

Terminal wise Dwell Time Performance - Snapshot

Import Cycle			Export Cycle		
Port	Mar'23 (in hrs)	Apr'23 (in hrs)	Port	Mar'23 (in hrs)	Apr'23 (in hrs)
NSFT	-	45.2	NSFT	-	68.5
NSICT	34.5	39.9	NSICT	61.2	58.8
GTI	18.1	19.6	GTI	73.6	78.3
NSIGT	28.6	35.4	NSIGT	85.0	96.2
BMCT/PSA	28.6	25.4	BMCT/PSA	77.5	88.3

Critical Incident Summary

Jawaharlal Nehru Port Authority

- Container handling performance for Import Cycle and Export Cycle has deteriorated as compared to last month.
- Container handling performance at CFS and ICD has deteriorated as compared to last month.

Month	Import Cycle - Dwell Time	Export Cycle - Dwell Time	CFS Dwell Time	ICD
Apr'23	29.1 hrs	80.0 hrs	91.0 hrs	136.8 hrs
Mar'23	26.5 hrs	74.0 hrs	80.6 hrs	119.4 hrs

Note: Red arrows and percentages in the original image indicate a decrease in dwell time from Mar'23 to Apr'23 for all categories: Import Cycle (-9.8%), Export Cycle (-8.1%), CFS Dwell Time (-12.9%), and ICD (-14.6%).

Port Dwell Time

IMPORT

Mode	Mar'23 (in hrs)	Apr'23 (in hrs)
Overall	32.0	30.6
Truck	27.1	25.9
Train	73.4	69.0

EXPORT

Mode	Mar'23 (in hrs)	Apr'23 (in hrs)
Overall	86.9	90.9
Truck	83.7	86.7
Train	105.5	115.9

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



Inland
Container
Depot (ICD)



Container
Freight
Stations (CFS)

Entity	Mar'23 (in hrs)	Apr'23 (in hrs)
CFS	83.0	89.5
ICD	119.4	136.8

The marked entries showcase increase in performance in comparison to Mar'23

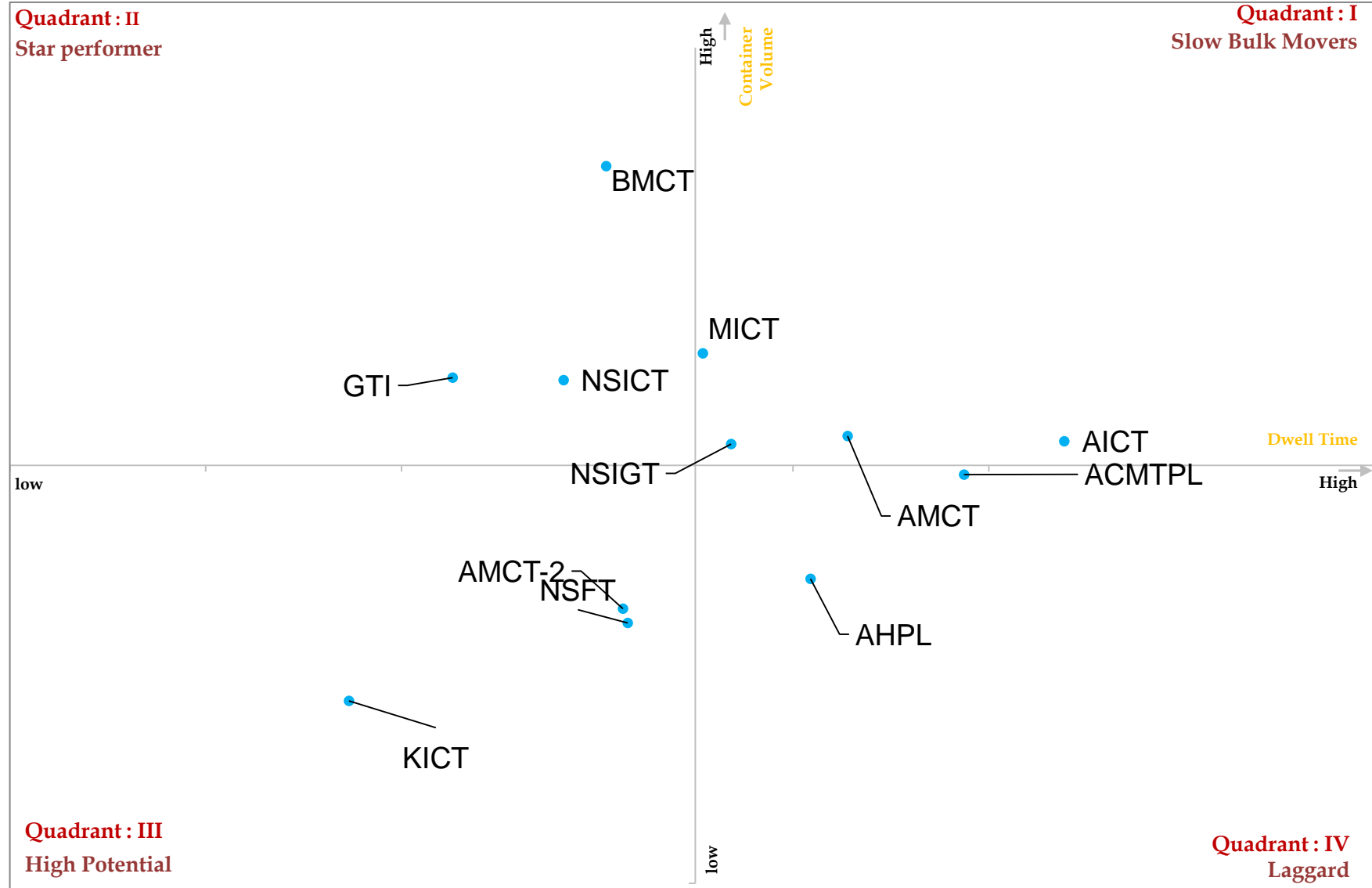
The marked entries showcase Decrease in performance in comparison to Mar'23



Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index - Apr'23



Performance benchmarking for Port Terminals covered under LDB project for Apr'23

Top Performing Terminal

Bharat Mumbai Container Terminal(PSA)

Mar'23	Apr'23
52.6 hrs	53.1 hrs



Low Performing Terminal

Adani CMA Mundra Terminal (ACMTPL)

Mar'23	Apr'23
80.3 hrs	83.7 hrs



Note: The performance benchmarking is based on performance index



The arrows depict increase/Decrease in overall performance of the stakeholders in comparison to Mar'23

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

Container Lifecycle (Import Cycle)

IMPORT

Port Dwell Time

Mode	Mar'23 (in hrs)	Apr'23 (in hrs)
Overall	26.5	29.1
Truck	22.3	25.4
Train	63.7	53.2

Mode	Mar'23 (in hrs)	Spe'22 (in hrs)
Overall	74.0	80.0
Truck	72.4	77.1
Train	86.1	104.6

Transit Time

Towards ICD

Transit Cycle	Mar'23 (in hrs)	Apr'23 (in hrs)
Port to ICD	97.1	90.1
Port to CFS	2.47	2.62

Towards CFS

From ICD

Transit Cycle	Mar'23 (in hrs)	Spe'22 (in hrs)
ICD to Port	113.0	89.3
CFS to Port	6.42	6.46

From CFS

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

Entity	Mar'23 (in hrs)	Apr'23 (in hrs)
CFS	80.6	91.0
ICD	119.4	136.8

Volume distribution at port terminal - Truck/Rail

	Truck	Rail
Import	83%	17%
Export	81%	19%

■ The marked entries showcase the increase in performance as compared to Mar'23

■ The marked entries showcase the decrease in performance as compared to Mar'23

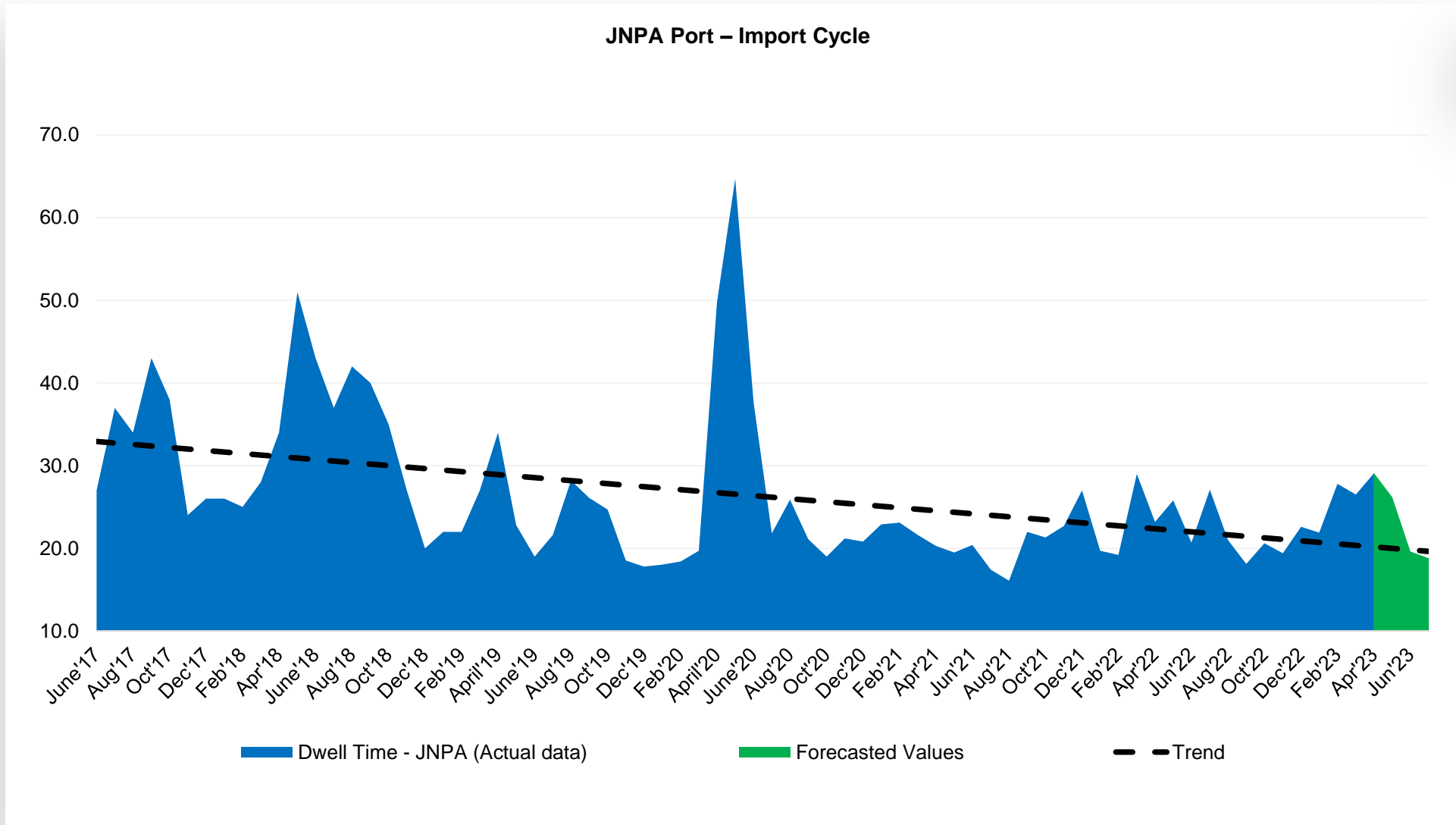
Container Lifecycle (Export Cycle)

