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Jawaharlal Nehru Port Terminals

- Both Import & Export cycle Dwell Time performance has been decreased by 30% & 6% respectively

Component	Import Cycle	Export Cycle
Aug 2019	28.2 hrs	68.6 hrs
July 2019	21.6 hrs	64.7 hrs

30% (↓)   6% (↓)

- The transit performance between Port and ICD in Import cycle is increased by 6% whereas in Export cycle, the performance is reduced by 23%

Component	Import Cycle (Port to ICD)	Export Cycle (ICD to Port)
Aug 2019	76.0 hrs	74.9 hrs
July 2019	80.9 hrs	61.0 hrs

6% (↑)   23% (↓)

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	July'19 (in hrs)	Aug'19 (in hrs)
Overall	23.4	28.8
Truck	20.9	25.6
Train	52.1	58.0

EXPORT

Mode	July'19 (in hrs)	Aug'19 (in hrs)
Overall	80.3	84.8
Truck	79.6	83.8
Train	85.1	92.9

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 July'19

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

Entity	July'19 (in hrs)	Aug'19 (in hrs)
CFS	87.1	84.7
ICD	129.6	137.5

Container Transportation- JNPT Port Terminals

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Container Lifecycle (Import Cycle) →

IMPORT

Port Dwell Time

Mode	July'19 (in hrs)	Aug'19 (in hrs)
Overall	21.6	28.2
Truck	19.4	25.7
Train	43.1	48.4

EXPORT

Mode	July'19 (in hrs)	Aug'19 (in hrs)
Overall	64.7	68.6
Truck	65.3	69.5
Train	58.5	56.4

Transit Time

Towards ICD
Station

Transit Cycle	July'19 (in hrs)	Aug'19 (in hrs)
Port to ICD	80.9	76.0
Port to CFS	3.3	3.7

Towards CFS

From ICD
Station

Transit Cycle	July'19 (in hrs)	Aug'19 (in hrs)
ICD to Port	61.0	74.9
CFS to Port	4.1	5.0

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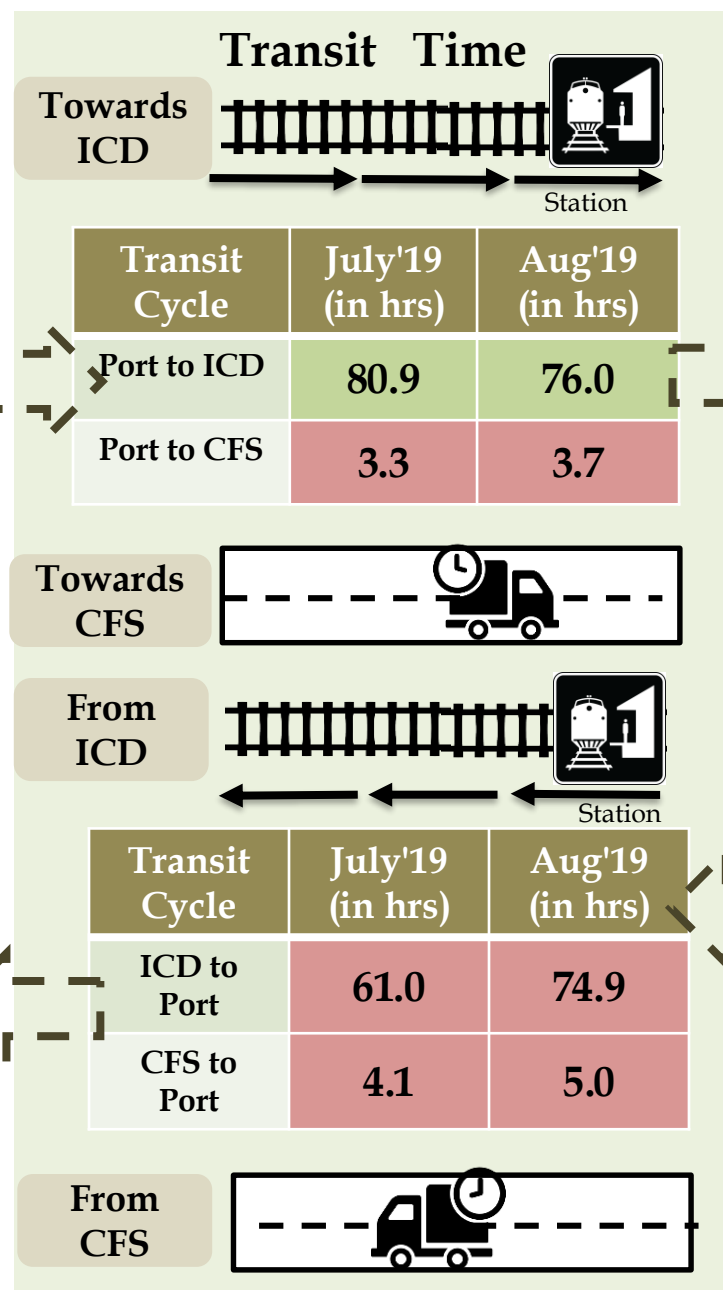
Container Freight Station (CFS) / Inland Container Depot (ICD) – Dwell Time

ICD   CFS

Entity	July'19 (in hrs)	Aug'19 (in hrs)
CFS	84.4	82.4
ICD	129.6	137.5

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

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

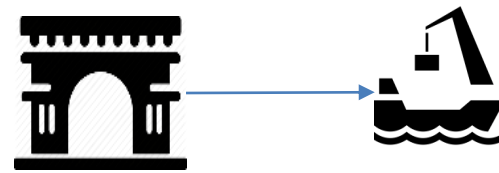## ← Container Lifecycle (Export Cycle)

JNPT Region: Parking Plaza Dwell Time Analysis

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

Parking Plaza Gate In – Gate Out

Parking Plaza Gate Out – Terminal In

NISGT Port Export Dwell Time

Mode	July'19 (in hrs)	Aug'19 (in hrs)
Overall	7.8	6.9

Mode	July'19 (in hrs)	Aug'19 (in hrs)
Overall	1.9	1.88

Mode	July'19 (in hrs)	Aug'19 (in hrs)
Truck Bound	67.9	75.9

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

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IMPORT CYCLE DWELL TIME (Aug'19 – in hrs)		Compared to July'19	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	28.2	30% ↓
	Port Dwell Time for Truck Bound Containers	25.7	32% ↓
	Port Dwell time for Train Bound Containers	48.4	12% ↓
	Port Dwell time Direct Port Delivery (DPD) containers	43.6	4% ↓
	Port Dwell time Containers bound for CFS	25.1	37% ↓
	Port Dwell for Empty Containers	46.4	65% ↓
	Port Dwell for Laden Containers	26.7	27% ↓
TRANSIT TIME	Port to ICD	76.0	6% ↑
	Port to CFS	3.7	12% ↓

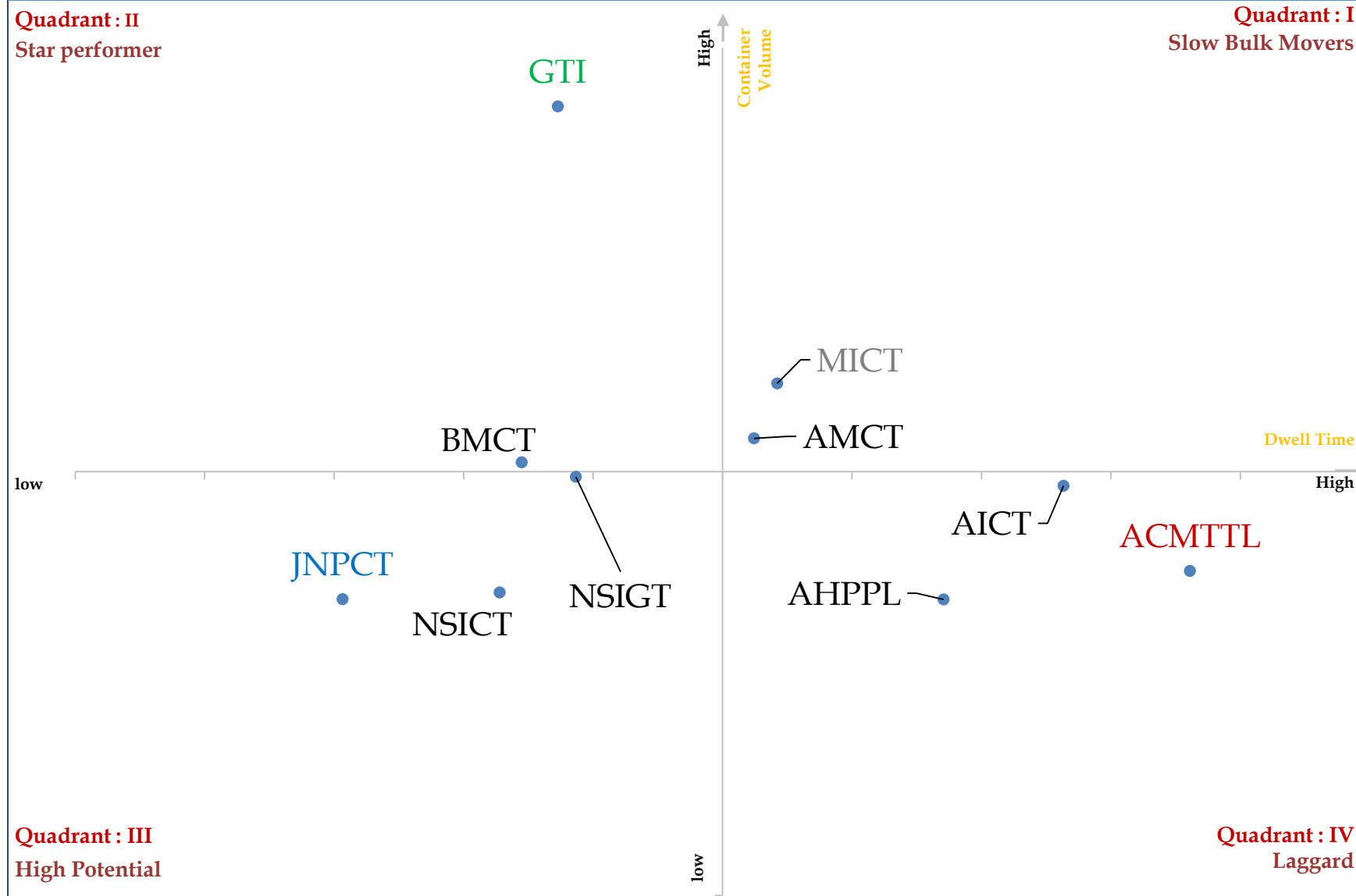↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to July'19

EXPORT CYCLE DWELL TIME (Aug'19– in hrs)		Compared to July'19	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	68.6	6% ↓
	Port Dwell Time for Truck Bound Containers	69.5	6% ↓
	Port Dwell time for Train Bound Containers	56.4	4% ↑
	Port Dwell time Direct Port Entry (DPE) containers	74.7	13% ↓
	Port Dwell time Containers bound from CFS	66.5	11% ↑
	Port Dwell for Empty Containers	66.9	5% ↑
	Port Dwell for Laden Containers	72.2	10% ↓
TRANSIT TIME	ICD to Port	74.9	23% ↓
	CFS to Port	5.0	22% ↑

