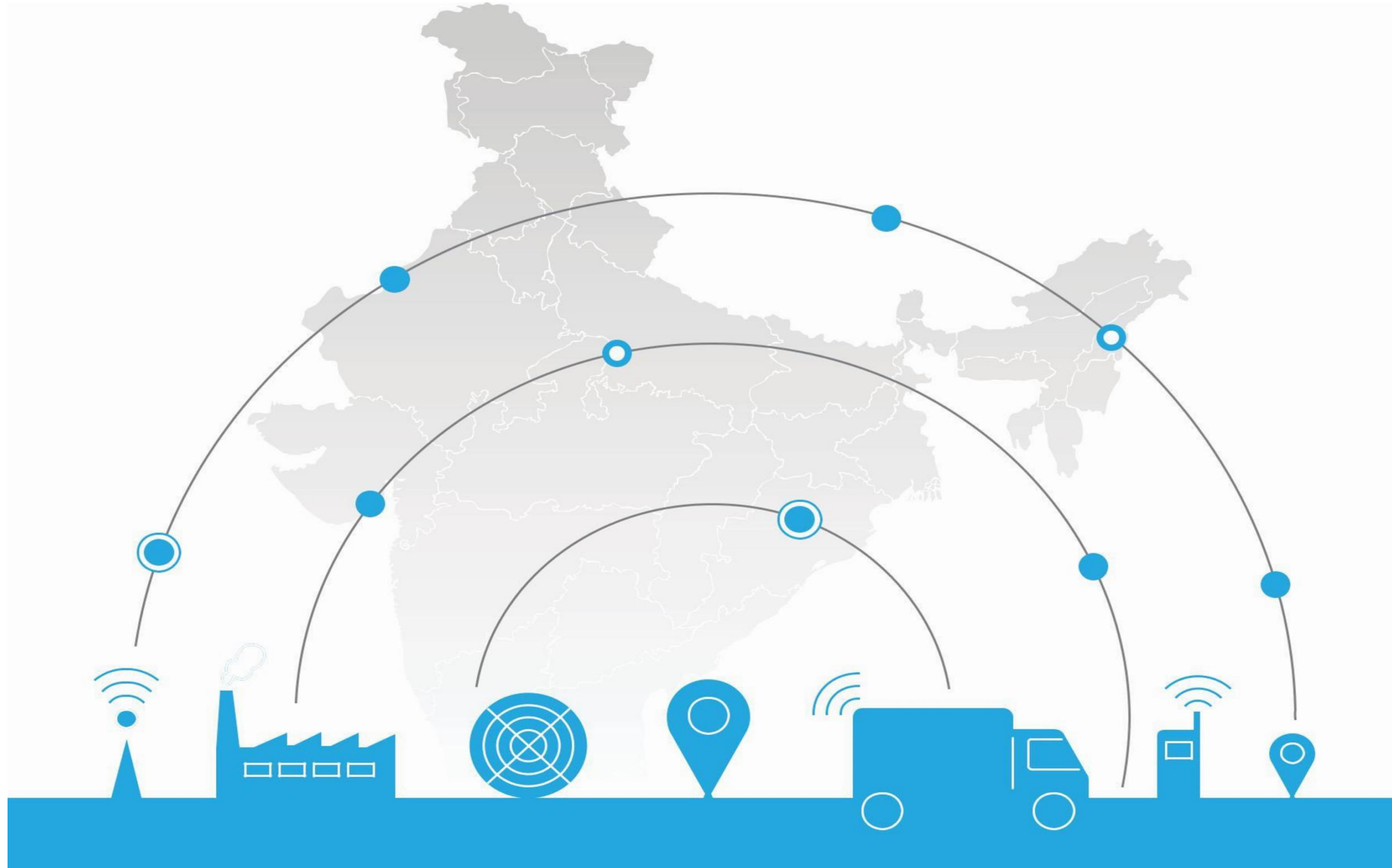


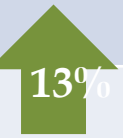


Logistics Databank Analytics Report- JNPT





Western Corridor (JNPT & Gujarat)

- Import and Export Dwell time performance at Western corridor has improved by 21% & 2% respectively
- ICD Dwell Time performance has improved by 13%

Component	Western Corridor - Import Port Performance	Western Corridor - Export Port Performance	ICD Dwell Time Performance
May 2019	25.5 hrs 	77.0 hrs 	120.4 hrs 
April 2019	32.2 hrs	78.3 hrs	138.2 hrs

Jawaharlal Nehru Port Terminals

- Import Dwell time performance at JNPT Port has improved by 33% due to improvement in handling Truck bound containers by 34%

Component	JNPT - Import Overall Port Performance	JNPT - Import Truck bound Performance
May 2019	22.8 hrs 	20.8 hrs 
April 2019	33.9 hrs	31.7 hrs

Port Dwell Time

IMPORT

Mode	April'19 (in hrs)	May'19 (in hrs)
Overall	32.2	25.5
Truck	29.3	23.1
Train	61.9	58.6

EXPORT

Mode	April'19 (in hrs)	May'19 (in hrs)
Overall	78.3	77.0
Truck	76.2	75.5
Train	90.7	87.0

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





Inland
Container
Depot (ICD)



Container
Freight
Stations (CFS)

Entity	April'19 (in hrs)	May'19 (in hrs)
CFS	89.4	89.6
ICD	138.2	120.4

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

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

Container Lifecycle (Import Cycle)

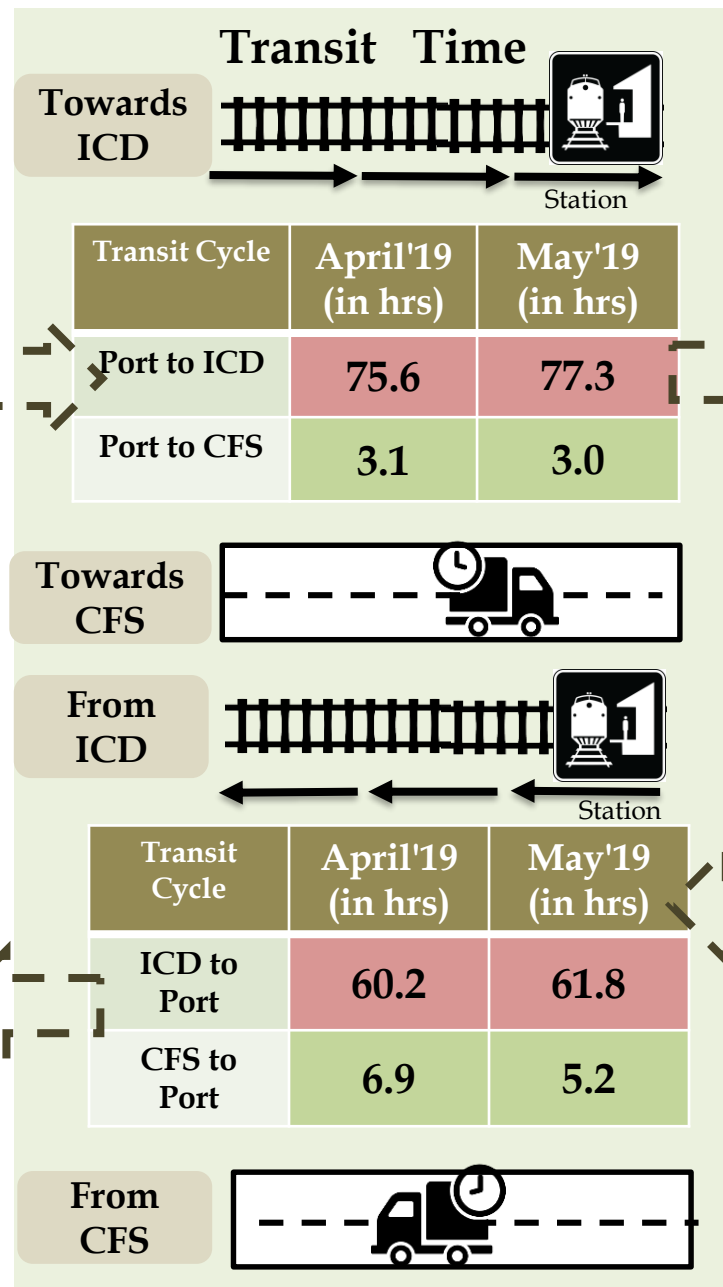
IMPORT

Port Dwell Time

Mode	April'19 (in hrs)	May'19 (in hrs)
Overall	33.9	22.8
Truck	31.7	20.8
Train	50.9	43.0

EXPORT

Mode	April'19 (in hrs)	May'19 (in hrs)
Overall	64.0	63.8
Truck	63.6	63.3
Train	69.5	68.7



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

Entity	April'19 (in hrs)	May'19 (in hrs)
CFS	87.7	89.9
ICD	138.2	120.4

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

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

Container Lifecycle (Export Cycle)

Container Transportation- JNPT Port Terminals

IMPORT CYCLE DWELL TIME (May'19 - in hrs)			Compared to April'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	22.8	33% ↑
	Port Dwell Time for Truck Bound Containers	20.8	34% ↑
	Port Dwell time for Train Bound Containers	43.0	16% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	54.7	20% ↑
	Port Dwell time Containers bound for CFS	18.4	37% ↑
	Port Dwell for Empty Containers	38.6	42% ↑
	Port Dwell for Laden Containers	23.4	23% ↑
TRANSIT TIME	Port to ICD	77.3	2% ↓
	Port to CFS	3.0	4% ↑

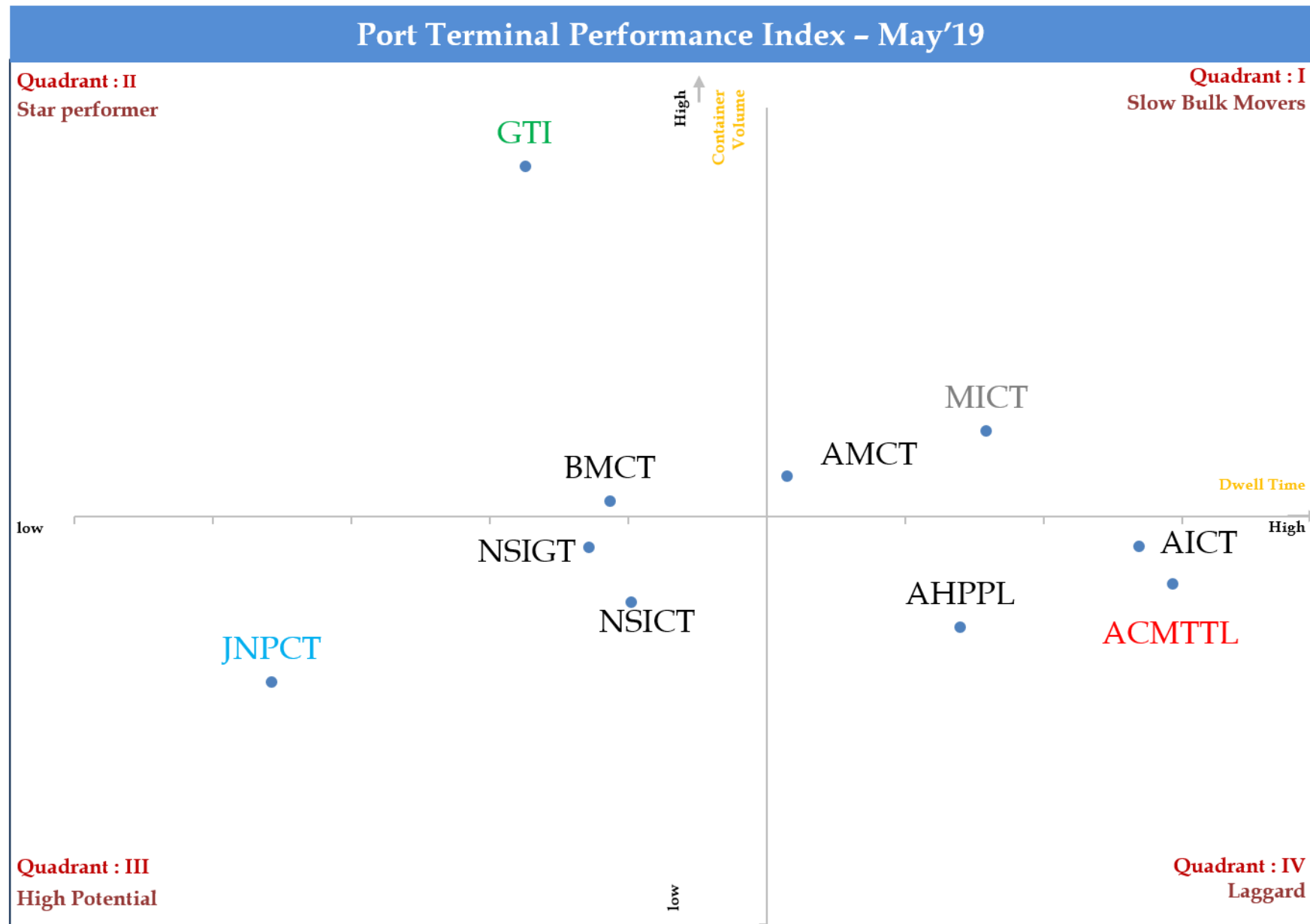
↑↓
The arrows depict increase/decrease in performance of the stakeholders in comparison to Apr'18