Container Transportation- JNPA Port Terminals

IMPORT CYCLE DWELL TIME (Apr'23 - in hrs)			Compared to Mar'23	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	29.1	9.8%	↓
	Port Dwell Time for Truck Bound Containers	25.4	13.9%	↓
	Port Dwell time for Train Bound Containers	53.2	16.5%	↑
	Port Dwell time Direct Port Delivery (DPD) containers	36.4	5.5%	↓
	Port Dwell time Containers bound for CFS	25.5	28.8%	↓
	Port Dwell for Empty Containers	40.1	21.1%	↑
	Port Dwell for Laden Containers	27.4	16.6%	↓
TRANSIT TIME	Port to ICD	90.1	7.2%	↑
	Port to CFS	2.62	6.1%	↓

EXPORT CYCLE DWELL TIME (Apr'23- in hrs)			Compared to Mar'23	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	80.0	8.1%	↓
	Port Dwell Time for Truck Bound Containers	77.1	6.5%	↓
	Port Dwell time for Train Bound Containers	104.6	21.5%	↓
	Port Dwell time Direct Port Entry (DPE) containers	72.2	6.2%	↓
	Port Dwell time Containers bound from CFS	78.7	5.8%	↓
	Port Dwell for Empty Containers	76.6	5.4%	↓
	Port Dwell for Laden Containers	80.8	8.7%	↓
TRANSIT TIME	ICD to Port	89.3	21.0%	↑
	CFS to Port	6.46	0.6%	↓

↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to Mar'23



Observation

Import Cycle

- It has been observed that the overall trend of dwell time is decreasing.
- Due to the cyclic variations in the monthly data it is expected to reach a local minima in Jul'23.



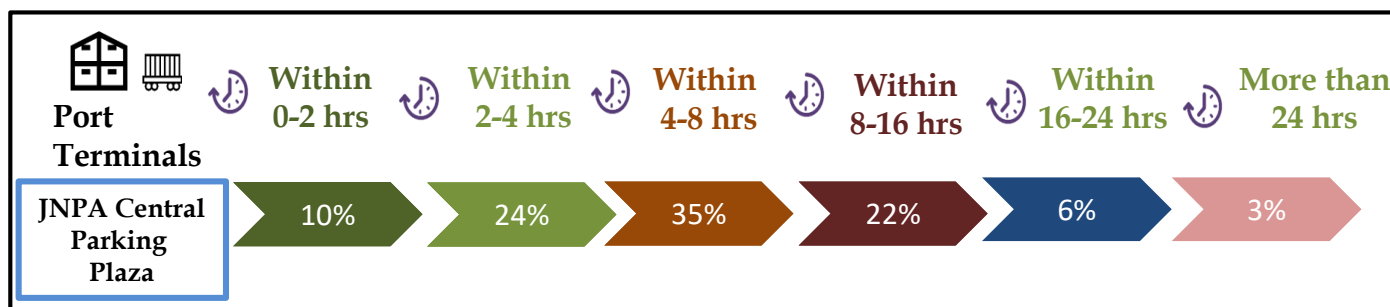
The below table depicts the Parking Plaza & Parking Plaza to Port Transit Performance at JNPA Port Terminals and their volume bifurcation in export cycle



