

Terminal wise Dwell Time Performance – Snapshot

Import Cycle			Export Cycle		
Port	Nov'19 (in hrs)	Dec'19 (in hrs)	Port	Nov'19 (in hrs)	Dec'19 (in hrs)
JNPCT	25.9	24.8	JNPCT	79.7	76.6
NSICT	20.1	17.3	NSICT	45.0	59.3
GTI	14.8	15.2	GTI	66.8	63.8
NSIGT	22.3	18.9	NSIGT	67.5	65.4
BMCT/PSA	18.8	17.9	BMCT/PSA	74.3	77.2

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- Train bound container performance has improved which also affected the whole ICD bound container performance

Month	Import Cycle (Train Bound)		Port to ICD		ICD Dwell Time		ICD to Port		Export Cycle (Train Bound)
Dec'19	32.4 hrs	↑ 4%	67.2 hrs	↑ 13%	120.8 hrs	↑ 7%	56.4 hrs	↑ 0.5%	52.1 hrs
Nov'19	33.7 hrs		77.3 hrs		130.1 hrs		56.7 hrs		53.7 hrs

IMPORT

Port Dwell Time

Mode	Nov'19 (in hrs)	Dec'19 (in hrs)
Overall	20.7	19.1
Truck	18.7	17.5
Train	36.2	34.0

EXPORT

Mode	Nov'19 (in hrs)	Dec'19 (in hrs)
Overall	79.6	81.7
Truck	80.3	81.8
Train	75.0	81.2

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



Inland
Container
Depot (ICD)

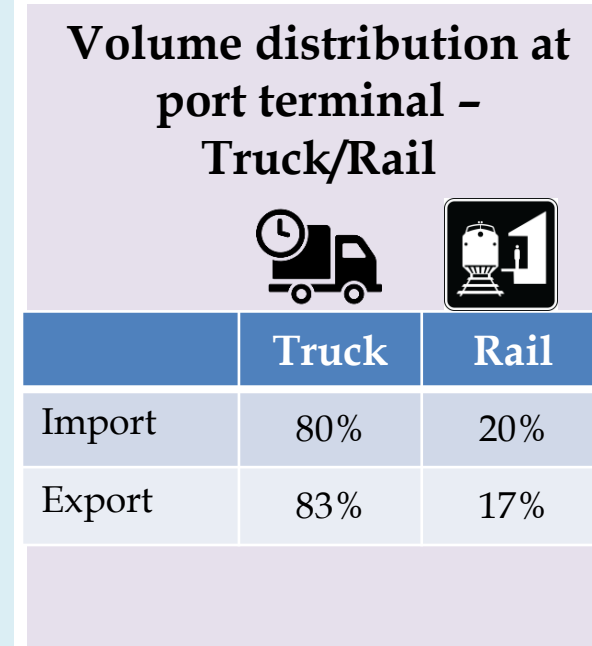
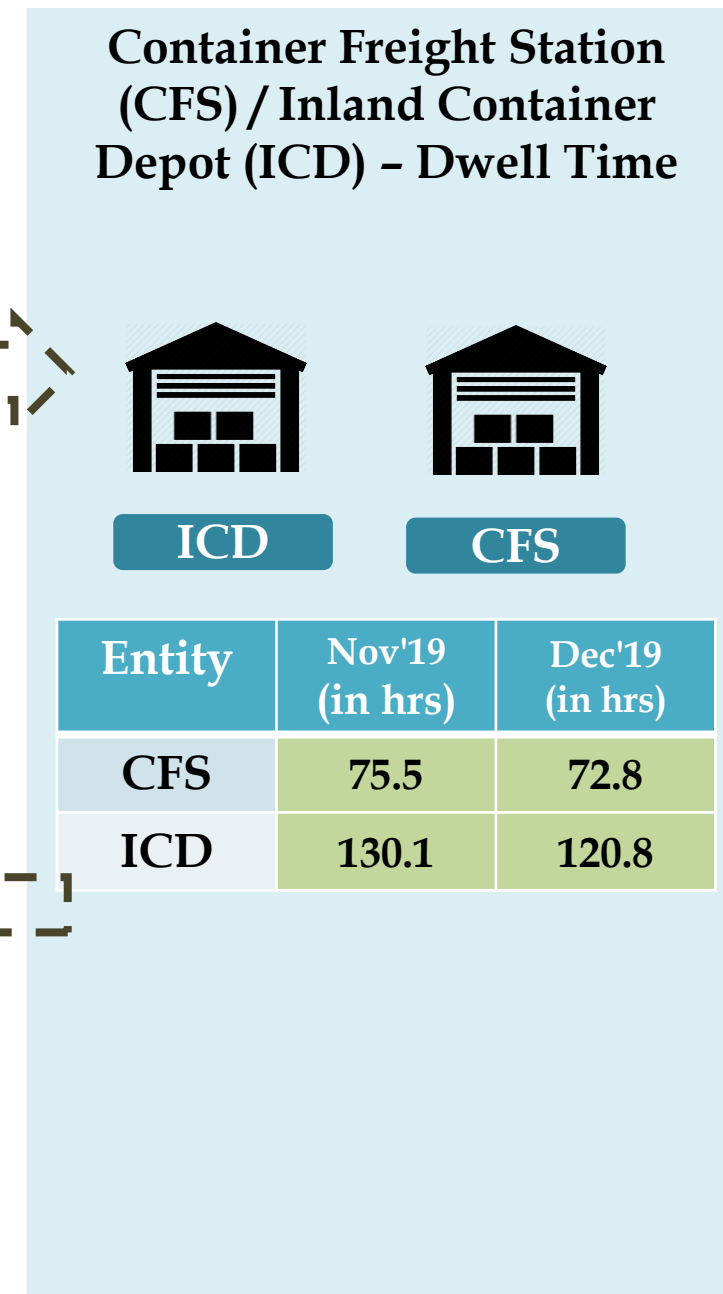
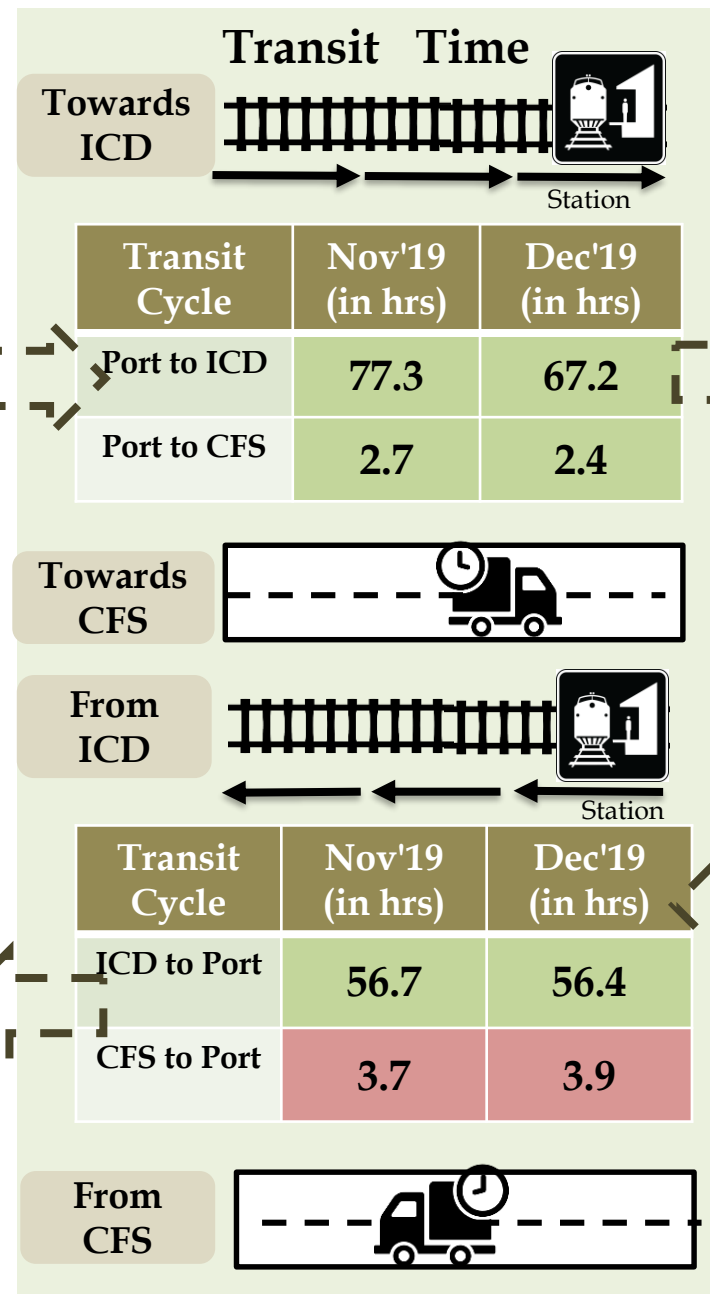
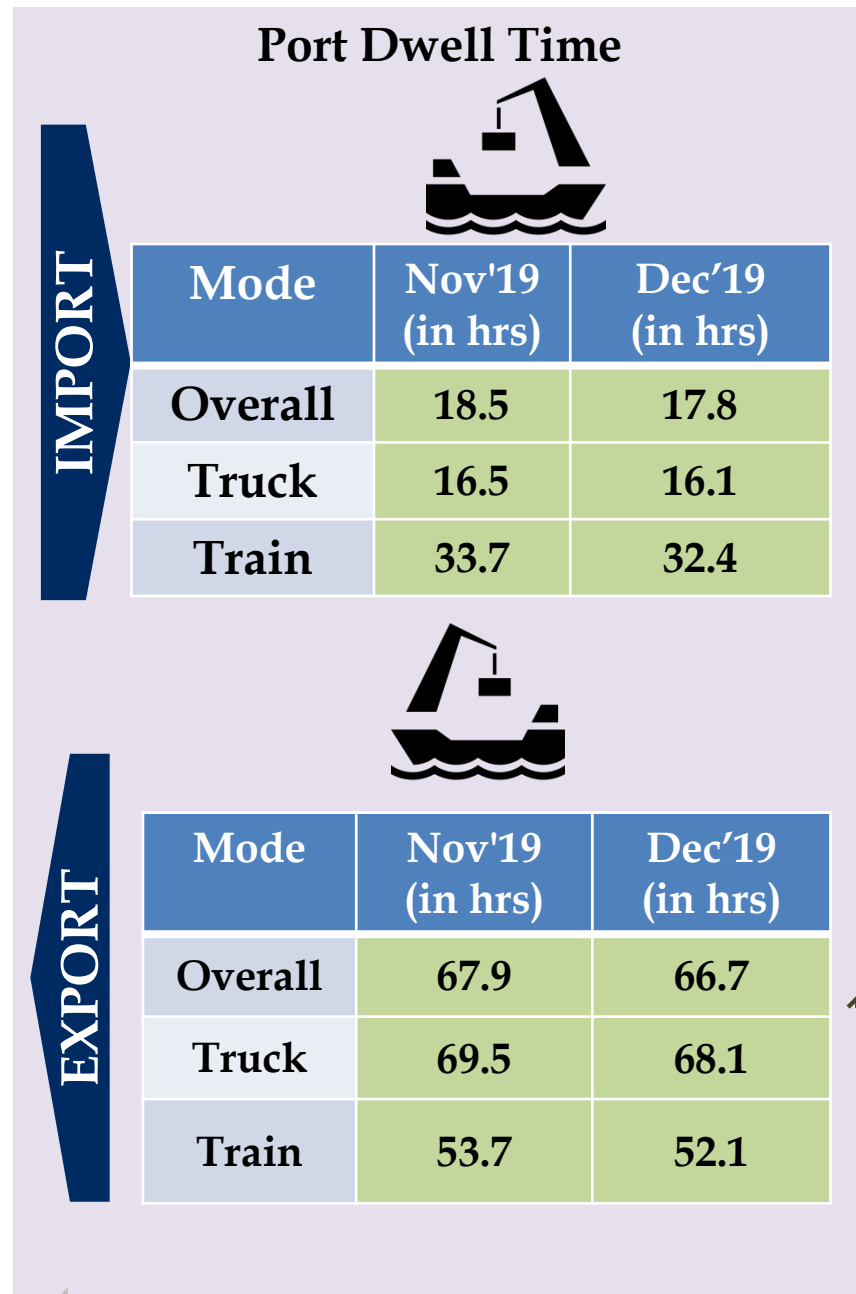



