Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	**Oct'19 (in hrs)**	**Nov'19 (in hrs)**
JNPCT	25.9	25.9
NSICT	34.8	20.1
GTI	24.2	14.8
NSIGT	25.5	22.3
BMCT/PSA	22.0	18.8

Export Cycle		
Port	**Oct'19 (in hrs)**	**Nov'19 (in hrs)**
JNPCT	73.5	79.7
NSICT	46.9	45.0
GTI	64.8	66.8
NSIGT	67.3	67.5
BMCT/PSA	74.9	74.3

Critical Incident Summary

Jawaharlal Nehru Port Terminals

- CFS bound containers in Import cycle at JNPT Port Terminal has improved

Month	Import Cycle	Port to CFS (Import cycle)	CFS Dwell Time
Nov'19	18.5 hrs 25%	2.7 hrs 17%	75.5 hrs 11%
Oct'19	24.7 hrs	3.2 hrs	86.9 hrs

Container Transportation Performance - Western Corridor

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IMPORT

Port Dwell Time

Mode	Oct'19 (in hrs)	Nov'19 (in hrs)
Overall	26.5	20.7
Truck	25.3	18.7
Train	45.6	36.2

EXPORT

Mode	Oct'19 (in hrs)	Nov'19 (in hrs)
Overall	77.6	79.6
Truck	77.9	80.3
Train	74.8	75.0

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

Inland Container Depot (ICD)
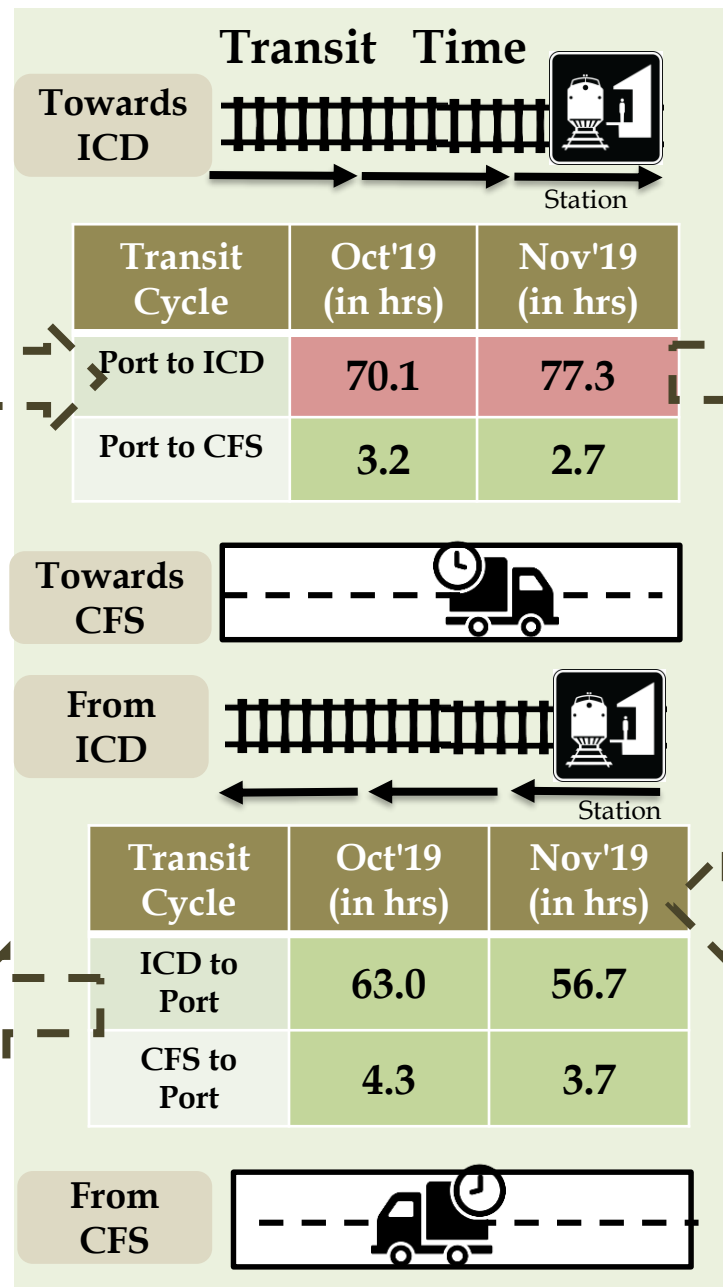
Container Freight Stations (CFS)

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

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

Entity	Oct'19 (in hrs)	Nov'19 (in hrs)
CFS	85.2	80.4
ICD	132.2	130.1

Container Transportation- JNPT Port Terminals

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Container Lifecycle (Import Cycle)

Port Dwell Time

IMPORT

Mode	Oct'19 (in hrs)	Nov'19 (in hrs)
Overall	24.7	18.5
Truck	21.7	16.5
Train	43.2	33.7

EXPORT

Mode	Oct'19 (in hrs)	Nov'19 (in hrs)
Overall	66.2	67.9
Truck	67.5	69.5
Train	52.4	53.7

Transit Time

Towards ICD — Station

Transit Cycle	Oct'19 (in hrs)	Nov'19 (in hrs)
Port to ICD	70.1	77.3
Port to CFS	3.2	2.7

Towards CFS

From ICD — Station

Transit Cycle	Oct'19 (in hrs)	Nov'19 (in hrs)
ICD to Port	63.0	56.7
CFS to Port	4.3	3.7

From CFS

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

ICD   **CFS**

Entity	Oct'19 (in hrs)	Nov'19 (in hrs)
CFS	85.2	75.5
ICD	132.2	130.1

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

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

Container Lifecycle (Export Cycle)

JNPT Region: Parking Plaza Dwell Time Analysis

Container handling performance around Parking Plaza and JNPT Port Terminal is depicted below for the month Oct'19 and Nov'19
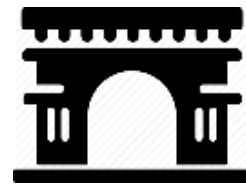
Parking Plaza Gate In – Gate Out

Parking Plaza Gate Out – Terminal In

Waiting Time at Parking Plaza

Mode	Oct'19 (in hrs)	Nov'19 (in hrs)
Overall	7.3	7.6

Transit time from Parking plaza to JNPT Port Terminal

Mode	Oct'19 (in hrs)	Nov'19 (in hrs)
Overall	1.3	1.6

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 (Nov'19 – in hrs)			Compared to Oct'19	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	18.5	25%	⬆
	Port Dwell Time for Truck Bound Containers	16.5	24%	⬆
	Port Dwell time for Train Bound Containers	33.7	22%	⬆
	Port Dwell time Direct Port Delivery (DPD) containers	35.5	21%	⬆
	Port Dwell time Containers bound for CFS	14.8	32%	⬆
	Port Dwell for Empty Containers	26.9	35%	⬆
	Port Dwell for Laden Containers	18.5	21%	⬆
TRANSIT TIME	Port to ICD	77.3	10%	⬇
	Port to CFS	2.7	17%	⬆

EXPORT CYCLE DWELL TIME (Nov'19– in hrs)			Compared to Oct'19	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	67.9	2.6%	⬇
	Port Dwell Time for Truck Bound Containers	69.5	3.1%	⬇
	Port Dwell time for Train Bound Containers	53.7	2.6%	⬇
	Port Dwell time Direct Port Entry (DPE) containers	70.8	2.7%	⬇
	Port Dwell time Containers bound from CFS	60.8	0.2%	⬇
	Port Dwell for Empty Containers	76.3	5%	⬇
	Port Dwell for Laden Containers	67.9	4%	⬇
TRANSIT TIME	ICD to Port	56.7	10%	⬆
	CFS to Port	3.7	14%	⬆

⬆⬇ The arrows depict increase/ decrease in performance of the stakeholders in comparison to Oct'19

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Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – Nov'19

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High
Container Volume

• GTI

Dwell Time

BMCT   MICT •

NSIGT

NSICT

JNPCT

AMCT

AICT

ACMTTL

AHPPL

High

low

low

Quadrant : III
High Potential

Quadrant : IV
Laggard
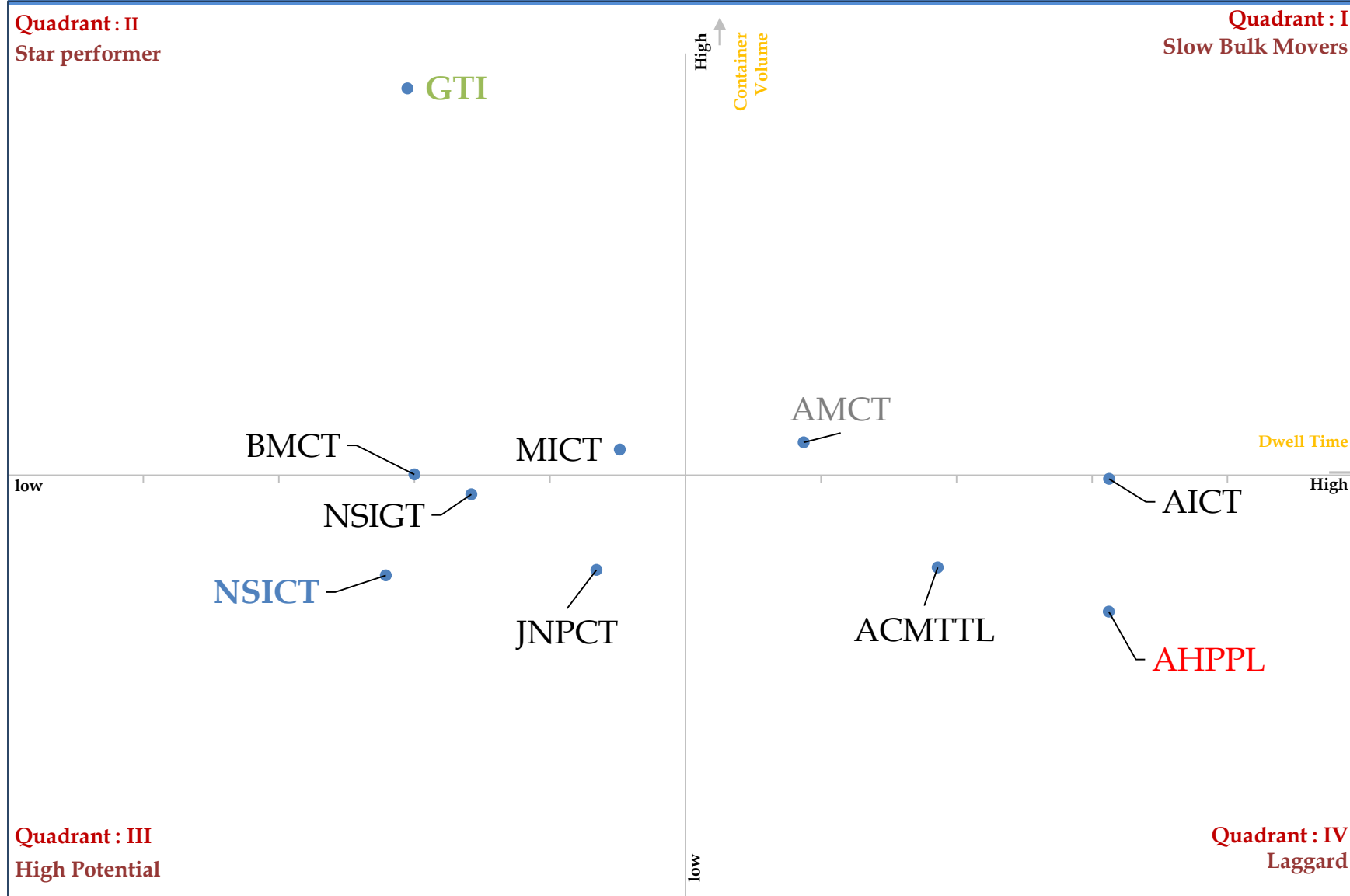
Performance benchmarking for Port Terminals covered under LDB project for Nov'19

Top Performing Terminal	
Gateway Terminals India	
Oct'19	Nov'19
42.9 hrs	34.1 hrs ⬆

Low Performing Terminal	
Adani Hazira Port Private Limited (AHPPL)	
Oct'19	Nov'19
74.7 hrs	83.3 hrs ⬇

Note: The performance benchmarking is based on performance index

⬆⬇ The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Oct'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/ICD Performance Benchmarking & Performance Index - Western Corridor

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CFS **Performance Benchmarking** **ICD**

Top Performing CFS	
Dronagiri Rail Terminal CFS, Navi Mumbai	
Oct'19	Nov'19
79.4 hrs	66.6 hrs ⬆

Top Performing ICD	
CMA CGM Logistics Park, Dadri	
Oct'19	Nov'19
143.9 hrs	118.9 hrs ⬆

Low Performing CFS	
Vaishno Logistics CFS, Navi Mumbai	
Oct'19	Nov'19
82.4 hrs	78.7 hrs ⬆