Parking Plaza Gate In - Gate Out

Mode	Mar'23 (in hrs)	Apr'23 (in hrs)
Overall Parking Plaza	5.59	5.49

Container Handled: Day wise (Apr'23)



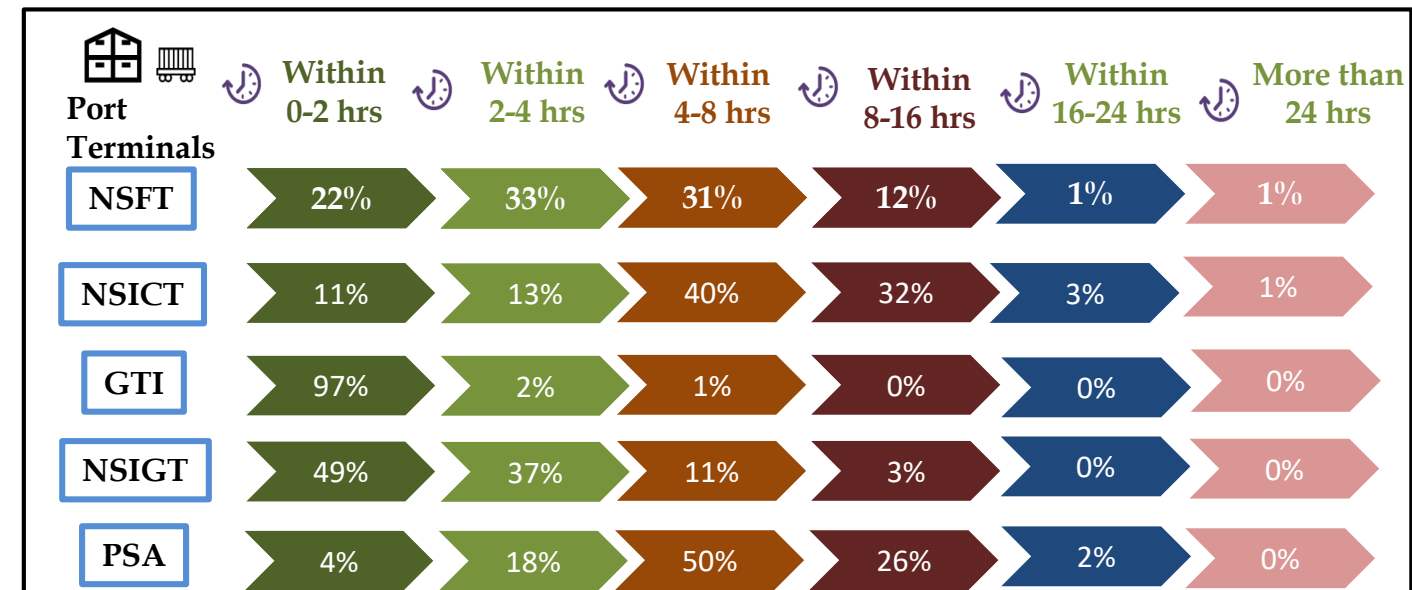
Parking Plaza Gate Out - Terminal In



Mode	Mar'23 (in hrs)	Apr'23 (in hrs)
Overall Parking Plaza to JNPA Port	3.65	4.00

Port	Mar'23 (in hrs)	Apr'23 (in hrs)
NSFT	-	3.4
NSICT	5.3	7.0
GTI	0.4	0.4
NSIGT	1.2	2.0
BMCT	7.8	5.9

Container Handled: Day wise (Apr'23)





Performance Benchmarking



Top Performing CFS

Adani CFS Eximyard, Mundra	
Mar'23	Apr'23
74.8 hrs	85.6 hrs

Low Performing CFS

Take Care Logistics CFS	
Mar'23	Apr'23
106.4 hrs	113.5 hrs

Note: The performance benchmarking is based on performance index
 ↑ ↓ The arrows depict increase/decrease in overall performance of the stakeholders as compared to Jul'22