Container
Freight
Stations (CFS)


Entity	Nov'19 (in hrs)	Dec'19 (in hrs)
CFS	80.4	75.1
ICD	130.1	120.8

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

Container Lifecycle (Import Cycle)



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

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

Container Lifecycle (Export Cycle)

Container handling performance around Parking Plaza and JNPT Port Terminal is depicted below for the month Nov'19 and Dec'19



Parking Plaza Gate In – Gate Out

Waiting Time at Parking Plaza

Mode	Nov'19 (in hrs)	Dec'19 (in hrs)
Overall	7.6	7.5



Parking Plaza Gate Out – Terminal In

Transit time from Parking plaza to JNPT Port Terminal

Mode	Nov'19 (in hrs)	Dec'19 (in hrs)
Overall	1.6	2.0

Export Cycle



 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 (Dec'19 - in hrs)			Compared to Nov'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	17.8	4% ↑
	Port Dwell Time for Truck Bound Containers	16.1	3% ↑
	Port Dwell time for Train Bound Containers	32.4	4% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	28.8	19% ↑
	Port Dwell time Containers bound for CFS	15.2	2% ↓
	Port Dwell for Empty Containers	23.5	13% ↑
	Port Dwell for Laden Containers	17.8	4% ↑
TRANSIT TIME	Port to ICD	67.2	13% ↑
	Port to CFS	2.4	9% ↑

EXPORT CYCLE DWELL TIME (Dec'19- in hrs)			Compared to Nov'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	66.7	2% ↑
	Port Dwell Time for Truck Bound Containers	68.1	2% ↑
	Port Dwell time for Train Bound Containers	52.1	3% ↑
	Port Dwell time Direct Port Entry (DPE) containers	68.5	3% ↑
	Port Dwell time Containers bound from CFS	60.0	1% ↑
	Port Dwell for Empty Containers	76.4	0.1 ↓
	Port Dwell for Laden Containers	66.7	2% ↑
TRANSIT TIME	ICD to Port	56.4	0.5% ↑
	CFS to Port	3.9	6% ↓



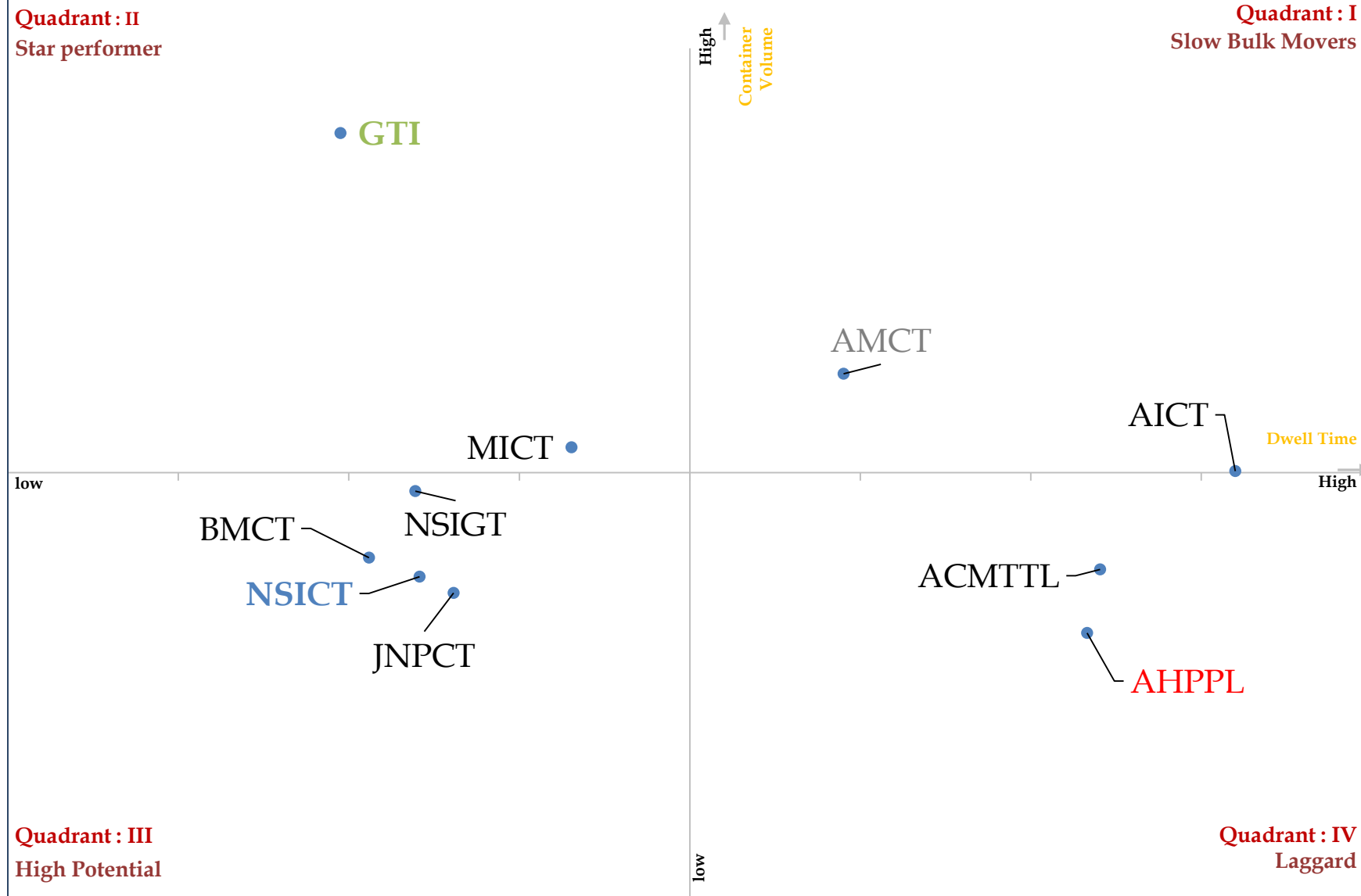
 The arrows depict increase/decrease in performance of the stakeholders in comparison to Nov'19



Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index - Dec'19



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

Top Performing Terminal

Gateway Terminals India

Nov'19

Dec'19

34.1 hrs

32.5 hrs



Low Performing Terminal

Adani Hazira Port Private Limited (AHPPL)

Nov'19

Dec'19

83.3 hrs

73.2 hrs



Note: The performance benchmarking is based on performance index



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



CFS



Performance Benchmarking



ICD

Top Performing CFS

JWR CFS



Nov'19	Dec'19
51.0 hrs	49.0 hrs 

Low Performing CFS

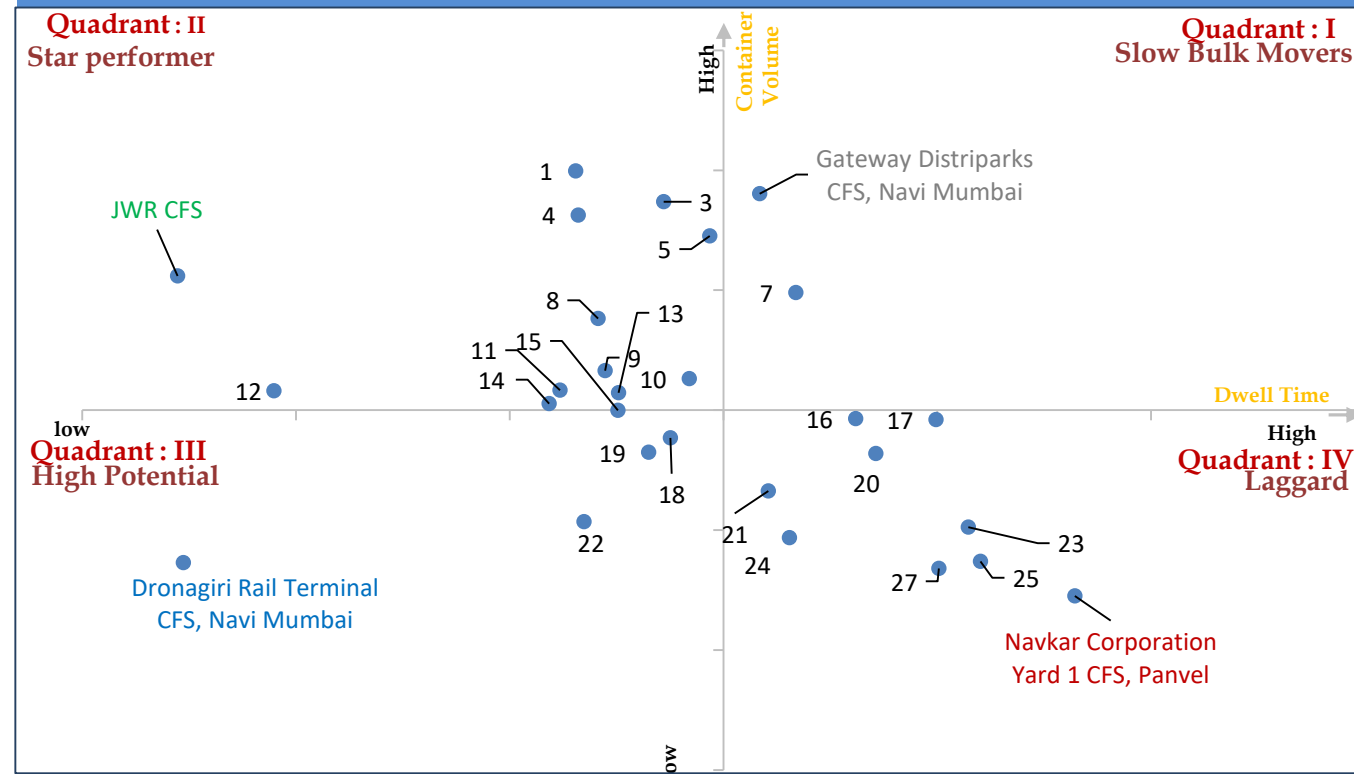
Navkar Corporation Yard 1 CFS, Panvel

Nov'19	Dec'19
107.5 hrs	95.8 hrs 

Note: The performance benchmarking is based on performance index


  The arrows depict increase/decrease in overall performance of the stakeholders as compared to Nov'19