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

Port Performance Benchmarking & Performance Index - Western Corridor

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Performance Benchmarking - Port Terminals

Port Terminal Performance Index – Aug'19

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High
Container Volume

GTI

MICT

BMCT

AMCT

Dwell Time

low

High

JNPCT

NSIGT

AICT

ACMTTL

NSICT

AHPPL

Quadrant : III
High Potential

low

Quadrant : IV
Laggard

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

Top Performing Terminal		
Gateway Terminals India (GTI)		
July'19	Aug'19	
36.9 hrs	45.4 hrs	⬇

Low Performing Terminal		
Adani CMA Mundra Terminal (ACMTTL)		
July'19	Aug'19	
73.2 hrs	94.4 hrs	⬇

Note: The performance benchmarking is based on performance index

⬆⬇ The arrows depict increase/decrease in overall performance of the stakeholders in comparison to July'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	
JWR CFS	
July'19	Aug'19
126.7 hrs	134.6 hrs ↓

Low Performing CFS	
Maersk Annex (APM)CFS, Navi Mumbai	
July'19	Aug'19
113.4 hrs	109.2 hrs ↑

Top Performing ICD	
Gateway Rail Freight ICD, Gurgaon	
July'19	Aug'19
104.5 hrs	114.0 hrs ↓

Low Performing ICD	
CONCOR Kanakpura ICD, Jaipur	
July'19	Aug'19
151.3 hrs	174.7 hrs ↓

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

Performance Index: Western Corridor CFS

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

Container Volume
High

1
JWR CFS
7
17
3
8
23
Gateway Distriparks CFS, Navi Mumbai
10
Dwell Time
4
High
2
15
12
13
25
Dronagiri Rail Terminal CFS, Navi Mumbai
11
6
22
18
14
9
16
20
21
Maersk Annex (APM)CFS, Navi Mumbai

low
Quadrant : III
High Potential
low

Quadrant : IV
Laggard

Kindly refer to Annexure section for the names of CFS

Performance Index: ICD

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

Container Volume
High

Gateway Rail Freight ICD, Gurgaon

low
Quadrant : III
High Potential

CMA CGM Logistics Park, Dadri
Adani Logistics Park ICD, Gurgaon
Albatross Inland Ports ICD, Dadri
ACTL ICD, Faridabad
Allcargo Logistics Park ICD, Dadri
APM Terminals ICD, Dadri
CONCOR Kanakpura ICD, Jaipur
CONCOR ICD, Dadri

Dwell Time
High

low
Quadrant : IV
Laggard

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
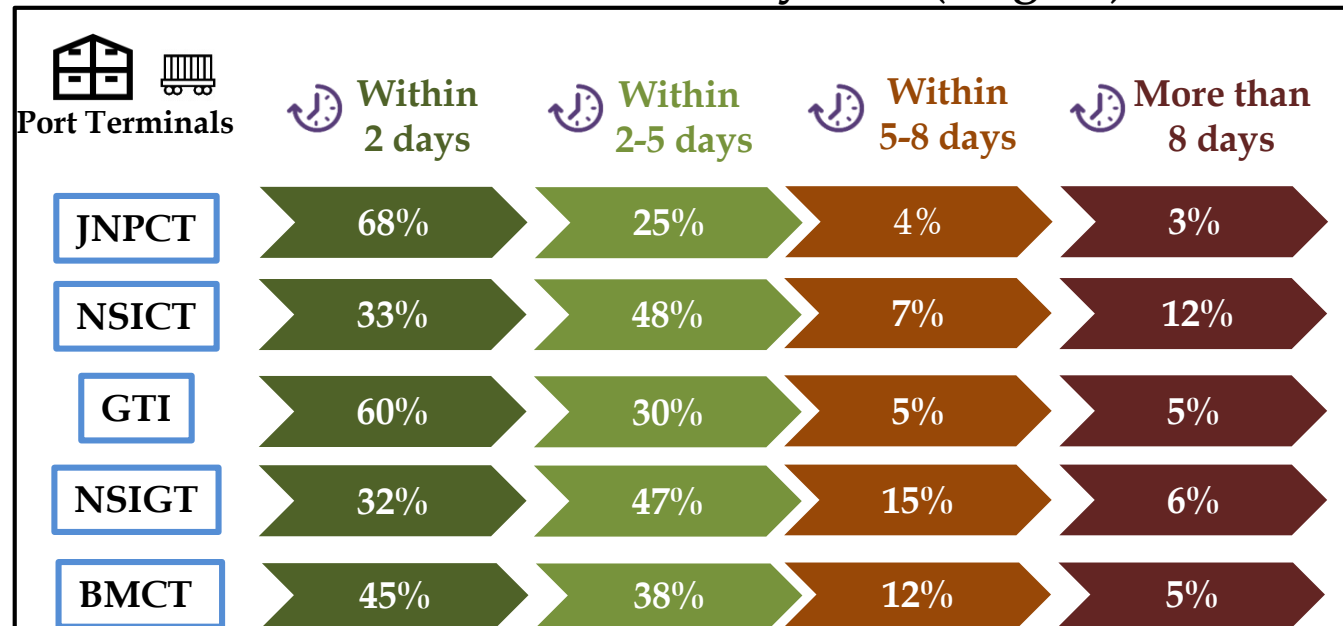
PORT IMPORT via TRAIN
(18% of total import volume at JNPT Port)

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	July'19 (in hrs)	Aug'19 (in hrs)
JNPCT	34.0	32.7
NSICT	61.3	63.7
GTI	30.2	37.3
NSIGT	61.3	68.0
BMCT	52.9	55.6

Container Handled: Day wise (Aug'19)

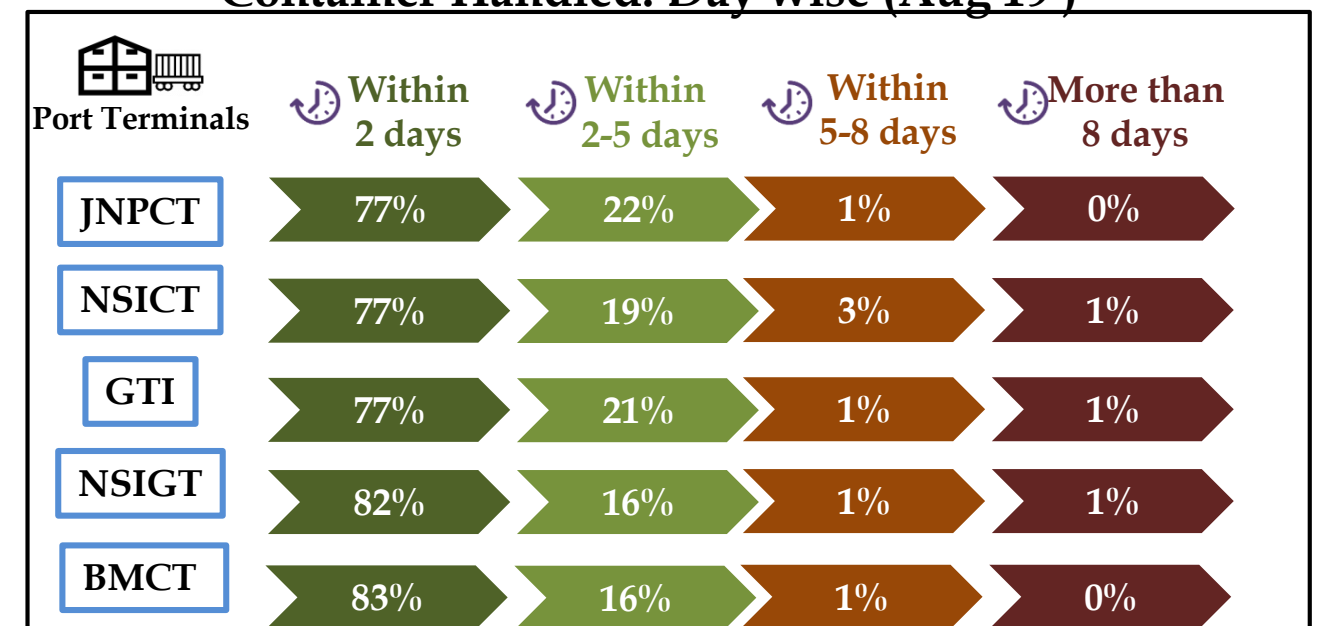| Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	68%	25%	4%	3%
NSICT	33%	48%	7%	12%
GTI	60%	30%	5%	5%
NSIGT	32%	47%	15%	6%
BMCT	45%	38%	12%	5%

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	July'19 (in hrs)	Aug'19 (in hrs)
JNPCT	23.8	28.3
NSICT	20.1	26.3
GTI	17.0	26.0
NSIGT	19.4	22.8
BMCT	19.8	25.4

Container Handled: Day wise (Aug'19)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
JNPCT	77%	22%	1%	0%
NSICT	77%	19%	3%	1%
GTI	77%	21%	1%	1%
NSIGT	82%	16%	1%	1%
BMCT	83%	16%	1%	0%