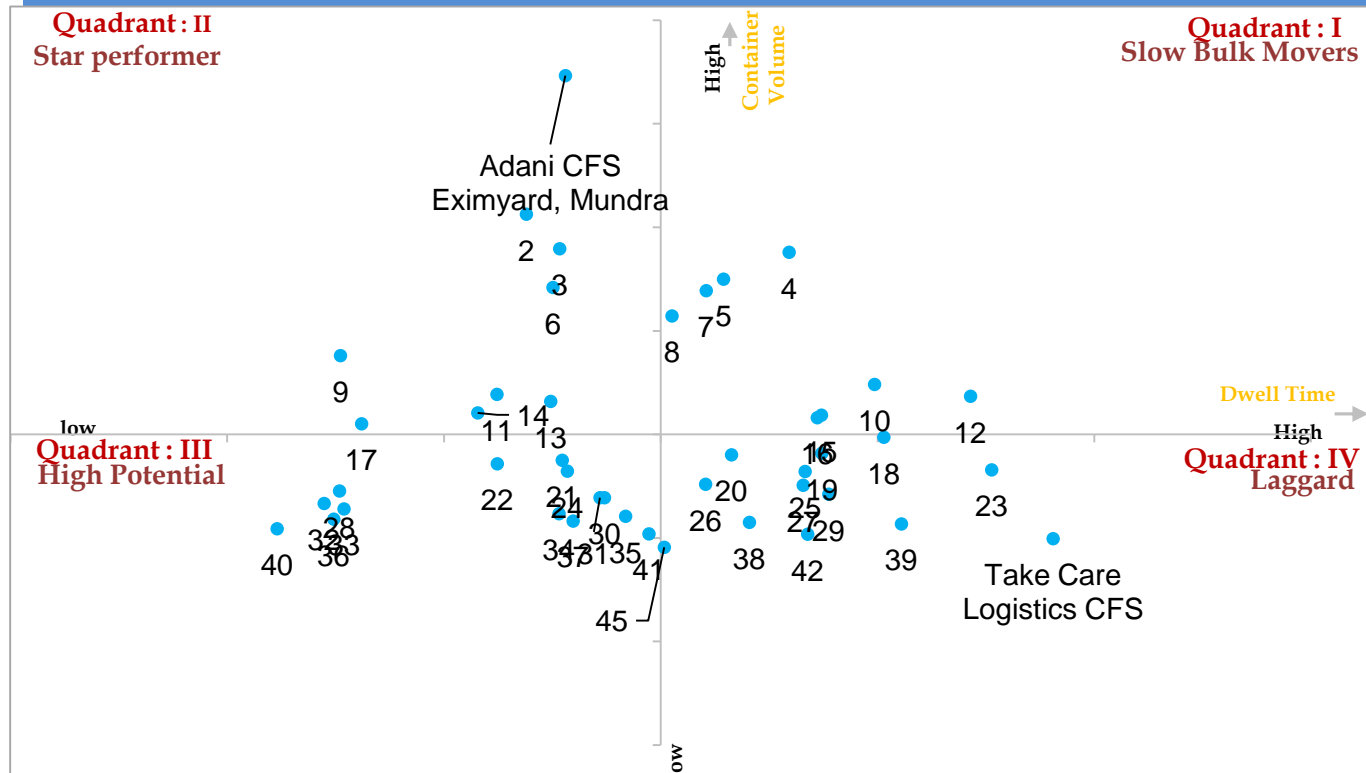
Top Performing ICD

Continental Warehousing Corporation Nhava Sheva pvt.	
Mar'23	Apr'23
132.5 hrs	95.9 hrs