Performance Index: Western Corridor CFS




Top Performing ICD

Gateway Rail Freight ICD, Gurgaon

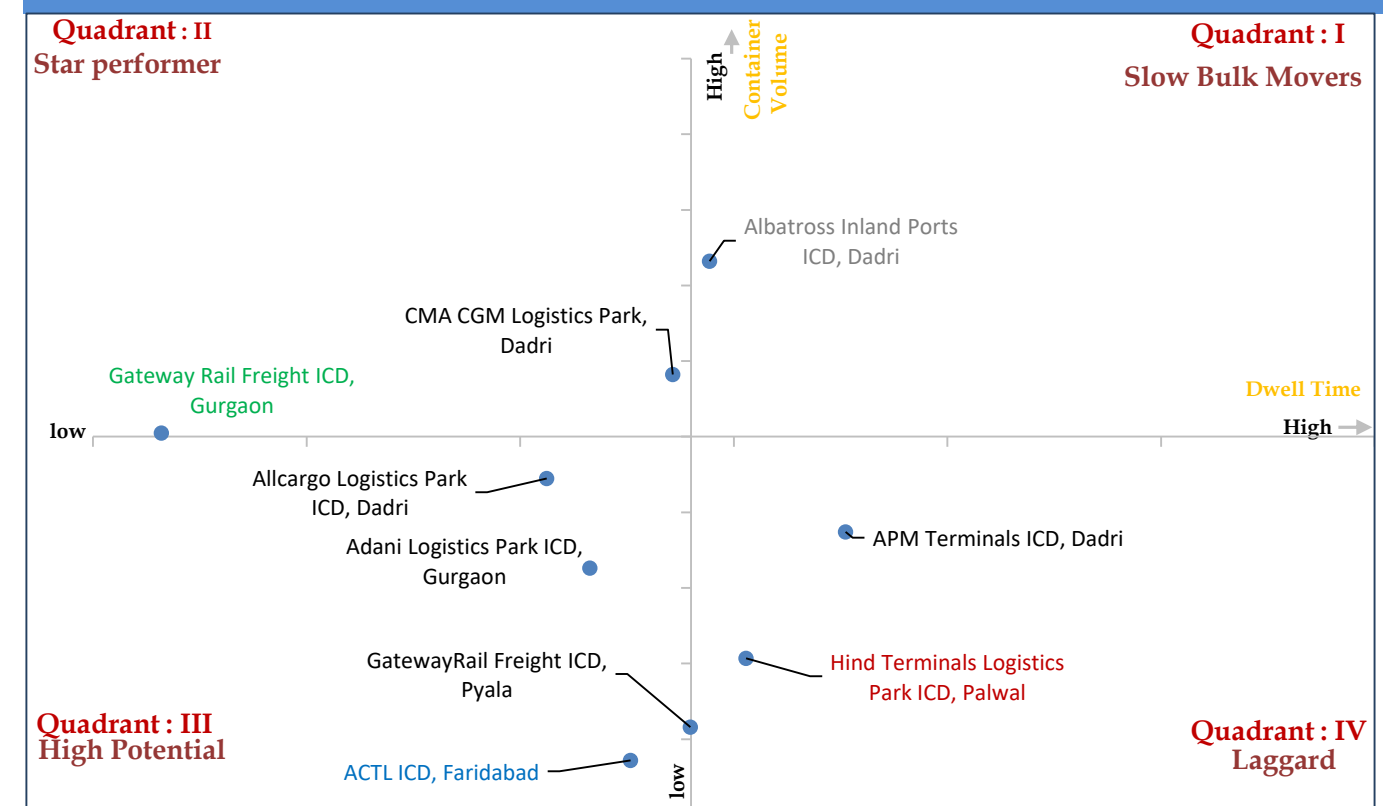
Nov'19	Dec'19
71.5 hrs	79.8 hrs 

Low Performing ICD

Hind Terminals Logistics Park ICD, Palwal

Nov'19	Dec'19
154.7 hrs	133.3 hrs 

Performance Index: ICD



Kindly refer to Annexure section for the names of CFS

Import Cycle Analysis

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

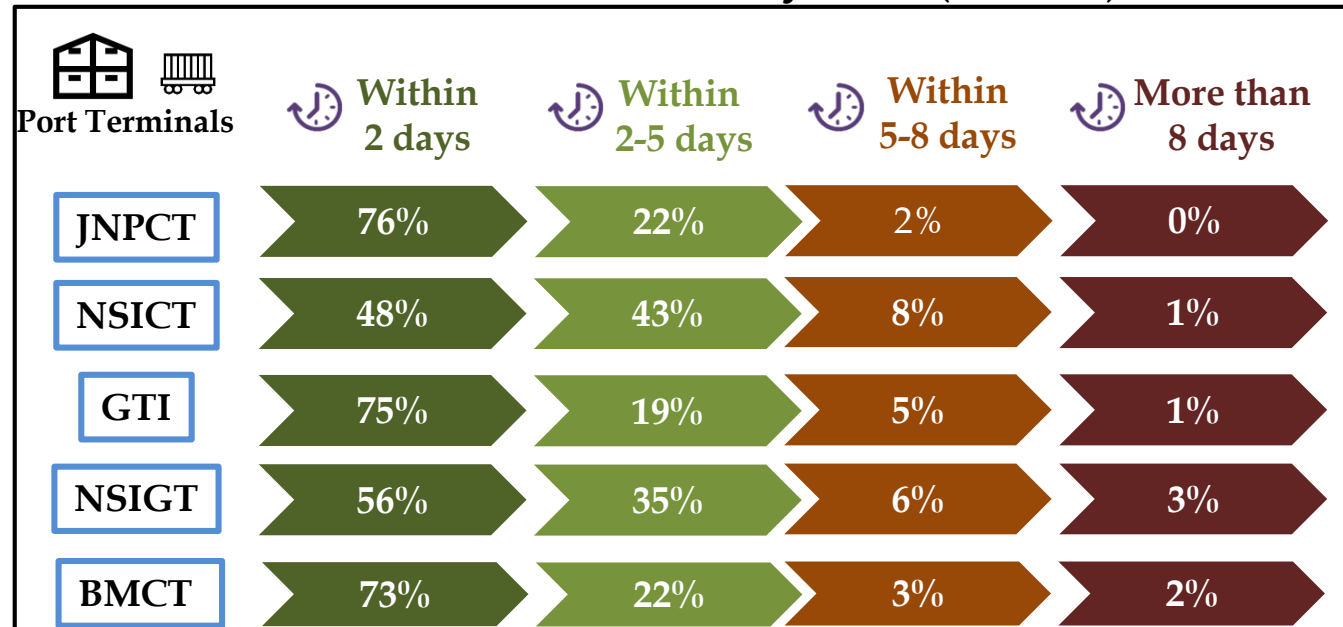
PORT IMPORT via TRAIN

(20% 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	Nov'19 (in hrs)	Dec'19 (in hrs)
JNPCT	33.2	28.7
NSICT	51.9	49.0
GTI	26.6	26.0
NSIGT	51.7	42.5
BMCT	19.3	24.6

Container Handled: Day wise (Dec'19)



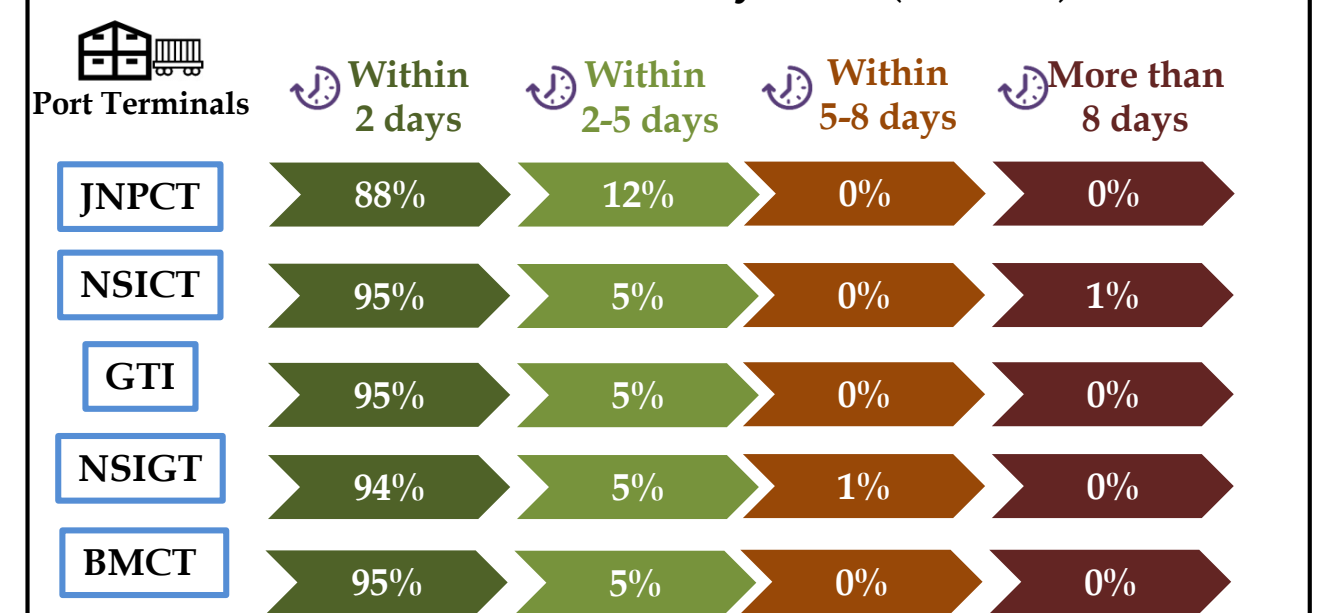
PORT IMPORT via TRUCK

(80% 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	Nov'19 (in hrs)	Dec'19 (in hrs)
JNPCT	25.0	24.4
NSICT	16.7	14.5
GTI	13.3	13.7
NSIGT	16.3	15.2
BMCT	18.7	17.4

Container Handled: Day wise (Dec'19)



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

JNPCT		
Port Dwell time based on transit type		
Dec'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	33.5 hrs	22.9 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	24.4 hrs	33.0 hrs

GTI		
Port Dwell time based on transit type		
Dec'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	26.8 hrs	12.1 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	14.8 hrs	22.2 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT		
Port Dwell time based on transit type		
Dec'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	42.9 hrs	13.4 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	16.7 hrs	18.7 hrs

NSIGT		
Port Dwell time based on transit type		
Dec'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	35.8 hrs	13.8 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	17.8 hrs	24.6 hrs

BMCT		
Port Dwell time based on transit type		
Dec'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	24.1 hrs	16.1 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	17.3 hrs	28.8 hrs

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



Clusters with bottleneck

CLUSTER 1	JNPT Area
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Clusters without bottleneck

CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area, JNPT road
CLUSTER 4	Chirle area, JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road
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

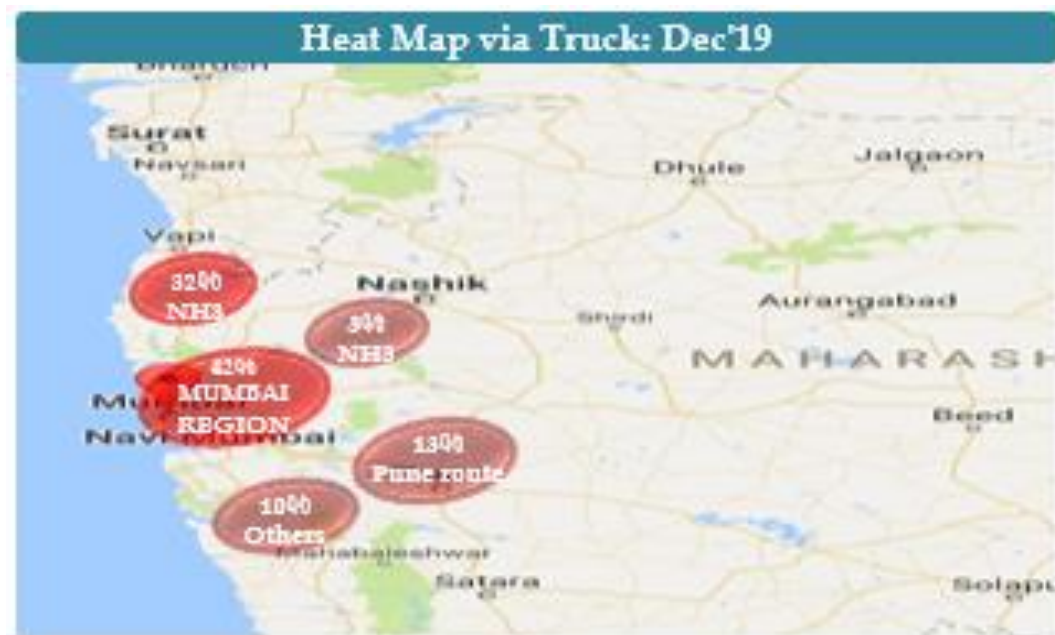
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Dec'19
Mumbai region	42%
NH3	3%
Pune	13%
NH8	32%
others	10%

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

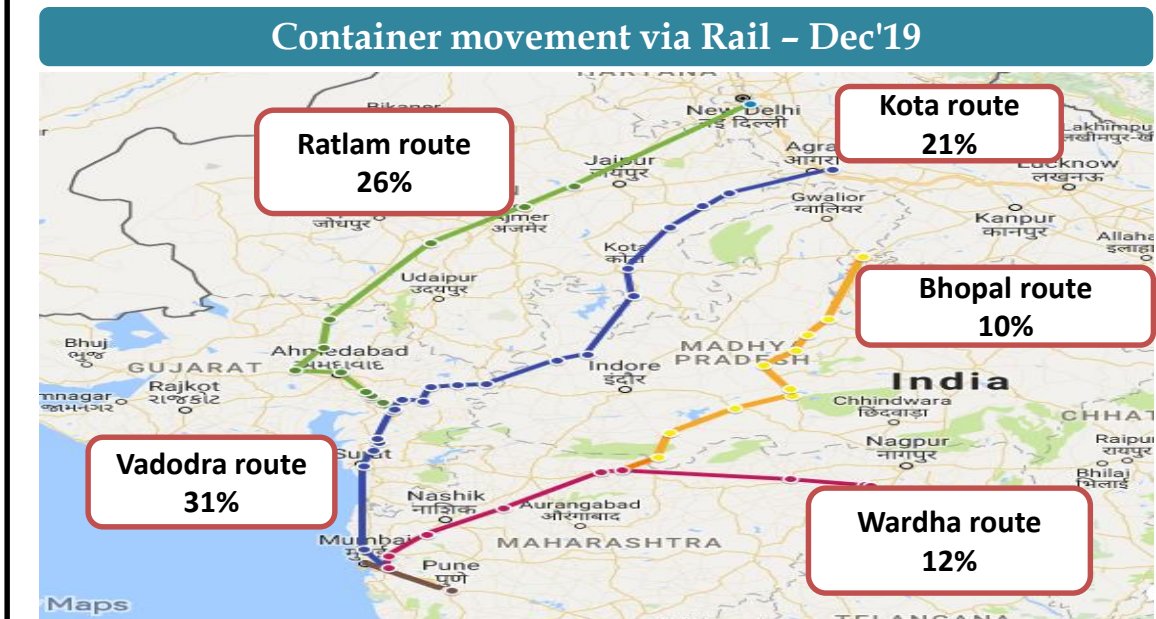


Train

VOLUME WISE CONTAINER MOVEMENT

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

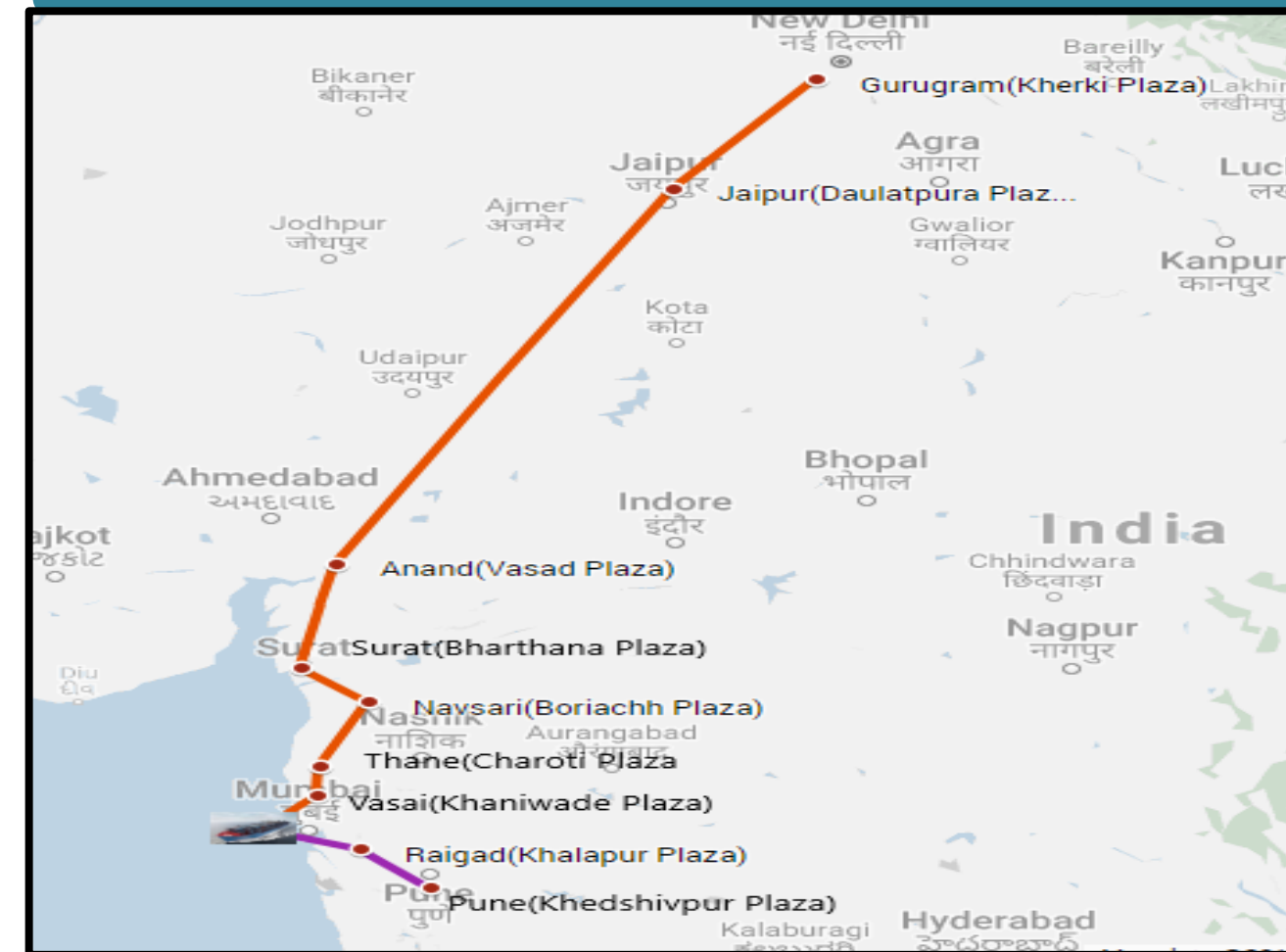
The map shows the volume wise container movement through different railway routes in import cycle



Avg. Speed between Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Nov'19 (in km/hrs)	Dec'19 (in km/hrs)
JNPT	JNPT	Khaniwade	94	15.6	15.7
	JNPT	Khalapur	60	11.00	5.02
	Khaniwade	Charoti	50	36.5	37.4
	Charoti	Boriach	126	27.6	29.0
	Boriach	Bharthan	142	33.2	33.8

Toll Plaza - JNPT Port



Export Cycle Analysis

JNPT Region: Dwell Time Performance (Export Cycle)

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

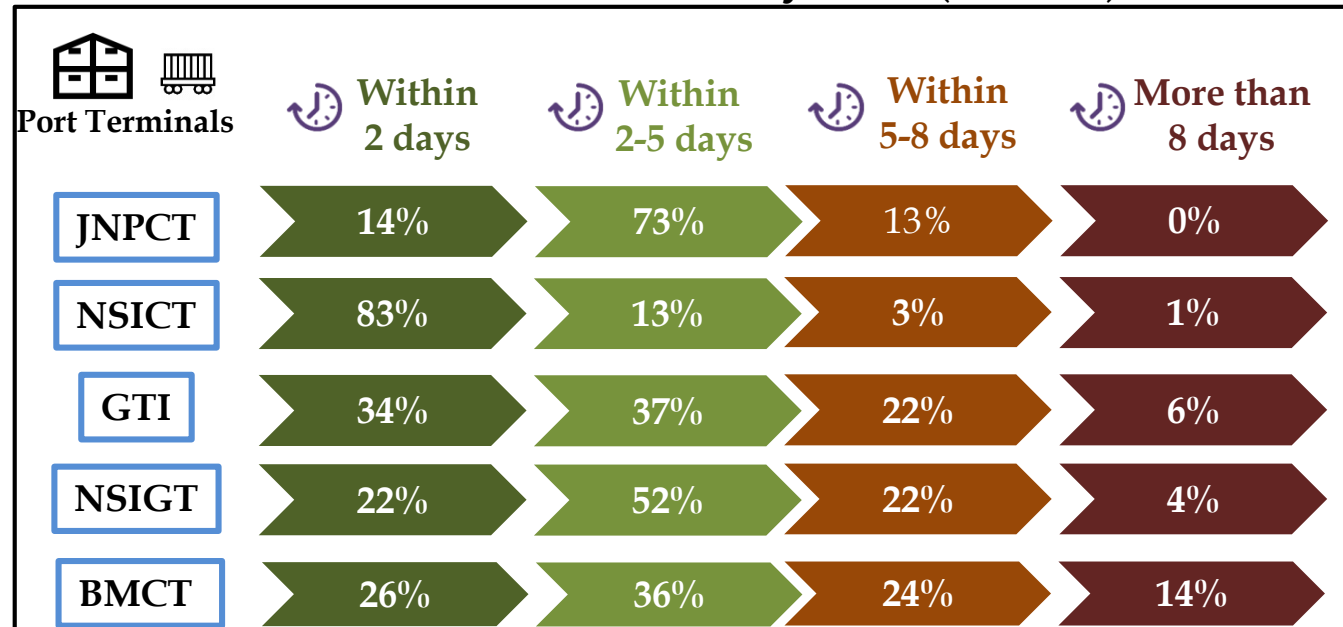
PORT EXPORT via TRAIN

(17% 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	Nov'19 (in hrs)	Dec'19 (in hrs)
JNPCT	91.6	86.8
NSICT	8.3	8.0
GTI	78.5	70.8
NSIGT	81.5	83.7
BMCT	84.7	95.4