EXPORT CYCLE DWELL TIME (May'19- in hrs)			Compared to April'19
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	63.8	0.3% ↑
	Port Dwell Time for Truck Bound Containers	63.3	0.4% ↑
	Port Dwell time for Train Bound Containers	68.7	1.2% ↑
	Port Dwell time Direct Port Entry (DPE) containers	62.3	4% ↓
	Port Dwell time Containers bound from CFS	60.5	6% ↑
	Port Dwell for Empty Containers	59.5	1% ↓
	Port Dwell for Laden Containers	64.4	1% ↑
TRANSIT TIME	ICD to Port	61.8	3% ↓
	CFS to Port	5.2	24% ↑

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



Performance Benchmarking - Port Terminals



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

Top Performing Terminal

Gateway Terminals India (GTI)

April'19

47.1 hrs

May'19

38.9 hrs



Low Performing Terminal

Adani CMA Mundra Terminal (ACMTTL)

April'19

81.2 hrs

May'19

75.5 hrs



Note: The performance benchmarking is based on performance index



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



Performance Benchmarking



Top Performing CFS

JWR CFS	
April'19	May'19
56.0 hrs	56.5 hrs ↓

Low Performing CFS

Take Care Logistics CFS	
April'19	May'19
120.4 hrs	121.1 hrs ↓

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

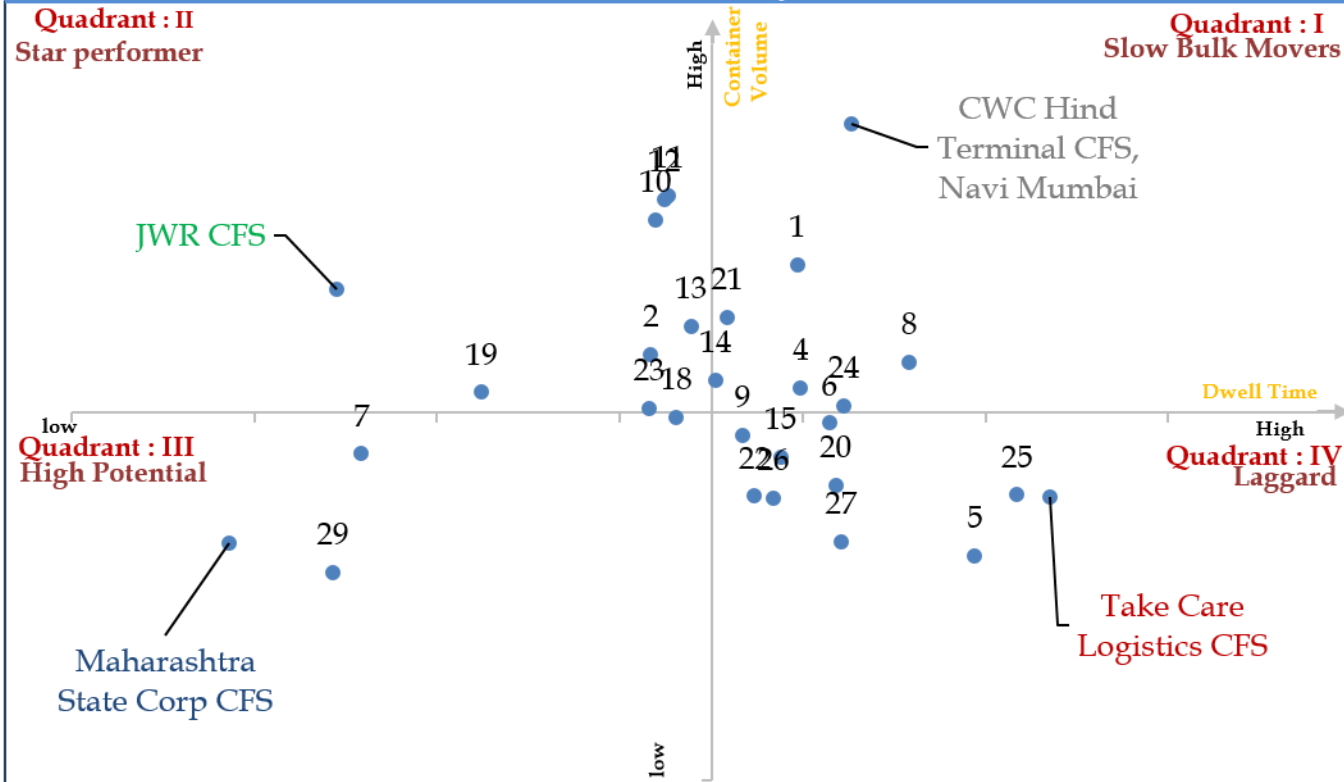
Top Performing ICD

Gateway Rail Freight ICD, Gurgaon	
April'19	May'19
107.0 hrs	90.3 ↑

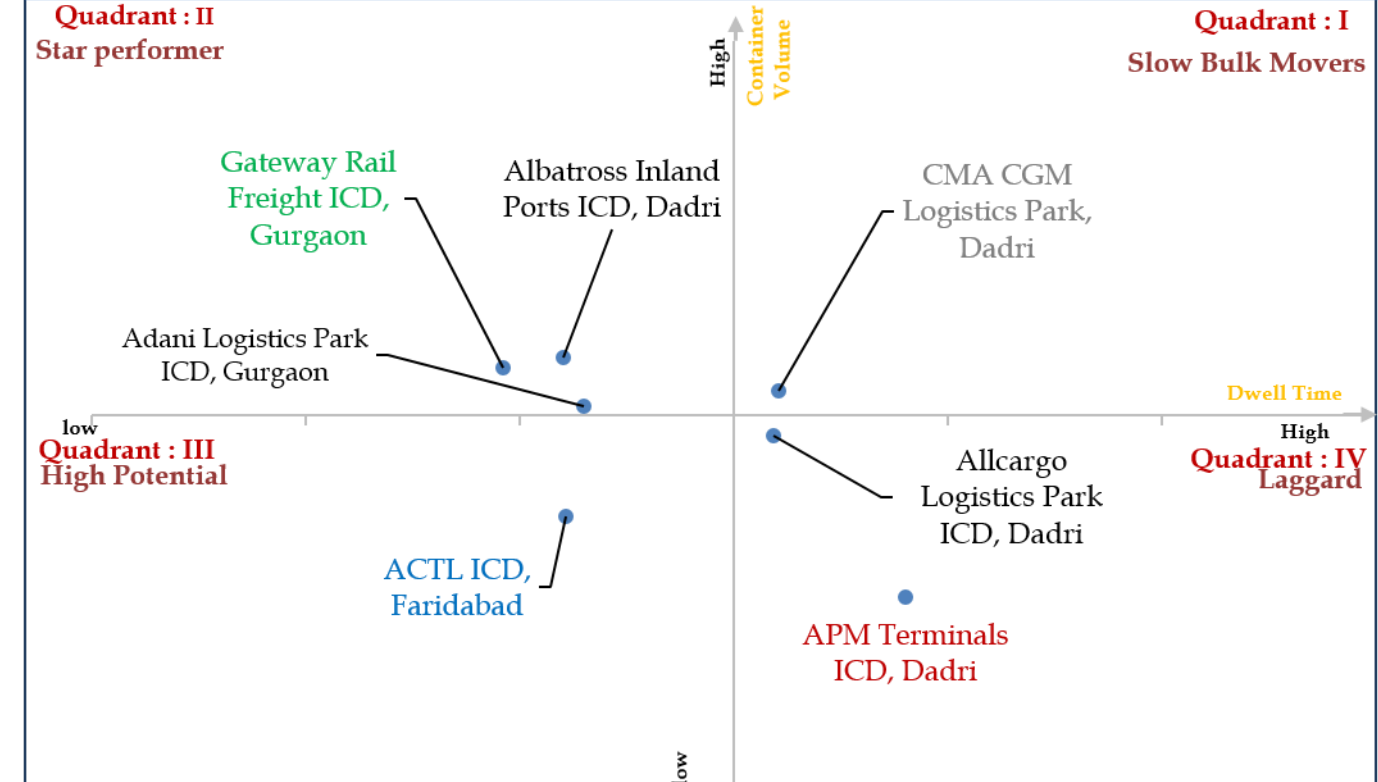
Low Performing ICD

APM Terminals ICD, Dadri	
April'19	May'19
208.0 hrs	156.7 hrs ↑

Performance Index: JNPT CFS



Performance Index: JNPT 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

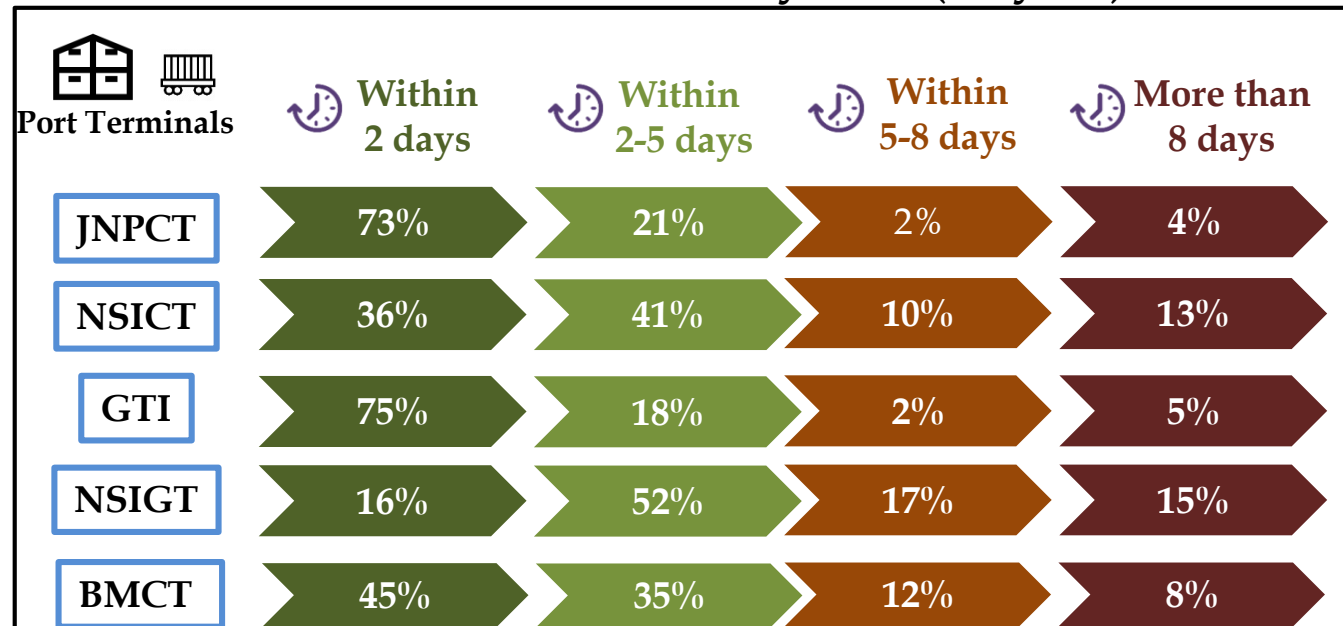
PORT IMPORT via TRAIN

(17 % of total import volume at JNPT Port)

The Port Dwell time data for train bound container movement in import cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	Apr'19 (in hrs)	May'19 (in hrs)
JNPCT	61.4	29.6
NSICT	54.5	61.5
GTI	35.7	26.5
NSIGT	54.5	94.8
BMCT	63.0	22.8

Container Handled: Day wise (may'19)