Low Performing ICD	
CONCOR ICD, Aurangabad	
Oct'19	Nov'19
143.7 hrs	190.8 hrs ⬇

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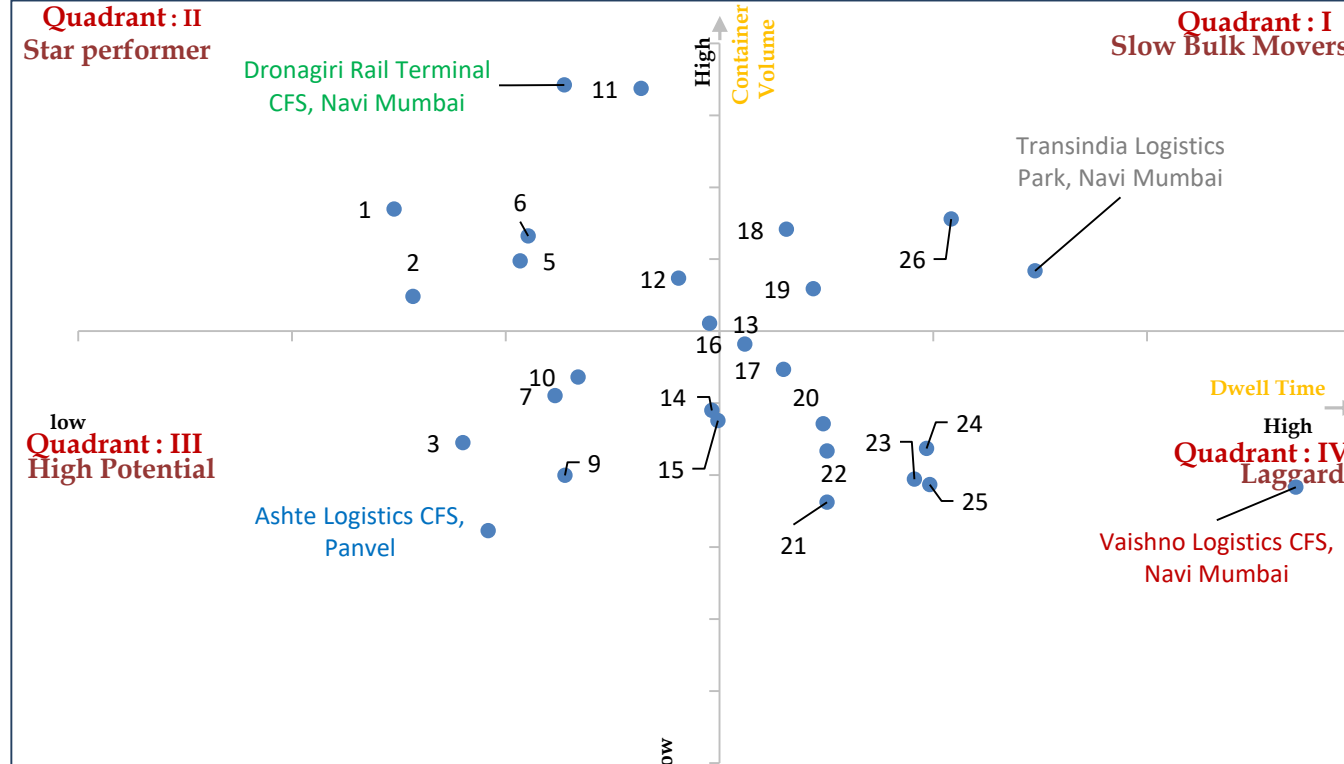⬆⬇ The arrows depict increase/decrease in overall performance of the stakeholders as compared to Oct'19

Performance Index: Western Corridor CFS

Quadrant : II
Star performer

Dronagiri Rail Terminal CFS, Navi Mumbai

Quadrant : I
Slow Bulk Movers

Transindia Logistics Park, Navi Mumbai

Container Volume — High / low

Dwell Time — low / High

Quadrant : III
High Potential

Ashte Logistics CFS, Panvel

Quadrant : IV
Laggard

Vaishno Logistics CFS, Navi Mumbai

Kindly refer to Annexure section for the names of CFS

Performance Index: ICD

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

CONCOR Tughlakabad ICD, New Delhi

CMA CGM Logistics Park, Dadri

Albatross Inland Ports ICD, Dadri

Container Volume — High / low

Dwell Time — low / High

CONCOR ICD, Dadri

Gateway Rail Freight ICD, Gurgaon

CONCOR Mulund ICD, Mumbai

GatewayRail Freight ICD, Pyala

Allcargo Logistics Park ICD, Dadri

ACTL ICD, Faridabad

APM Terminals ICD, Dadri

Adani Logistics Park ICD, Gurgaon

CONCOR Kanakpura ICD, Jaipur

CONCOR ICD, Aurangabad

Quadrant : III
High Potential

Quadrant : IV
Laggard

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Import Cycle Analysis

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in import cycle
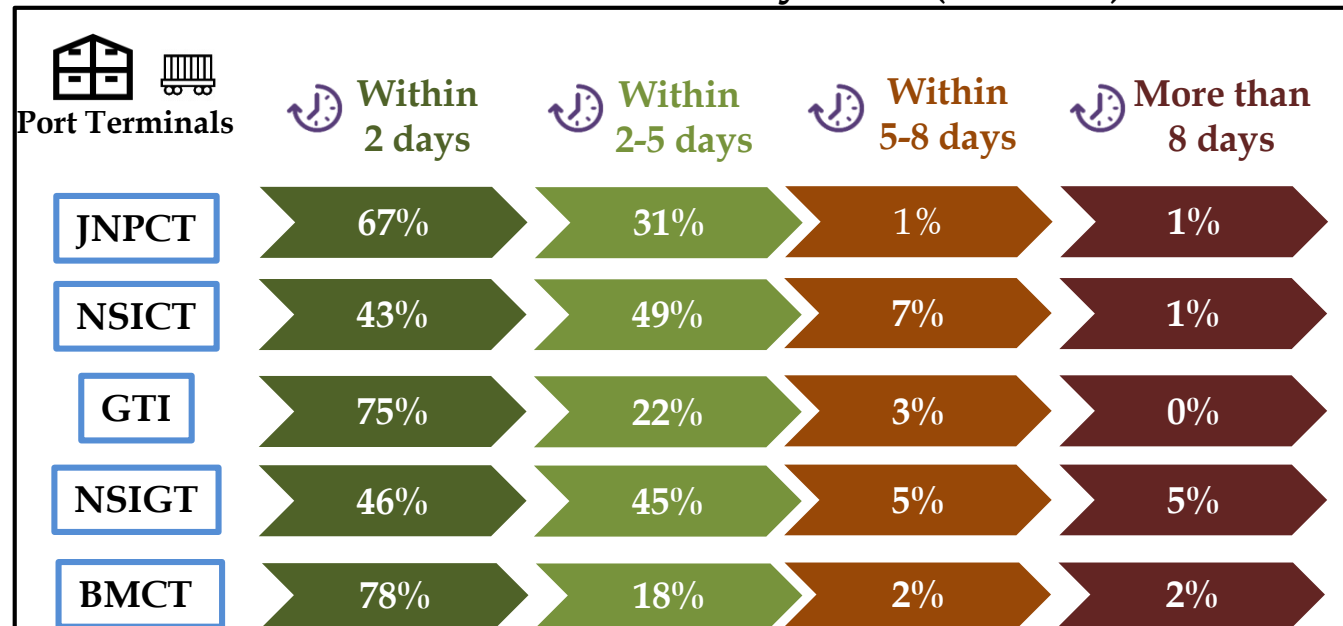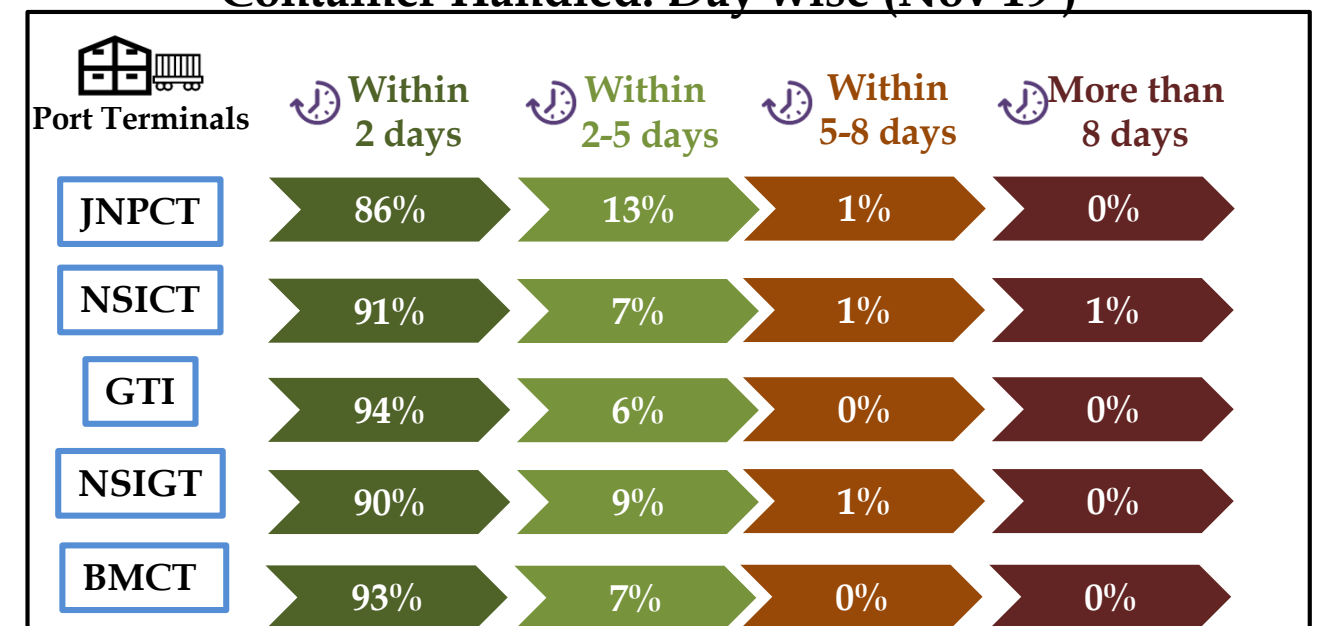
PORT IMPORT via TRAIN
(20% of total import volume at JNPT Port)

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	Oct'19 (in hrs)	Nov'19 (in hrs)
JNPCT	37.3	33.2
NSICT	59.4	51.9
GTI	36.9	26.6
NSIGT	57.9	51.7
BMCT	38.8	19.3

Container Handled: Day wise (Nov'19)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	67%	31%	1%	1%
NSICT	43%	49%	7%	1%
GTI	75%	22%	3%	0%
NSIGT	46%	45%	5%	5%
BMCT	78%	18%	2%	2%

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	Oct'19 (in hrs)	Nov'19 (in hrs)
JNPCT	24.5	25.0
NSICT	26.9	16.7
GTI	21.6	13.3
NSIGT	20.2	16.3
BMCT	20.8	18.7

Container Handled: Day wise (Nov'19)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	86%	13%	1%	0%
NSICT	91%	7%	1%	1%
GTI	94%	6%	0%	0%
NSIGT	90%	9%	1%	0%
BMCT	93%	7%	0%	0%

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

Nov'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	39.0 hrs	22.4 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	25.6 hrs	31.6 hrs

GTI

Port Dwell time based on transit type

Nov'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	33.5 hrs	11.9 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	14.3 hrs	22.3 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

Nov'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	50.3 hrs	14.9 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	19.4 hrs	25.5 hrs

NSIGT

Port Dwell time based on transit type

Nov'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	38.2 hrs	13.6 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	20.4 hrs	36.8 hrs

BMCT

Port Dwell time based on transit type

Nov'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	32.5 hrs	18.1 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	18.0 hrs	25.4 hrs