Container Handled: Day wise (Dec'19)



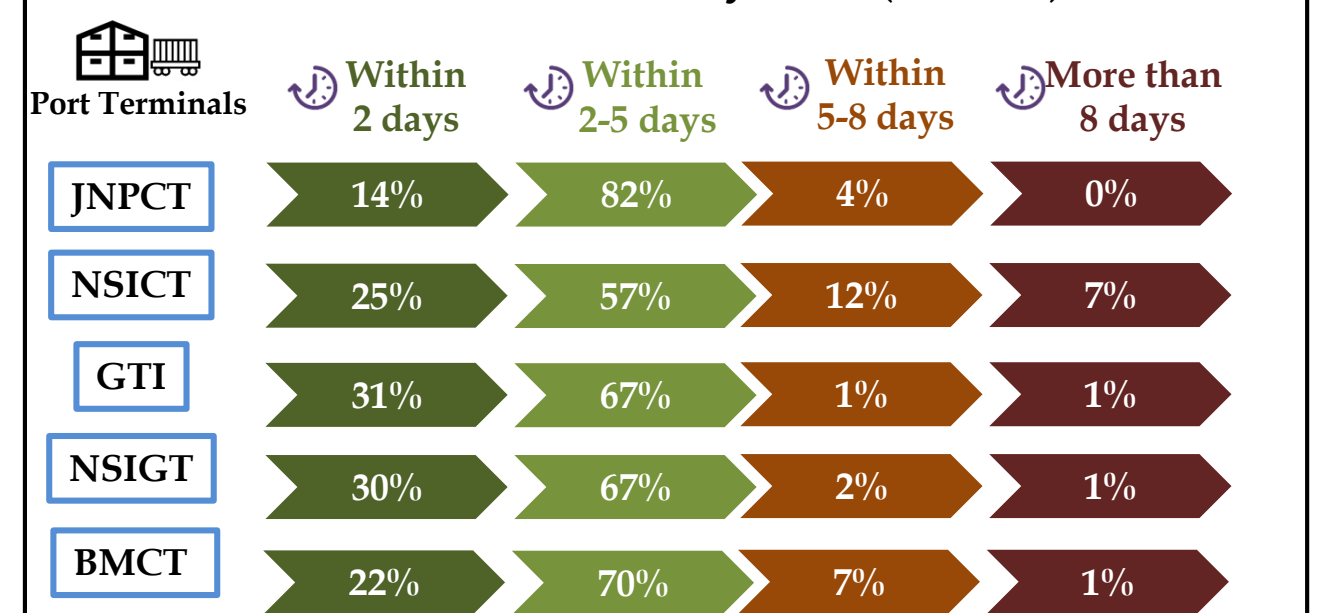
PORT EXPORT via TRUCK

(83% 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	Nov'19 (in hrs)	Dec'19 (in hrs)
JNPCT	79.5	76.3
NSICT	68.4	76.3
GTI	64.9	63.0
NSIGT	67.3	65.1
BMCT	73.2	75.1

Container Handled: Day wise (Dec'19)



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

JNPCT		
Port Dwell time based on transit type		
Dec'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	67.5 hrs	75.5 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	68.4 hrs	82.5 hrs

GTI		
Port Dwell time based on transit type		
Dec'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	65.4 hrs	55.0 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	61.5 hrs	67.0 hrs

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

NSICT		
Port Dwell time based on transit type		
Dec'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.1 hrs	60.3 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	61.5 hrs	-

NSIGT		
Port Dwell time based on transit type		
Dec'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	71.5 hrs	63.8 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	65.0 hrs	48.6 hrs

BMCT		
Port Dwell time based on transit type		
Dec'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	62.9 hrs
Port Dwell time based on container type		
Dec'19	Laden Containers	Empty Containers
Dwell time (in hrs)	72.8 hrs	83.8 hrs

JNPT Region: Congestion Analysis (Export Cycle)

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



Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area, JNPT road
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road
CLUSTER 8	Taloja, Navi Mumbai

Clusters without bottleneck

CLUSTER 4	Chirle area , JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway

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

GTI Terminal



Congestion Level

Import Cycle :-

JNPCT Terminal



Congestion Level

Import Cycle :-

NSICT Terminal



Congestion Level

Import Cycle :-

NSIGT Terminal



Congestion Level

Import Cycle :-

BMCT Terminal



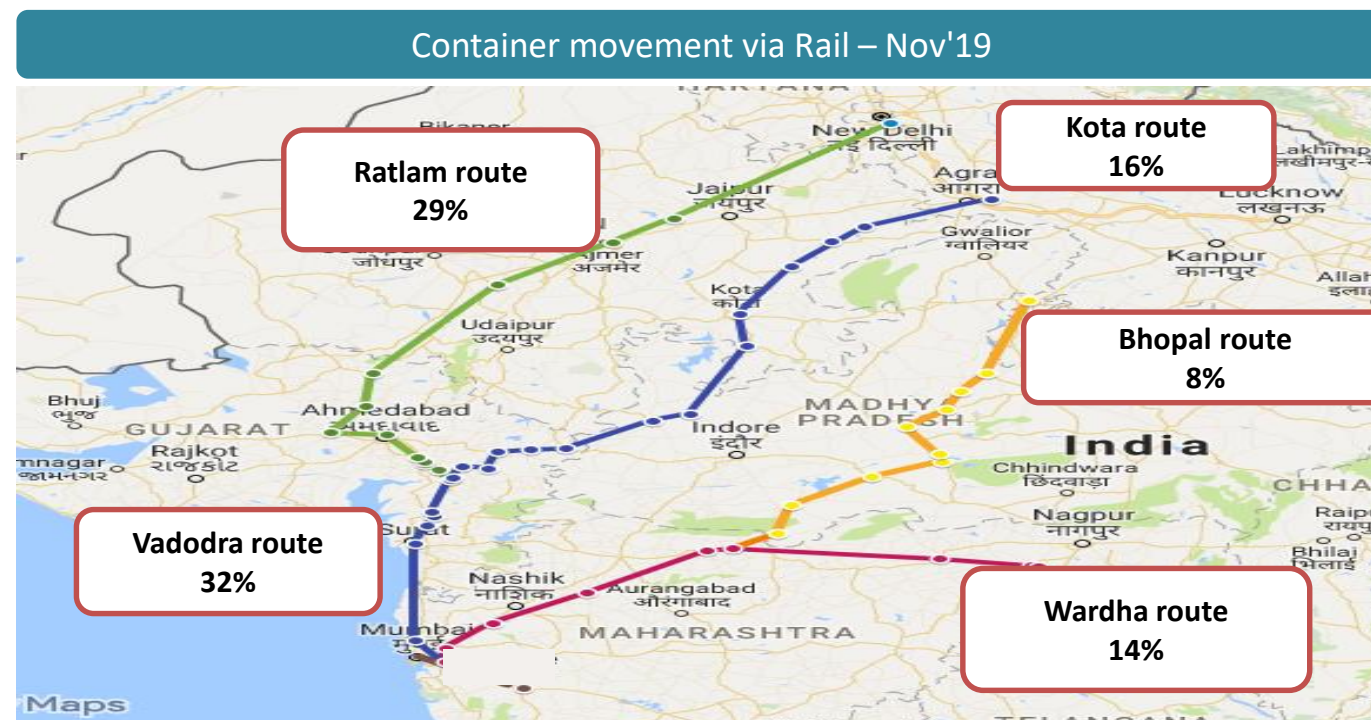
Congestion Level

Export Cycle :-

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

JNPT Port	
Route	Percentage of Container Movement
Vadodra Route	32%
Ratlam Route	29%
Wardha Route	14%
Kota Route	16%
Bhopal Route	8%

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



CFS and ICD Performance

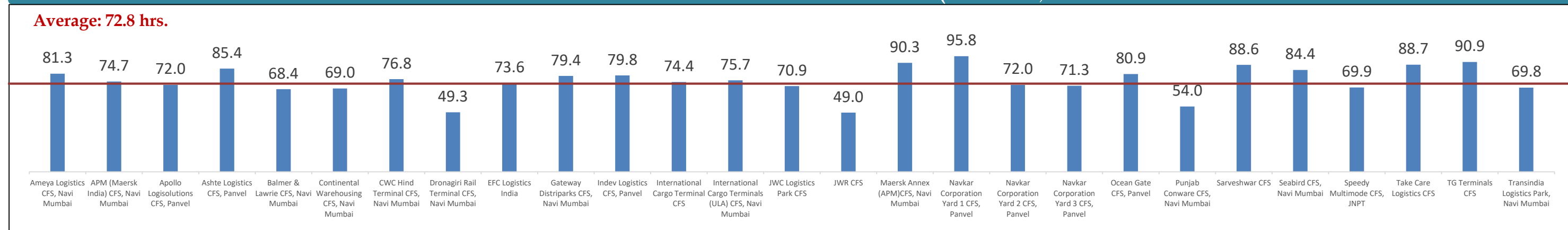
JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)					
CFS	Nov'19	Dec'19	CFS	Nov'19	Dec'19
Ameya Logistics CFS, Navi Mumbai	91.0	81.3	JWR CFS	51.0	49.0
APM (Maersk India) CFS, Navi Mumbai	87.6	74.7	Maersk Annex (APM)CFS, Navi Mumbai	101.5	90.3
Apollo Logisolutions CFS, Panvel	72.1	72.0	Navkar Corporation Yard 1 CFS, Panvel	107.5	95.8
Ashte Logistics CFS, Panvel	84.9	85.4	Navkar Corporation Yard 2 CFS, Panvel	90.8	72.0
Balmer & Lawrie CFS, Navi Mumbai	64.5	68.4	Navkar Corporation Yard 3 CFS, Panvel	53.3	71.3
Continental Warehousing CFS, Navi Mumbai	-	69.0	Ocean Gate CFS, Panvel	76.3	80.9
CWC Hind Terminal CFS, Navi Mumbai	82.2	76.8	Punjab Conware CFS, Navi Mumbai	58.9	54.0
Dronagiri Rail Terminal CFS, Navi Mumbai	66.6	49.3	Sarveshwar CFS	94.3	88.6
EFC Logistics India	87.0	73.6	Seabird CFS, Navi Mumbai	93.2	84.4
Gateway Distriparks CFS, Navi Mumbai	78.8	79.4	Speedy Multimode CFS, JNPT	72.8	69.9
Indev Logistics CFS, Panvel	85.4	79.8	Take Care Logistics CFS	132.8	88.7
International Cargo Terminal CFS	79.1	74.4	TG Terminals CFS	90.2	90.9
International Cargo Terminals (ULA) CFS, Navi Mumbai	84.7	75.7	Transindia Logistics Park, Navi Mumbai	68.9	69.8
JWC Logistics Park CFS	69.8	70.9	Vaishno Logistics CFS, Navi Mumbai	78.7	70.2

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

Average: 72.8 hrs.