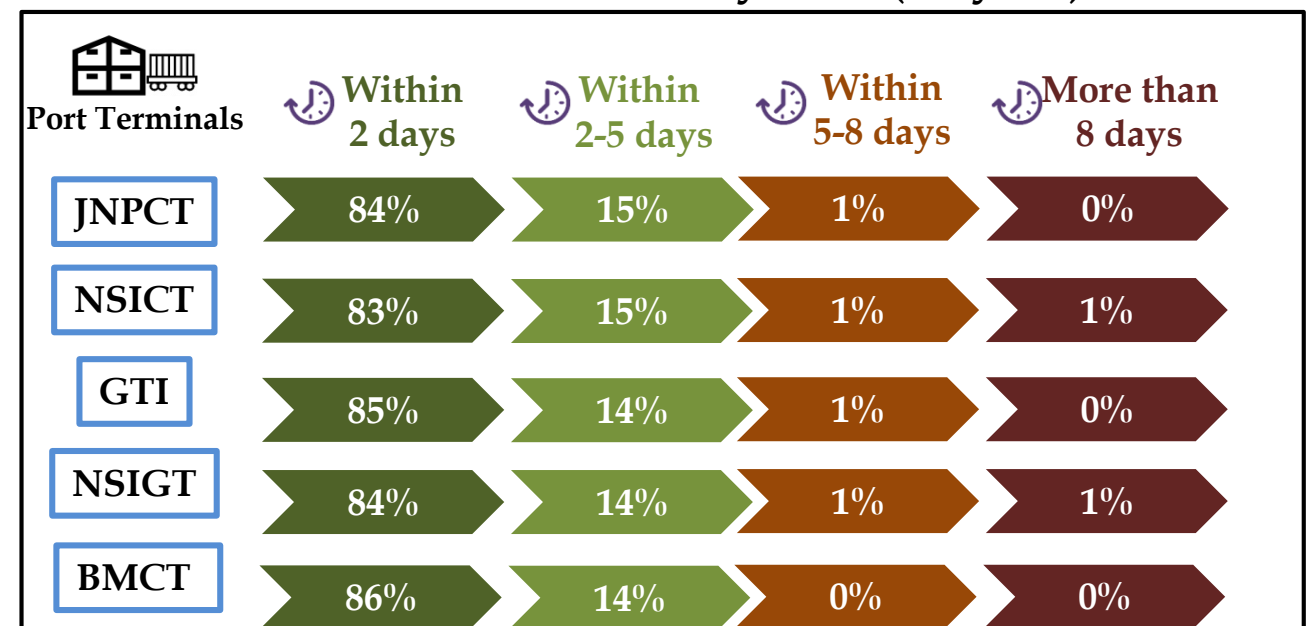
PORT IMPORT via TRUCK

(83 % of total import volume at JNPT Port)

The Port Dwell time data for Truck bound container movement in import cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	Apr'19 (in hrs)	May'19 (in hrs)
JNPCT	28.9	23.4
NSICT	34.7	22.8
GTI	34.2	19.8
NSIGT	28.1	20.1
BMCT	30.0	21.6

Container Handled: Day wise (may'19)



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

JNPCT		
Port Dwell time based on transit type		
May'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	35.5 hrs	22.2 hrs
Port Dwell time based on container type		
May'19	Laden Containers	Empty Containers
Dwell time (in hrs)	22.6 hrs	29.6 hrs

GTI		
Port Dwell time based on transit type		
May'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	55.9 hrs	16.8 hrs
Port Dwell time based on container type		
May'19	Laden Containers	Empty Containers
Dwell time (in hrs)	20.0 hrs	38.6 hrs

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

NSICT		
Port Dwell time based on transit type		
may'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	-	18.9 hrs

Port Dwell time based on container type		
may'19	Laden Containers	Empty Containers
Dwell time (in hrs)	23.5 hrs	41.5 hrs

NSIGT		
Port Dwell time based on transit type		
may'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	-	18.0 hrs

Port Dwell time based on container type		
may'19	Laden Containers	Empty Containers
Dwell time (in hrs)	25 hrs	44.2 hrs

BMCT		
Port Dwell time based on transit type		
may'19	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	64.9 hrs	20.6 hrs

Port Dwell time based on container type		
may'19	Laden Containers	Empty Containers
Dwell time (in hrs)	23 .2 hrs	48.6 hrs

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



Clusters without bottleneck

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

Clusters with bottleneck

Cluster 1	JNPT Area
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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

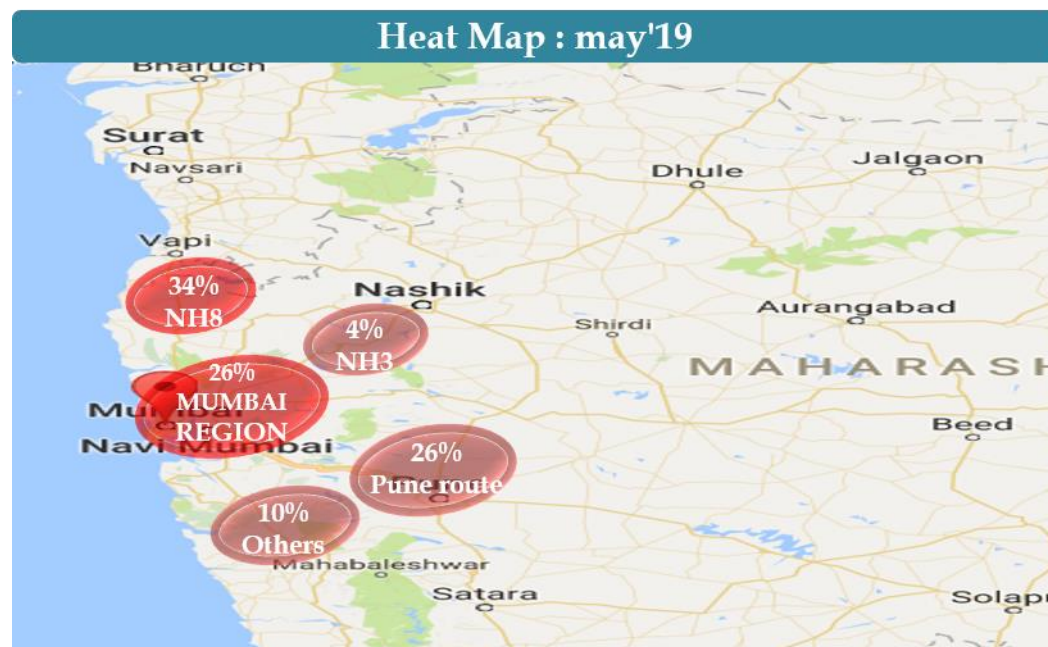
Congestion Level
Export Cycle :-

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

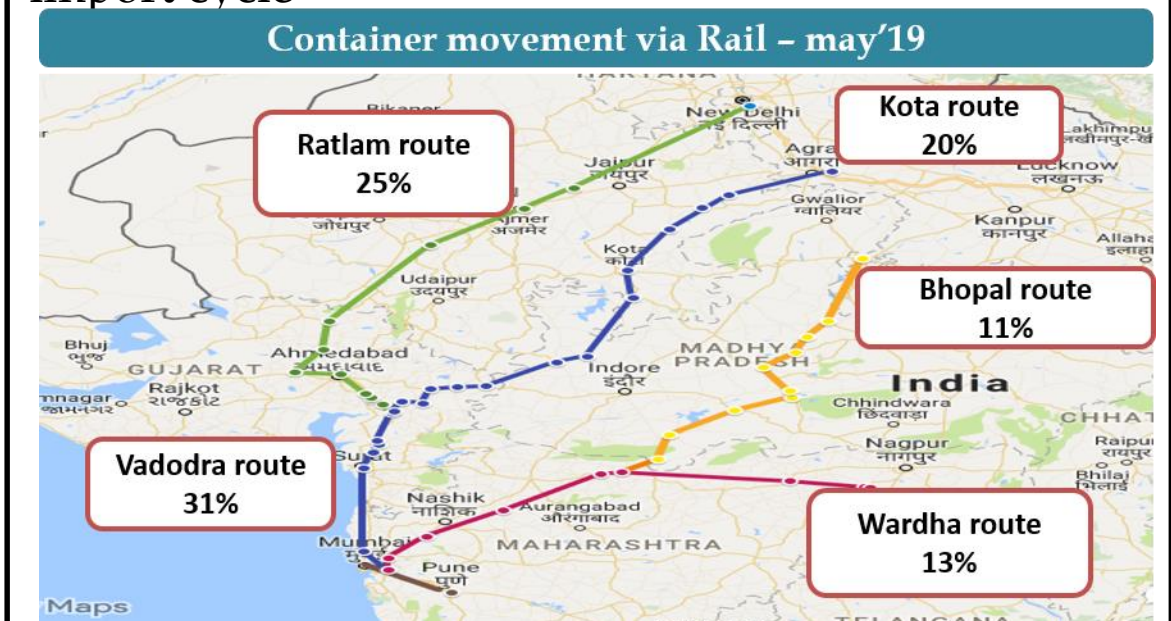
Truck	
HEAT MAP : OVERALL MUMBAI REGION	
Region	May'19
Mumbai region	26%
NH3	4%
Pune	26%
NH8	34%
others	10%

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



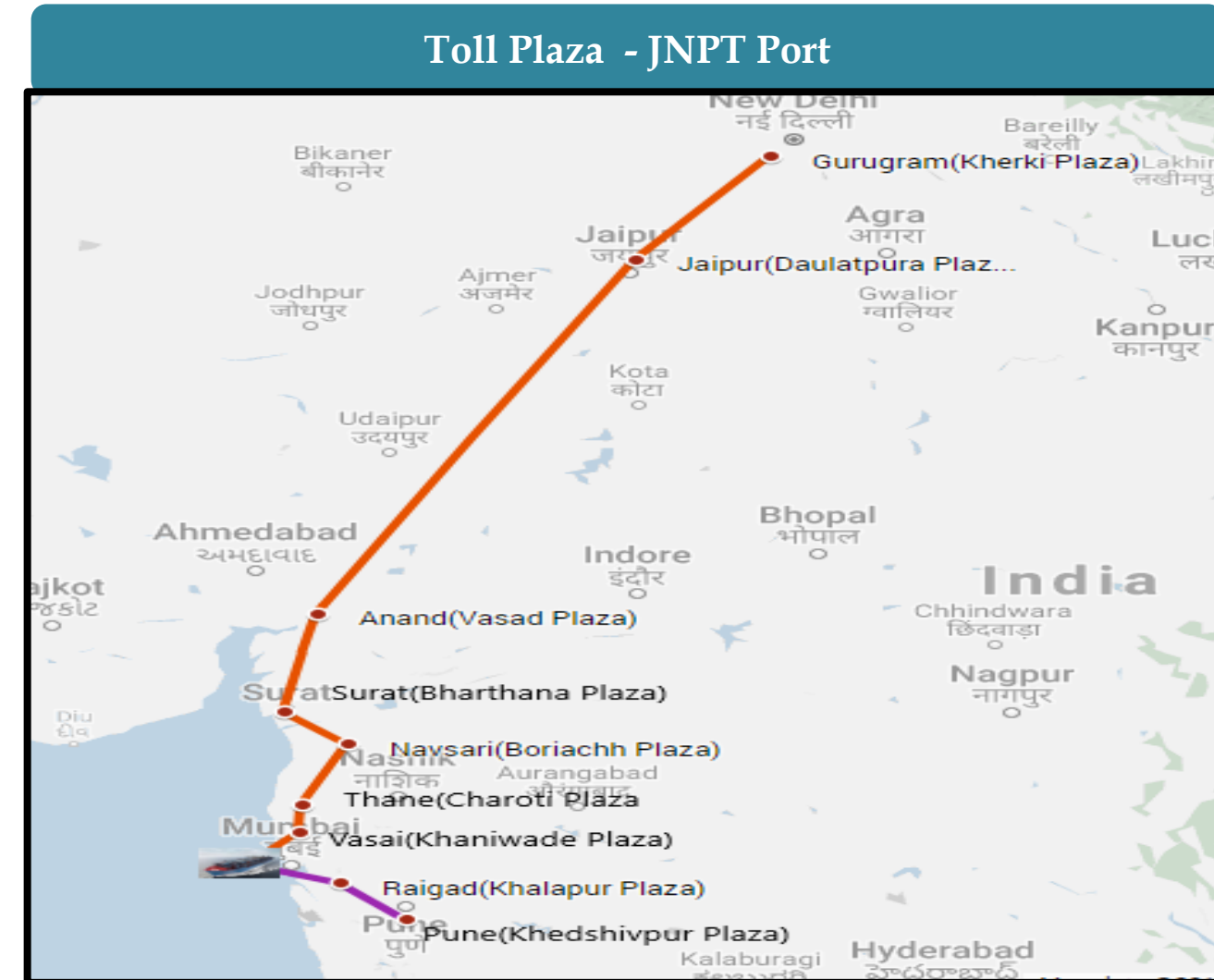
Train	
VOLUME WISE CONTAINER MOVEMENT	
Region	May'19
Vadodra Route	31%
Ratlam Route	25%
Wardha Route	13%
Kota Route	20%
Bhopal Route	11%

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)	April'19 (in km/hrs)	May'19 (in km/hrs)
JNPT	JNPT	Khaniwade	94	13.6	15.4
	JNPT	Khalapur	60	12.4	12.8
	Khaniwade	Charoti	50	37.1	36.3
	Charoti	Boriach	126	27.7	27.9
	Boriach	Bharthan	142	32.1	31.7
	Bharthan	Vasad	60	39.9	39.8
	Khalapur	Khedshivpur	105	25.7	27.2
	Daulatpura	Kherki	199	22.2	22.3