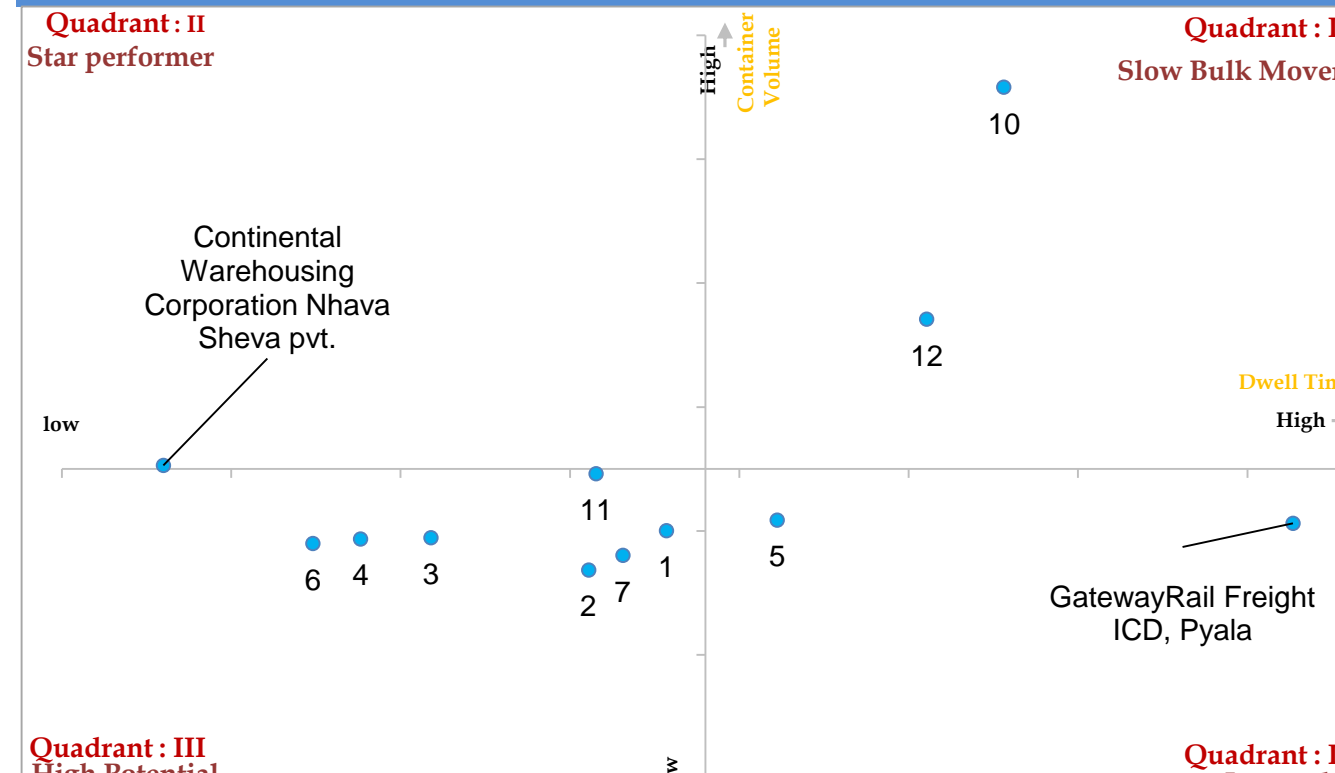
Low Performing ICD

GatewayRail Freight ICD, Pyala	
Mar'23	Apr'23
167.6 hrs	165.2 hrs

Performance Index: Western Corridor CFS



Performance Index: ICD



Kindly refer to Annexure section for the names of CFS

Import Cycle Analysis

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

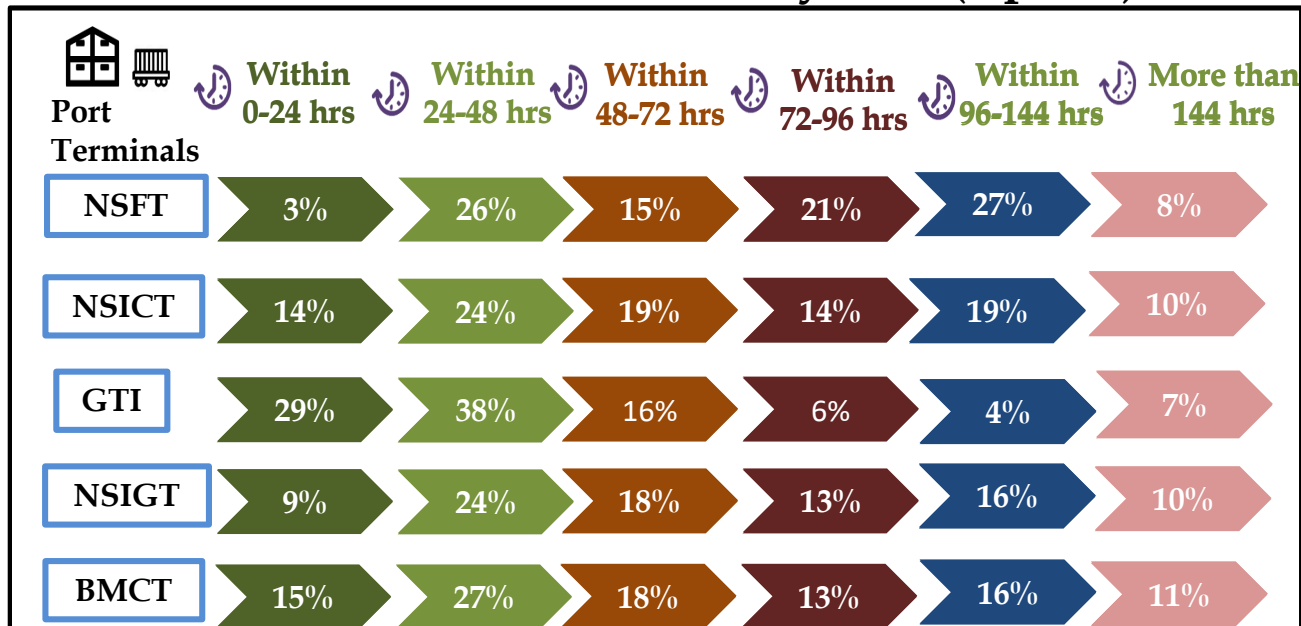
PORT IMPORT via TRAIN

(17% of total import volume at JNPA 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	Mar'23 (in hrs)	Apr'23 (in hrs)
NSFT	-	78.2
NSICT	58.3	61.8
GTI	51.5	33.8
NSIGT	65.5	70.2
BMCT	87.5	56.7

Container Handled: Day wise (Apr'23)