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	35.0 hrs	29.2 hrs

Port Dwell time based on container type

July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	27.7 hrs	32.3 hrs

GTI

Port Dwell time based on transit type

July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.5 hrs	25.2 hrs

Port Dwell time based on container type

July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	26.3 hrs	48.0 hrs

JNPT Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	92.8 hrs	21.3 hrs

Port Dwell time based on container type

July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	26.9 hrs	50.3 hrs

NSIGT

Port Dwell time based on transit type

July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	49.8 hrs	21.1 hrs

Port Dwell time based on container type

July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	26.1 hrs	59.6 hrs

BMCT

Port Dwell time based on transit type

July'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	39.4 hrs	26.0 hrs

Port Dwell time based on container type

July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	26.8 hrs	52.2 hrs

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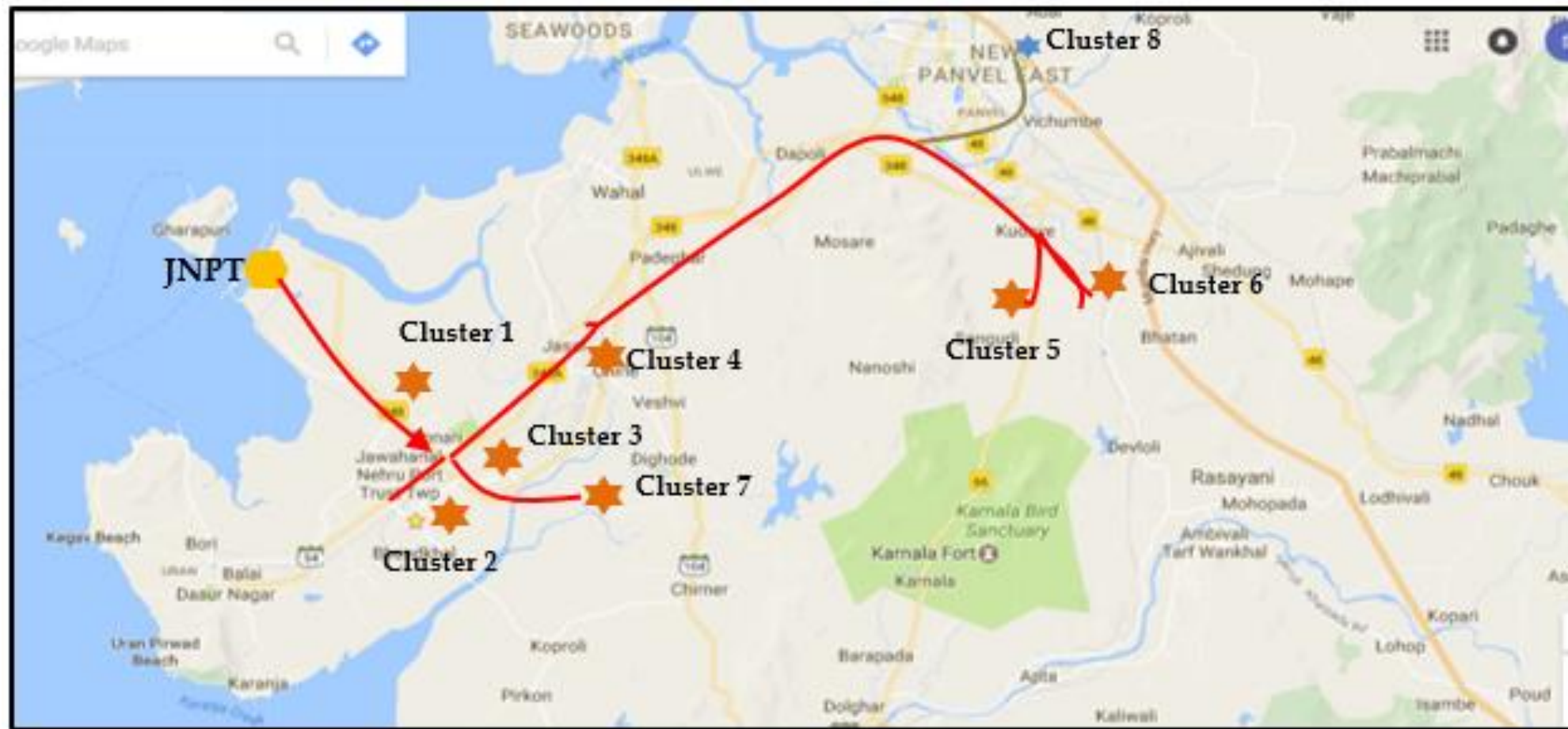
Clusters with bottleneck

CLUSTER 1	JNPT Area
CLUSTER 2	Bhendkhal area, Khopate road
CLUSTER 3	Sonari area,JNPT road
CLUSTER 4	Chirle area , JNPT road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPT road

Clusters without bottleneck

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
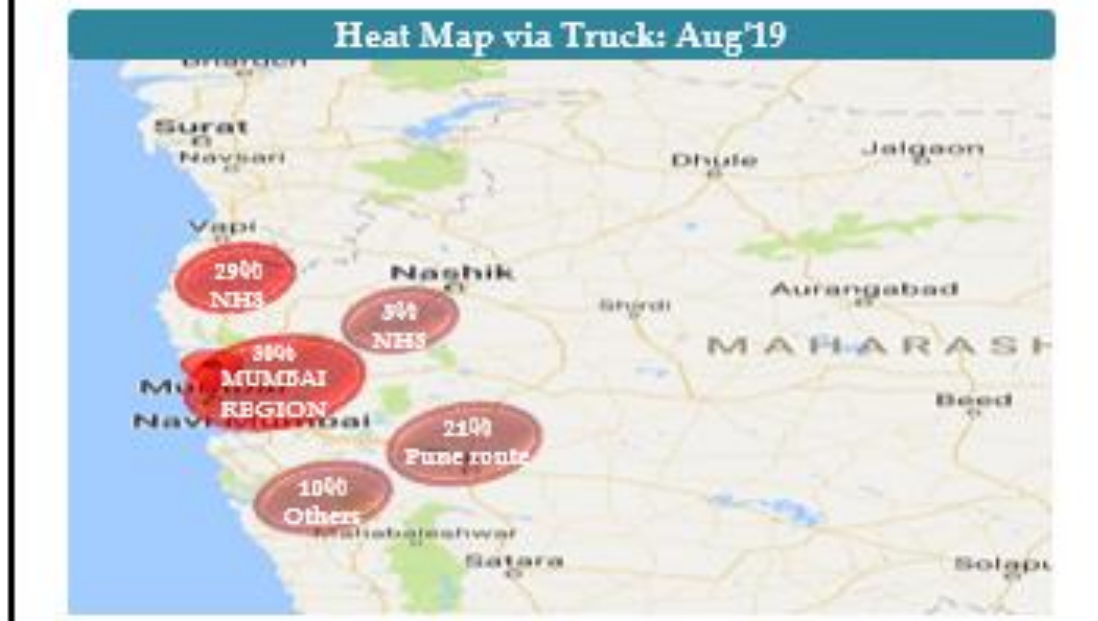2) Analysis consist of CFS covered under LDB project

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

Truck
HEAT MAP : OVERALL MUMBAI REGION

Region	Aug'19
Mumbai region	37%
NH3	3%
Pune	21%
NH8	29%
others	10%

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

Heat Map via Truck: Aug'19

Train
VOLUME WISE CONTAINER MOVEMENT

Region	Aug'19
Vadodra Route	30%
Ratlam Route	24%
Wardha Route	16%
Kota Route	20%
Bhopal Route	10%

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

Container movement via Rail – Aug'19

Western Corridor Toll Plaza Analysis
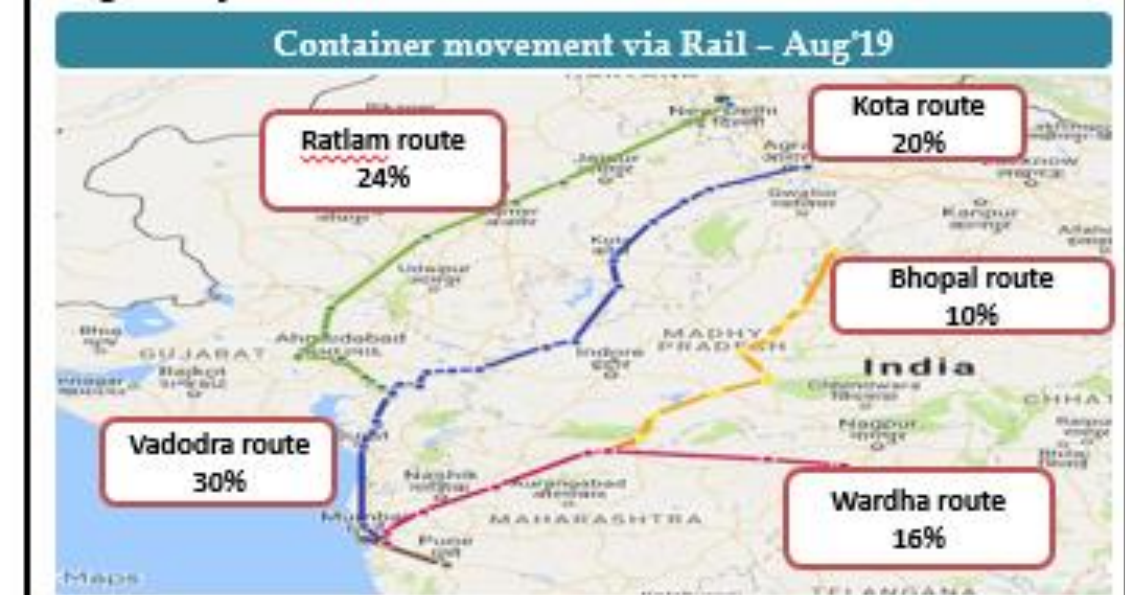
Avg. Speed between Toll Plazas

Source	Destination Toll Plaza	Inter Distance (Km)	July'19 (in km/hrs)	Aug'19 (in km/hrs)
JNPT	Khaniwade	94	14.9	13.1
JNPT	Khalapur	60	10.9	11.2
Khaniwade	Charoti	50	34.4	33.6
Charoti	Boriach	126	26.7	26.3
Boriach	Bharthan	142	33.0	31.3
Bharthan	Vasad	60	40.5	39.7
Khalapur	Khedshivpur	105	25.3	25.3
Daulatpura	Kherki	199	23.7	23.1
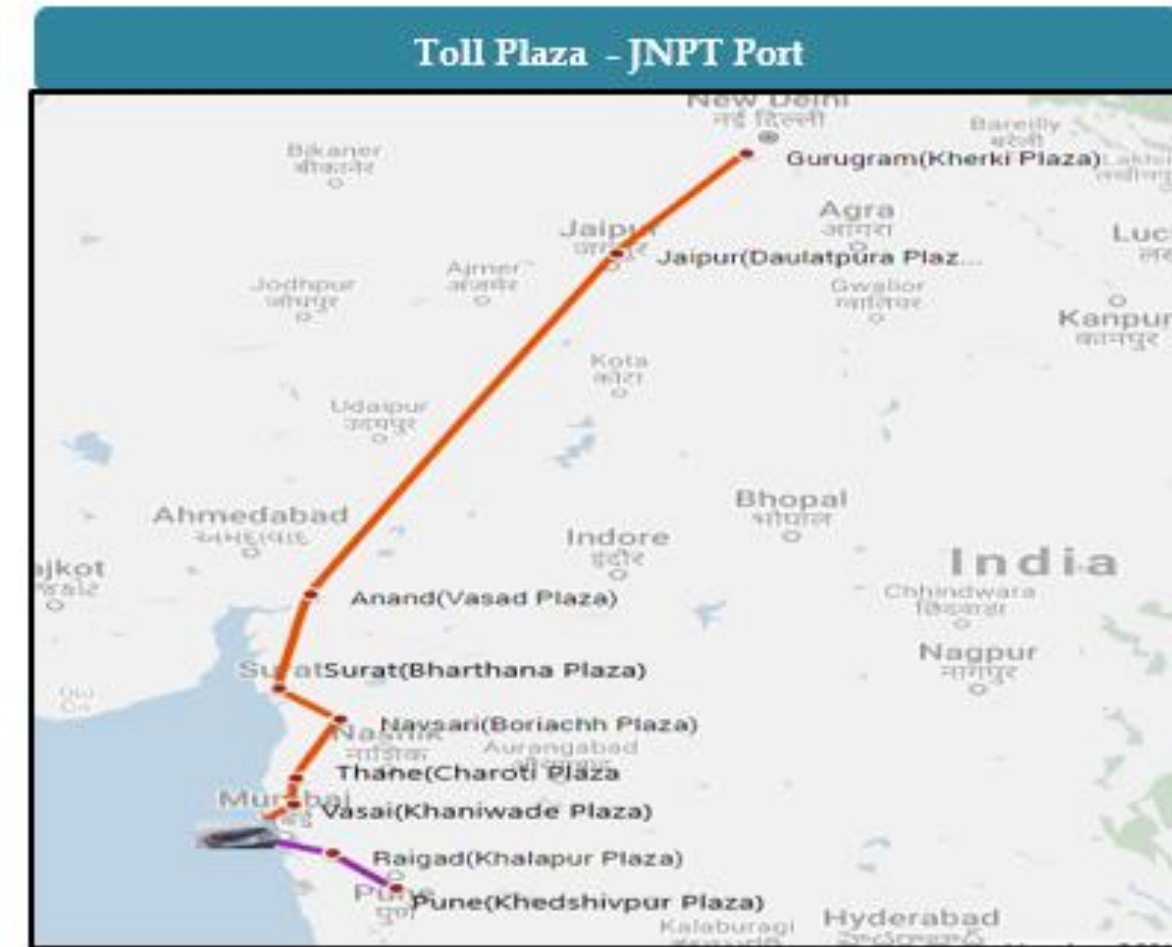
(Source column grouped as: JNPT)