JNPT Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPT region in Import Cycle in month of Nov'19
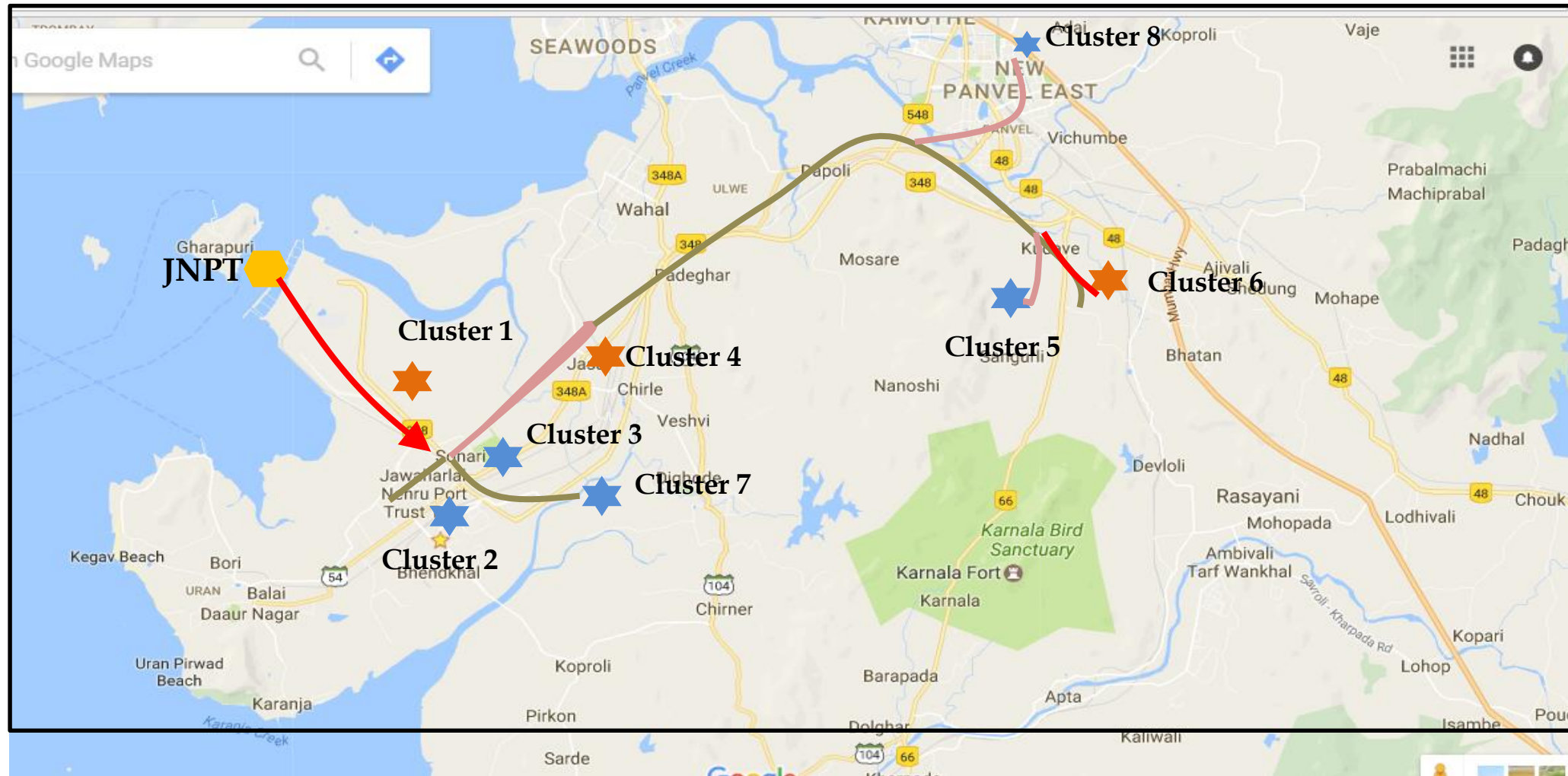
Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 2	Bhendkhal area, Khopate 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 3	Sonari area,JNPT road
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

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

Truck
HEAT MAP : OVERALL MUMBAI REGION

Region	Nov'19
Mumbai region	48%
NH3	3%
Pune	10%
NH8	29%
others	10%

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

Heat Map via Truck: Nov'19
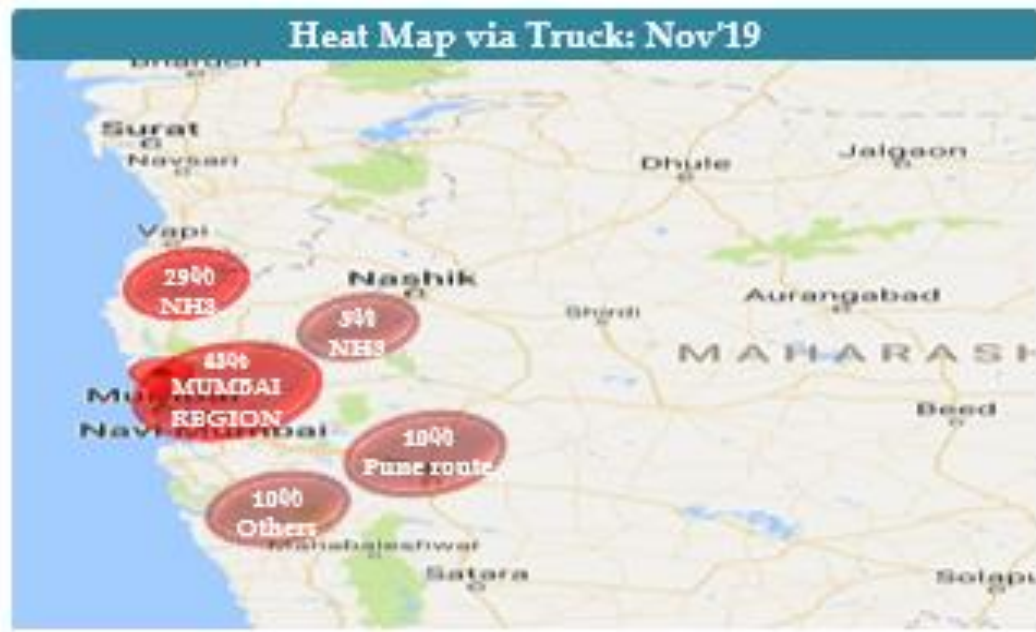
Train
VOLUME WISE CONTAINER MOVEMENT

Region	Nov'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

Container movement via Rail – Nov'19

Western Corridor Toll Plaza Analysis
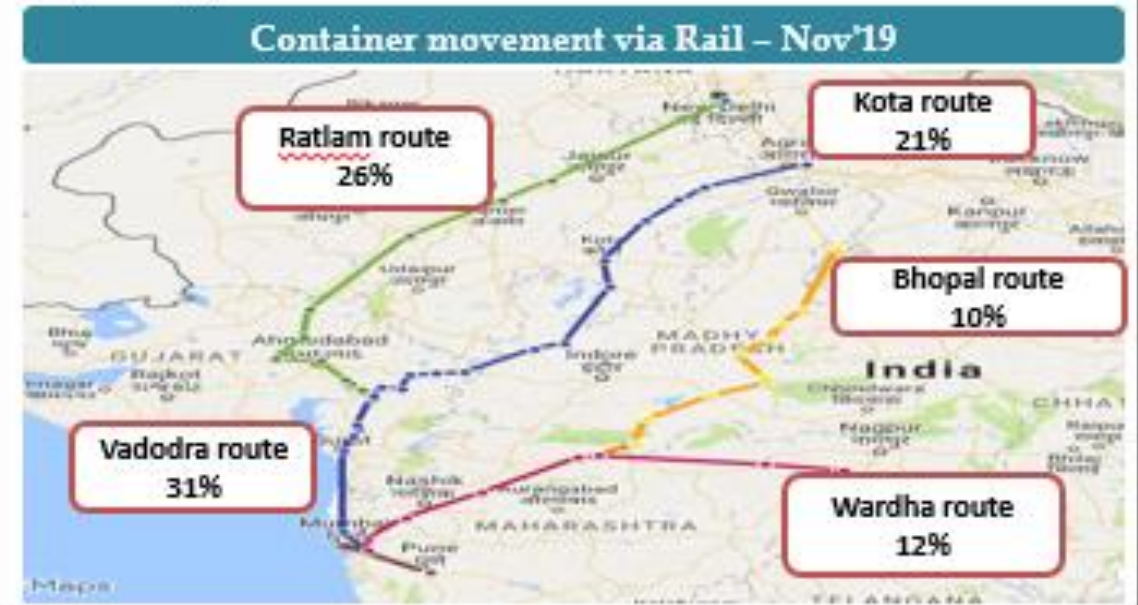
Avg. Speed between Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Oct'19 (in km/hrs)	Nov'19 (in km/hrs)
JNPT	JNPT	Khaniwade	94	14.2	15.6
	JNPT	Khalapur	60	10.55	11.00
	Khaniwade	Charoti	50	35.5	36.5
	Charoti	Boriach	126	27.5	27.6
	Boriach	Bharthan	142	31.4	33.2
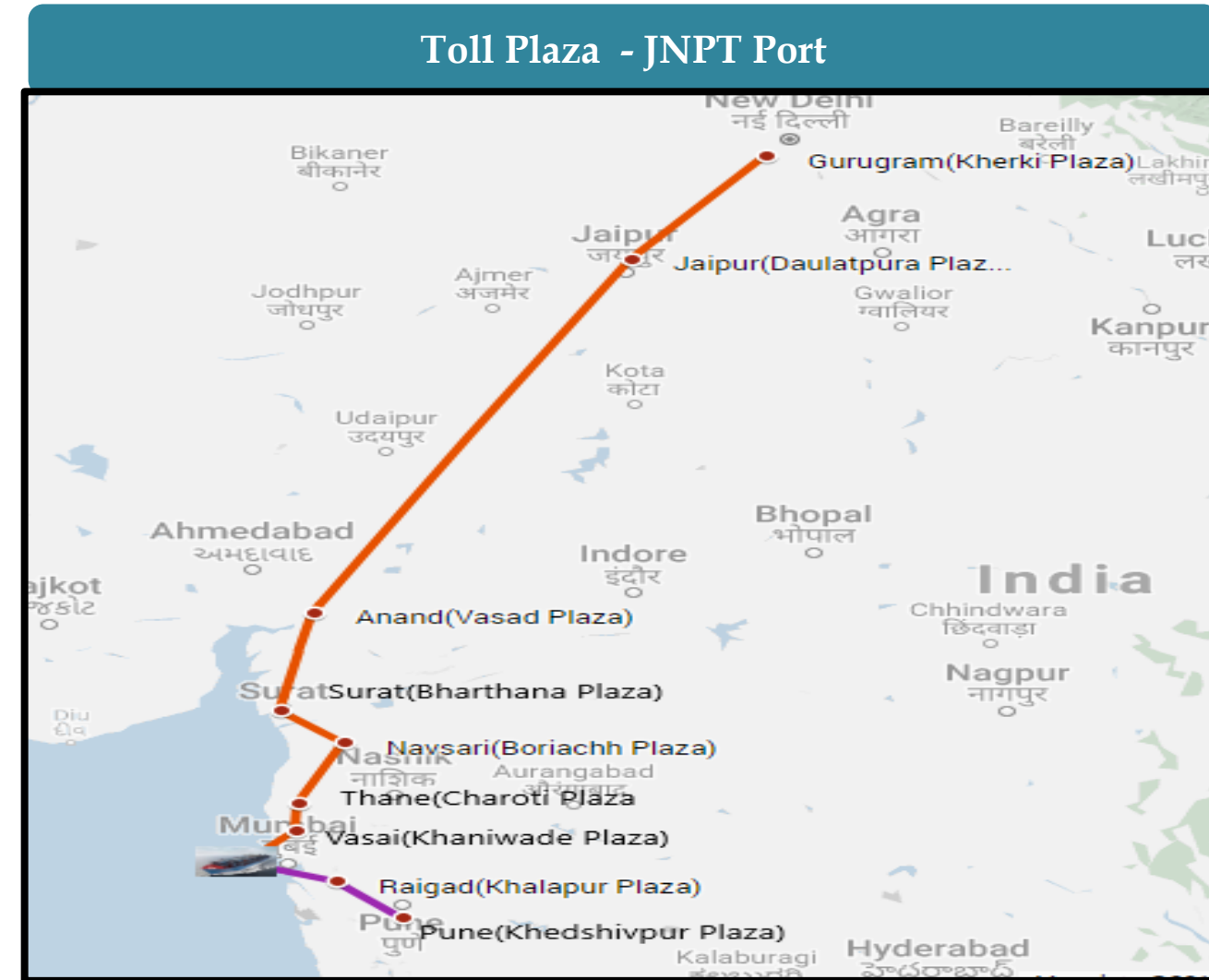
Toll Plaza - JNPT Port

Export Cycle Analysis

JNPT Region: Dwell Time Performance (Export Cycle)