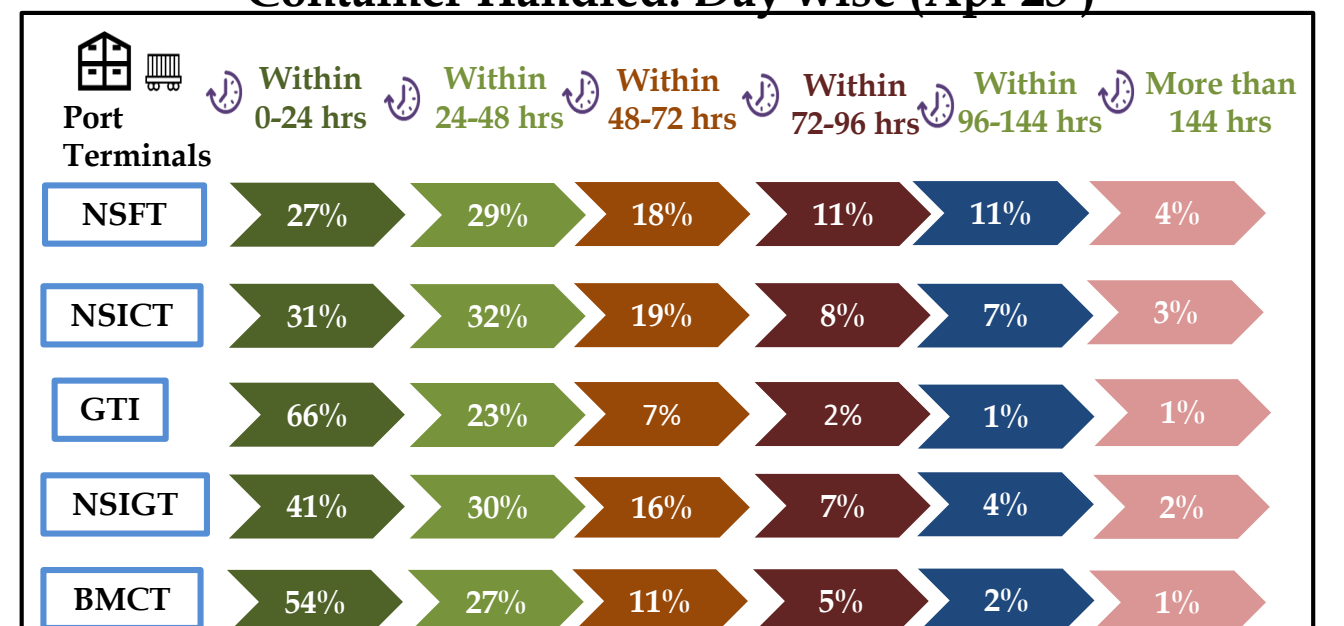
PORT IMPORT via TRUCK

(83% of total import volume at JNPA 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	Mar'23 (in hrs)	Apr'23 (in hrs)
NSFT	-	41.7
NSICT	32.1	37.3
GTI	14.9	16.6
NSIGT	22.7	30.0
BMCT	23.9	22.0

Container Handled: Day wise (Apr'23)



The below tables depict the detailed JNPA region port performance in the month of Apr'23

NSFT		
Port Dwell time based on transit type		
Mar'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	62.0 hrs	37.1 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	39.4 hrs	67.4 hrs

GTI		
Port Dwell time based on transit type		
Mar'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	31.2 hrs	17.2 hrs
Port Dwell time based on transit type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	19.2 hrs	27.2 hrs

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the detailed JNPA region port performance in the month of Apr'23

NSICT		
Port Dwell time based on transit type		
Mar'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	62.9 hrs	37.4 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	39.1 hrs	41.9 hrs

NSIGT		
Port Dwell time based on transit type		
Mar'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	59.8 hrs	30.4 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	32.8 hrs	46.8 hrs

BMCT		
Port Dwell time based on transit type		
Mar'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	30.1 hrs	22.3 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	24.8 hrs	29.8 hrs

JNPA Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPA region in Import Cycle in month of Apr'23



Clusters with bottleneck

CLUSTER 1	JNPA Area
-----------	-----------

Clusters without bottleneck

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

Legends

- High Congestion (Red line)
- Medium Congestion (Green line)
- Low Congestion (Pink line)
- Cluster with bottleneck (Orange star)
- Cluster without bottleneck (Blue star)

GTI Terminal

Congestion Level
Import Cycle :- [Red bar]

NSFT Terminal

Congestion Level
Import Cycle :- [Red bar]

NSICT Terminal

Congestion Level
Import Cycle :- [Red bar]

NSIGT Terminal

Congestion Level
Import Cycle :- [Red bar]