Export Cycle Analysis

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

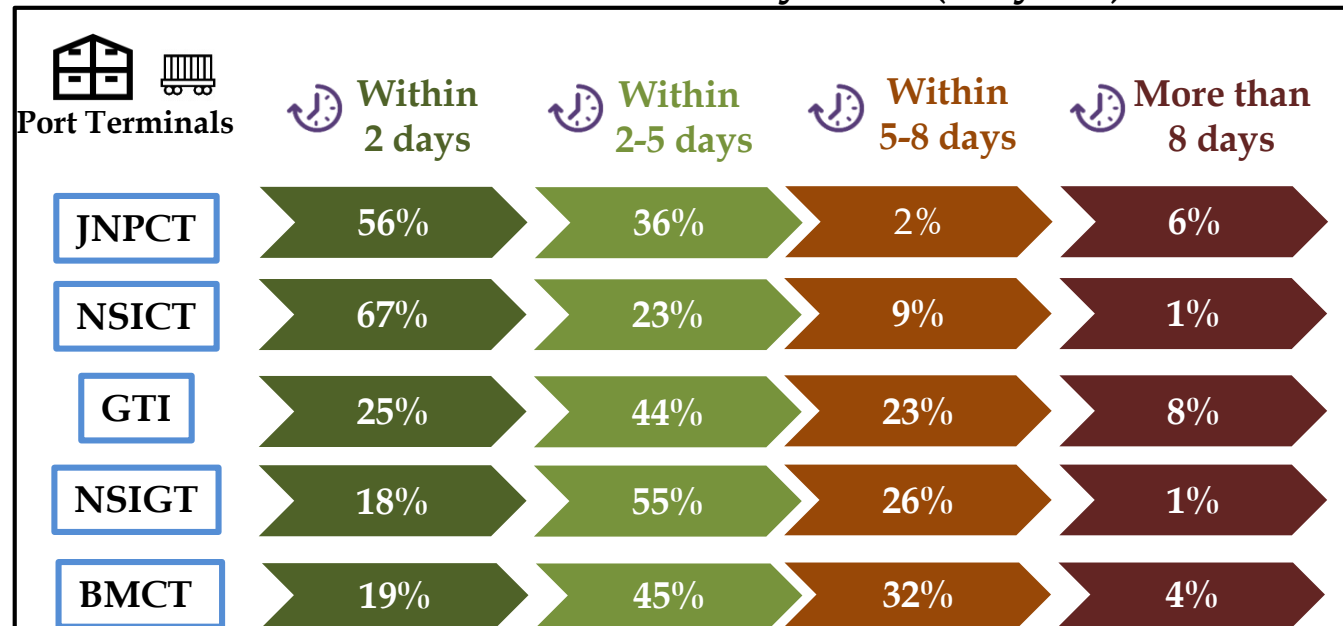
PORT EXPORT via TRAIN

(17% 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	Apr'19 (in hrs)	May'19 (in hrs)
JNPCT	146.4	42.7
NSICT	17.6	24.7
GTI	86.4	86.0
NSIGT	83.5	92.6
BMCT	115.7	93.0

Container Handled: Day wise (may'19)



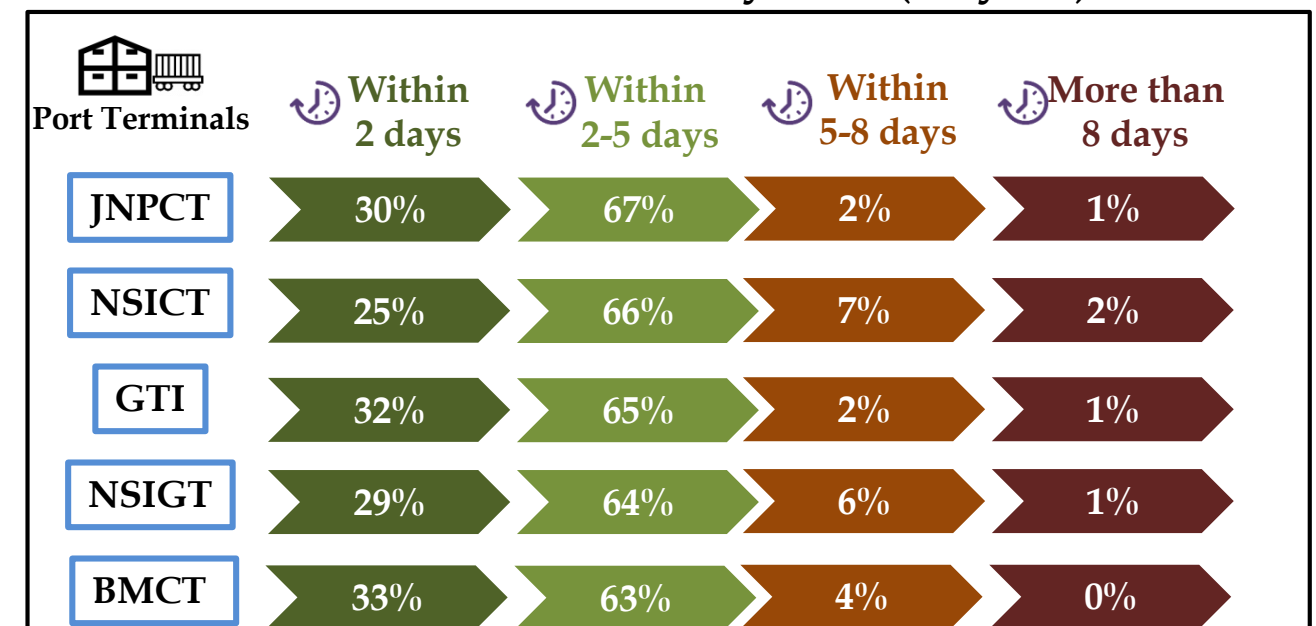
PORT EXPORT via TRUCK

(83% 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	Apr'19 (in hrs)	May'19 (in hrs)
JNPCT	73.5	54.3
NSICT	70.1	73.4
GTI	57.6	61.5
NSIGT	67.2	66.7
BMCT	68.0	60.9

Container Handled: Day wise (may'19)



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

JNPCT

Port Dwell time based on transit type		
May'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	-	58.0 hrs

Port Dwell time based on container type		
May'19	Laden Containers	Empty Containers
Dwell time (in hrs)	53.3	-

GTI

Port Dwell time based on transit type		
May'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	62.3 hrs	60.0 hrs

Port Dwell time based on container type		
May'19	Laden Containers	Empty Containers
Dwell time (in hrs)	60.9 hrs	64.2 hrs

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

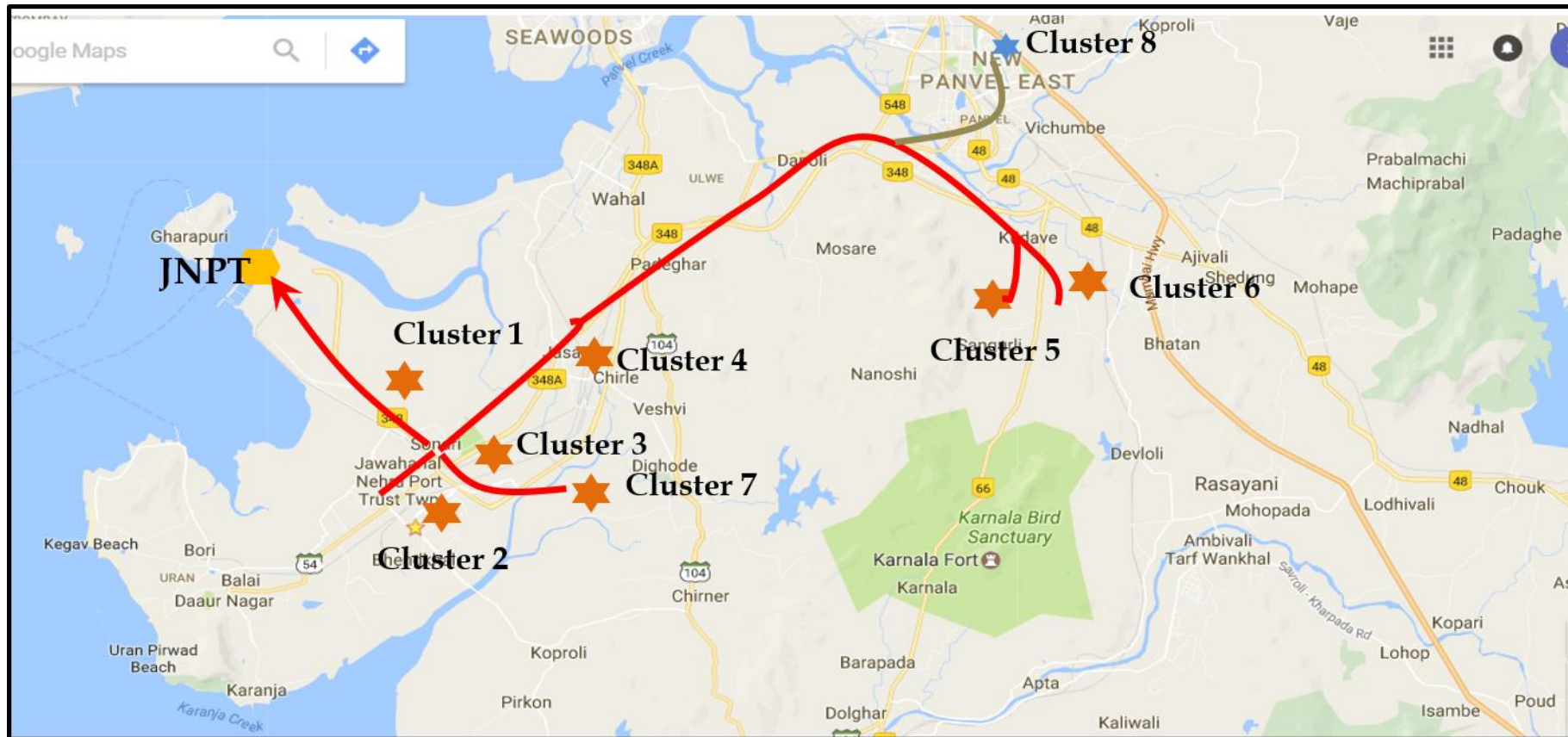
NSICT		
Port Dwell time based on transit type		
May'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	-	70.0 hrs
Port Dwell time based on container type		
May'19	Laden Containers	Empty Containers
Dwell time (in hrs)	58.2 hrs	69.8 hrs

NSIGT		
Port Dwell time based on transit type		
May'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	-	63.0 hrs
Port Dwell time based on container type		
May'19	Laden Containers	Empty Containers
Dwell time (in hrs)	67.0 hrs	64.9 hrs

BMCT		
Port Dwell time based on transit type		
May'19	Direct Port Export containers	Containers bound from CFS
Dwell time (in hrs)	-	56.0 hrs
Port Dwell time based on container type		
May'19	Laden Containers	Empty Containers
Dwell time (in hrs)	72.2 hrs	53.6 hrs

JNPT Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPT region in Export Cycle in month of may'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 (Red line)
- Medium Congestion (Orange line)
- Low Congestion (Yellow line)
- Cluster with bottleneck (Orange star)
- Cluster without bottleneck (Blue star)

GTI Terminal

Congestion Level
Import Cycle :- [Red bar]

JNPCT Terminal

Congestion Level
Import Cycle :- [Light red bar]

NSICT Terminal

Congestion Level
Import Cycle :- [Orange bar]

NSIGT Terminal

Congestion Level
Import Cycle :- [Red bar]

