD-III CFS	6.8
APM (Maersk India Pvt. Ltd)CFS	2.5

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	Nov'18 (in hrs)
Ameya Logistics Pvt. Ltd.	2.6
Ashte Logistics Pvt. Ltd.	5.1
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	2.0
Balmer & Lawrie & Co. Ltd.,CFS	2.5
JWC Logistics Park Ltd CFS	4.3
Transindia Logistics Park Pvt, Ltd CFS	3.3
All Cargo Logistics Ltd., CFS	2.7
International Cargo Terminal CFS	2.2
Seabird Marine Services Pvt Ltd.	2.7
SBW Logistics CFS , Navi Mumbai	9.0
International Cargo Terminals & Infrastructure Private Limited-CFS	2.9
PUNJAB CONWARE (PW)	3.0
Indev Logistics Pvt. Ltd.CFS	5.2
CWC LOGISTIC PARK - Opr.Hind Trmnl.	1.9
Continental Warehousing (Nhava Sheva) Ltd.	1.8
Gateway Distriparks Ltd	3.6
Apollo Logisolutions Ltd.	8.3
Vaishno Logistics Yard CFS	5.3
NAVKAR CORPORATION LTD.,YARD-II CFS	6.7
NAVKAR CORPORATION LTD.,YARD-1 CFS	4.6
Ocean Gate Container Terminals Pvt. Ltd.CFS	3.7
Maersk Annex (APM)CFS	4.0
NAVKAR CORPORATION LTD.YARD-III CFS	4.1
APM (Maersk India Pvt. Ltd)CFS	2.3

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 Nov'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	2.3	3.4
Cluster 2	6	13	3.9	3.9
Cluster 3	6	11	2.6	3.6
Cluster 4	1	13	4.1	4.1
Cluster 5	2	25	4.5	5.7
Cluster 6	6	25	5.3	5.5
Cluster 7	4	12	3.1	4.3
Cluster 8	1	34	4.5	3.8

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Nov'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	1.6	4.8
Cluster 2	6	13	2.6	5.6
Cluster 3	6	11	2.1	5.4
Cluster 4	1	13	2.1	6.6
Cluster 5	2	25	4.0	15.2
Cluster 6	6	25	4.3	8.8
Cluster 7	4	12	2.8	5.7
Cluster 8	1	34	4.1	11.3

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 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 Nov'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	3.5
Cluster 2	6	13	3.1	4.4
Cluster 3	6	11	2.5	4.3
Cluster 4	1	13	1.8	0.0
Cluster 5	2	25	4.9	3.2
Cluster 6	6	25	4.7	6.9
Cluster 7	4	12	2.5	5.0
Cluster 8	1	34	4.1	7.2