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The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in export cycle
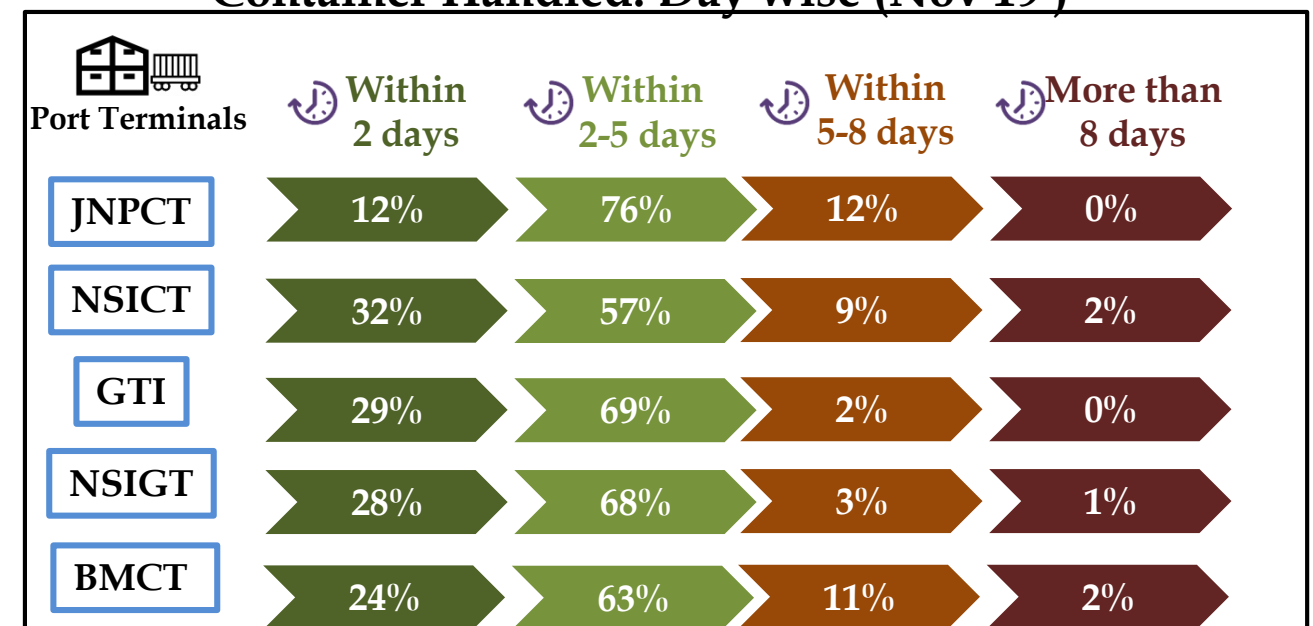
PORT EXPORT via TRAIN
(19% of total export volume at JNPT Port)

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	Oct'19 (in hrs)	Nov'19 (in hrs)
JNPCT	89.4	91.6
NSICT	11.9	8.3
GTI	88.2	78.5
NSIGT	61.4	81.5
BMCT	89.0	84.7

Container Handled: Day wise (Nov'19)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	20%	49%	30%	1%
NSICT	84%	10%	5%	1%
GTI	28%	42%	25%	5%
NSIGT	31%	37%	31%	1%
BMCT	30%	37%	23%	10%
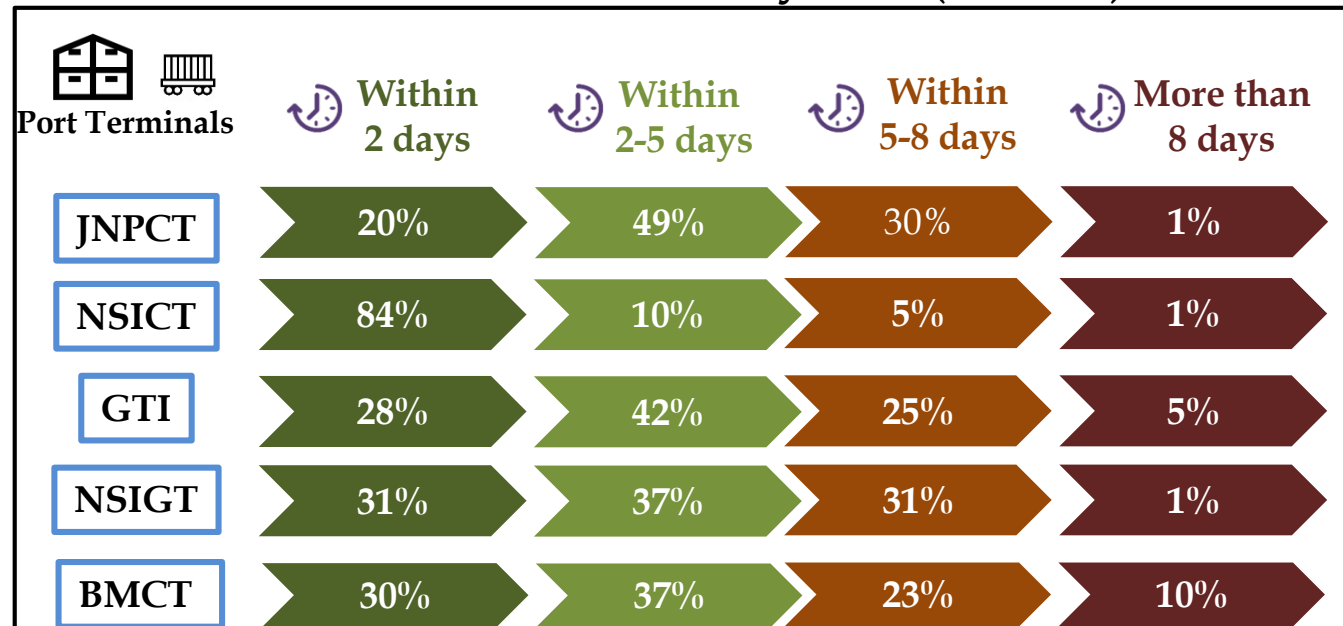
PORT EXPORT via TRUCK
(81% of total export volume at JNPT Port)

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	Oct'19 (in hrs)	Nov'19 (in hrs)
JNPCT	73.0	79.5
NSICT	74.6	68.4
GTI	62.5	64.9
NSIGT	67.5	67.3
BMCT	73.9	73.2

Container Handled: Day wise (Nov'19)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	12%	76%	12%	0%
NSICT	32%	57%	9%	2%
GTI	29%	69%	2%	0%
NSIGT	28%	68%	3%	1%
BMCT	24%	63%	11%	2%

# JNPT Region: Dwell Time Performance (Export Cycle)

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

JNPCT

Port Dwell time based on transit type

Nov'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	74.5 hrs	72.9 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	72.2 hrs	85.6 hrs

GTI

Port Dwell time based on transit type

Nov'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	67.6 hrs	59.0 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	66.2 hrs	67.4 hrs

JNPT Region: Dwell Time Performance (Export Cycle)

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

NSICT

Port Dwell time based on transit type

Nov'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	75.3 hrs	59.8 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	62.5 hrs	-

NSIGT

Port Dwell time based on transit type

Nov'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.1 hrs	59.4 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	66.0 hrs	70.3 hrs

BMCT

Port Dwell time based on transit type

Nov'19	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	62.6 hrs

Port Dwell time based on container type

Nov'19	Laden Containers	Empty Containers
Dwell time (in hrs)	66.9 hrs	81.9 hrs

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The Below map indicate congestion around JNPT region in Export Cycle in month of Nov'19
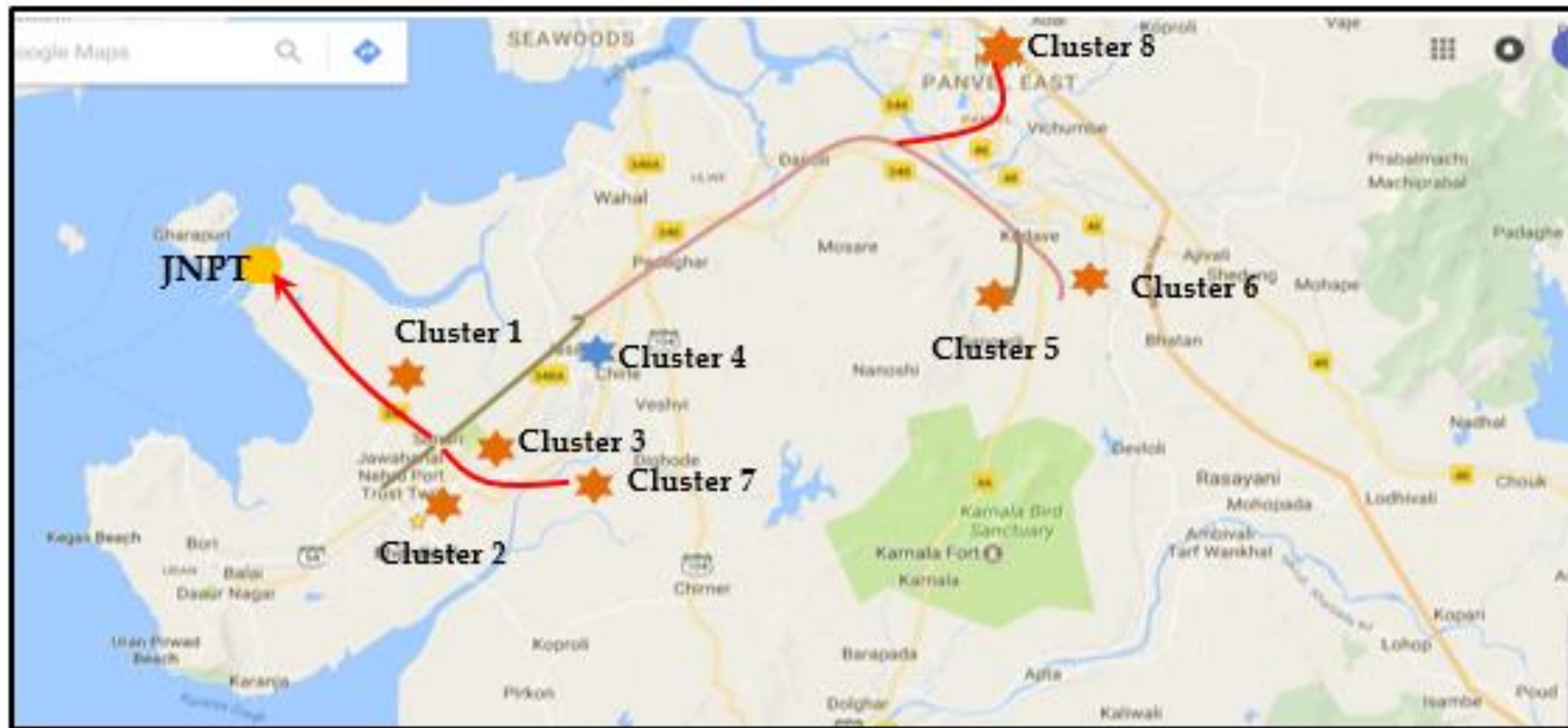
Clusters with bottleneck	
CLUSTER 1	JNPT Area
CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area,JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road
CLUSTER 8	Taloja, Navi Mumbai

Clusters without bottleneck	
CLUSTER 4	Chirle area , JNPT road

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 Region: Container Movement via Train

JNPT Port	
Route	**Percentage of Container Movement**
Vadodra Route	34%
Ratlam Route	29%
Wardha Route	15%
Kota Route	18%
Bhopal Route	4%

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

Container movement via Rail – Nov'19
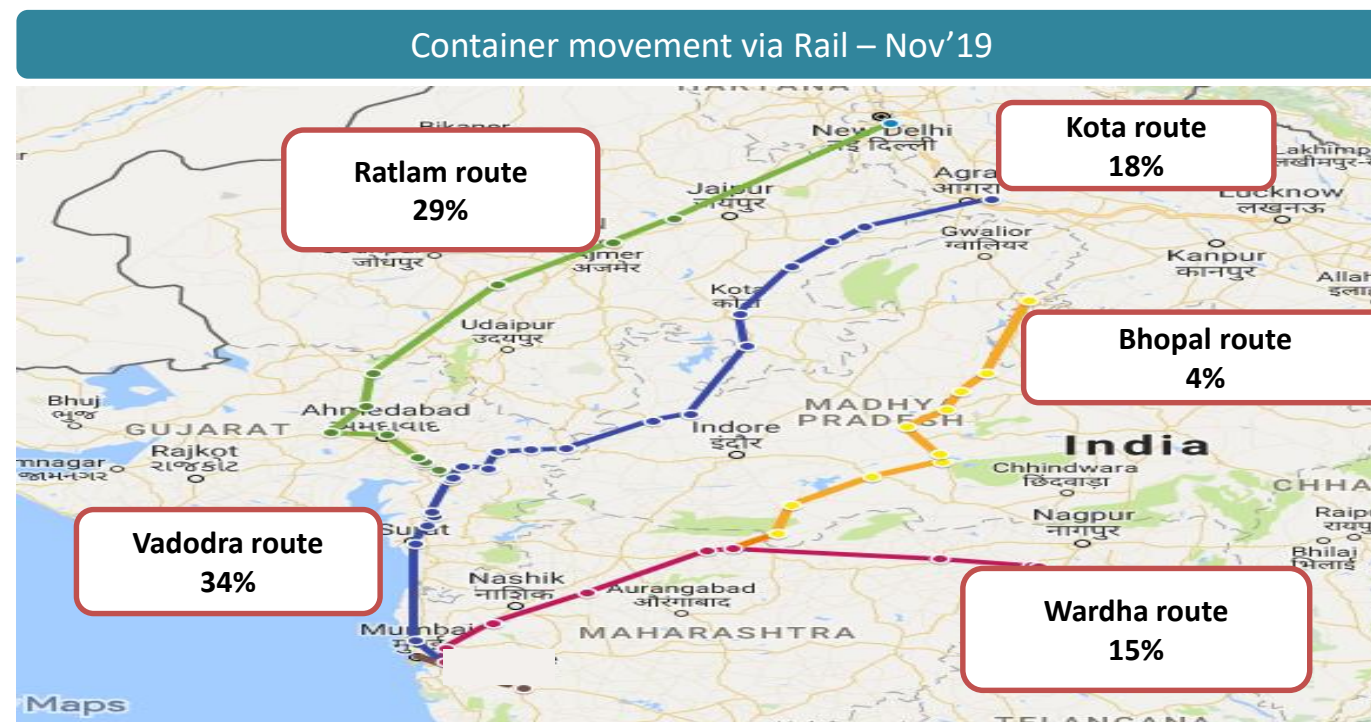
CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)