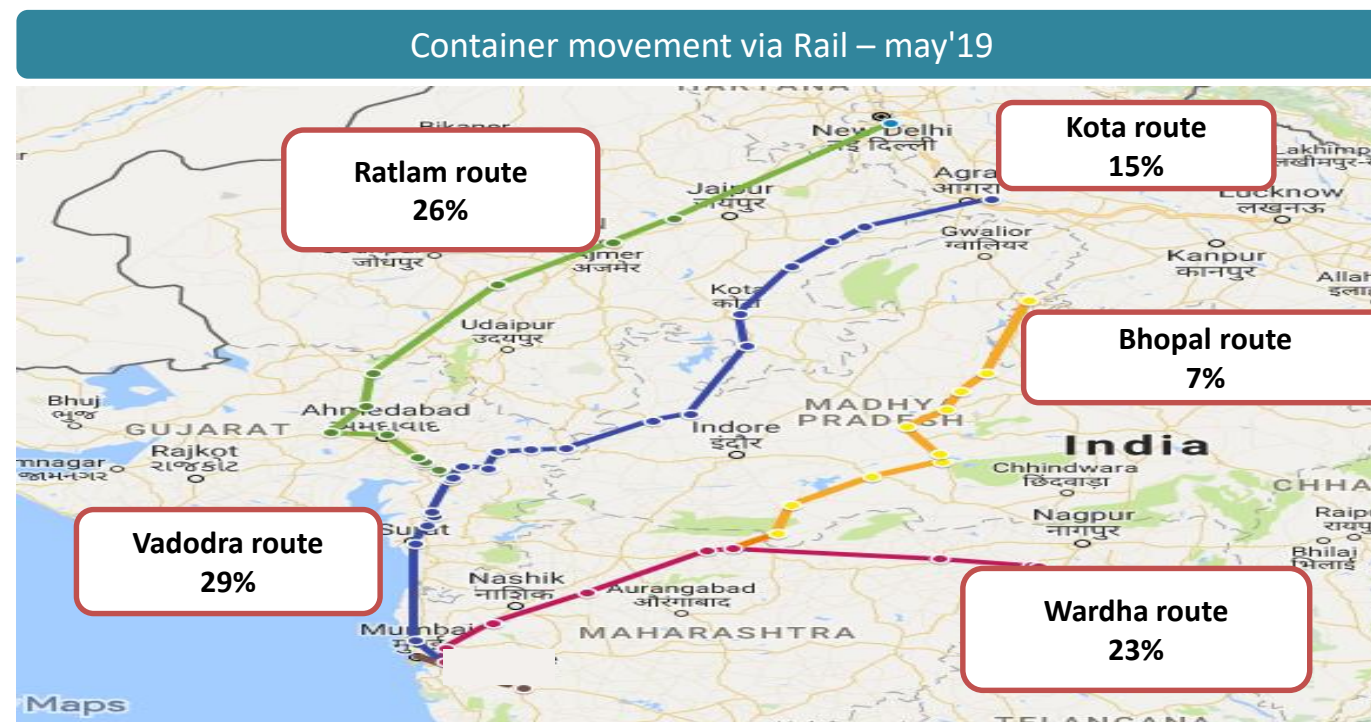
BMCT Terminal

Congestion Level
Export Cycle :- [Red bar]

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	29%
Ratlam Route	26%
Wardha Route	23%
Kota Route	15%
Bhopal Route	7%

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

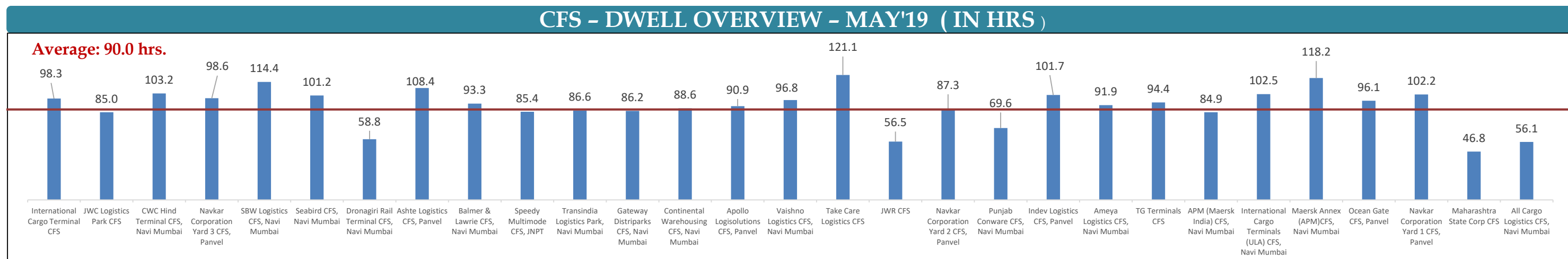


CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS

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

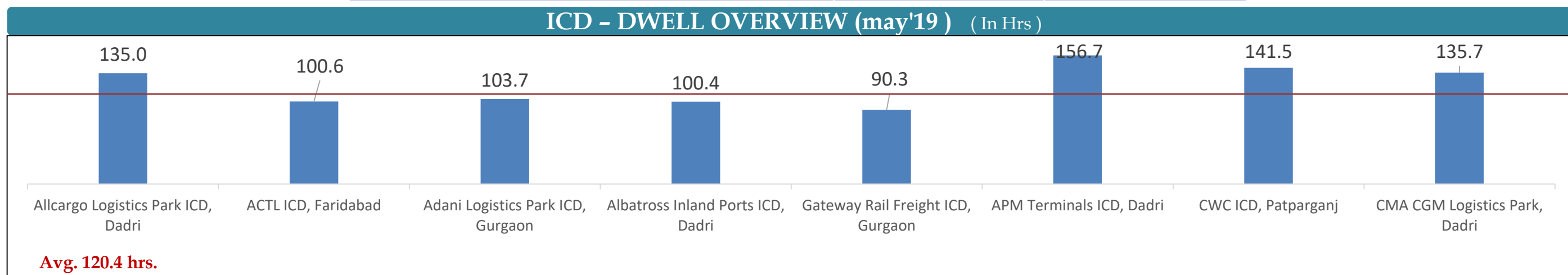
CFS Dwell Time (in hrs.)					
CFS	Apr'19	May'19	CFS	Apr'19	May'19
International Cargo Terminal CFS	90.9	98.3	Take Care Logistics CFS	120.4	121.1
JWC Logistics Park CFS	91.9	85.0	JWR CFS	56.0	56.5
CWC Hind Terminal CFS, Navi Mumbai	102.8	103.2	Navkar Corporation Yard 2 CFS, Panvel	91.7	87.3
Navkar Corporation Yard 3 CFS, Panvel	102.3	98.6	Punjab Conware CFS, Navi Mumbai	72.0	69.6
SBW Logistics CFS, Navi Mumbai	85.9	114.4	Indev Logistics CFS, Panvel	115.5	101.7
Seabird CFS, Navi Mumbai	-	101.2	Ameya Logistics CFS, Navi Mumbai	94.5	91.9
Dronagiri Rail Terminal CFS, Navi Mumbai	52.5	58.8	TG Terminals CFS	89.8	94.4
Ashte Logistics CFS, Panvel	97.2	108.4	APM (Maersk India) CFS, Navi Mumbai	77.0	84.9
Balmer & Lawrie CFS, Navi Mumbai	-	93.3	International Cargo Terminals (ULA) CFS, Navi Mumbai	89.0	102.5
Speedy Multimode CFS, JNPT	76.8	85.4	Maersk Annex (APM)CFS, Navi Mumbai	107.2	118.2
Transindia Logistics Park, Navi Mumbai	-	86.6	Ocean Gate CFS, Panvel	85.5	96.1
Gateway Distriparks CFS, Navi Mumbai	70.2	86.2	Navkar Corporation Yard 1 CFS, Panvel	104.6	102.2
Continental Warehousing CFS, Navi Mumbai	79.3	88.6	Maharashtra State Corp CFS	46.3	46.8
Apollo Logisolutions CFS, Panvel	95.4	90.9	All Cargo Logistics CFS, Navi Mumbai	90.0	56.1
Vaishno Logistics CFS, Navi Mumbai	82.5	96.8			



ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Apr'19	May'19
Allcargo Logistics Park ICD, Dadri	139.4	135.0
ACTL ICD, Faridabad	135.4	100.6
Adani Logistics Park ICD, Gurgaon	139.0	103.7
Albatross Inland Ports ICD, Dadri	113.7	100.4
Gateway Rail Freight ICD, Gurgaon	106.8	90.3
APM Terminals ICD, Dadri	-	156.7
CWC ICD, Patparganj	-	141.5
CMA CGM Logistics Park, Dadri	136.3	135.7

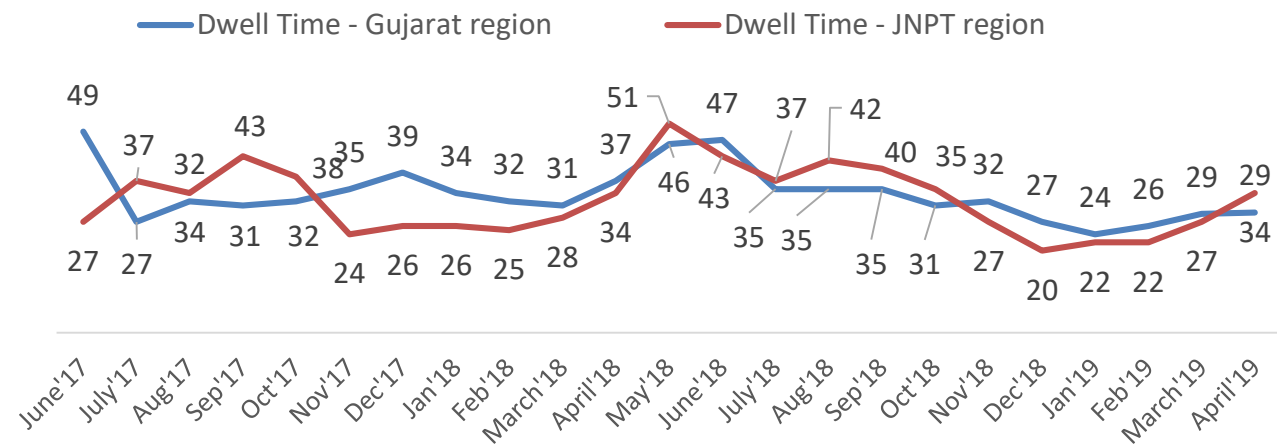


Trend Analysis

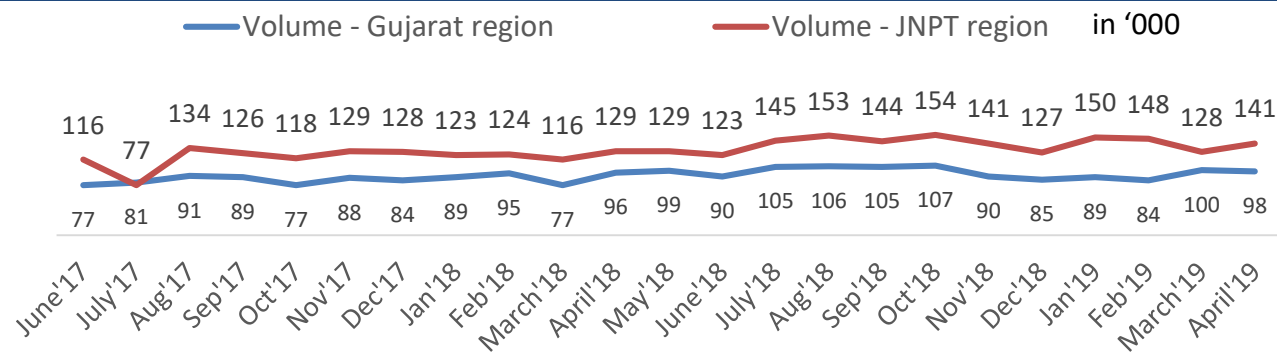
Container Volume and Dwell time of all the terminals in JNPT and Gujarat Port has been analysed until March'19

Import Cycle

Dwell Time – Gujarat Region Vs JNPT Region



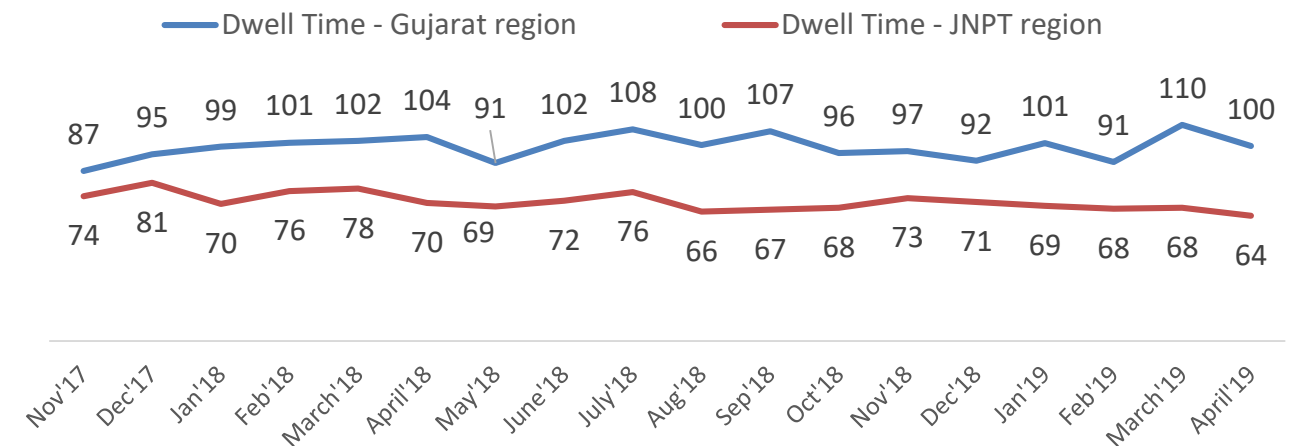
Volume – Gujarat Region Vs JNPT Region



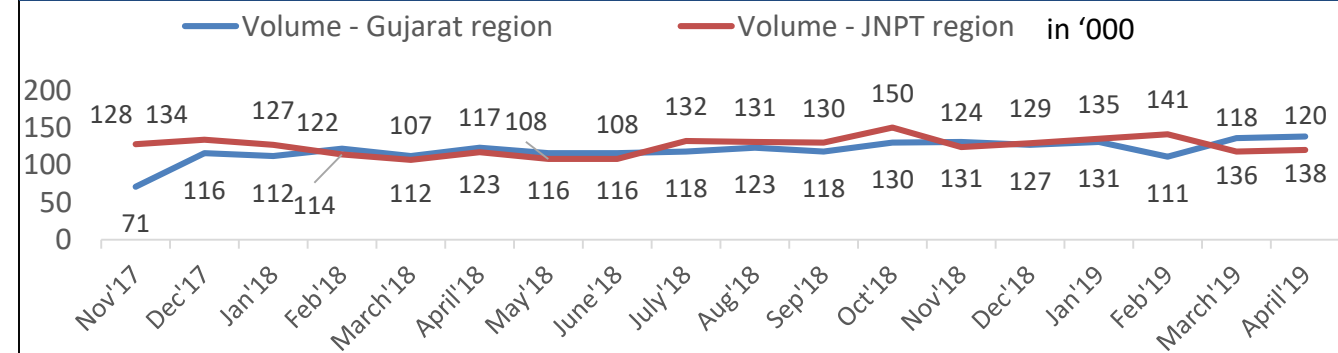
In Import cycle, for the month of may'19 JNPT port has catered 44% more volume than APSEZ Port, and has maintained 16% Higher dwell time than APSEZ Port