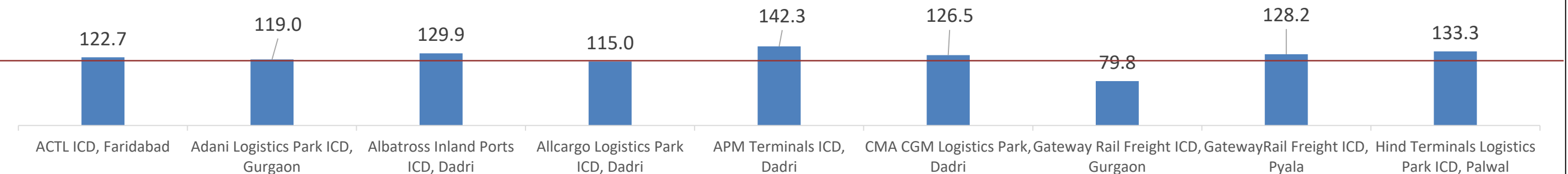
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Nov'19 (in hrs)	Dec'19 (in hrs)
ACTL ICD, Faridabad	146.2	122.7
Adani Logistics Park ICD, Gurgaon	167.4	119.0
Albatross Inland Ports ICD, Dadri	137.0	129.9
Allcargo Logistics Park ICD, Dadri	131.8	115.0
APM Terminals ICD, Dadri	154.4	142.3
CMA CGM Logistics Park, Dadri	118.9	126.5
Gateway Rail Freight ICD, Gurgaon	71.5	79.8
GatewayRail Freight ICD, Pyala	90.4	128.2
Hind Terminals Logistics Park ICD, Palwal	154.7	133.3

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

Avg. 120.8 hrs.

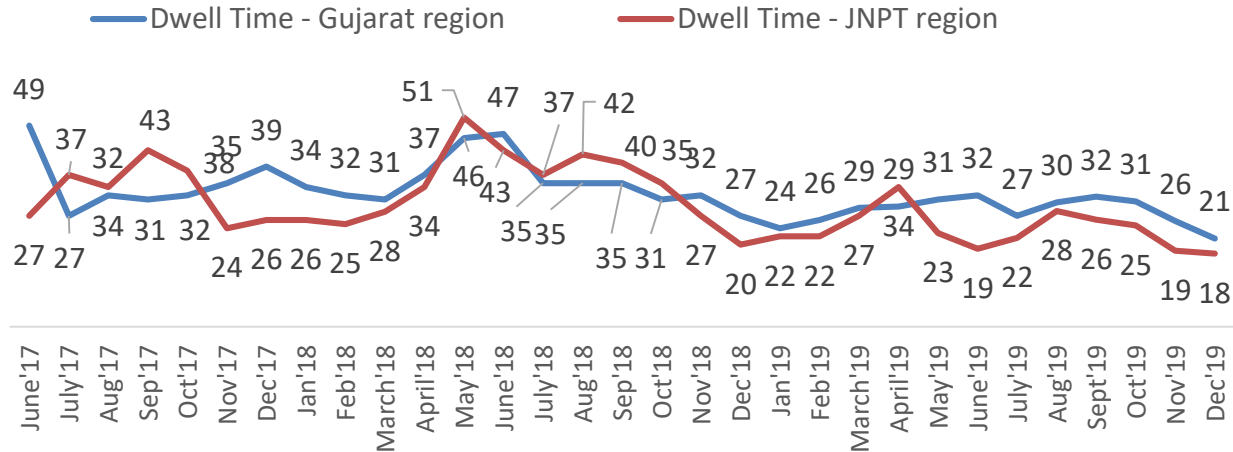


Trend Analysis

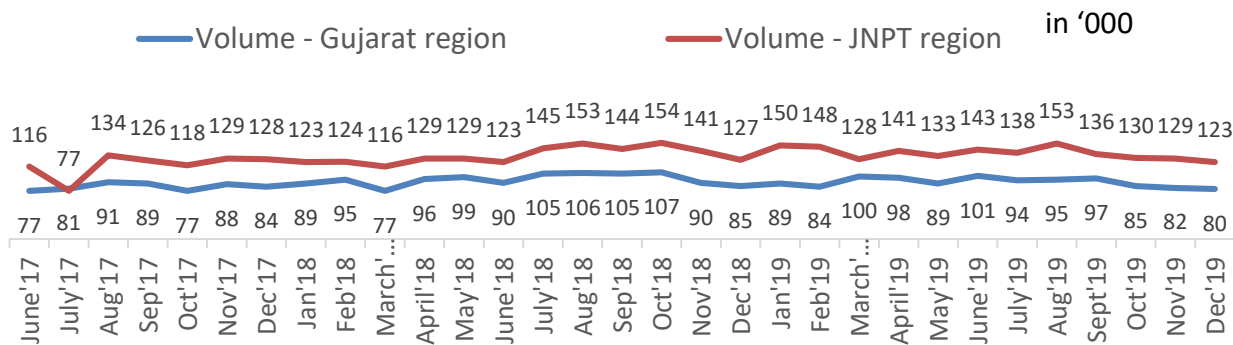
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until Dec'19

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



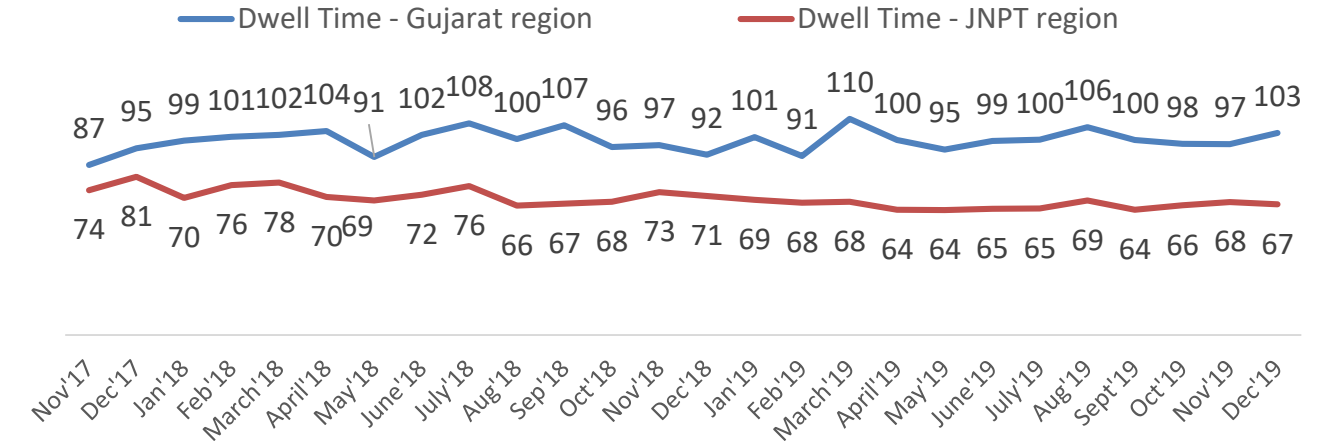
Volume – Gujarat Region Vs JNPT Region



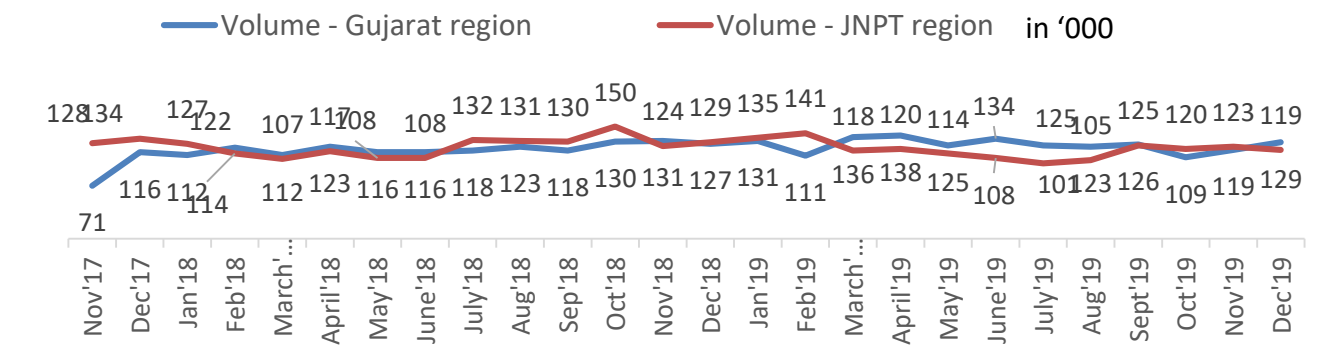
In Import cycle, for the month of Dec'19 JNPT port has catered 54% more volume than APSEZ Port, and has maintained 17% lower dwell time than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



Volume – Gujarat Region Vs JNPT Region

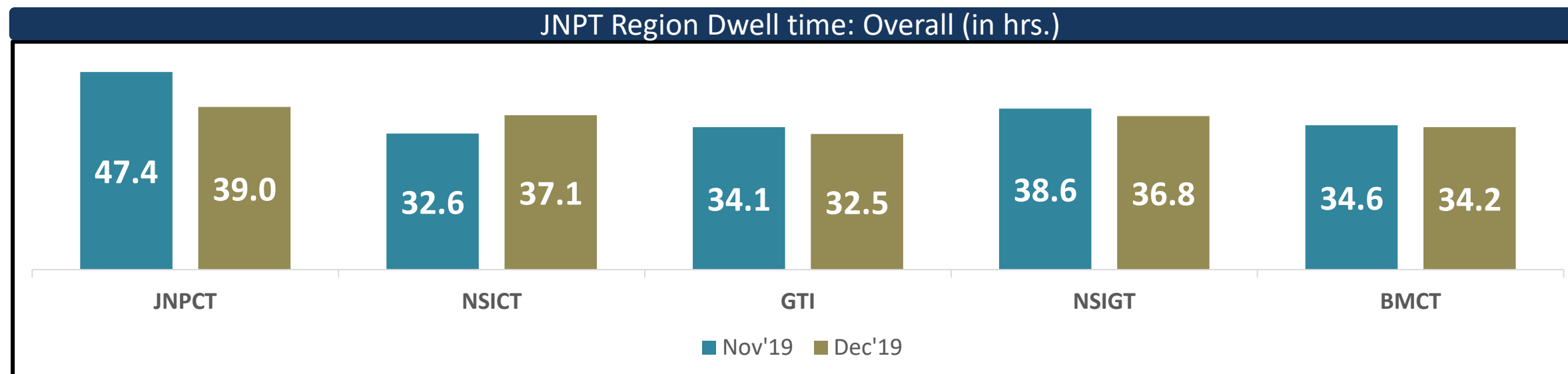


In Export cycle, for the month Dec'19 JNPT port catered 8% more volume than APSEZ Port, and has maintained 35% lower dwell time than APSEZ Port