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
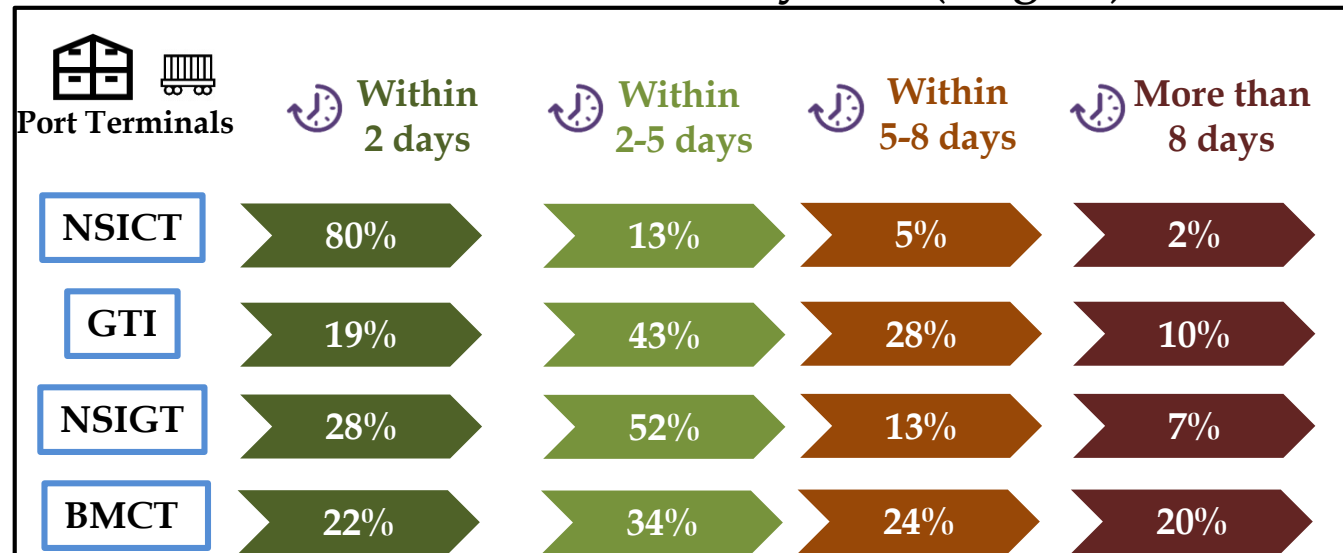
PORT EXPORT via TRAIN
(16% of total import volume at JNPT Port)

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	July'19 (in hrs)	Aug'19 (in hrs)
NSICT	14.6	13.9
GTI	91.2	98.5
NSIGT	72.6	86.8
BMCT	87.1	109.6

Container Handled: Day wise (Aug'19)

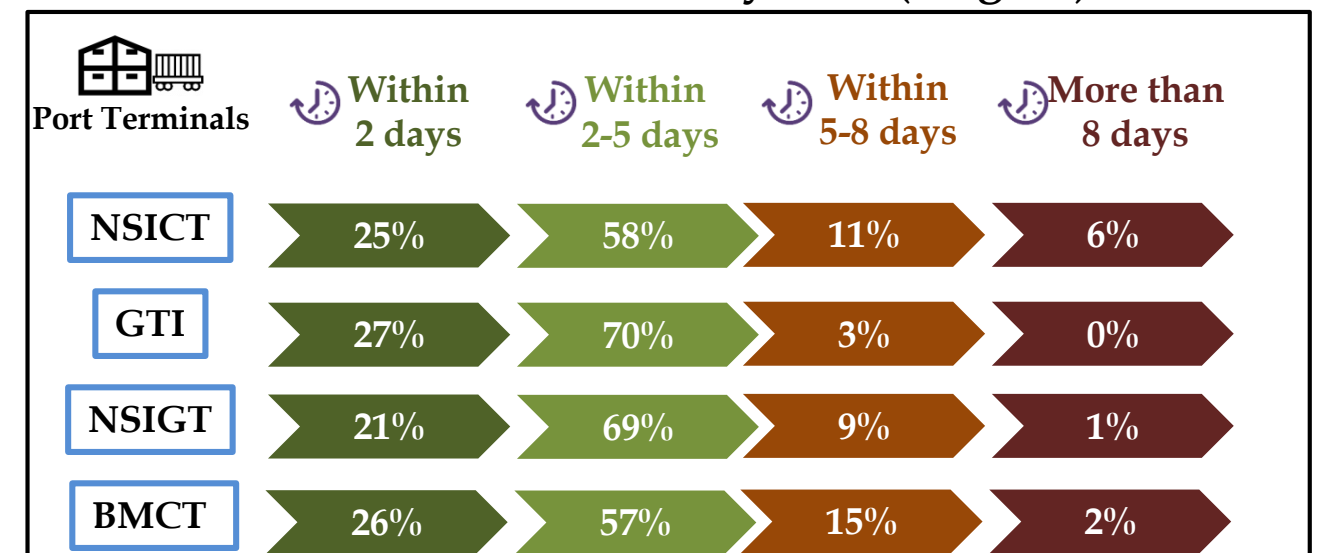| Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
NSICT	80%	13%	5%	2%
GTI	19%	43%	28%	10%
NSIGT	28%	52%	13%	7%
BMCT	22%	34%	24%	20%

PORT EXPORT via TRUCK
(84% 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	July'19 (in hrs)	Aug'19 (in hrs)
NSICT	82.8	76.7
GTI	62.3	64.9
NSIGT	67.9	75.9
BMCT	63.0	72.3

Container Handled: Day wise (Aug'19)

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
NSICT	25%	58%	11%	6%
GTI	27%	70%	3%	0%
NSIGT	21%	69%	9%	1%
BMCT	26%	57%	15%	2%

Disclaimer : Due to low volume count received in Export cycle for JNPCT Terminal, hence the analysis for the terminal is not included

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 Aug'19

GTI

Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	68.3 hrs	61.4 hrs

Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	67.7 hrs	63.7 hrs

NSICT

Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	83.8 hrs	70.3 hrs

Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	71.2 hrs	31.1 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 Aug'19

NSIGT

Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	83.0 hrs	68.5 hrs

Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	74.4 hrs	69.0 hrs

BMCT

Port Dwell time based on transit type		
July'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	-	72.1 hrs

Port Dwell time based on container type		
July'19	Laden Containers	Empty Containers
Dwell time (in hrs)	87.7 hrs	65.7 hrs

JNPT Region: Congestion Analysis (Export Cycle)

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

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

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

GTI Terminal
Congestion Level
Import Cycle :-

JNPCT Terminal
Congestion Level
Import Cycle :-

NSICT Terminal
Congestion Level
Import Cycle :-

NSIGT Terminal
Congestion Level
Import Cycle :-

BMCT Terminal
Congestion Level
Export Cycle :-

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

JNPT Region: Container Movement via Train

JNPT Port	
Route	**Percentage of Container Movement**
Vadodra Route	30%
Ratlam Route	28%
Wardha Route	18%
Kota Route	16%
Bhopal Route	8%

The map shows the volume wise container movement through different railway routes in export cycle for Aug'19
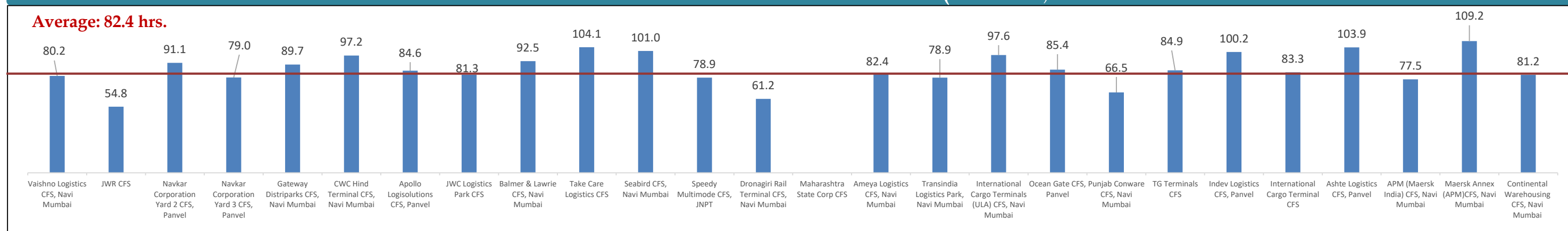
CFS and ICD Performance

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 Aug'19

CFS Dwell Time (in hrs.)

CFS	July'19	Aug'19
International Cargo Terminal CFS	91.6	83.3
JWC Logistics Park CFS	82.4	81.3
CWC Hind Terminal CFS, Navi Mumbai	105.7	97.2
Navkar Corporation Yard 3 CFS, Panvel	93.3	79.0
SBW Logistics CFS, Navi Mumbai	-	-
Seabird CFS, Navi Mumbai	99.7	101.0
Dronagiri Rail Terminal CFS, Navi Mumbai	55.4	61.2
Ashte Logistics CFS, Panvel	100.7	103.9
Balmer & Lawrie CFS, Navi Mumbai	95.9	92.5
Speedy Multimode CFS, JNPT	76.4	78.9
Transindia Logistics Park, Navi Mumbai	82.0	78.9
Gateway Distriparks CFS, Navi Mumbai	85.3	89.7
Continental Warehousing CFS, Navi Mumbai	79.9	81.2
Apollo Logisolutions CFS, Panvel	83.1	84.6
Vaishno Logistics CFS, Navi Mumbai	73.2	80.2

CFS	July'19	Aug'19
Take Care Logistics CFS	122.3	104.1
JWR CFS	53.5	54.8
Navkar Corporation Yard 2 CFS, Panvel	90.2	91.1
Punjab Conware CFS, Navi Mumbai	64.4	66.5
Indev Logistics CFS, Panvel	96.5	100.2
Ameya Logistics CFS, Navi Mumbai	82.4	82.4
TG Terminals CFS	80.4	84.9
APM (Maersk India) CFS, Navi Mumbai	81.2	77.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	96.1	97.6
Maersk Annex (APM)CFS, Navi Mumbai	113.4	109.2
Ocean Gate CFS, Panvel	96.0	85.4
Navkar Corporation Yard 1 CFS, Panvel	-	90.4
Maharashtra State Corp CFS	45.7	-

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

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ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	July'19 (in hrs)	Aug'19 (in hrs)
ACTL ICD, Faridabad	137.2	133.4
Adani Logistics Park ICD, Gurgaon	111.2	109.7
Albatross Inland Ports ICD, Dadri	126.7	128.5
Allcargo Logistics Park ICD, Dadri	144.9	154.0
APM Terminals ICD, Dadri	148.8	157.5
CMA CGM Logistics Park, Dadri	147.8	133.9
Gateway Rail Freight ICD, Gurgaon	104.5	114.0

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

Avg. 137.5 hrs.