Export Cycle

Dwell Time – Gujarat Region Vs JNPT Region



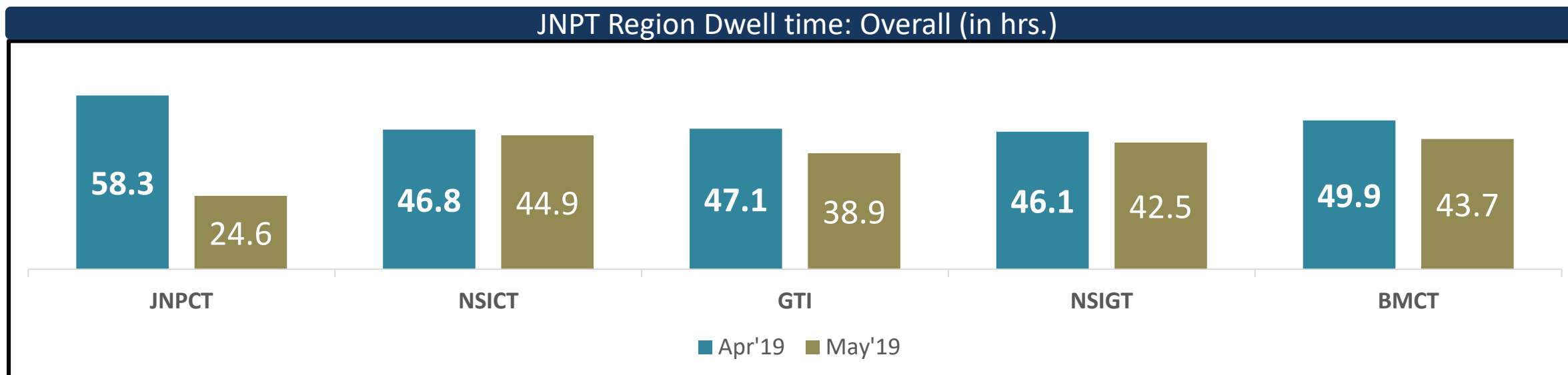
Volume – Gujarat Region Vs JNPT Region



In Export cycle, for the month may'19 JNPT port catered 13% more volume than JNPT Port, and has maintained 36% lower dwell time than APSEZ Port

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

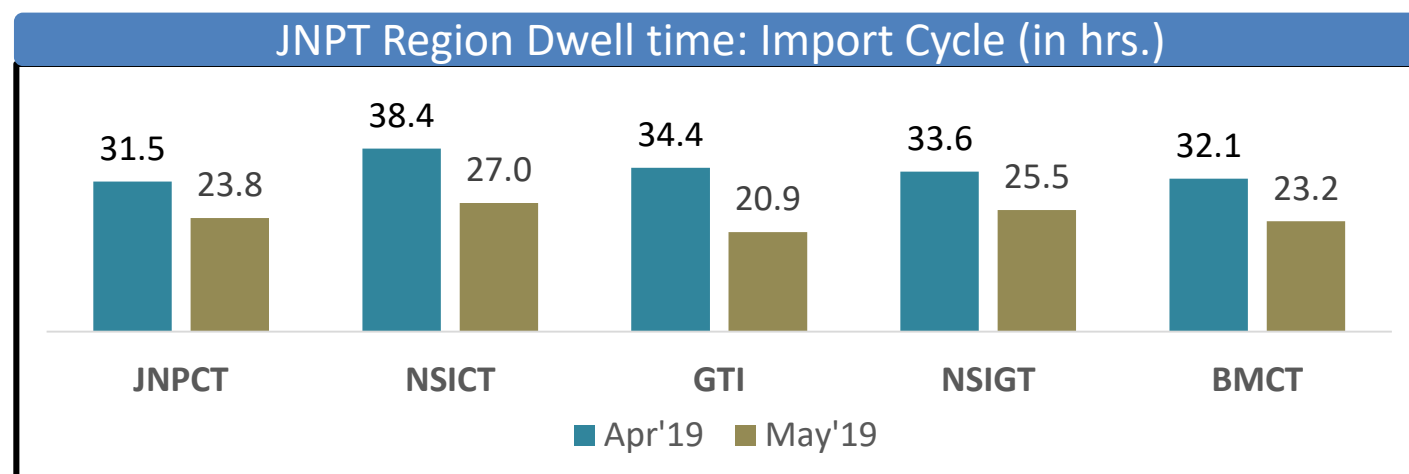


The overall JNPT region average dwell time for **May'19** is **40.0 hrs** as compared to **45.7 hrs** in **May'19**

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

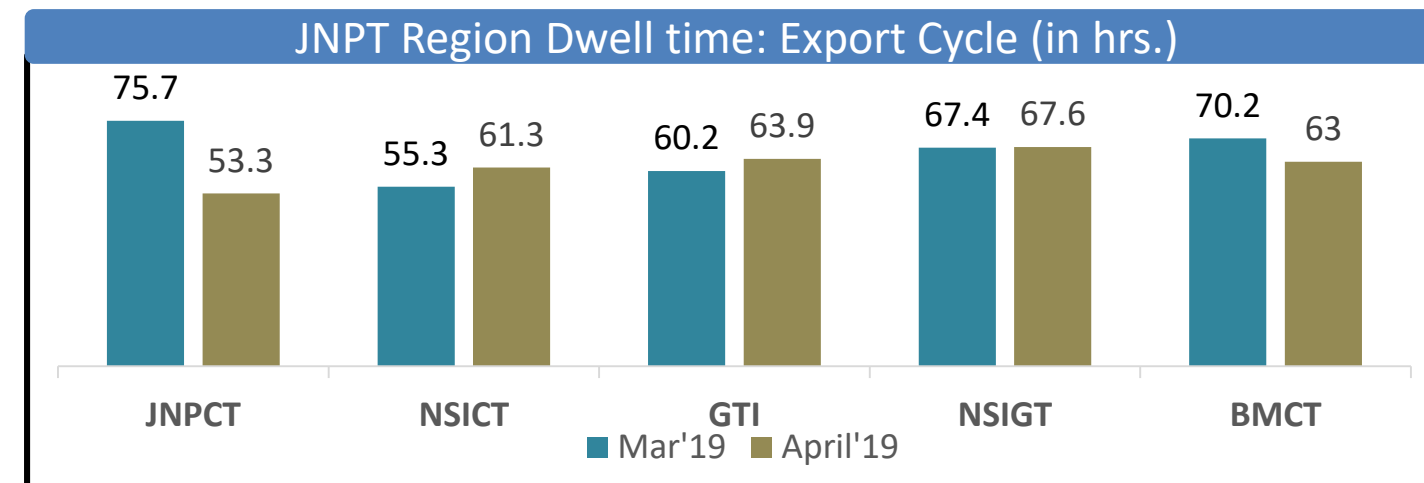
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for May'19 is **23 hrs.**



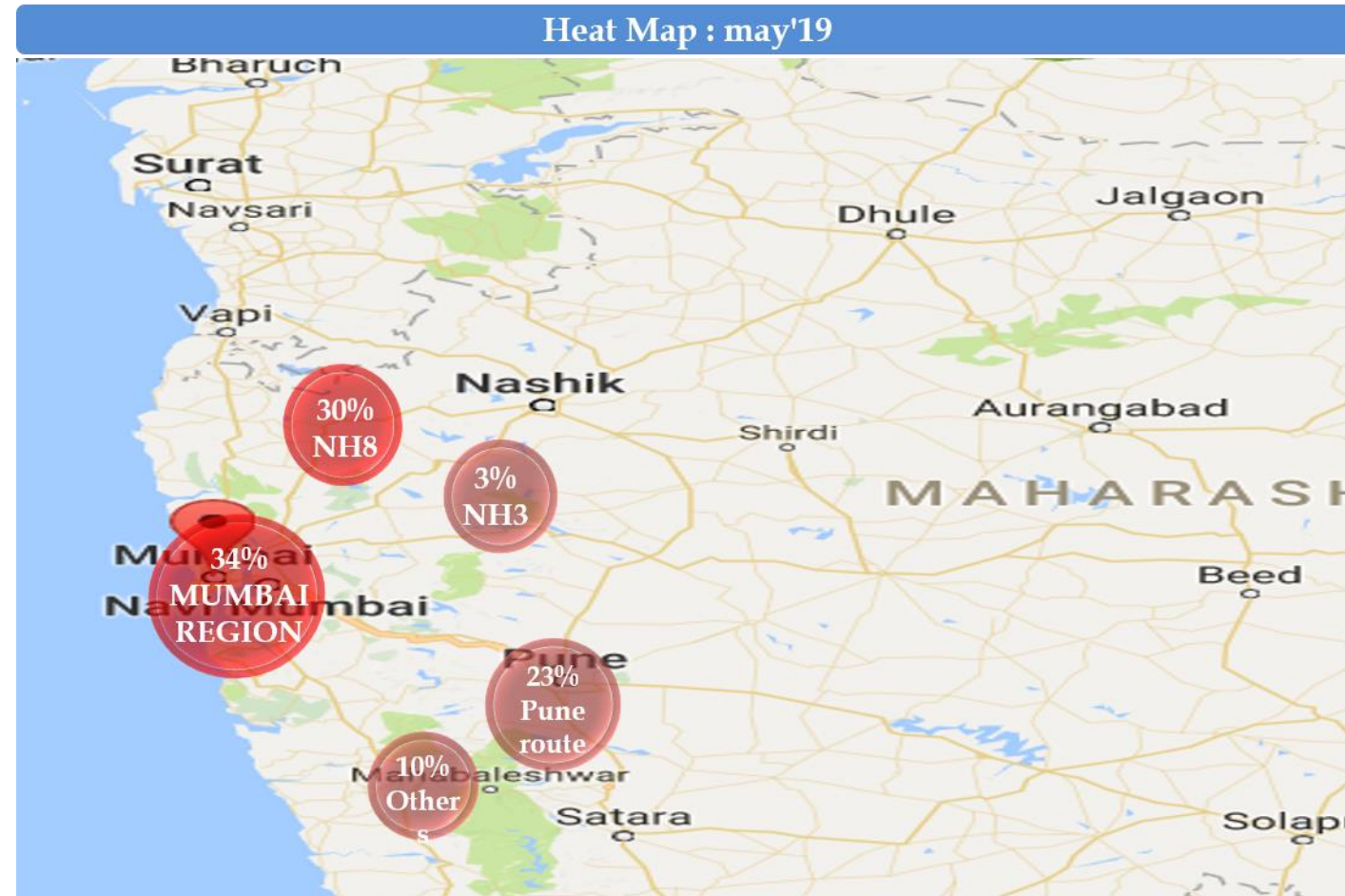
JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for May'19 is **63.8 hrs.**