CFS	Oct'19	Nov'19	CFS	Oct'19	Nov'19
Ameya Logistics CFS, Navi Mumbai	85.9	91.0	Maersk Annex (APM)CFS, Navi Mumbai	103.3	101.5
APM (Maersk India) CFS, Navi Mumbai	88.7	87.6	Navkar Corporation Yard 1 CFS, Panvel	91.3	107.5
Apollo Logisolutions CFS, Panvel	80.2	72.1	Navkar Corporation Yard 2 CFS, Panvel	91	90.8
Ashte Logistics CFS, Panvel	101.5	84.9	Navkar Corporation Yard 3 CFS, Panvel	79.9	53.3
Balmer & Lawrie CFS, Navi Mumbai	81.7	64.5	Ocean Gate CFS, Panvel	89.5	76.3
CWC Hind Terminal CFS, Navi Mumbai	98.1	82.2	Punjab Conware CFS, Navi Mumbai	64.2	58.9
Dronagiri Rail Terminal CFS, Navi Mumbai	79.4	66.6	Sarveshwar CFS	118.1	94.3
EFC Logistics India	90	87.0	Seabird CFS, Navi Mumbai	88.1	93.2
Gateway Distriparks CFS, Navi Mumbai	88.6	78.8	Speedy Multimode CFS, JNPT	75.2	72.8
Indev Logistics CFS, Panvel	86.7	85.4	Take Care Logistics CFS	110.4	132.8
International Cargo Terminal CFS	93.5	79.1	TG Terminals CFS	96.8	90.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	90.9	84.7	Transindia Logistics Park, Navi Mumbai	83.2	68.9
JWC Logistics Park CFS	80.6	69.8	Vaishno Logistics CFS, Navi Mumbai	82.4	78.7
JWR CFS	56.9	51.0			

CFS – DWELL OVERVIEW – NOV'19 (IN HRS)

Average: 75.5 hrs.
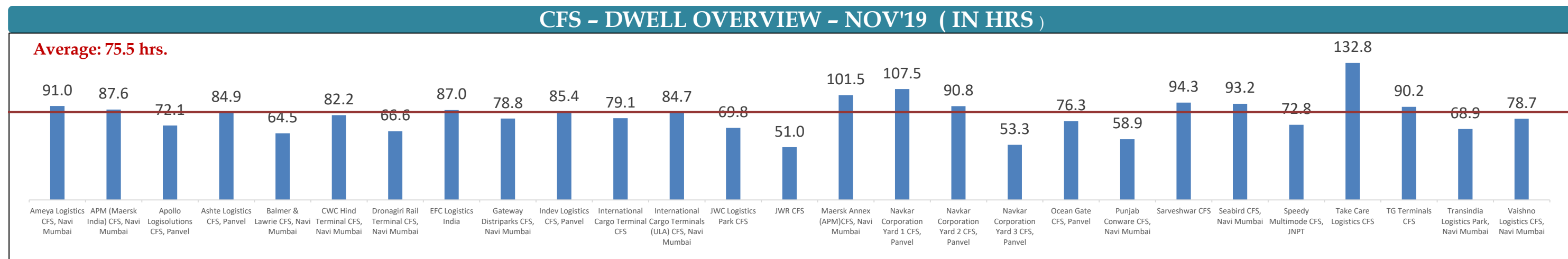
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Oct'19 (in hrs)	Nov'19 (in hrs)
ACTL ICD, Faridabad	128.3	146.2
Adani Logistics Park ICD, Gurgaon	132.3	167.4
Albatross Inland Ports ICD, Dadri	140.2	137.0
Allcargo Logistics Park ICD, Dadri	138.5	131.8
APM Terminals ICD, Dadri	166.3	154.4
CMA CGM Logistics Park, Dadri	143.9	118.9
Gateway Rail Freight ICD, Gurgaon	99.7	71.5
GatewayRail Freight ICD, Pyala	105.6	90.4
Hind Terminals Logistics Park ICD, Palwal	168.0	154.7

ICD – DWELL OVERVIEW (Nov'19) (In Hrs)

Avg. 130.1 hrs.

Trend Analysis
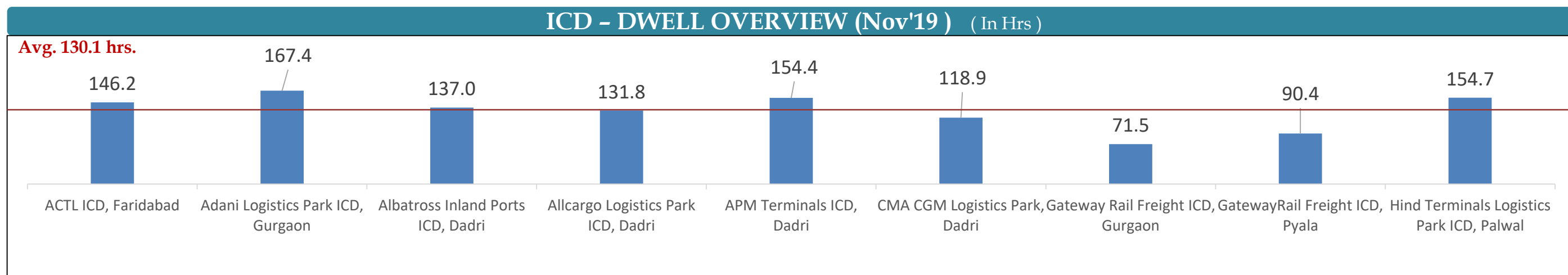
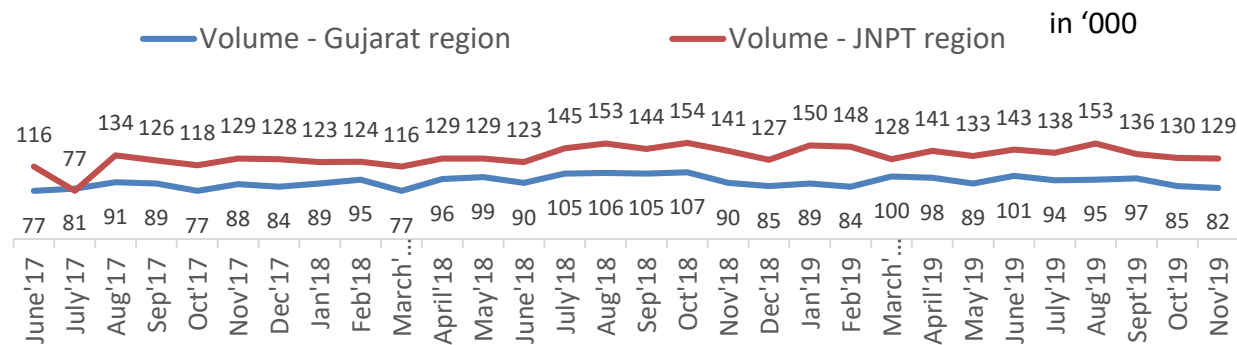# Western Corridor Port – Yearly Analysis

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

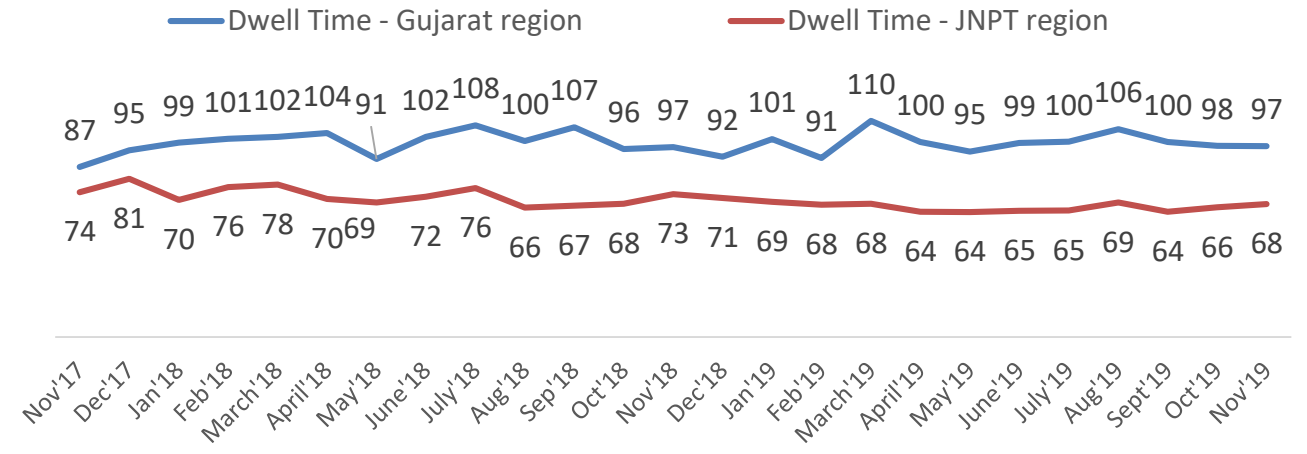## Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region

— Dwell Time - Gujarat region — Dwell Time - JNPT region

Volume – Gujarat Region Vs JNPT Region
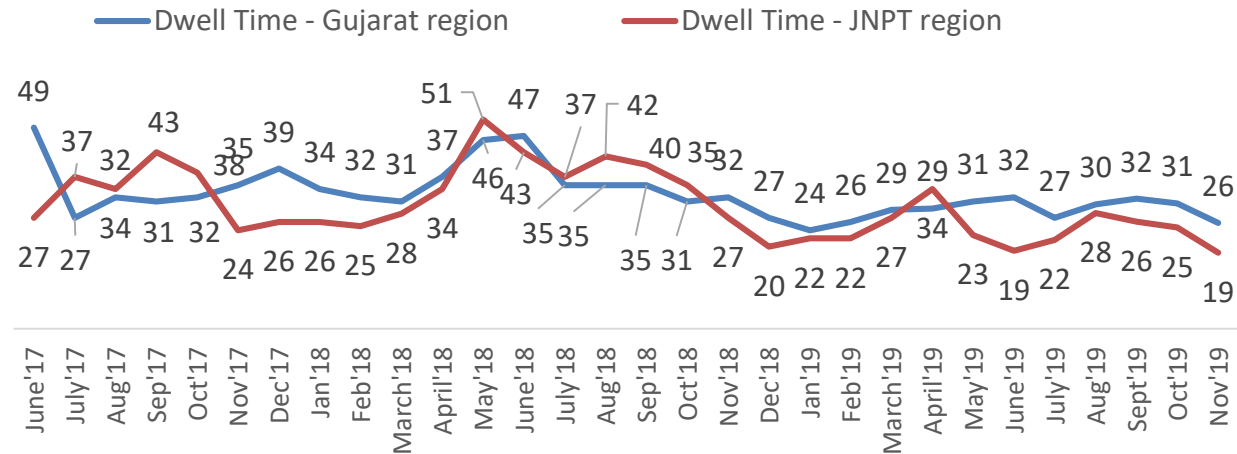
— Volume - Gujarat region — Volume - JNPT region   in '000

In Import cycle, for the month of Nov'19 JNPT port has catered 57% **more volume** than APSEZ Port, and has maintained 28% **lower dwell time** than APSEZ Port