ACTL ICD, Faridabad	Adani Logistics Park ICD, Gurgaon	Albatross Inland Ports ICD, Dadri	Allcargo Logistics Park ICD, Dadri	APM Terminals ICD, Dadri	CMA CGM Logistics Park, Dadri	Gateway Rail Freight ICD, Gurgaon
133.4	109.7	128.5	154.0	157.5	133.9	114.0

Trend Analysis
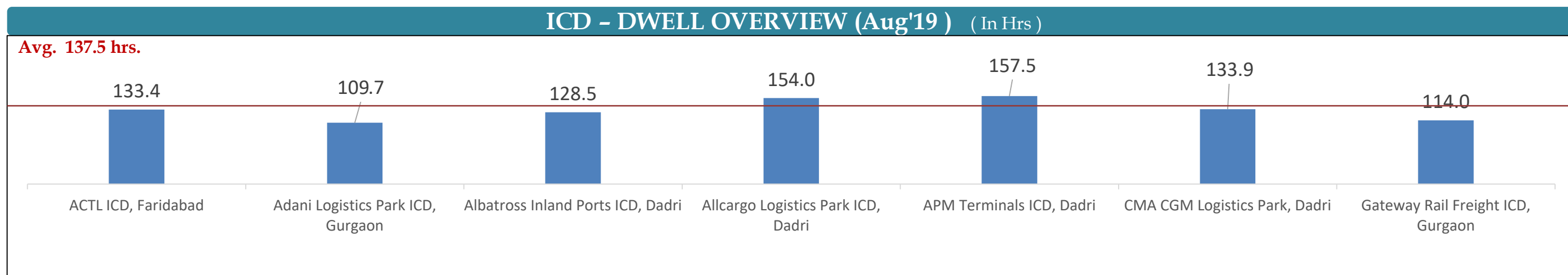
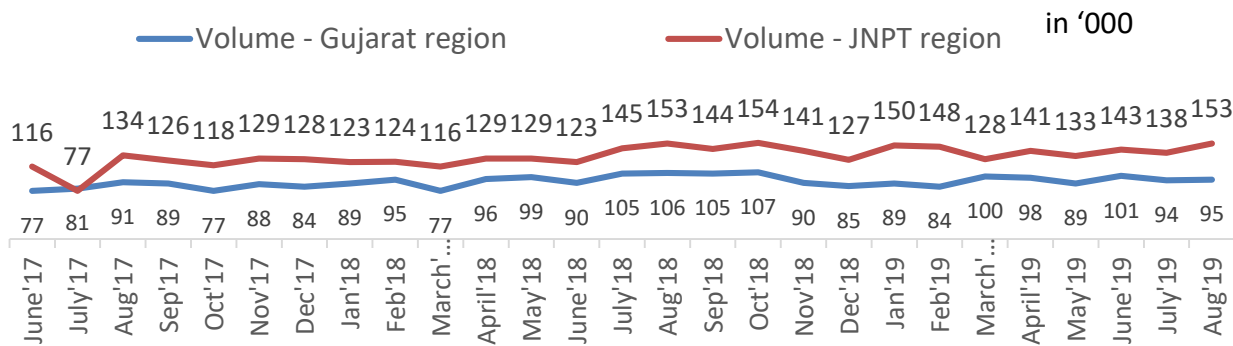# Western Corridor Port – Yearly Analysis

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

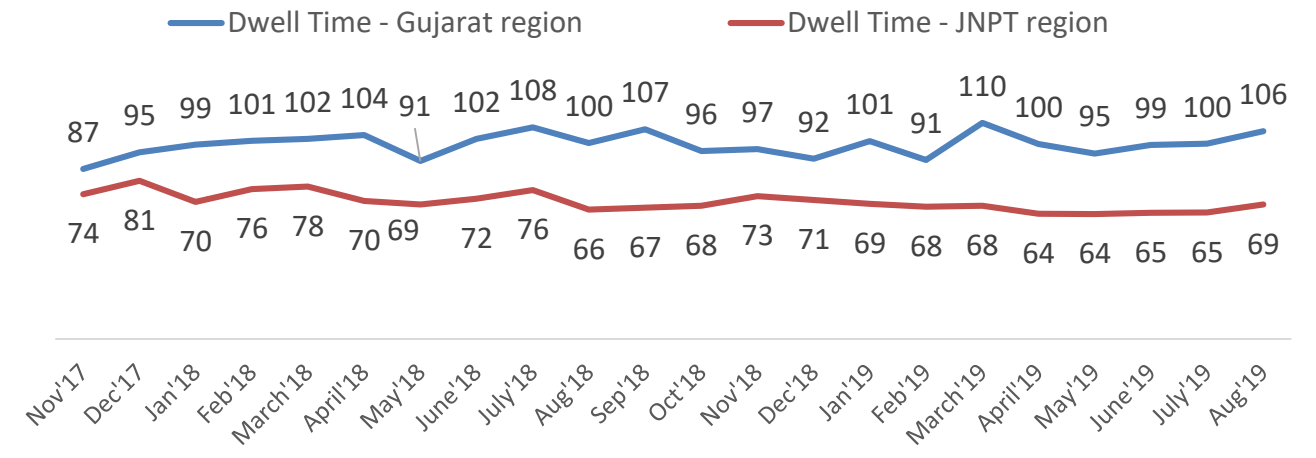## Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region


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

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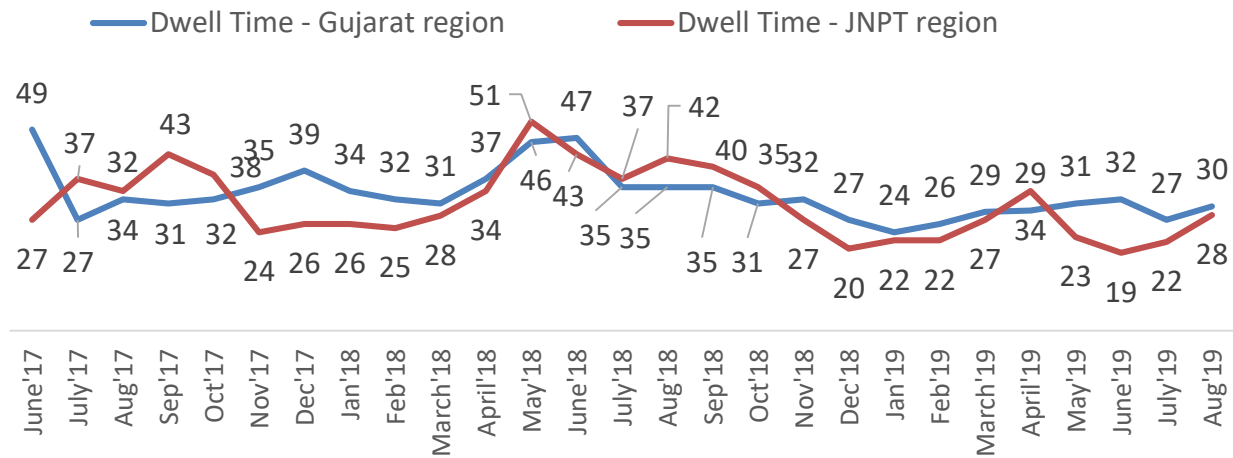
— Volume - Gujarat region   — Volume - JNPT region   in '000

In Import cycle, for the month of Aug'19 JNPT port has catered 61% **more volume** than APSEZ Port, and has maintained 7% **lower dwell time** than APSEZ Port

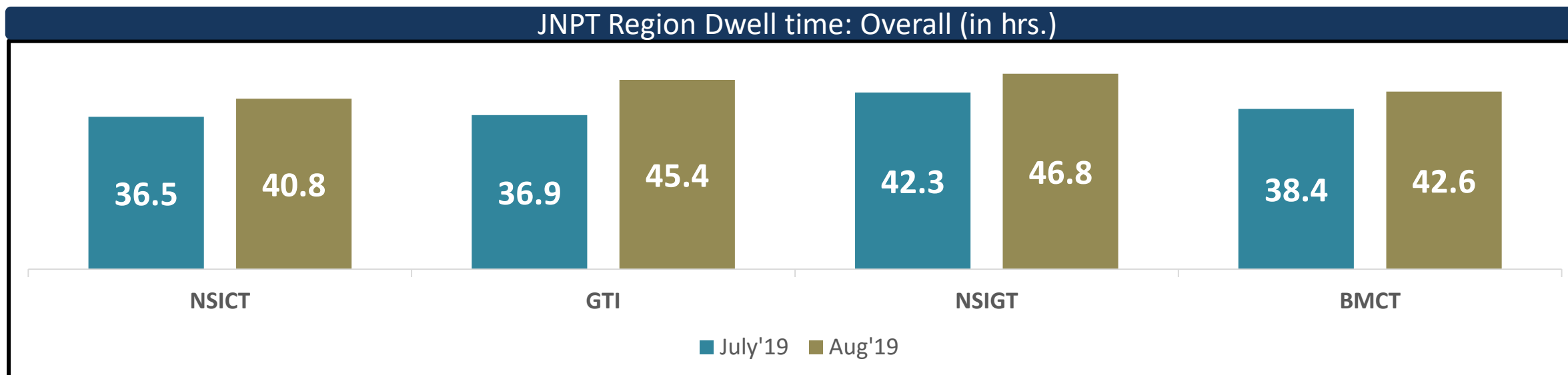## Export Cycle

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
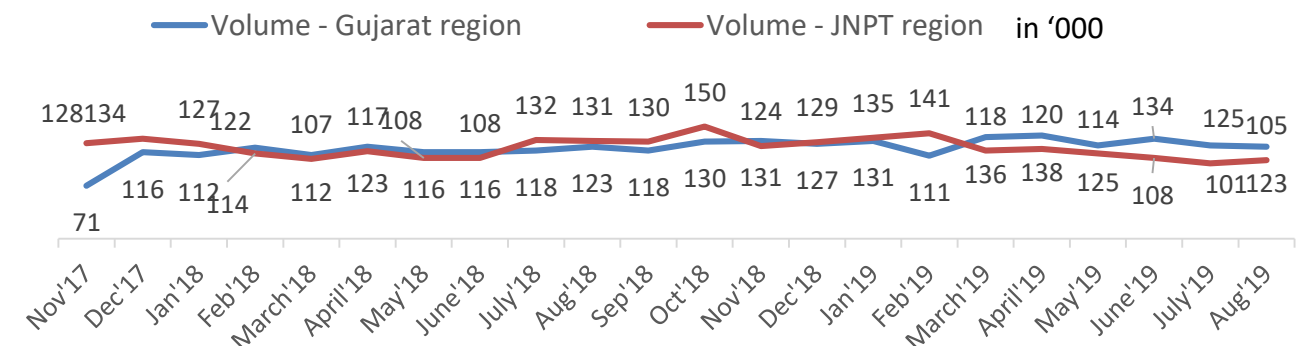
In Export cycle, for the month Aug'19 JNPT port catered 15**% more volume** then JNPT Port, and has maintained 35% **lower dwell time** than APSEZ Port

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
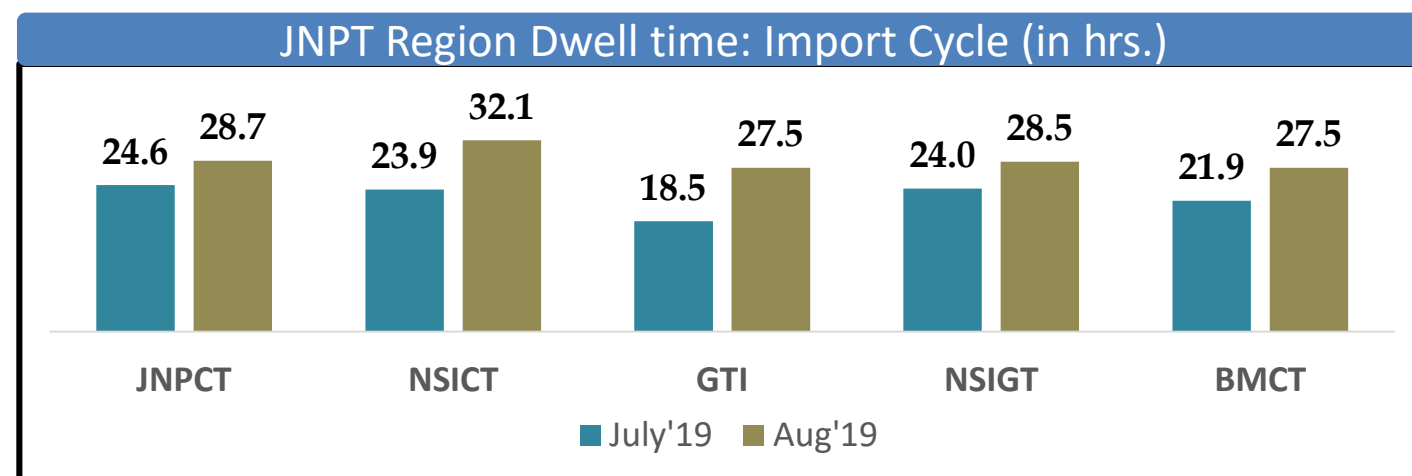
JNPT Region Dwell time: Overall (in hrs.)