CFS Cluster : NSIGT Terminal

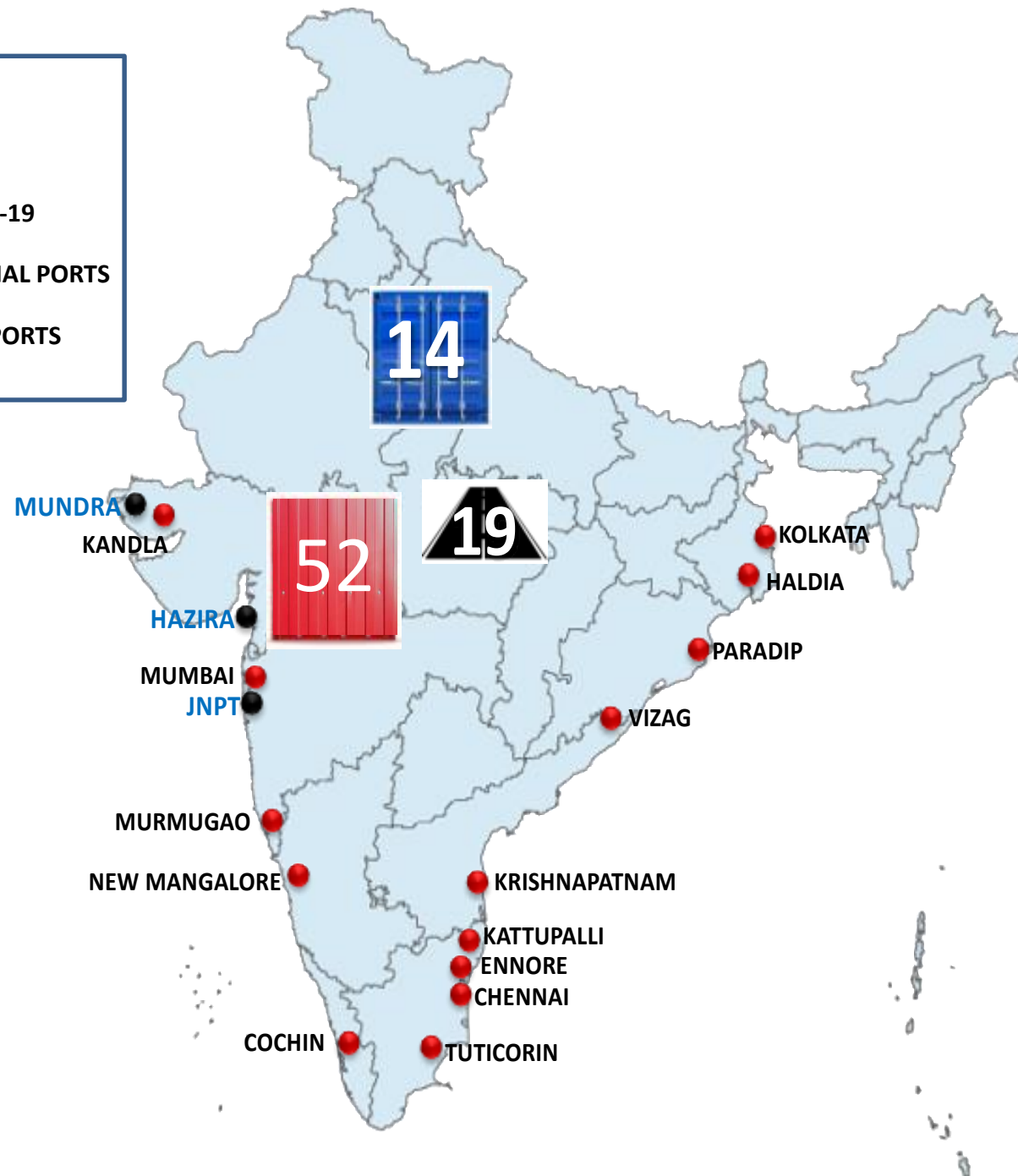
JNPCT terminal for month of Nov'18				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.0	3.2
Cluster 2	6	13	2.5	4.0
Cluster 3	6	11	1.3	4.5
Cluster 4	1	13	5.3	6.7
Cluster 5	2	25	4.0	5.0
Cluster 6	6	25	5.2	7.6
Cluster 7	4	12	2.6	5.7
Cluster 8	1	34	9.0	6.6

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Nov'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	2.1	1.5
Cluster 2	6	13	1.9	2.1
Cluster 3	6	11	2.8	1.7
Cluster 4	1	13	3.9	1.7
Cluster 5	2	25	3.1	1.4
Cluster 6	6	25	4.3	3.3
Cluster 7	4	12	2.3	2.4
Cluster 8	1	34	5.2	3.7

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**

-  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>	

S.No	CFS Name
1.	All Cargo Logistics CFS, Navi Mumbai
2.	Ameya Logistics CFS, Navi Mumbai
3.	Apollo Logisolutions CFS, Panvel
4.	Ashte Logistics CFS, Panvel
5.	Continental Warehousing CFS, Navi Mumbai
6.	CWC Hind Terminal CFS, Navi Mumbai
7.	Dronagiri Rail Terminal CFS, Navi Mumbai
8.	Gateway Distriparks CFS, Navi Mumbai
9.	Indev Logistics CFS, Panvel
10.	International Cargo Terminal CFS
11.	International Cargo Terminals (ULA) CFS, Navi Mumbai
12.	JWR CFS
13.	Maersk Annex (APM)CFS, Navi Mumbai
14.	Maharashtra State Corp CFS
15.	Navkar Corporation Yard 1 CFS, Panvel
16.	Navkar Corporation Yard 2 CFS, Panvel
17.	Navkar Corporation Yard 3 CFS, Panvel
18.	Ocean Gate CFS, Panvel
19.	Punjab Conware CFS, Navi Mumbai
20.	Seabird CFS, Navi Mumbai
21.	Speedy Multimode CFS, JNPT
22.	Take Care Logistics CFS
23.	TG Terminals CFS
24.	Transindia Logistics Park, Navi Mumbai
25.	Vaishno Logistics CFS, Navi Mumbai



THANK YOU