Export Cycle
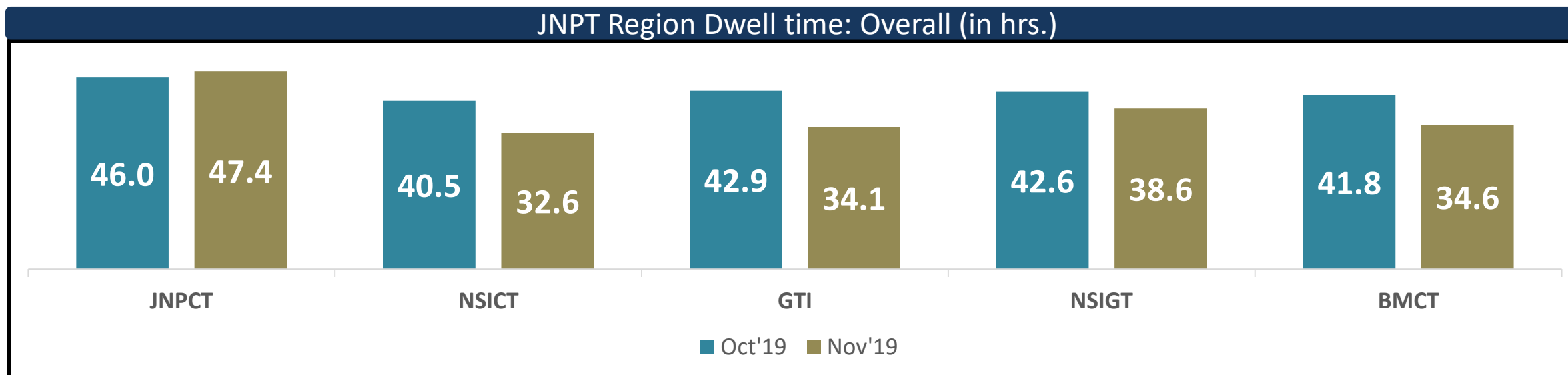

Dwell Time – Gujarat Region Vs JNPT Region

— Dwell Time - Gujarat region — Dwell Time - JNPT region

Volume – Gujarat Region Vs JNPT Region

— Volume - Gujarat region — Volume - JNPT region   in '000
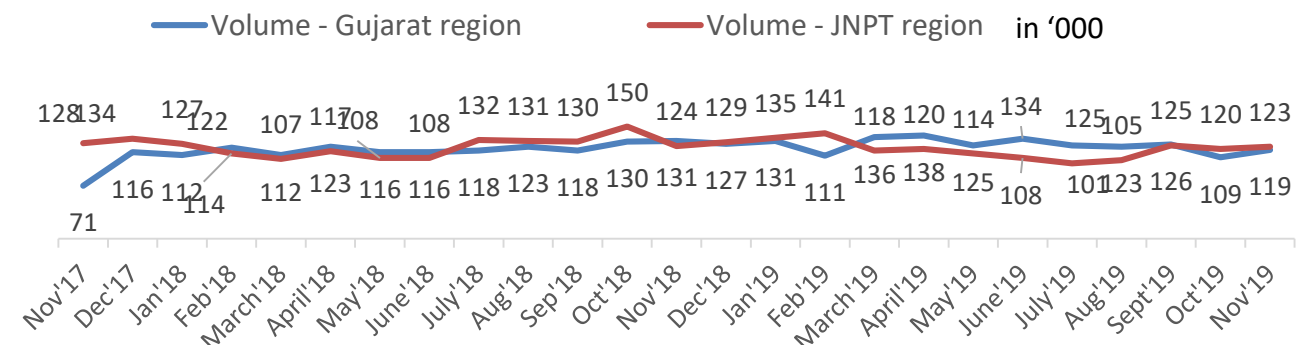
In Export cycle, for the month Nov'19 JNPT port catered **3% less volume** then JNPT Port, and has maintained 30% **lower dwell time** than APSEZ Port

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
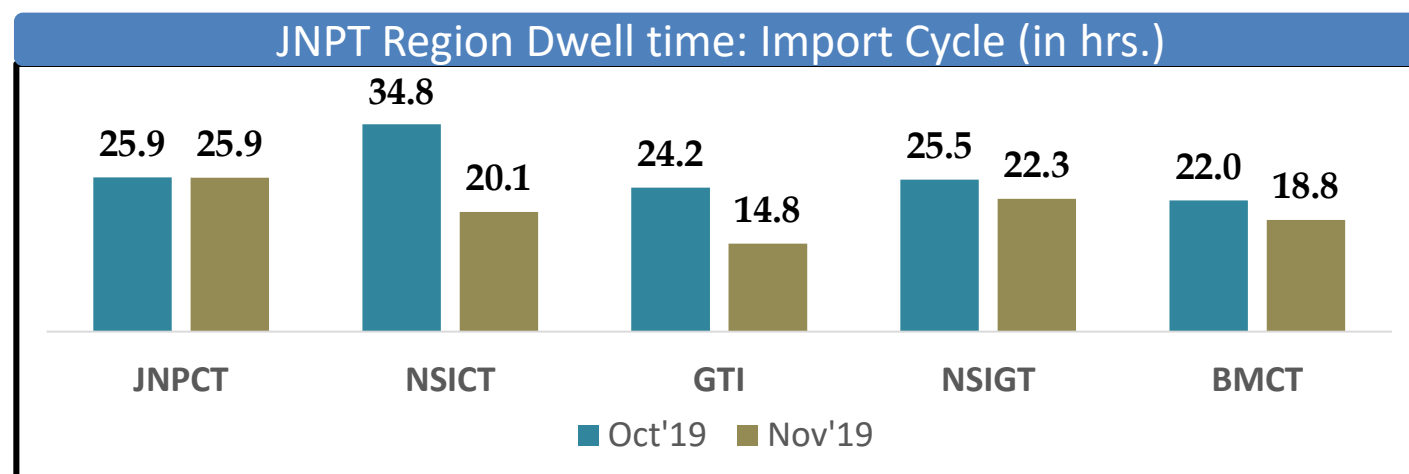
JNPT Region Dwell time: Overall (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
Oct'19	46.0	40.5	42.9	42.6	41.8
Nov'19	47.4	32.6	34.1	38.6	34.6

The overall JNPT region average dwell time for Nov'19 is 36.6 hrs as compared to 42.9 hrs in Oct'19

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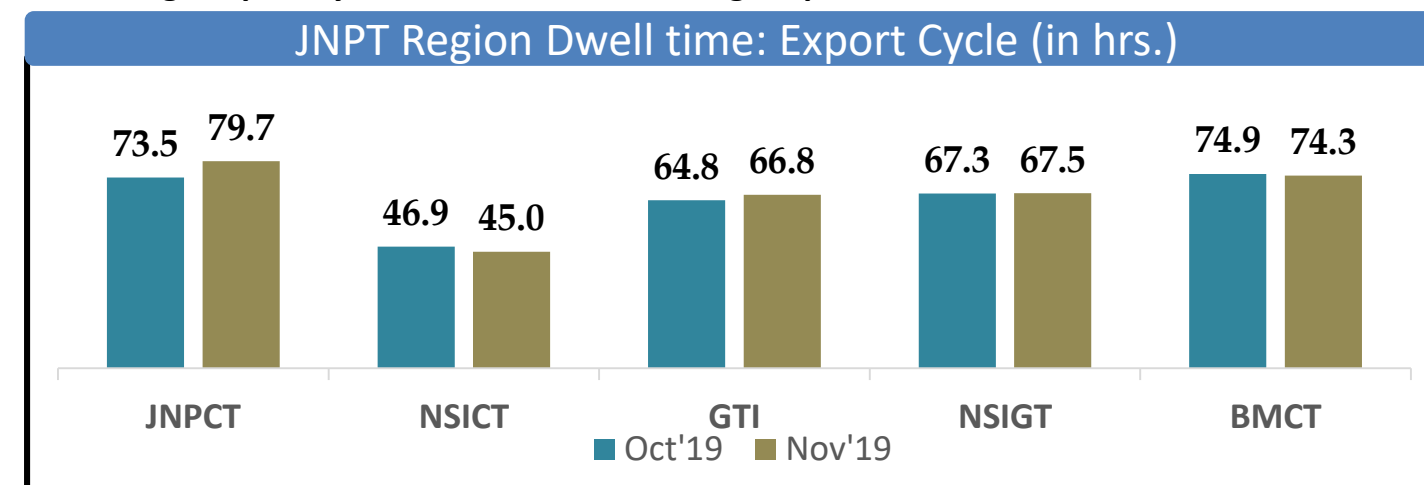
JNPT Import cycle Trend

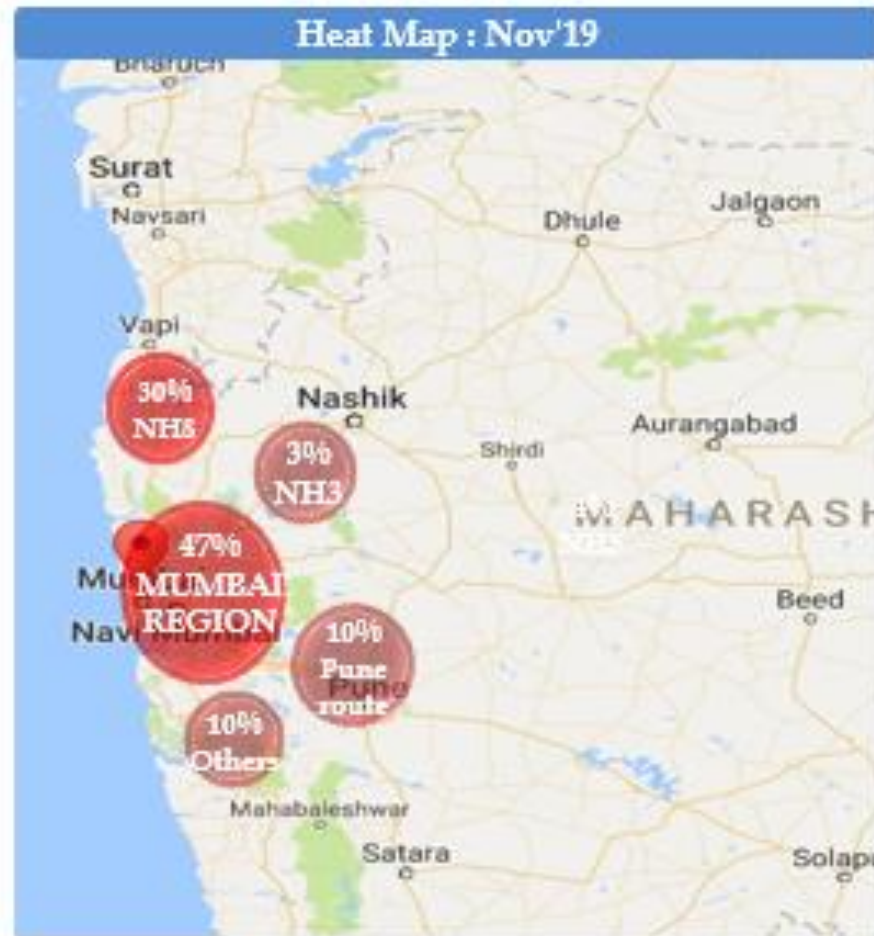**The average import cycle dwell time of JNPT region port terminals for Nov'19 is 18.5 hrs.**

JNPT Region Dwell time: Import Cycle (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
Oct'19	25.9	34.8	24.2	25.5	22.0
Nov'19	25.9	20.1	14.8	22.3	18.8

JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Nov'19 is 67.9 hrs.

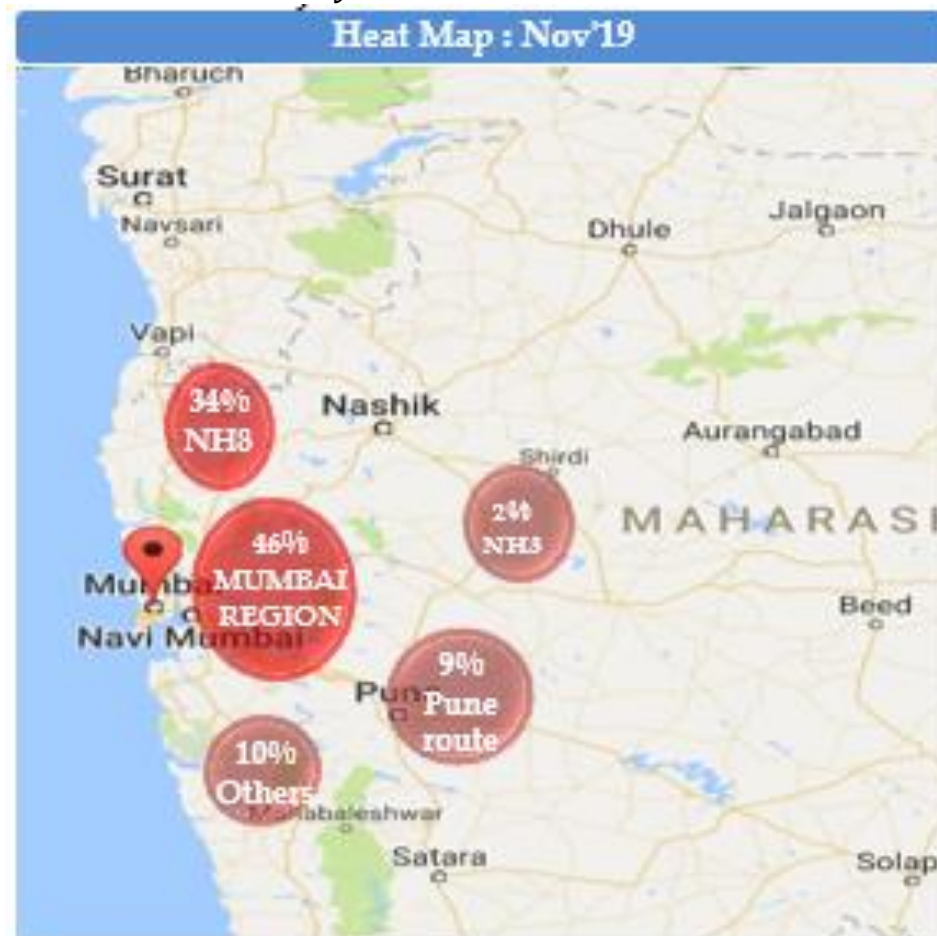## JNPT Region Dwell time: Export Cycle (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
Oct'19	73.5	46.9	64.8	67.3	74.9
Nov'19	79.7	45.0	66.8	67.5	74.3