ANNEXURE

HEAT MAP : GTI Port Terminal

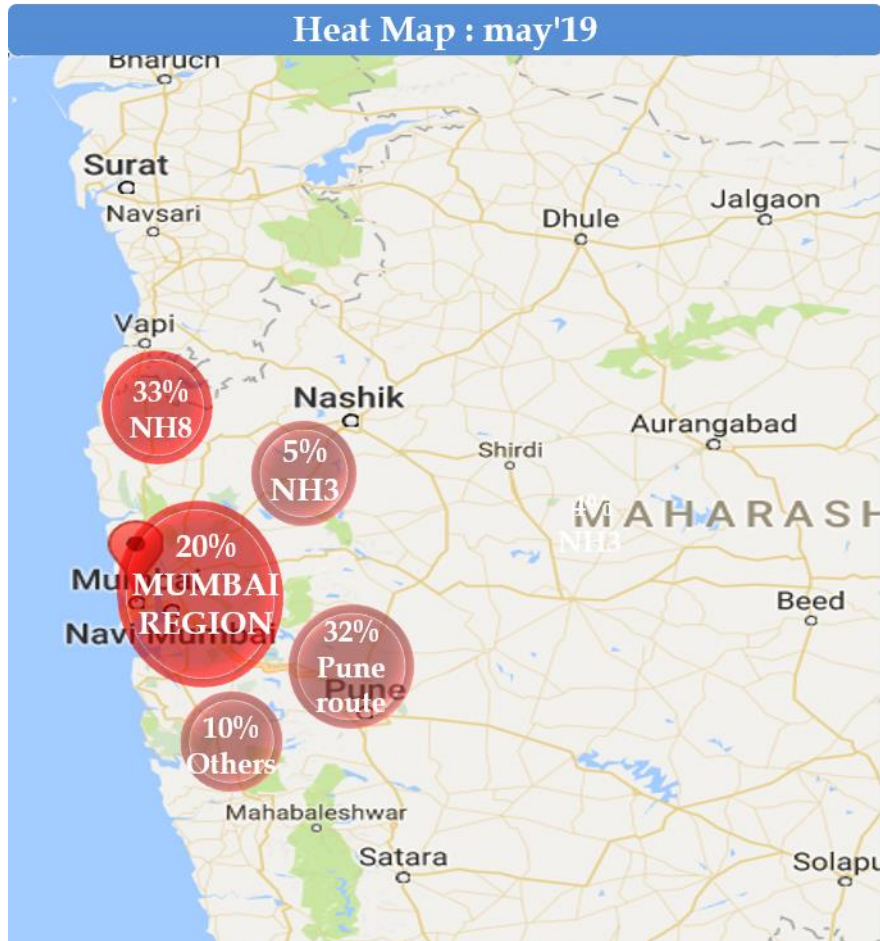


Region	Apr'19	May'19
Mumbai region	33%	34%
NH3	3%	3%
Pune	26%	23%
NH8	28%	30%
others	10%	10%

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

Container movement around JNPT Port terminal region via Truck

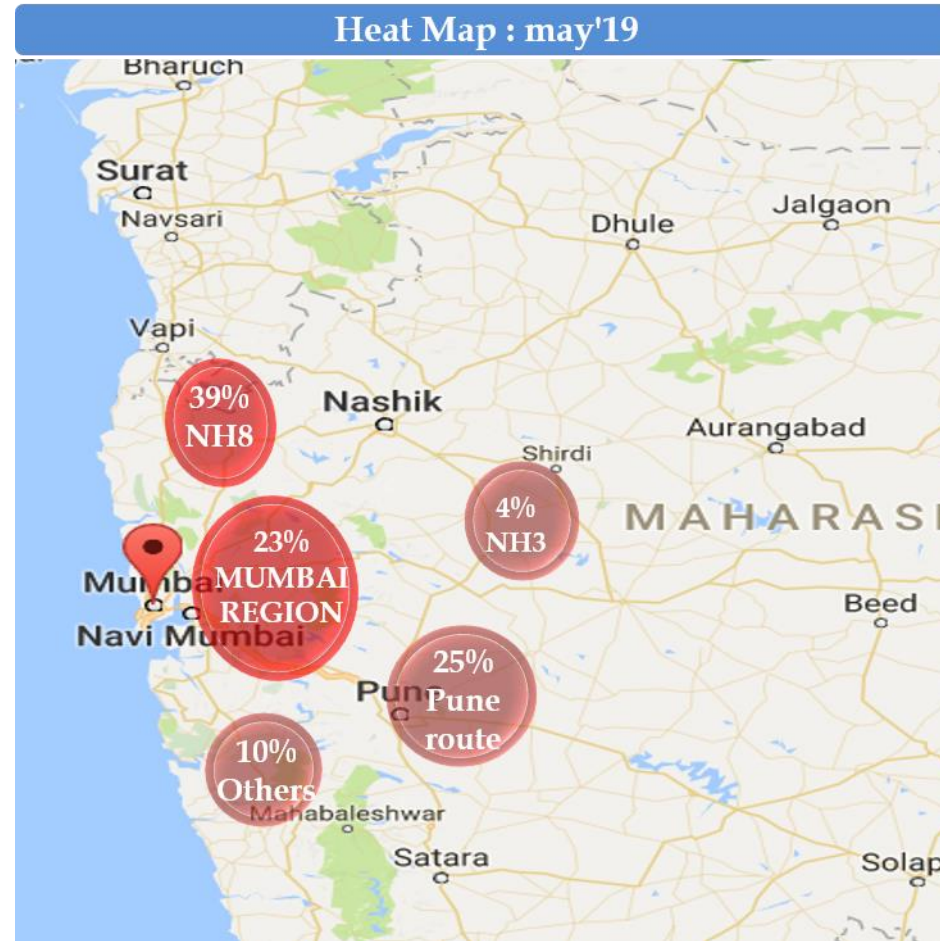
HEAT MAP : NSIGT Port Terminal



Region	Apr'19	May'19
Mumbai region	26%	20%
NH3	5%	5%
Pune	32%	32%
NH8	27%	33%
others	10%	10%

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

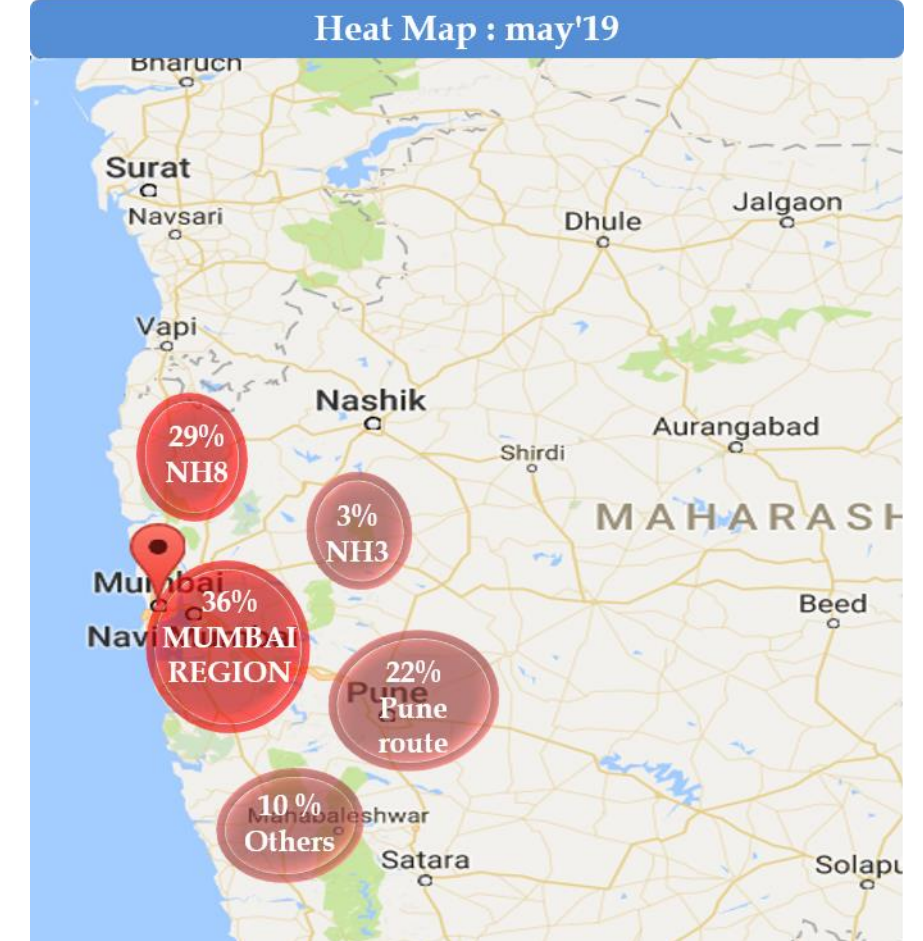
HEAT MAP : NSICT Port Terminal



Region	Apr'19	May'19
Mumbai region	30%	23%
NH3	4%	4%
Pune	24%	25%
NH8	32%	39%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Apr'19	May'19
Mumbai region	31%	36%
NH3	3%	3%
Pune	27%	22%
NH8	29%	29%
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 May'19					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Speedy Multimode CFS, JNPT	3.7	5.9	2.5	2.9	2.1
Dronagiri Rail Terminal CFS, Navi Mumbai	6.0	6.5	3.7	3.2	2.3
Maharashtra State Corp CFS	3.8	5.6	2.0	3.5	2.4
JWR CFS	-	-	-	-	-
Navkar Corporation Yard 3 CFS, Panvel	10.6	9.0	9.0	7.5	8.2
International Cargo Terminal CFS	7.0	7.6	6.9	3.1	2.9
CWC Hind Terminal CFS, Navi Mumbai	18.9	7.1	2.4	3.1	2.2
Navkar Corporation Yard 2 CFS, Panvel	9.2	10.2	7.9	8.9	5.6
Punjab Conware CFS, Navi Mumbai	6.7	6.0	2.6	2.6	2.2
JWC Logistics Park CFS	4.6	8.9	4.4	4.9	3.5
TG Terminals CFS	-	-	-	-	--
Apollo Logisolutions CFS, Panvel	10.1	6.0	4.6	3.5	4.1
Vaishno Logistics CFS, Navi Mumbai	6.5	6.3	2.1	2.6	2.6
Gateway Distriparks CFS, Navi Mumbai	5.7	7.3	2.6	3.6	2.4
Transindia Logistics Park, Navi Mumbai	2.5	7.6	4.0	3.2	2.8
Ashte Logistics CFS, Panvel	5.2	9.0	4.5	4.3	3.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.5	6.0	3.2	3.2	4.5
All Cargo Logistics CFS, Navi Mumbai	3.6	11.0	3.6	4.4	4.1
Ocean Gate CFS, Panvel	6.7	6.6	3.1	3.3	2.8
Ameya Logistics CFS, Navi Mumbai	3.3	8.4	3.8	3.9	4.7
APM (Maersk India) CFS, Navi Mumbai	1.8	5.4	1.8	2.5	2.8
Seabird CFS, Navi Mumbai	15.6	5.8	2.4	4.7	2.2
Continental Warehousing CFS, Navi Mumbai	4.3	5.5	2.2	2.6	2.1
Indev Logistics CFS, Panvel	4.5	7.2	3.9	3.6	2.8
SBW Logistics CFS, Navi Mumbai	-	6.2	7.3	5.6	5.3
Balmer & Lawrie CFS, Navi Mumbai	9.6	10.2	3.0	3.8	3.2
CWC Dronagiri CFS, Navi Mumbai	7.6	9.4	2.5	2.6	2.3
Navkar Corporation Yard 1 CFS, Panvel	-	-	-	-	-

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	may'19 (in hrs)
Speedy Multimode CFS, JNPT	2.1
Dronagiri Rail Terminal CFS, Navi Mumbai	2.5
Maharashtra State Corp CFS	8.3
JWR CFS	2.8
Navkar Corporation Yard 3 CFS, Panvel	3.8
International Cargo Terminal CFS	4.0
CWC Hind Terminal CFS, Navi Mumbai	2.2
Navkar Corporation Yard 2 CFS, Panvel	5.5
Punjab Conware CFS, Navi Mumbai	2.4
JWC Logistics Park CFS	5.0
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	4.6
Vaishno Logistics CFS, Navi Mumbai	2.6
Gateway Distriparks CFS, Navi Mumbai	2.8
Transindia Logistics Park, Navi Mumbai	2.8
Ashte Logistics CFS, Panvel	4.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.2
All Cargo Logistics CFS, Navi Mumbai	3.2
Ocean Gate CFS, Panvel	3.8
Ameya Logistics CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.0
Seabird CFS, Navi Mumbai	4.8
Continental Warehousing CFS, Navi Mumbai	1.8
Indev Logistics CFS, Panvel	5.0
SBW Logistics CFS, Navi Mumbai	4.6
Balmer & Lawrie CFS, Navi Mumbai	2.5
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	4.3

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	may'19 (in hrs)
Speedy Multimode CFS, JNPT	1.6
Dronagiri Rail Terminal CFS, Navi Mumbai	1.6
Maharashtra State Corp CFS	5.8
JWR CFS	1.9
Navkar Corporation Yard 3 CFS, Panvel	4.1
International Cargo Terminal CFS	3.2
CWC Hind Terminal CFS, Navi Mumbai	2.2
Navkar Corporation Yard 2 CFS, Panvel	3.4
Punjab Conware CFS, Navi Mumbai	2.2
JWC Logistics Park CFS	4.1
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	5.3
Vaishno Logistics CFS, Navi Mumbai	3.2
Gateway Distriparks CFS, Navi Mumbai	2.6
Transindia Logistics Park, Navi Mumbai	2.6
Ashte Logistics CFS, Panvel	4.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.1
All Cargo Logistics CFS, Navi Mumbai	7.2
Ocean Gate CFS, Panvel	3.4
Ameya Logistics CFS, Navi Mumbai	2.9
APM (Maersk India) CFS, Navi Mumbai	2.3
Seabird CFS, Navi Mumbai	4.9
Continental Warehousing CFS, Navi Mumbai	1.8
Indev Logistics CFS, Panvel	3.9
SBW Logistics CFS, Navi Mumbai	4.0
Balmer & Lawrie CFS, Navi Mumbai	2.1
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	3.6