	July'19	Aug'19
NSICT	36.5	40.8
GTI	36.9	45.4
NSIGT	42.3	46.8
BMCT	38.4	42.6

The overall JNPT region average dwell time for Aug'19 is **28.2 hrs** as compared to **36.0 hrs** in July'19

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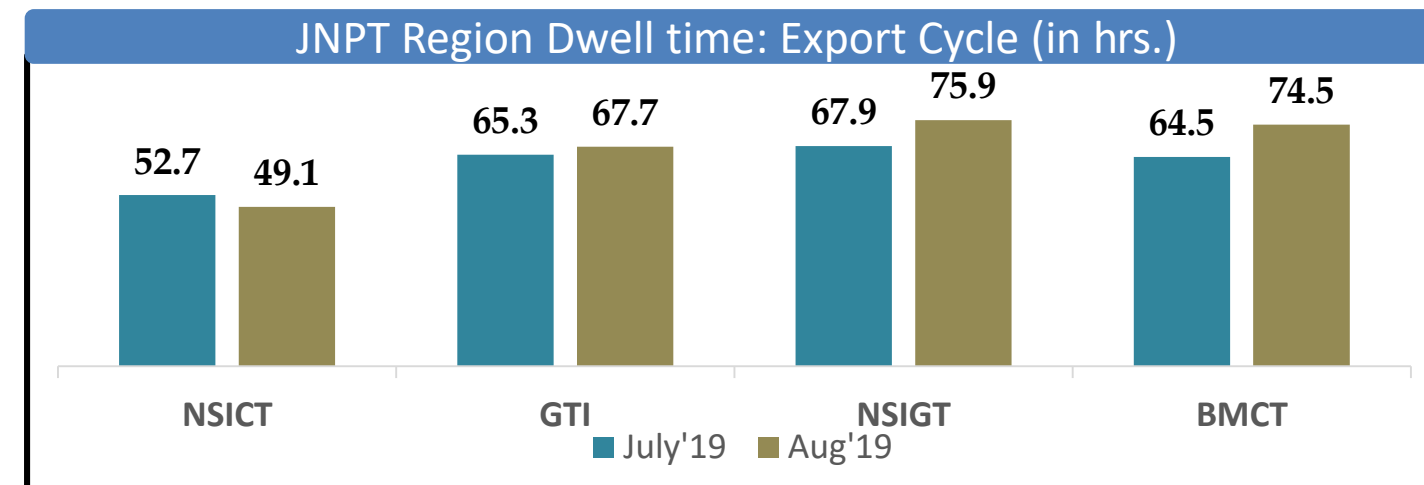
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for Aug'19 is **28.2 hrs.**

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

	July'19	Aug'19
JNPCT	24.6	28.7
NSICT	23.9	32.1
GTI	18.5	27.5
NSIGT	24.0	28.5
BMCT	21.9	27.5

JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for Aug'19 is **68.6 hrs.**

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

	July'19	Aug'19
NSICT	52.7	49.1
GTI	65.3	67.7
NSIGT	67.9	75.9
BMCT	64.5	74.5

ANNEXURE

Container movement around JNPT Port terminal region via Truck

HEAT MAP : GTI Port Terminal
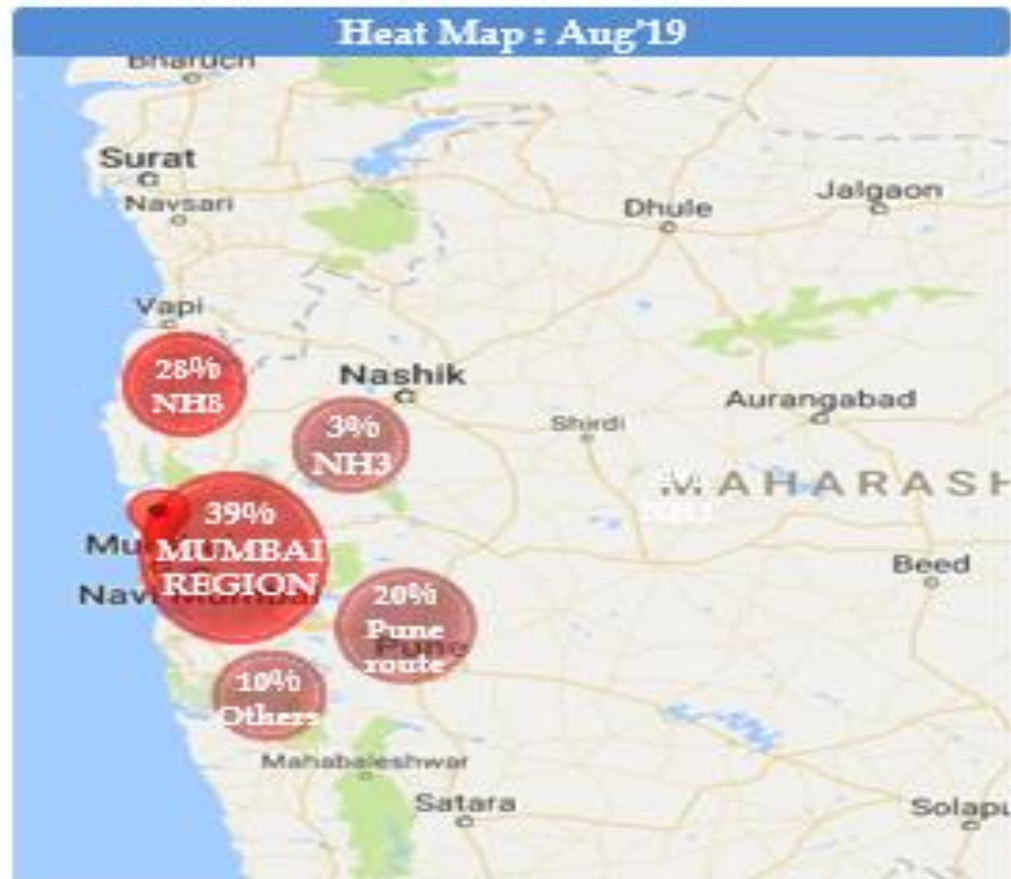
Heat Map : Aug'19

Region	July'19	Aug'19
Mumbai region	36%	39%
NH3	4%	3%
Pune	24%	20%
NH8	27%	28%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.
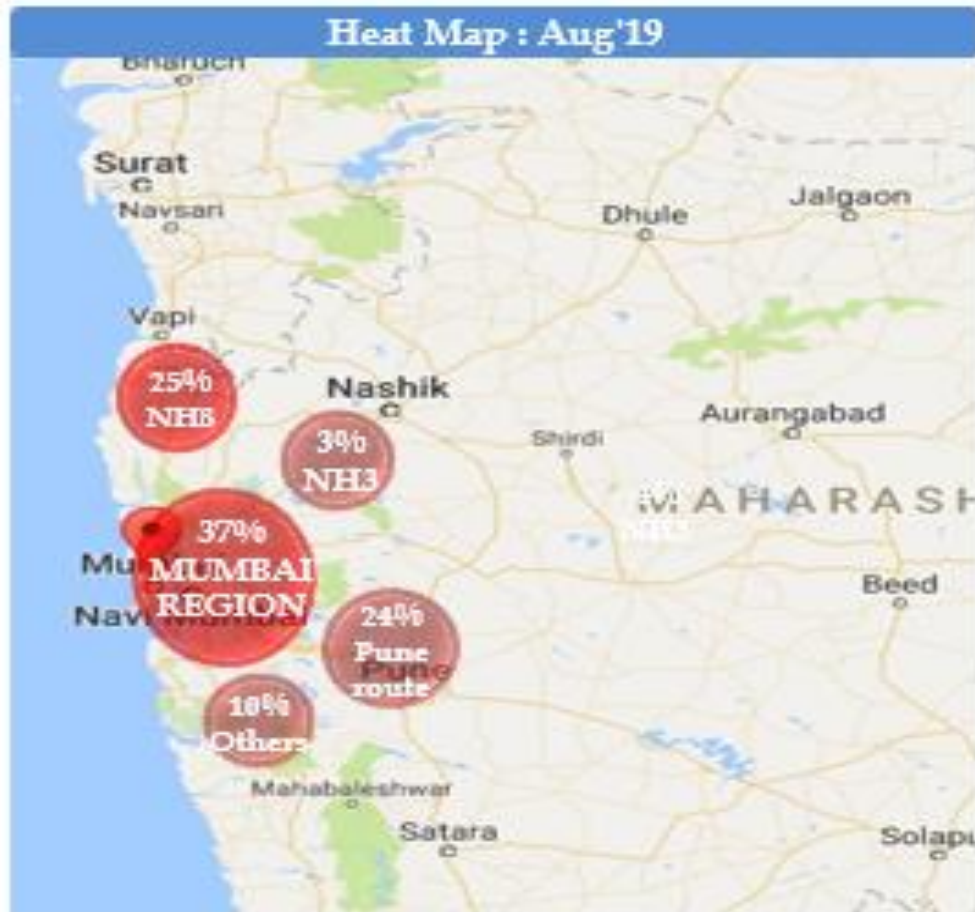
HEAT MAP : JNPCT Port Terminal
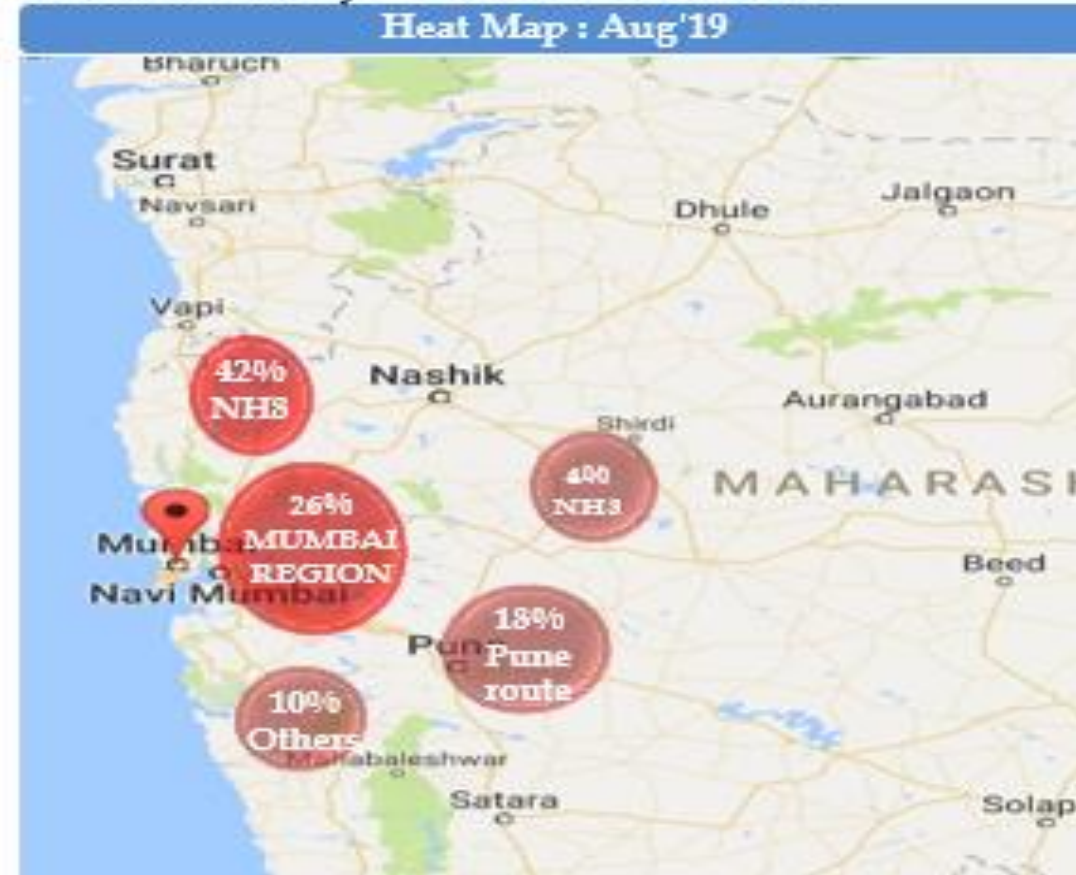
Heat Map : Aug'19