JNPT PORT DWELL TIME TREND: Month on Month

JNPT port dwell time trend :

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



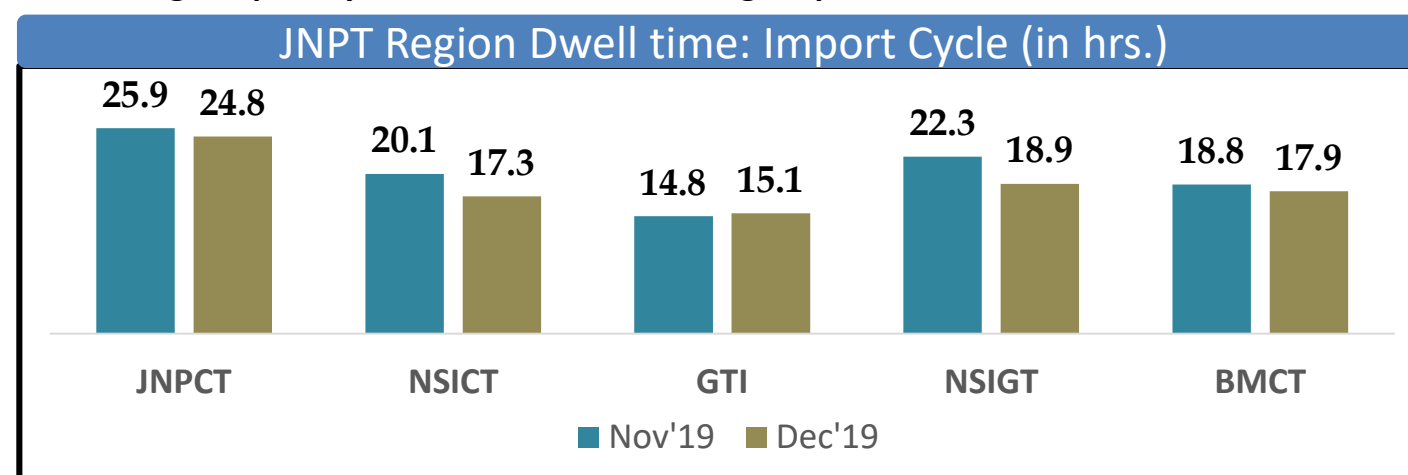
The overall JNPT region average dwell time for Dec'19 is **35.0 hrs** as compared to **36.6 hrs** in Nov'19

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



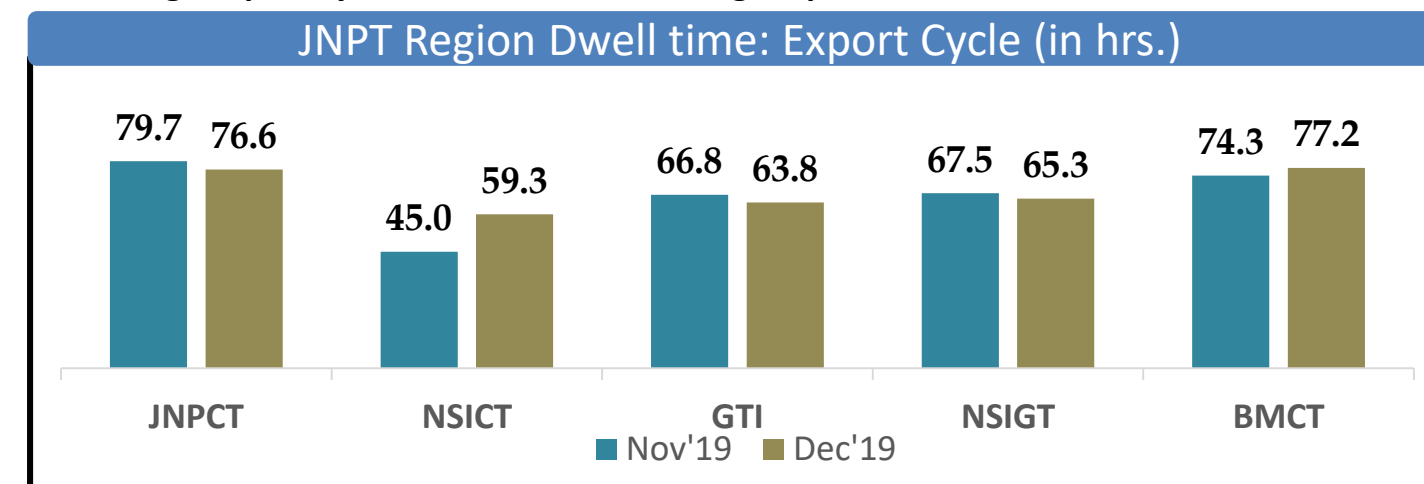
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Dec'19 is **17.8 hrs.**



JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Dec'19 is **66.7 hrs.**



ANNEXURE

Container movement around JNPT Port terminal region via Truck

HEAT MAP : GTI Port Terminal



Region	Nov'19	Dec'19
Mumbai region	47%	37%
NH3	3%	4%
Pune	10%	14%
NH8	30%	35%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal



Region	Nov'19	Dec'19
Mumbai region	46%	39%
NH3	2%	3%
Pune	9%	11%
NH8	34%	37%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal



Region	Nov'19	Dec'19
Mumbai region	61%	44%
NH3	3%	4%
Pune	7%	12%
NH8	20%	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

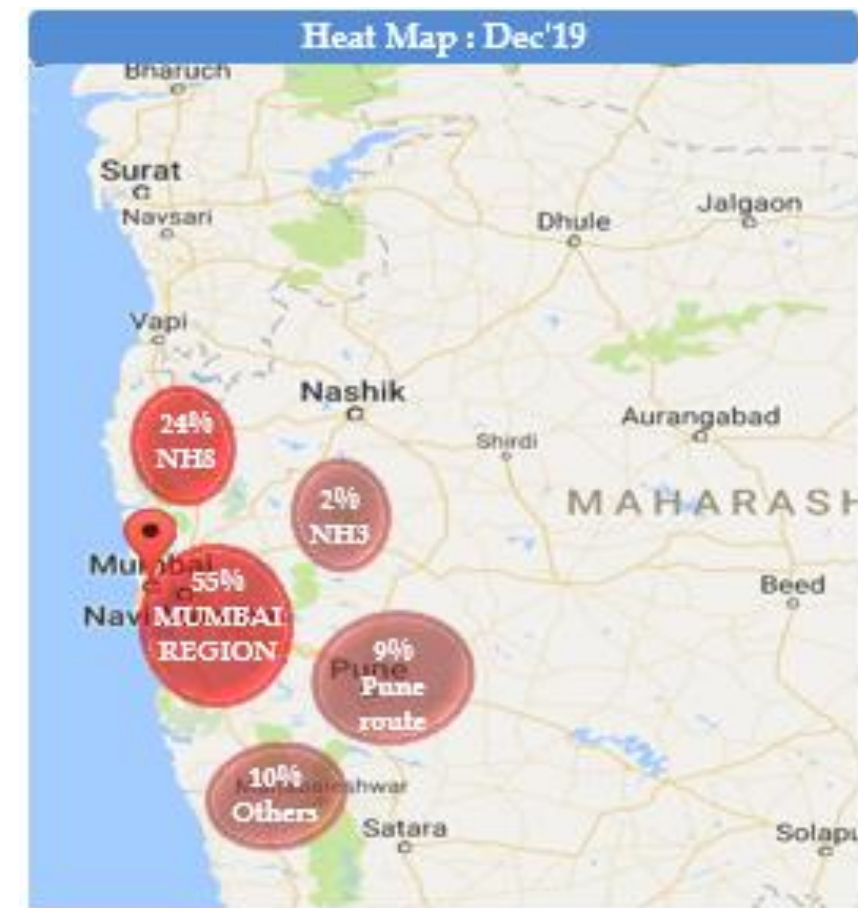
HEAT MAP : NSIGT Port Terminal



Region	Nov'19	Dec'19
Mumbai region	44%	38%
NH3	4%	3%
Pune	13%	18%
NH8	29%	31%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Nov'19	Dec'19
Mumbai region	52%	55%
NH3	3%	2%
Pune	9%	9%
NH8	27%	24%
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 Dec'19					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	3.2	3.8	3.5	3.8	2.9
Punjab Conware CFS, Navi Mumbai	1.6	3.3	2.7	2.5	2.7
JWC Logistics Park CFS	3.4	3.9	3.8	3.1	3.3
CWC Hind Terminal CFS, Navi Mumbai	2.2	3.4	1.8	3.6	1.9
Dronogiri Rail Terminal CFS, Navi Mumbai	3.8	3.5	3.9	3.5	2.2
Navkar Corporation Yard 2 CFS, Panvel	6.9	7.2	5.7	8.8	7.0
Vaishno Logistics CFS, Navi Mumbai	3.5	2.7	2.3	4.3	2.3
Speedy Multimode CFS, JNPT	1.7	3.5	2.3	2.5	2.9
Balmer & Lawrie CFS, Navi Mumbai	6.7	3.7	2.6	6.7	2.1
Navkar Corporation Yard 3 CFS, Panvel	7.7	7.9	6.0	5.2	7.7
Ashte Logistics CFS, Panvel	4.8	7.9	3.0	4.4	4.3
Continental Warehousing CFS, Navi Mumbai	1.5	3.4	1.8	2.5	2.1
SBW Logistics CFS, Navi Mumbai	7.2	8.5	7.9	6.9	5.2
Maharashtra State Corp CFS	6.0	3.1	2.2	2.4	5.9
Internation Cargo Terminal CFS	2.9	3.9	3.8	3.8	2.3
Seabird CFS, Navi Mumbai	1.4	3.3	3.8	1.8	2.9
Apollo Logisolutions CFS, Panvel	7.0	5.9	4.3	3.9	6.6
Ameya Logistics CFS, Navi Mumbai	3.8	5.4	4.9	4.9	3.9
Transindia Logistics Park, Navi Mumbai	2.4	3.7	2.6	2.6	3.1
Ocean Gate CFS, Panvel	3.4	2.9	1.9	2.9	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0	3.6	1.8	3.4	3.0
Indev Logistics CFS, Panvel	2.9	4.2	8.5	3.0	5.5
CWC Dronagiri CFS, Navi Mumbai	2.6	4.1	1.8	-	2.1
APM (Maersk India) CFS, Navi Mumbai	-	3.0	3.1	3.1	3.6