ANNEXURE

Container movement around JNPT Port terminal region via Truck

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HEAT MAP : GTI Port Terminal

HEAT MAP : JNPCT Port Terminal

HEAT MAP : NSICT Port Terminal

Region	Oct'19	Nov'19
Mumbai region	36%	47%
NH3	3%	3%
Pune	18%	10%
NH8	33%	30%
others	10%	10%

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

Region	Oct'19	Nov'19
Mumbai region	33%	46%
NH3	3%	2%
Pune	16%	9%
NH8	38%	34%
others	10%	10%

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

Region	Oct'19	Nov'19
Mumbai region	46%	61%
NH3	5%	3%
Pune	16%	7%
NH8	23%	20%
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

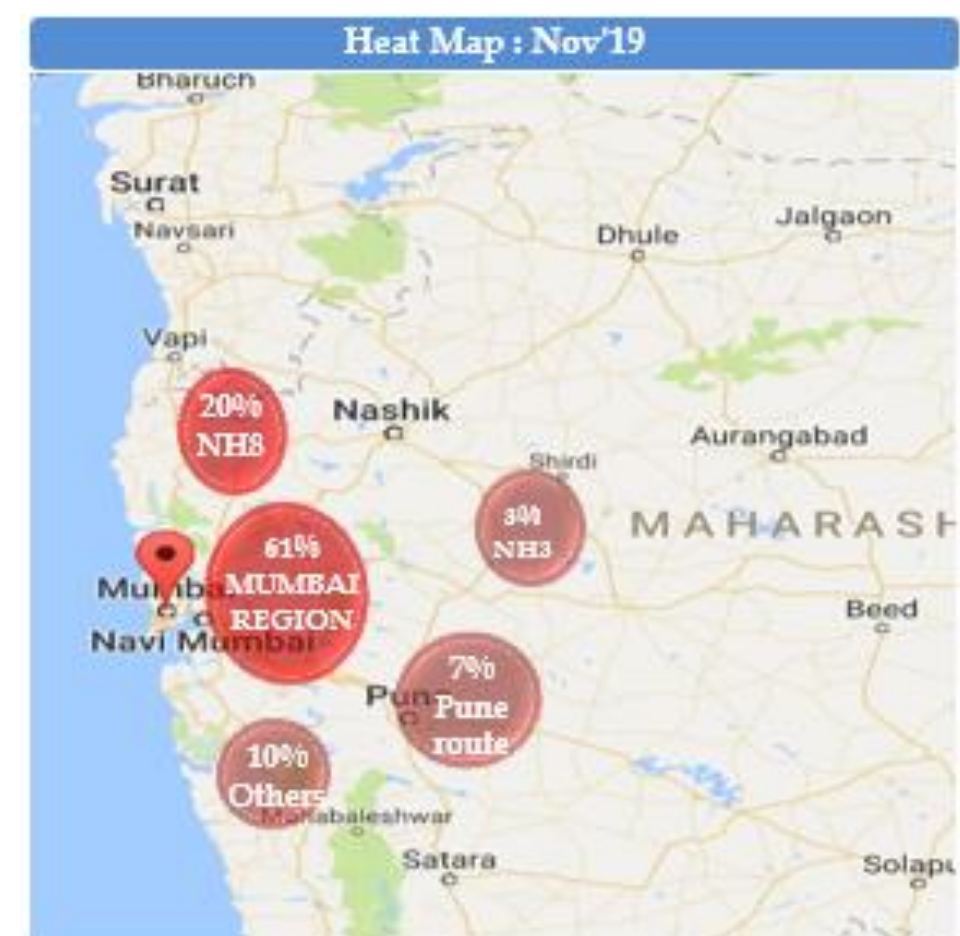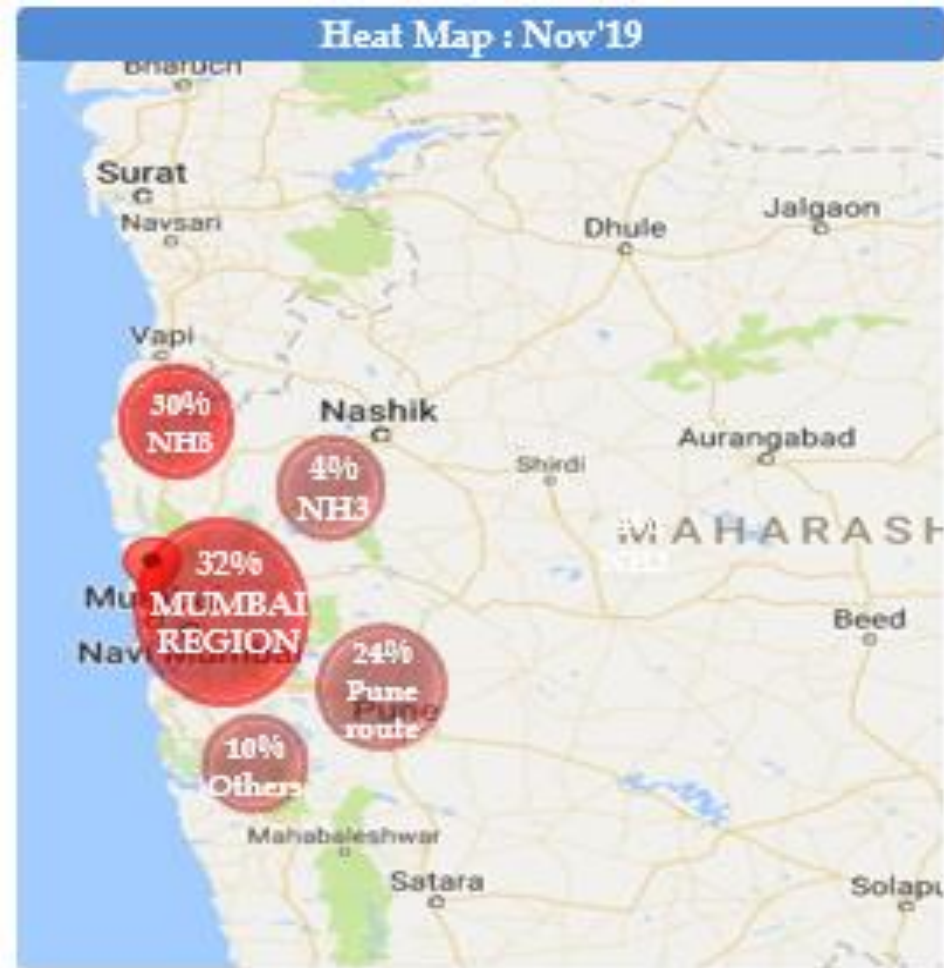| Region	Oct'19	Nov'19
Mumbai region	32%	44%
NH3	4%	4%
Pune	24%	13%
NH8	30%	29%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal
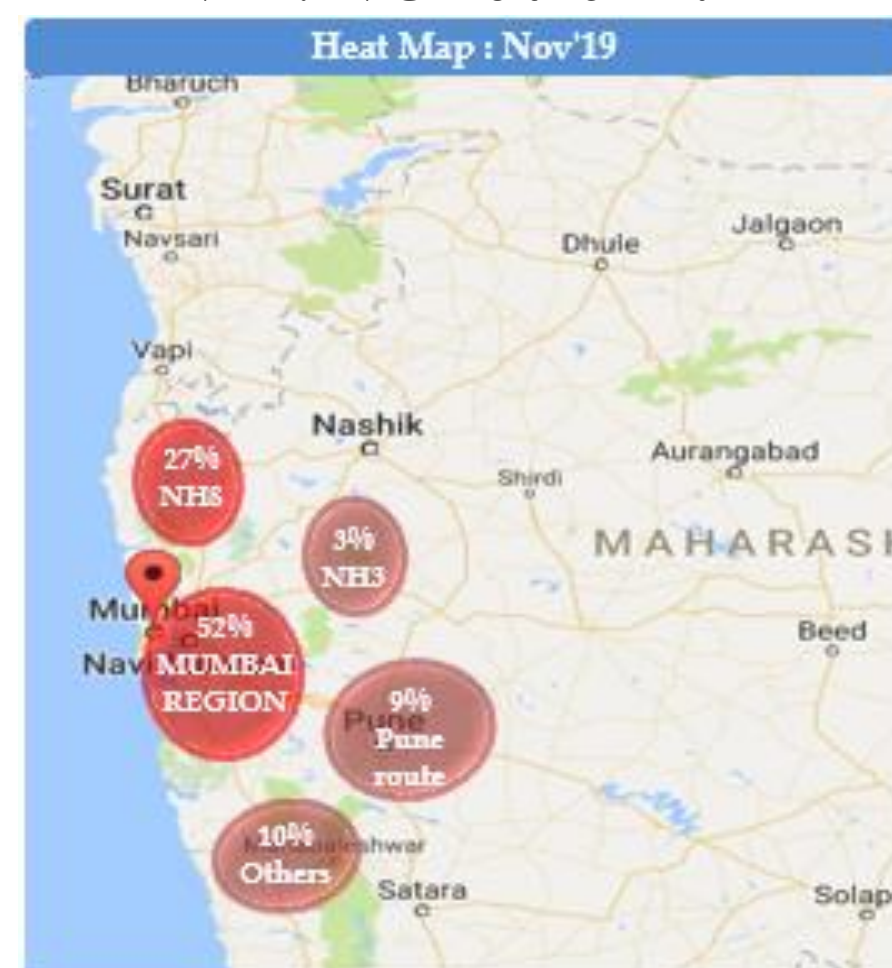
Region	Oct'19	Nov'19
Mumbai region	23%	52%
NH3	4%	3%
Pune	21%	9%
NH8	43%	27%
others	10%	10%

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 Nov'19					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Speedy Multimode CFS, JNPT	1.7	3.3	1.8	2.6	2.0
Dronagiri Rail Terminal CFS, Navi Mumbai	-	-	-	-	-
Maharashtra State Corp CFS	1.6	2.8	2.9	2.3	2.4
JWR CFS	-	-	-	-	-
Navkar Corporation Yard 3 CFS, Panvel	8.5	18.3	16.0	7.7	14.8
International Cargo Terminal CFS	-	-	-	-	-
CWC Hind Terminal CFS, Navi Mumbai	1.8	3.7	2.0	2.0	2.3
Navkar Corporation Yard 2 CFS, Panvel	10.0	9.2	7.5	4.6	8.3
Punjab Conware CFS, Navi Mumbai	2.8	3.7	1.9	2.1	2.7
JWC Logistics Park CFS	3.1	4.5	3.6	3.0	3.7
TG Terminals CFS	-	-	-	-	-
Apollo Logisolutions CFS, Panvel	11.8	7.8	5.5	6.4	7.6
Vaishno Logistics CFS, Navi Mumbai	4.3	1.9	2.1	2.4	2.2
Gateway Distriparks CFS, Navi Mumbai	2.6	5.5	2.3	2.7	2.4
Transindia Logistics Park, Navi Mumbai	2.2	3.0	3.2	2.9	3.7
Ashte Logistics CFS, Panvel	6.0	6.4	2.8	7.5	2.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.6	2.9	2.0	4.1	2.7
All Cargo Logistics CFS, Navi Mumbai	-	-	-	-	-
Ocean Gate CFS, Panvel	3.0	5.6	3.2	2.0	3.9
Ameya Logistics CFS, Navi Mumbai	4.4	3.9	4.1	4.1	5.4
APM (Maersk India) CFS, Navi Mumbai	2.6	2.3	1.8	2.3	3.0
Seabird CFS, Navi Mumbai	2.4	2.4	2.4	1.9	2.0
Continental Warehousing CFS, Navi Mumbai	2.2	4.4	2.1	2.0	1.8
Indev Logistics CFS, Panvel	14.0	3.6	2.8	4.6	3.7
SBW Logistics CFS, Navi Mumbai	8.8	8.9	8.6	8.7	12.3
Balmer & Lawrie CFS, Navi Mumbai	2.4	5.6	2.3	3.3	2.0
CWC Dronagiri CFS, Navi Mumbai	1.8	2.5	2.4	1.4	1.7