Region	July'19	Aug'19
Mumbai region	11%	26%
NH3	5%	4%
Pune	26%	18%
NH8	48%	42%
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

Heat Map : Aug'19

25% NH8
3% NH3
37% MUMBAI REGION
24% Pune route
10% Others

Region	July'19	Aug'19
Mumbai region	20%	37%
NH3	4%	3%
Pune	34%	24%
NH8	32%	25%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal

Heat Map : Aug'19

28% NH8
3% NH3
40% MUMBAI REGION
19% Pune route
10% Others
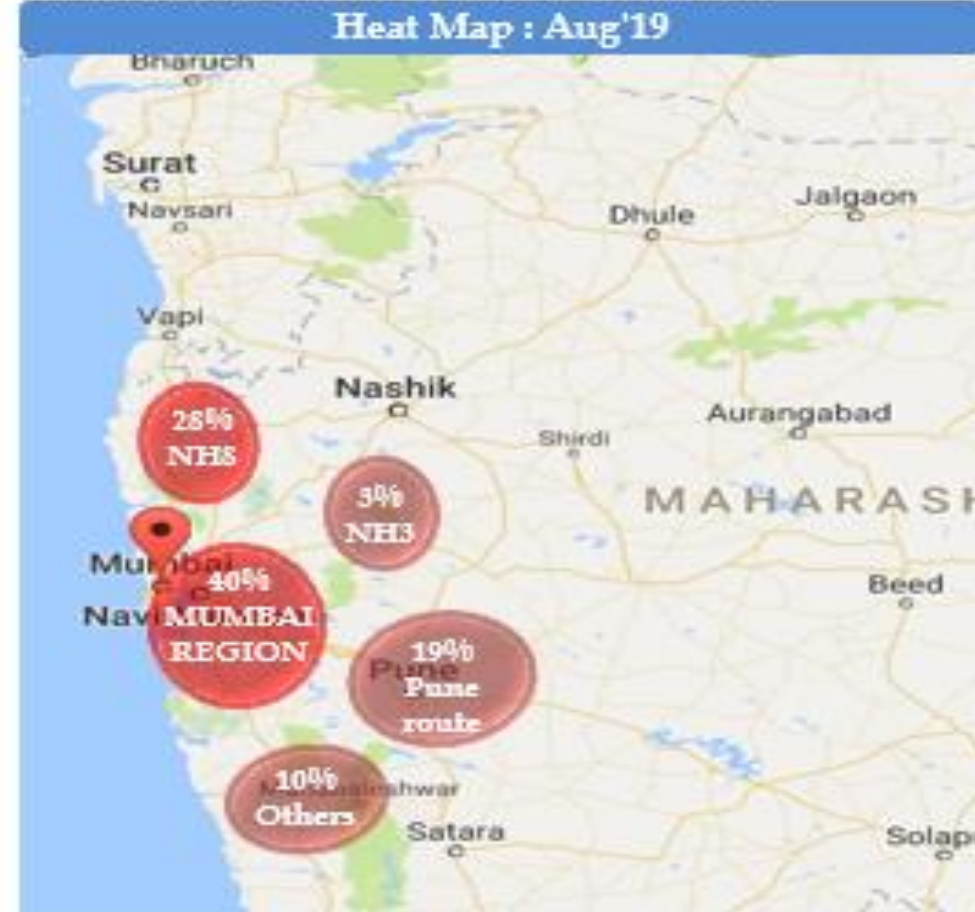
Region	July'19	Aug'19
Mumbai region	28%	40%
NH3	4%	3%
Pune	29%	19%
NH8	29%	28%
others	10%	10%

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 Aug'19					
CFS Out Port in (Export Cycle in Hrs)					
CFS	**JNPCT**	**GTI**	**NSICT**	**NSIGT**	**BMCT**
Speedy Multimode CFS, JNPT	7.5	6.7	2.9	3.6	3.5
Dronagiri Rail Terminal CFS, Navi Mumbai	7.6	6.2	3.4	3.6	3.2
Maharashtra State Corp CFS	6.1	6.2	4.4	3.2	3.4
JWR CFS	-	-	-	-	-
Navkar Corporation Yard 3 CFS, Panvel	7.3	5.9	2.7	4.9	4.2
International Cargo Terminal CFS	3.0	8.8	3.6	3.6	6.1
CWC Hind Terminal CFS, Navi Mumbai	8.7	5.4	3.3	4.1	3.9
Navkar Corporation Yard 2 CFS, Panvel	7.4	6.1	2.3	4.0	6.6
Punjab Conware CFS, Navi Mumbai	6.2	5.6	2.8	3.9	3.6
JWC Logistics Park CFS	5.4	6.3	2.2	3.6	3.6
TG Terminals CFS	-	-	-	-	-
Apollo Logisolutions CFS, Panvel	9.3	8.9	2.8	4.7	3.6
Vaishno Logistics CFS, Navi Mumbai	7.2	6.0	2.7	3.5	3.0
Gateway Distriparks CFS, Navi Mumbai	8.2	6.0	2.5	4.0	3.4
Transindia Logistics Park, Navi Mumbai	11.3	4.3	2.3	4.8	2.9
Ashte Logistics CFS, Panvel	8.3	6.7	1.6	3.4	7.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	10.1	7.7	2.8	3.9	4.1
All Cargo Logistics CFS, Navi Mumbai	-	-	-	-	-
Ocean Gate CFS, Panvel	13.3	6.1	2.7	4.1	4.8
Ameya Logistics CFS, Navi Mumbai	6.7	5.8	2.5	3.5	3.7
APM (Maersk India) CFS, Navi Mumbai	4.4	9.9	3.1	5.7	2.3
Seabird CFS, Navi Mumbai	6.1	5.4	2.0	5.6	3.6
Continental Warehousing CFS, Navi Mumbai	7.3	6.9	2.6	4.6	3.4
Indev Logistics CFS, Panvel	7.4	7.2	3.2	3.3	9.7
SBW Logistics CFS, Navi Mumbai	5.5	7.0	5.5	12.0	-
Balmer & Lawrie CFS, Navi Mumbai	6.2	7.7	4.2	3.2	3.1
CWC Dronagiri CFS, Navi Mumbai	9.1	7.7	8.3	2.2	3.8
Navkar Corporation Yard 1 CFS, Panvel	8.5	-	-	-	-

CFS DELIVERY TIME ANALYSIS

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	Aug'19 (in hrs)
Speedy Multimode CFS, JNPT	2.4
Dronagiri Rail Terminal CFS, Navi Mumbai	3.1
Maharashtra State Corp CFS	5.2
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	5.4
International Cargo Terminal CFS	3.8
CWC Hind Terminal CFS, Navi Mumbai	2.9
Navkar Corporation Yard 2 CFS, Panvel	5.8
Punjab Conware CFS, Navi Mumbai	3.1
JWC Logistics Park CFS	6.3
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	7.9
Vaishno Logistics CFS, Navi Mumbai	3.4
Gateway Distriparks CFS, Navi Mumbai	4.1
Transindia Logistics Park, Navi Mumbai	5.0
Ashte Logistics CFS, Panvel	5.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.6
All Cargo Logistics CFS, Navi Mumbai	3.4
Ocean Gate CFS, Panvel	5.1
Ameya Logistics CFS, Navi Mumbai	3.5
APM (Maersk India) CFS, Navi Mumbai	3.0
Seabird CFS, Navi Mumbai	3.9
Continental Warehousing CFS, Navi Mumbai	2.5
Indev Logistics CFS, Panvel	7.5
SBW Logistics CFS, Navi Mumbai	6.4
Balmer & Lawrie CFS, Navi Mumbai	3.8
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	5.4

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	Aug'19 (in hrs)
Speedy Multimode CFS, JNPT	1.8
Dronagiri Rail Terminal CFS, Navi Mumbai	2.9
Maharashtra State Corp CFS	1.6
JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	4.9
International Cargo Terminal CFS	3.2
CWC Hind Terminal CFS, Navi Mumbai	2.3
Navkar Corporation Yard 2 CFS, Panvel	4.9
Punjab Conware CFS, Navi Mumbai	2.7
JWC Logistics Park CFS	4.6
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	7.3
Vaishno Logistics CFS, Navi Mumbai	3.1
Gateway Distriparks CFS, Navi Mumbai	3.5
Transindia Logistics Park, Navi Mumbai	4.4
Ashte Logistics CFS, Panvel	4.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.8
All Cargo Logistics CFS, Navi Mumbai	2.3
Ocean Gate CFS, Panvel	3.9
Ameya Logistics CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.4
Seabird CFS, Navi Mumbai	3.0
Continental Warehousing CFS, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	6.2
SBW Logistics CFS, Navi Mumbai	5.2
Balmer & Lawrie CFS, Navi Mumbai	2.5
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	5.8