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	Dec'19 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.4
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.8
Indev Logistics CFS, Panvel	4.8
Navkar Corporation Yard 3 CFS, Panvel	3.9
Seabird CFS, Navi Mumbai	2.1
Balmer & Lawrie CFS, Navi Mumbai	2.1
Ashte Logistics CFS, Panvel	3.5
Continental Warehousing CFS, Navi Mumbai	1.8
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	2.0
Navkar Corporation Yard 1 CFS, Panvel	3.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.3
Maersk Annex (APM)CFS, Navi Mumbai	3.0
Speedy Multimode CFS, JNPT	2.2
Apollo Logisolutions CFS, Panvel	3.7
Navkar Corporation Yard 2 CFS, Panvel	3.1
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	3.3
SBW Logistics CFS, Navi Mumbai	3.4
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	5.6

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	Dec'19 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	2.1
Internation Cargo Terminal CFS	1.9
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.5
Indev Logistics CFS, Panvel	5.0
Navkar Corporation Yard 3 CFS, Panvel	3.6
Seabird CFS, Navi Mumbai	2.0
Balmer & Lawrie CFS, Navi Mumbai	1.8
Ashte Logistics CFS, Panvel	3.0
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	1.4
Navkar Corporation Yard 1 CFS, Panvel	3.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.0
Speedy Multimode CFS, JNPT	1.7
Apollo Logisolutions CFS, Panvel	3.7
Navkar Corporation Yard 2 CFS, Panvel	3.3
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	1.6
JWC Logistics Park CFS	2.7
SBW Logistics CFS, Navi Mumbai	5.8
Ocean Gate CFS, Panvel	2.8
Maharashtra State Corp CFS	2.2

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	Dec'19 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.3
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	2.2
Ameya Logistics CFS, Navi Mumbai	2.0
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	3.9
Navkar Corporation Yard 3 CFS, Panvel	5.0
Seabird CFS, Navi Mumbai	1.9
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	2.8
Continental Warehousing CFS, Navi Mumbai	1.3
CWC Hind Terminal CFS, Navi Mumbai	1.5
Dronogiri Rail Terminal CFS, Navi Mumbai	1.3
Navkar Corporation Yard 1 CFS, Panvel	4.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.7
Maersk Annex (APM)CFS, Navi Mumbai	2.4
Speedy Multimode CFS, JNPT	1.8
Apollo Logisolutions CFS, Panvel	6.6
Navkar Corporation Yard 2 CFS, Panvel	3.1
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	7.2
JWC Logistics Park CFS	2.6
SBW Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	4.3
Maharashtra State Corp CFS	29.5

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	Dec'19 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	2.0
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	4.3
Navkar Corporation Yard 3 CFS, Panvel	3.7
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	1.6
Ashte Logistics CFS, Panvel	3.5
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	1.9
Navkar Corporation Yard 1 CFS, Panvel	3.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	2.6
Speedy Multimode CFS, JNPT	1.9
Apollo Logisolutions CFS, Panvel	3.4
Navkar Corporation Yard 2 CFS, Panvel	3.2
Punjab Conware CFS, Navi Mumbai	1.7
Vaishno Logistics CFS, Navi Mumbai	1.8
JWC Logistics Park CFS	2.6
SBW Logistics CFS, Navi Mumbai	4.7
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	13.8

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

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

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

CFS	Dec'19 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	1.8
Ameya Logistics CFS, Navi Mumbai	1.9
Transindia Logistics Park, Navi Mumbai	2.3
Indev Logistics CFS, Panvel	3.7
Navkar Corporation Yard 3 CFS, Panvel	3.5
Seabird CFS, Navi Mumbai	1.6
Balmer & Lawrie CFS, Navi Mumbai	2.0
Ashte Logistics CFS, Panvel	3.1
Continental Warehousing CFS, Navi Mumbai	1.4
CWC Hind Terminal CFS, Navi Mumbai	1.7
Dronogiri Rail Terminal CFS, Navi Mumbai	1.9
Navkar Corporation Yard 1 CFS, Panvel	4.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	2.9
Speedy Multimode CFS, JNPT	1.9
Apollo Logisolutions CFS, Panvel	3.2
Navkar Corporation Yard 2 CFS, Panvel	2.6
Punjab Conware CFS, Navi Mumbai	1.6
Vaishno Logistics CFS, Navi Mumbai	3.0
JWC Logistics Park CFS	2.5
SBW Logistics CFS, Navi Mumbai	3.2
Ocean Gate CFS, Panvel	3.2
Maharashtra State Corp CFS	2.2

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 Dec'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.2	3.5
Cluster 2	6	13	2.3	3.7
Cluster 3	6	11	2.1	3.3
Cluster 4	1	13	2.1	2.7
Cluster 5	2	25	3.3	3.4
Cluster 6	6	25	3.6	7.2
Cluster 7	4	12	2.0	3.7
Cluster 8	1	34	3.4	8.5

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Dec'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	1.7
Cluster 2	6	13	2.0	-
Cluster 3	6	11	2.0	2.7
Cluster 4	1	13	1.6	3.5
Cluster 5	2	25	2.8	3.4
Cluster 6	6	25	3.5	6.9
Cluster 7	4	12	2.1	2.4
Cluster 8	1	34	5.8	7.2

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

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 Dec'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.8	2.3
Cluster 2	6	13	2.0	2.8
Cluster 3	6	11	2.0	3.3
Cluster 4	1	13	7.2	0.0
Cluster 5	2	25	3.5	2.8
Cluster 6	6	25	4.3	5.7
Cluster 7	4	12	2.0	2.6
Cluster 8	1	34	-	7.9

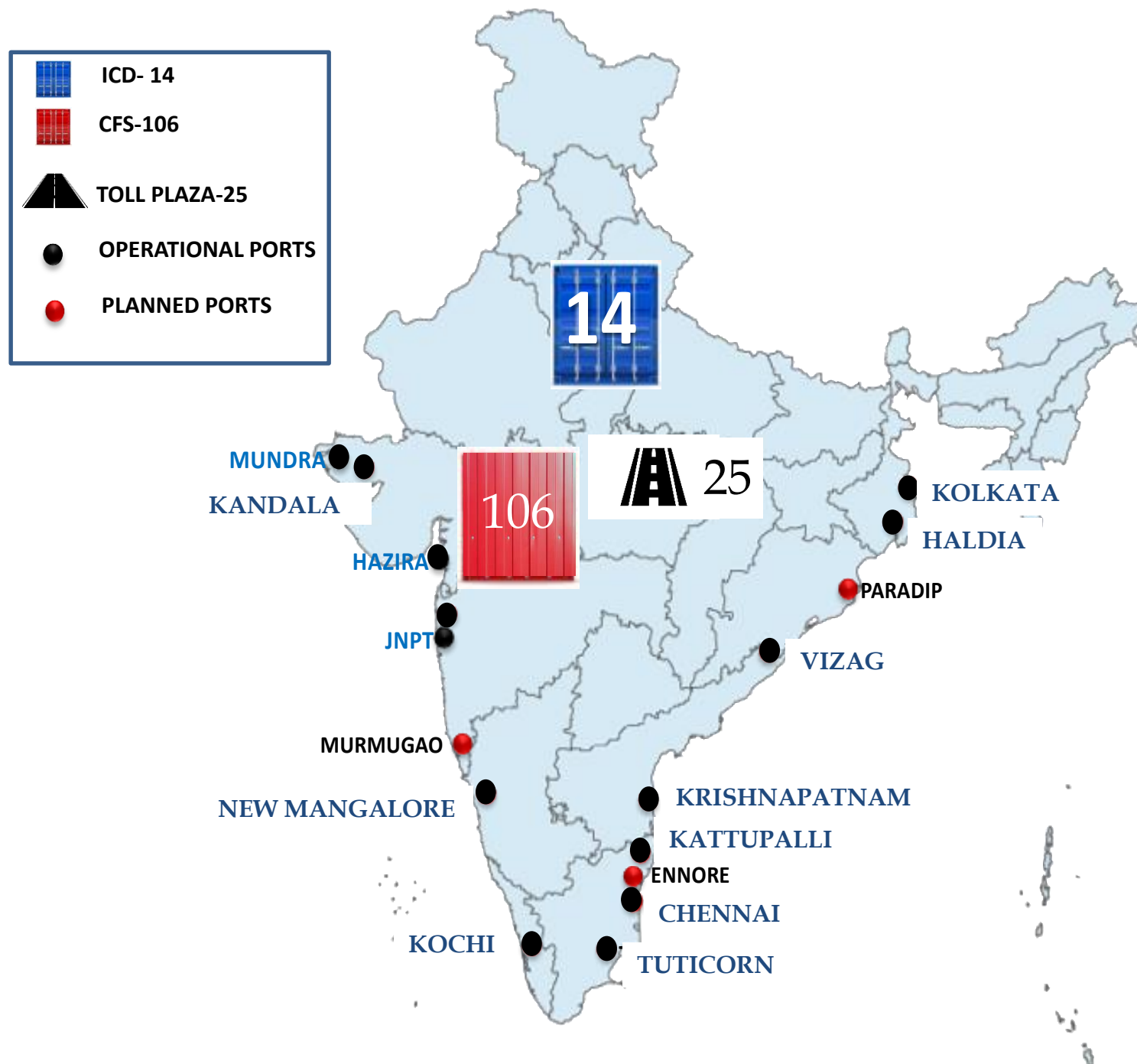
CFS Cluster : NSIGT Terminal

JNPCT terminal for month of Dec'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	1.9	2.5
Cluster 2	6	13	2.0	3.7
Cluster 3	6	11	2.0	2.5
Cluster 4	1	13	1.8	4.3
Cluster 5	2	25	2.9	3.0
Cluster 6	6	25	3.4	4.4
Cluster 7	4	12	1.9	2.6
Cluster 8	1	34	4.7	6.9

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Dec'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	1.9	2.9
Cluster 2	6	13	2.0	2.6
Cluster 3	6	11	2.0	2.8
Cluster 4	1	13	3.0	2.3
Cluster 5	2	25	2.9	3.6
Cluster 6	6	25	3.3	6.6
Cluster 7	4	12	1.9	3.1
Cluster 8	1	34	3.2	5.2

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



Below mentioned are all the CFS in the respective Clusters :

Cluster 1

(JNPT Area)

- Speedy Multimode CFS, JNPT

Cluster 2

(Bhendkhal area, Khopate road)

- 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

Cluster 3

Sonari area, JNPT road

- 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

Cluster 4

(Chirle area, JNPT road)

- Vaishno Logistics CFS, Navi Mumbai

Cluster 5

(Plaspa area, Coachi kanyakumari Highway)

- JWC Logistics Park CFS
- Ocean Gate CFS, Panvel

Cluster 8

SBW

Cluster 6

(Salva apta rd area, Bangalore highway)

- 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

Cluster 7

(Patilpada area, Khopate JNPT road)

- All Cargo Logistics CFS, Navi Mumbai
- Transindia Logistics Park, Navi Mumbai
- Ameya Logistics CFS, Navi Mumbai
- Continental Warehousing CFS, Navi Mumbai

List of CFS name used in CFS Performance Index

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



THANK YOU