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	may'19 (in hrs)
Speedy Multimode CFS, JNPT	1.9
Dronagiri Rail Terminal CFS, Navi Mumbai	2.7
Maharashtra State Corp CFS	7.6
JWR CFS	2.7
Navkar Corporation Yard 3 CFS, Panvel	4.7
International Cargo Terminal CFS	4.1
CWC Hind Terminal CFS, Navi Mumbai	2.1
Navkar Corporation Yard 2 CFS, Panvel	8.3
Punjab Conware CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	5.2
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	8.9
Vaishno Logistics CFS, Navi Mumbai	1.9
Gateway Distriparks CFS, Navi Mumbai	3.3
Transindia Logistics Park, Navi Mumbai	2.6
Ashte Logistics CFS, Panvel	3.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.0
All Cargo Logistics CFS, Navi Mumbai	-
Ocean Gate CFS, Panvel	3.0
Ameya Logistics CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	1.9
Seabird CFS, Navi Mumbai	4.9
Continental Warehousing CFS, Navi Mumbai	1.5
Indev Logistics CFS, Panvel	5.1
SBW Logistics CFS, Navi Mumbai	12.3
Balmer & Lawrie CFS, Navi Mumbai	3.6
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	5.1

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	may'19 (in hrs)
Speedy Multimode CFS, JNPT	1.9
Dronagiri Rail Terminal CFS, Navi Mumbai	2.3
Maharashtra State Corp CFS	27.2
JWR CFS	2.9
Navkar Corporation Yard 3 CFS, Panvel	5.2
International Cargo Terminal CFS	4.1
CWC Hind Terminal CFS, Navi Mumbai	1.9
Navkar Corporation Yard 2 CFS, Panvel	4.7
Punjab Conware CFS, Navi Mumbai	2.7
JWC Logistics Park CFS	4.5
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	7.9
Vaishno Logistics CFS, Navi Mumbai	2.5
Gateway Distriparks CFS, Navi Mumbai	3.2
Transindia Logistics Park, Navi Mumbai	2.7
Ashte Logistics CFS, Panvel	3.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.8
All Cargo Logistics CFS, Navi Mumbai	3.0
Ocean Gate CFS, Panvel	3.7
Ameya Logistics CFS, Navi Mumbai	2.5
APM (Maersk India) CFS, Navi Mumbai	2.1
Seabird CFS, Navi Mumbai	3.8
Continental Warehousing CFS, Navi Mumbai	1.5
Indev Logistics CFS, Panvel	5.1
SBW Logistics CFS, Navi Mumbai	3.6
Balmer & Lawrie CFS, Navi Mumbai	2.4
CWC Dronagiri CFS, Navi Mumbai	39.1
Navkar Corporation Yard 1 CFS, Panvel	4.0

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	may'19 (in hrs)
Speedy Multimode CFS, JNPT	1.9
Dronagiri Rail Terminal CFS, Navi Mumbai	2.1
Maharashtra State Corp CFS	1.9
JWR CFS	2.2
Navkar Corporation Yard 3 CFS, Panvel	4.2
International Cargo Terminal CFS	5.3
CWC Hind Terminal CFS, Navi Mumbai	1.8
Navkar Corporation Yard 2 CFS, Panvel	3.7
Punjab Conware CFS, Navi Mumbai	2.7
JWC Logistics Park CFS	4.7
TG Terminals CFS	-
Apollo Logisolutions CFS, Panvel	4.1
Vaishno Logistics CFS, Navi Mumbai	2.5
Gateway Distriparks CFS, Navi Mumbai	2.9
Transindia Logistics Park, Navi Mumbai	3.1
Ashte Logistics CFS, Panvel	4.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.9
All Cargo Logistics CFS, Navi Mumbai	3.3
Ocean Gate CFS, Panvel	3.8
Ameya Logistics CFS, Navi Mumbai	2.7
APM (Maersk India) CFS, Navi Mumbai	2.9
Seabird CFS, Navi Mumbai	3.1
Continental Warehousing CFS, Navi Mumbai	1.6
Indev Logistics CFS, Panvel	4.5
SBW Logistics CFS, Navi Mumbai	4.8
Balmer & Lawrie CFS, Navi Mumbai	2.5
CWC Dronagiri CFS, Navi Mumbai	-
Navkar Corporation Yard 1 CFS, Panvel	4.7

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 may'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	5.9
Cluster 2	6	13	2.6	7.2
Cluster 3	6	11	2.5	6.0
Cluster 4	1	13	4.4	7.8
Cluster 5	2	25	0.0	0.0
Cluster 6	6	25	4.6	8.1
Cluster 7	4	12	2.7	8.0
Cluster 8	1	34	2.8	-

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of may'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	3.7
Cluster 2	6	13	2.4	6.4
Cluster 3	6	11	2.2	6.7
Cluster 4	1	13	3.7	5.6
Cluster 5	2	25	0.0	0.0
Cluster 6	6	25	4.0	7.2
Cluster 7	4	12	2.8	3.4
Cluster 8	1	34	1.9	-

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

Base on container movement from port to CFS in Mumbai region, All the CFS's have been grouped into 8 Clusters on the basis of their vicinity. Below table shows all the clusters and the relevant data for GTI and JNPCT terminal

CFS Cluster : NSICT Terminal

CFS Cluster : NSIGT Terminal

CFS Cluster : BMCT Terminal

GTI terminal for month of may'19

JNPCT terminal for month of may'19

JNPCT terminal for month of may'19

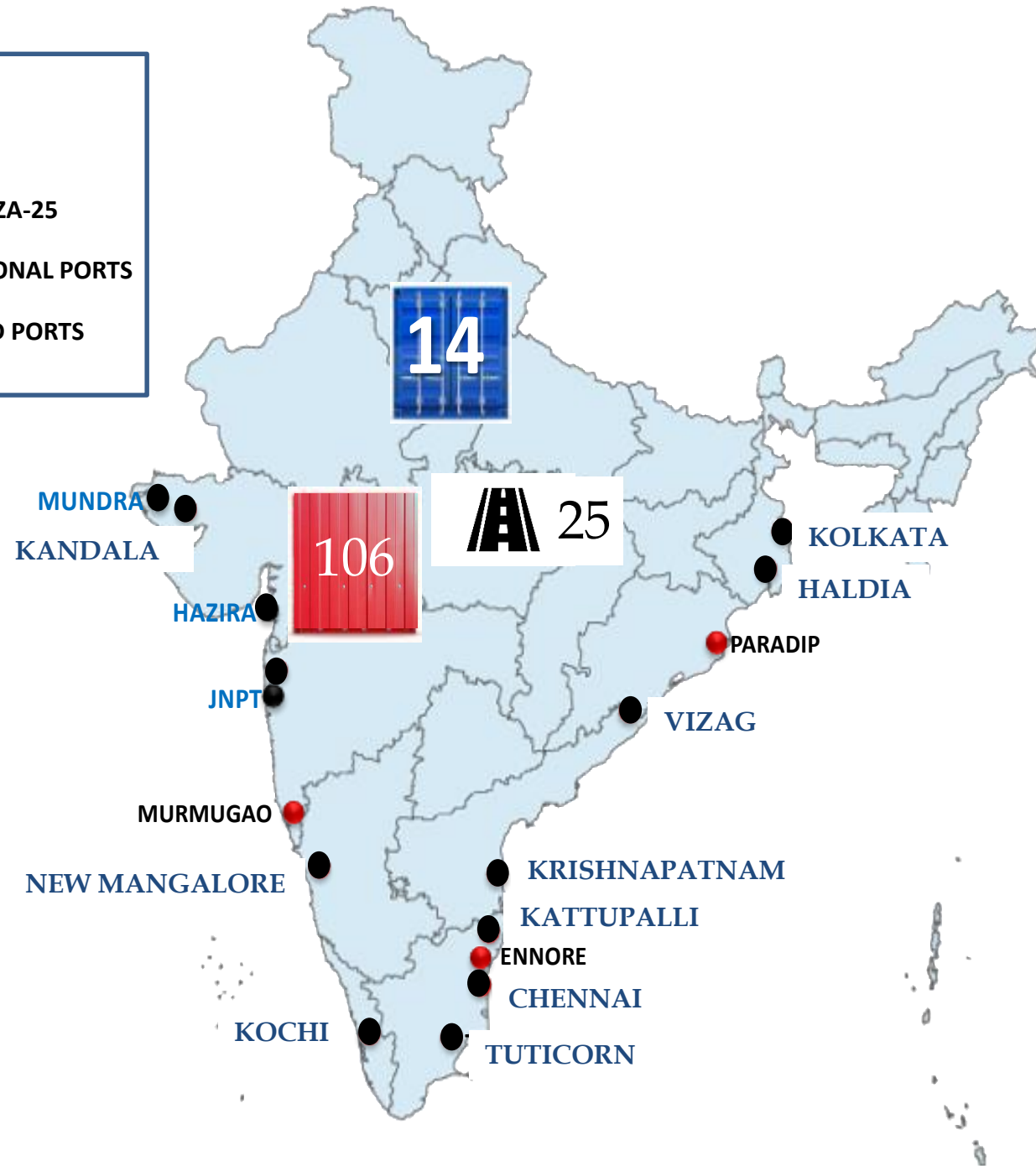
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.9	2.5
Cluster 2	6	13	3.2	2.8
Cluster 3	6	11	2.7	2.5
Cluster 4	1	13	0.0	0.0
Cluster 5	2	25	0.0	0.0
Cluster 6	6	25	5.1	4.5
Cluster 7	4	12	2.0	3.7
Cluster 8	1	34	2.7	-

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	2.6	3.2
Cluster 3	6	11	3.8	3.2
Cluster 4	1	13	4.1	4.1
Cluster 5	2	25	0.0	0.0
Cluster 6	6	25	4.9	3.9
Cluster 7	4	12	2.6	3.6
Cluster 8	1	34	2.9	-

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	2.1
Cluster 2	6	13	2.9	2.8
Cluster 3	6	11	2.1	2.3
Cluster 4	1	13	4.3	3.2
Cluster 5	2	25	0.0	0.0
Cluster 6	6	25	4.3	3.7
Cluster 7	4	12	2.9	3.5
Cluster 8	1	34	2.2	-

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**

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



Below mentioned are all the CFS in the respective Clusters :

<p>Cluster 1 (JNPT Area)</p> <ul style="list-style-type: none"> Speedy Multimode CFS, JNPT 	<p>Cluster 3 Sonari area, JNPT road</p> <ul style="list-style-type: none"> Punjab Conware CFS, Navi Mumbai Dronogiri Rail Terminal CFS, Navi Mumbai CWC Impex Park CFS, Navi Mumbai CWC Dronagiri CFS, Navi Mumbai Maharashtra State Corp CFS Seabird CFS, Navi Mumbai 	<p>Cluster 6 (Salva apta rd area, Bangalore highway)</p> <ul style="list-style-type: none"> Ashte Logistics CFS, Panvel Apollo Logisolutions CFS, Panvel Indev Logistics CFS, Panvel Navkar Corporation Yrd 1 CFS, Panvel Navkar Corporation Yard 2 CFS, Panvel Navkar Corporation Yard 3 CFS, Panvel
<p>Cluster 2 (Bhendkhal area, Khopate road)</p> <ul style="list-style-type: none"> APM (Maersk India) CFS, Navi Mumbai Maersk Annex (APM) CFS, Navi Mumbai Balmer & Lawrie CFS, Navi Mumbai CWC Hind Terminal CFS, Navi Mumbai International Cargo Terminals (ULA) CFS, Navi Mumbai & Infrastructure Private Limited Gateway Distriparks CFS, Navi Mumbai International Cargo Terminal CFS 	<p>Cluster 4 (Chirle area, JNPT road)</p> <ul style="list-style-type: none"> Vaishno Logistics CFS, Navi Mumbai 	<p>Cluster 7 (Patilpada area, Khopate JNPT road)</p> <ul style="list-style-type: none"> All Cargo Logistics CFS, Navi Mumbai Transindia Logistics Park, Navi Mumbai Ameya Logistics CFS, Navi Mumbai Continental Warehousing CFS, Navi Mumbai
	<p>Cluster 5 (Plaspa area, Coachi kanyakumari Highway)</p> <ul style="list-style-type: none"> JWC Logistics Park CFS Ocean Gate CFS, Panvel 	
	<p>Cluster 8 SBW</p>	

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



THANK YOU