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

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

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

AVERAGE DELIVERY TIME (In Hrs)- NSICT TO ALL CFS IN MUMBAI		AVERAGE DELIVERY TIME (In Hrs)- NSIGT TO ALL CFS IN MUMBAI		AVERAGE DELIVERY TIME (In Hrs)- BMCT TO ALL CFS IN MUMBAI	
CFS	Aug'19 (in hrs)	CFS	Aug'19 (in hrs)	CFS	Aug'19 (in hrs)
Speedy Multimode CFS, JNPT	1.9	Speedy Multimode CFS, JNPT	1.8	Speedy Multimode CFS, JNPT	2.1
Dronagiri Rail Terminal CFS, Navi Mumbai	2.8	Dronagiri Rail Terminal CFS, Navi Mumbai	3.6	Dronagiri Rail Terminal CFS, Navi Mumbai	2.6
Maharashtra State Corp CFS	21.9	Maharashtra State Corp CFS	11.9	Maharashtra State Corp CFS	1.4
JWR CFS	-	JWR CFS	-	JWR CFS	-
Navkar Corporation Yard 3 CFS, Panvel	7.0	Navkar Corporation Yard 3 CFS, Panvel	4.1	Navkar Corporation Yard 3 CFS, Panvel	4.5
International Cargo Terminal CFS	3.3	International Cargo Terminal CFS	3.0	International Cargo Terminal CFS	3.6
CWC Hind Terminal CFS, Navi Mumbai	2.8	CWC Hind Terminal CFS, Navi Mumbai	2.2	CWC Hind Terminal CFS, Navi Mumbai	2.6
Navkar Corporation Yard 2 CFS, Panvel	4.3	Navkar Corporation Yard 2 CFS, Panvel	5.5	Navkar Corporation Yard 2 CFS, Panvel	4.2
Punjab Conware CFS, Navi Mumbai	3.2	Punjab Conware CFS, Navi Mumbai	3.3	Punjab Conware CFS, Navi Mumbai	2.9
JWC Logistics Park CFS	8.6	JWC Logistics Park CFS	6.5	JWC Logistics Park CFS	4.2
TG Terminals CFS	-	TG Terminals CFS	-	TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	7.6	Apollo Logisolutions CFS, Panvel	9.5	Apollo Logisolutions CFS, Panvel	6.5
Vaishno Logistics CFS, Navi Mumbai	3.1	Vaishno Logistics CFS, Navi Mumbai	4.2	Vaishno Logistics CFS, Navi Mumbai	1.9
Gateway Distriparks CFS, Navi Mumbai	3.3	Gateway Distriparks CFS, Navi Mumbai	4.1	Gateway Distriparks CFS, Navi Mumbai	3.9
Transindia Logistics Park, Navi Mumbai	3.8	Transindia Logistics Park, Navi Mumbai	4.1	Transindia Logistics Park, Navi Mumbai	4.1
Ashte Logistics CFS, Panvel	5.4	Ashte Logistics CFS, Panvel	5.8	Ashte Logistics CFS, Panvel	5.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.5	International Cargo Terminals (ULA) CFS, Navi Mumbai	3.2	International Cargo Terminals (ULA) CFS, Navi Mumbai	2.7
All Cargo Logistics CFS, Navi Mumbai	10.6	All Cargo Logistics CFS, Navi Mumbai	2.6	All Cargo Logistics CFS, Navi Mumbai	1.7
Ocean Gate CFS, Panvel	5.0	Ocean Gate CFS, Panvel	5.3	Ocean Gate CFS, Panvel	4.7
Ameya Logistics CFS, Navi Mumbai	3.2	Ameya Logistics CFS, Navi Mumbai	3.2	Ameya Logistics CFS, Navi Mumbai	3.2
APM (Maersk India) CFS, Navi Mumbai	2.5	APM (Maersk India) CFS, Navi Mumbai	2.2	APM (Maersk India) CFS, Navi Mumbai	3.0
Seabird CFS, Navi Mumbai	3.3	Seabird CFS, Navi Mumbai	2.9	Seabird CFS, Navi Mumbai	2.7
Continental Warehousing CFS, Navi Mumbai	1.9	Continental Warehousing CFS, Navi Mumbai	1.9	Continental Warehousing CFS, Navi Mumbai	2.2
Indev Logistics CFS, Panvel	11.5	Indev Logistics CFS, Panvel	8.9	Indev Logistics CFS, Panvel	6.4
SBW Logistics CFS, Navi Mumbai	6.2	SBW Logistics CFS, Navi Mumbai	4.5	SBW Logistics CFS, Navi Mumbai	5.4
Balmer & Lawrie CFS, Navi Mumbai	2.0	Balmer & Lawrie CFS, Navi Mumbai	2.8	Balmer & Lawrie CFS, Navi Mumbai	2.8
CWC Dronagiri CFS, Navi Mumbai	-	CWC Dronagiri CFS, Navi Mumbai	-	CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	6.0	Navkar Corporation Yard 1 CFS, Panvel	4.3	Navkar Corporation Yard 1 CFS, Panvel	4.8

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 Aug'19				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.4	6.7
Cluster 2	6	13	3.7	7.7
Cluster 3	6	11	3.5	6.2
Cluster 4	1	13	3.4	3.0
Cluster 5	2	25	5.7	6.2
Cluster 6	6	25	5.7	6.4
Cluster 7	4	12	3.5	5.0
Cluster 8	1	34	6.4	7.0

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Aug'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	7.5
Cluster 2	6	13	2.6	7.2
Cluster 3	6	11	2.8	6.2
Cluster 4	1	13	3.1	3.6
Cluster 5	2	25	4.3	9.3
Cluster 6	6	25	5.4	7.8
Cluster 7	4	12	2.7	7.0
Cluster 8	1	34	5.2	5.5

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 GTI and JNPCT terminal

CFS Cluster : NSICT Terminal

	GTI terminal for month of Aug'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	2.7	3.2
Cluster 3	6	11	3.3	3.4
Cluster 4	1	13	3.1	1.3
Cluster 5	2	25	6.8	2.5
Cluster 6	6	25	6.5	2.5
Cluster 7	4	12	3.5	2.4
Cluster 8	1	34	6.2	5.5

CFS Cluster : NSIGT Terminal

	JNPCT terminal for month of Aug'19			
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.8	3.6
Cluster 2	6	13	2.9	4.0
Cluster 3	6	11	3.5	3.6
Cluster 4	1	13	4.2	1.8
Cluster 5	2	25	5.9	3.9
Cluster 6	6	25	5.6	3.7
Cluster 7	4	12	2.9	4.0
Cluster 8	1	34	4.5	12.0

CFS Cluster : BMCT Terminal

	JNPCT terminal for month of Aug'19			
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	2.1	3.5
Cluster 2	6	13	2.9	3.7
Cluster 3	6	11	2.7	3.6
Cluster 4	1	13	3.2	1.5
Cluster 5	2	25	4.5	4.2
Cluster 6	6	25	4.9	5.4
Cluster 7	4	12	2.7	3.1
Cluster 8	1	34	5.4	0.0

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

LDB Operations Snapshot

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

Map labels:
- 14 (ICD)
- 106 (CFS)
- 🛣 25 (Toll Plaza)
- MUNDRA
- KANDALA
- HAZIRA
- JNPT
- MURMUGAO
- NEW MANGALORE
- KOCHI
- TUTICORN
- CHENNAI
- ENNORE
- KATTUPALLI
- KRISHNAPATNAM
- VIZAG
- PARADIP
- HALDIA
- KOLKATA
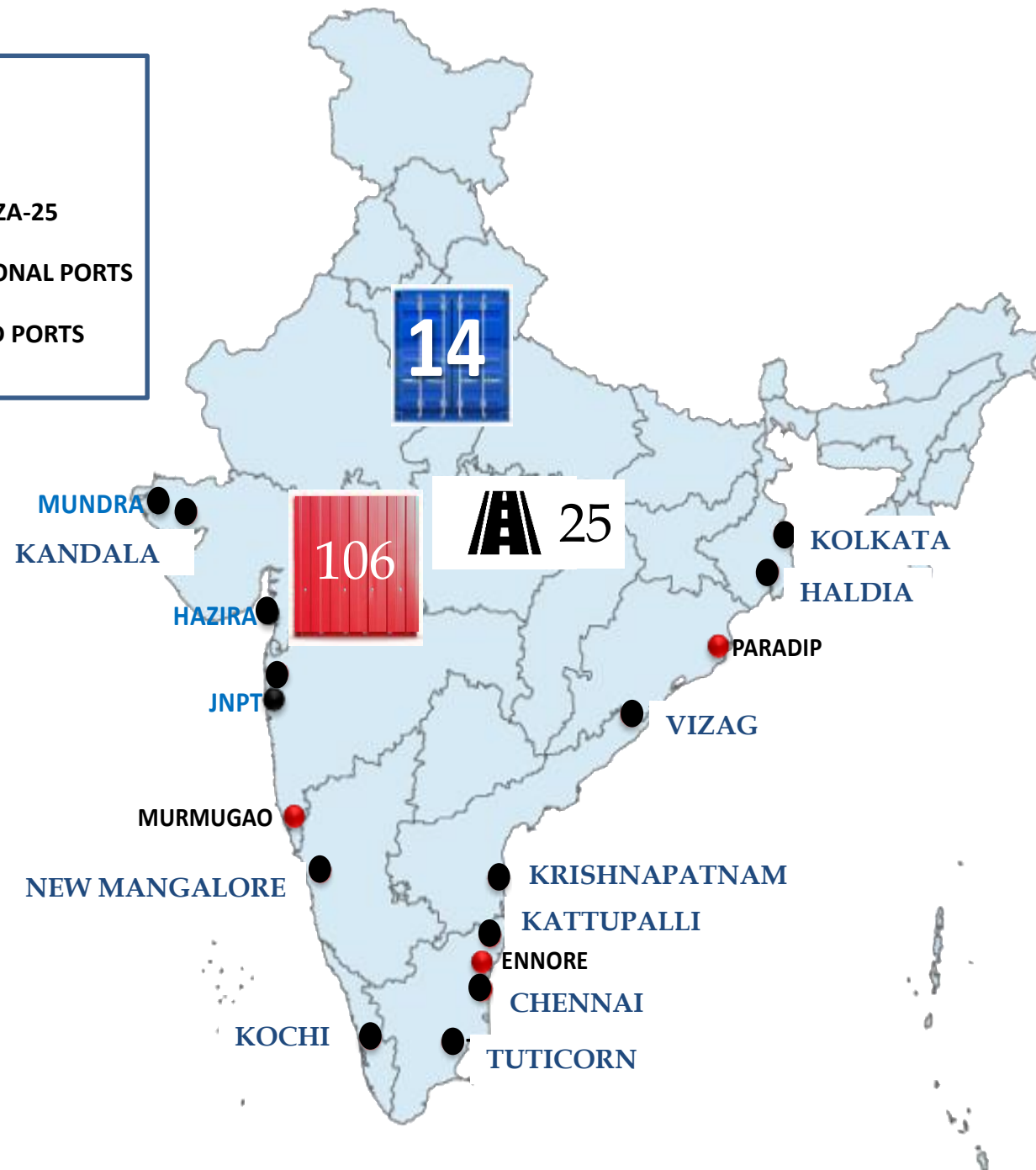
Below mentioned are all the CFS in the respective Clusters :

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

List of CFS name used in CFS Performance Index

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

THANK YOU