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'19 (in hrs)
Speedy Multimode CFS, JNPT	2.0
Dronagiri Rail Terminal CFS, Navi Mumbai	-
Maharashtra State Corp CFS	6.1
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	11.4
International Cargo Terminal CFS	-
CWC Hind Terminal CFS, Navi Mumbai	1.9
Navkar Corporation Yard 2 CFS, Panvel	3.6
Punjab Conware CFS, Navi Mumbai	2.3
JWC Logistics Park CFS	3.7
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	4.3
Vaishno Logistics CFS, Navi Mumbai	2.8
Gateway Distriparks CFS, Navi Mumbai	3.0
Transindia Logistics Park, Navi Mumbai	3.1
Ashte Logistics CFS, Panvel	4.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.6
All Cargo Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	3.5
Ameya Logistics CFS, Navi Mumbai	2.1
APM (Maersk India) CFS, Navi Mumbai	2.5
Seabird CFS, Navi Mumbai	2.2
Continental Warehousing CFS, Navi Mumbai	1.8
Indev Logistics CFS, Panvel	5.2
SBW Logistics CFS, Navi Mumbai	3.7
Balmer & Lawrie CFS, Navi Mumbai	2.1
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	3.0
Maersk Annex (APM)CFS, Navi Mumbai	3.1
Take Care Logistics CFS	-

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'19 (in hrs)
Speedy Multimode CFS, JNPT	1.5
Dronagiri Rail Terminal CFS, Navi Mumbai	-
Maharashtra State Corp CFS	2.4
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	16.8
International Cargo Terminal CFS	-
CWC Hind Terminal CFS, Navi Mumbai	1.7
Navkar Corporation Yard 2 CFS, Panvel	2.8
Punjab Conware CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	2.6
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	4.4
Vaishno Logistics CFS, Navi Mumbai	1.7
Gateway Distriparks CFS, Navi Mumbai	2.5
Transindia Logistics Park, Navi Mumbai	2.6
Ashte Logistics CFS, Panvel	3.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
All Cargo Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	2.9
Ameya Logistics CFS, Navi Mumbai	2.0
APM (Maersk India) CFS, Navi Mumbai	2.4
Seabird CFS, Navi Mumbai	1.9
Continental Warehousing CFS, Navi Mumbai	1.4
Indev Logistics CFS, Panvel	4.9
SBW Logistics CFS, Navi Mumbai	4.5
Balmer & Lawrie CFS, Navi Mumbai	2.1
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	2.8
Maersk Annex (APM)CFS, Navi Mumbai	2.2
Take Care Logistics CFS	-

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	Nov'19 (in hrs)
Speedy Multimode CFS, JNPT	1.5
Dronagiri Rail Terminal CFS, Navi Mumbai	-
Maharashtra State Corp CFS	-
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	2.6
International Cargo Terminal CFS	-
CWC Hind Terminal CFS, Navi Mumbai	1.9
Navkar Corporation Yard 2 CFS, Panvel	3.9
Punjab Conware CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	3.4
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	3.8
Vaishno Logistics CFS, Navi Mumbai	2.3
Gateway Distriparks CFS, Navi Mumbai	2.6
Transindia Logistics Park, Navi Mumbai	2.7
Ashte Logistics CFS, Panvel	6.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.4
All Cargo Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	3.2
Ameya Logistics CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	2.0
Seabird CFS, Navi Mumbai	1.9
Continental Warehousing CFS, Navi Mumbai	1.8
Indev Logistics CFS, Panvel	5.3
SBW Logistics CFS, Navi Mumbai	-
Balmer & Lawrie CFS, Navi Mumbai	1.7
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	3.5
Maersk Annex (APM)CFS, Navi Mumbai	2.7
Take Care Logistics CFS	-

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'19 (in hrs)
Speedy Multimode CFS, JNPT	1.7
Dronagiri Rail Terminal CFS, Navi Mumbai	-
Maharashtra State Corp CFS	19.2
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	5.2
International Cargo Terminal CFS	-
CWC Hind Terminal CFS, Navi Mumbai	1.8
Navkar Corporation Yard 2 CFS, Panvel	3.4
Punjab Conware CFS, Navi Mumbai	2.2
JWC Logistics Park CFS	3.2
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	4.9
Vaishno Logistics CFS, Navi Mumbai	2.9
Gateway Distriparks CFS, Navi Mumbai	3.4
Transindia Logistics Park, Navi Mumbai	2.7
Ashte Logistics CFS, Panvel	7.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.5
All Cargo Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	3.2
Ameya Logistics CFS, Navi Mumbai	1.9
APM (Maersk India) CFS, Navi Mumbai	2.0
Seabird CFS, Navi Mumbai	2.4
Continental Warehousing CFS, Navi Mumbai	1.3
Indev Logistics CFS, Panvel	7.2
SBW Logistics CFS, Navi Mumbai	3.8
Balmer & Lawrie CFS, Navi Mumbai	2.3
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	3.2
Maersk Annex (APM)CFS, Navi Mumbai	2.4
Take Care Logistics CFS	-

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	Nov'19 (in hrs)
Speedy Multimode CFS, JNPT	1.6
Dronagiri Rail Terminal CFS, Navi Mumbai	-
Maharashtra State Corp CFS	1.8
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	4.9
International Cargo Terminal CFS	-
CWC Hind Terminal CFS, Navi Mumbai	1.8
Navkar Corporation Yard 2 CFS, Panvel	3.1
Punjab Conware CFS, Navi Mumbai	2.2
JWC Logistics Park CFS	3.0
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	4.2
Vaishno Logistics CFS, Navi Mumbai	1.4
Gateway Distriparks CFS, Navi Mumbai	3.4
Transindia Logistics Park, Navi Mumbai	2.8
Ashte Logistics CFS, Panvel	4.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.5
All Cargo Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	4.0
Ameya Logistics CFS, Navi Mumbai	2.3
APM (Maersk India) CFS, Navi Mumbai	2.2
Seabird CFS, Navi Mumbai	2.0
Continental Warehousing CFS, Navi Mumbai	1.5
Indev Logistics CFS, Panvel	4.6
SBW Logistics CFS, Navi Mumbai	4.4
Balmer & Lawrie CFS, Navi Mumbai	1.9
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	2.4
Maersk Annex (APM)CFS, Navi Mumbai	3.2
Take Care Logistics CFS	-

JNPT Region : Cluster Analysis

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'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.0	3.3
Cluster 2	6	13	2.5	3.3
Cluster 3	6	11	2.3	2.5
Cluster 4	1	13	2.8	1.0
Cluster 5	2	25	3.6	5.0
Cluster 6	6	25	4.2	7.1
Cluster 7	4	12	2.1	3.5
Cluster 8	1	34	3.7	8.9

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Nov'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	1.5	1.7
Cluster 2	6	13	2.1	2.5
Cluster 3	6	11	2.1	1.8
Cluster 4	1	13	1.7	2.2
Cluster 5	2	25	2.8	3.1
Cluster 6	6	25	3.9	9.2
Cluster 7	4	12	2.0	2.2
Cluster 8	1	34	4.5	8.8

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**

JNPT Region : Cluster Analysis

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 Nov'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	1.5	1.8
Cluster 2	6	13	2.0	2.0
Cluster 3	6	11	2.0	2.4
Cluster 4	1	13	2.3	1.1
Cluster 5	2	25	3.3	3.4
Cluster 6	6	25	3.8	4.2
Cluster 7	4	12	2.3	2.6
Cluster 8	1	34	-	8.6

CFS Cluster : NSIGT Terminal

JNPCT terminal for month of Nov'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	2.6
Cluster 2	6	13	2.3	2.5
Cluster 3	6	11	2.4	1.9
Cluster 4	1	13	2.9	1.2
Cluster 5	2	25	3.2	2.5
Cluster 6	6	25	5.1	5.5
Cluster 7	4	12	1.9	2.5
Cluster 8	1	34	3.8	8.7

CFS Cluster : BMCT Terminal

JNPCT terminal for month of Nov'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.6	2.0
Cluster 2	6	13	2.2	2.4
Cluster 3	6	11	2.0	2.0
Cluster 4	1	13	2.5	2.7
Cluster 5	2	25	3.5	3.8
Cluster 6	6	25	4.3	5.7
Cluster 7	4	12	2.3	2.7
Cluster 8	1	34	4.4	12.3

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**

LDB Operations Snapshot

Legend:
- ICD- 14
- CFS-106
- TOLL PLAZA-25
- OPERATIONAL PORTS
- PLANNED PORTS

Map values:
- 14
- 106
- 25

Ports labeled on map:
MUNDRA, KANDALA, HAZIRA, JNPT, MURMUGAO, NEW MANGALORE, KOCHI, TUTICORN, CHENNAI, ENNORE, KATTUPALLI, KRISHNAPATNAM, VIZAG, PARADIP, HALDIA, KOLKATA
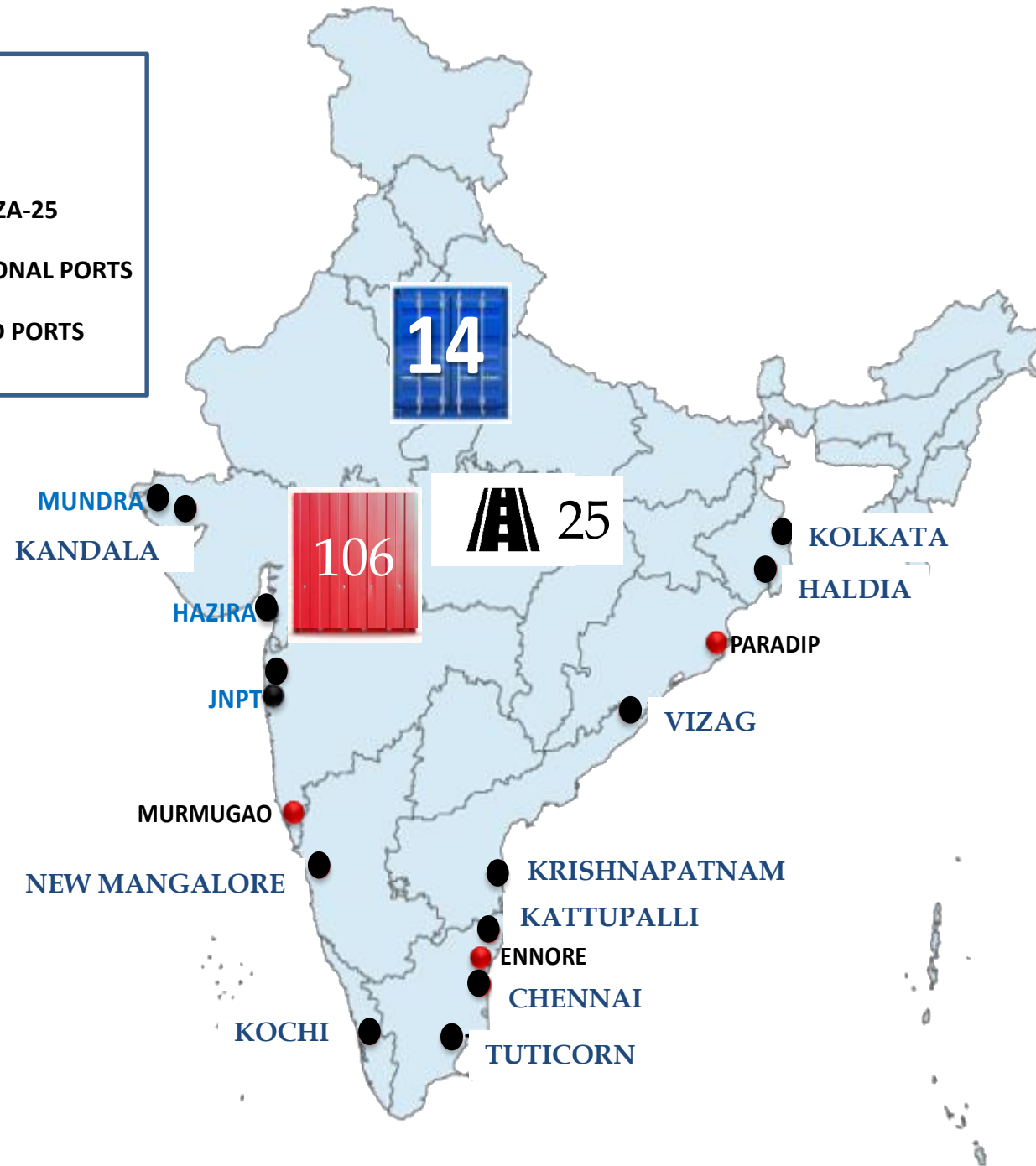
Below mentioned are all the CFS in the respective Clusters :

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 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

Cluster 8
SBW

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DMICDC LOGISTICS DATA SERVICES LTD
Logistics Redefined

List of CFS name used in CFS Performance Index

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

THANK YOU