BMCT Terminal

Congestion Level
Import 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

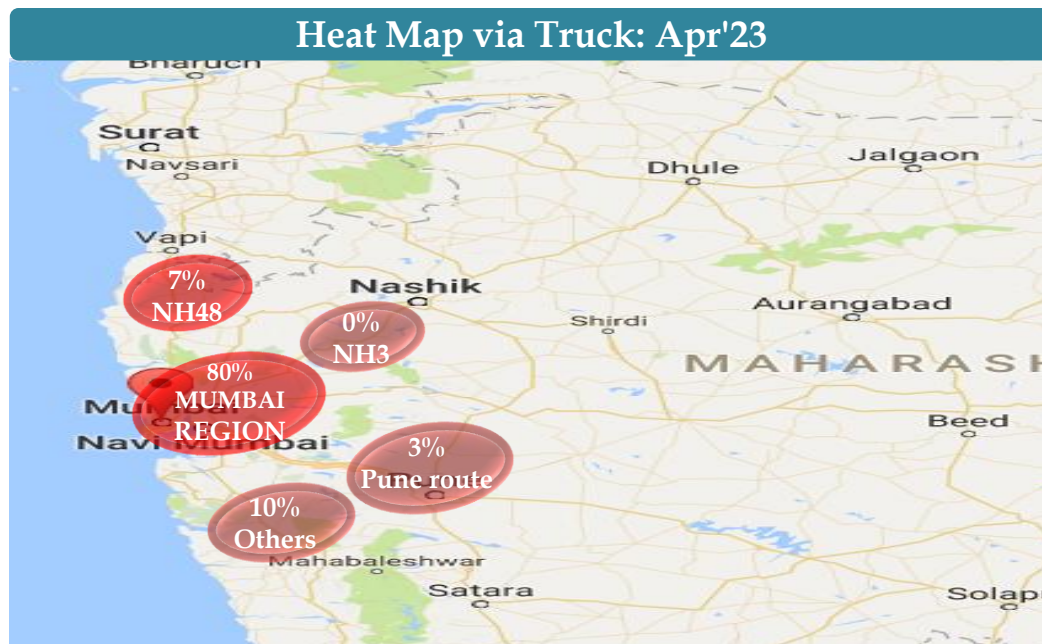
The below table and graphs depict the container movement across JNPA port region in Import cycle

Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Apr'23
Mumbai region	80%
NH3	0%
Pune	3%
NH48	7%
others	10%

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

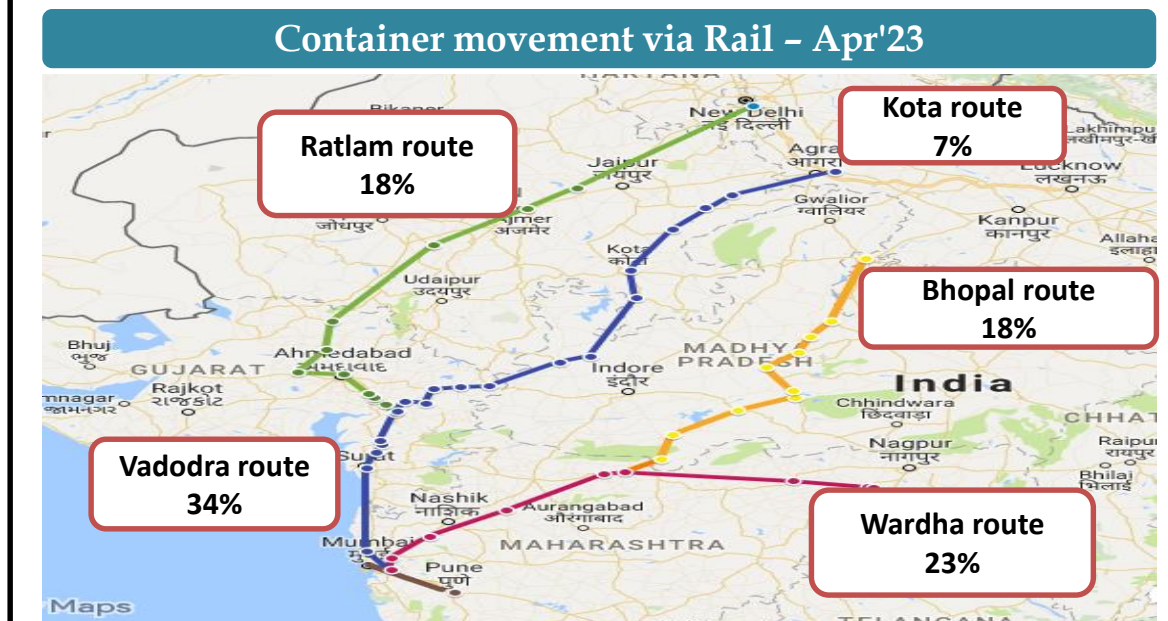


Train

VOLUME WISE CONTAINER MOVEMENT

Region	Apr'23
Vadodra Route	34%
Ratlam Route	18%
Wardha Route	23%
Kota Route	7%
Bhopal Route	18%

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



Avg. Speed between Toll to Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Mar'23 (in km/hrs)	Apr'23 (in km/hrs)
JNPA	JNPA	Khaniwade	94	15.8	14.8
	JNPA	Khalapur	60	-	8.2
	Khaniwade	Charoti	50	37.7	36.7
	Charoti	Boriach	126	24.6	23.8
	Boriach	Bharthan	142	32.9	31.0
	Bharthan	Vasad	60	37.4	37.7
	Khalalpur	Khedshivpur	105	-	32.8



Export Cycle Analysis

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

PORT EXPORT via TRAIN

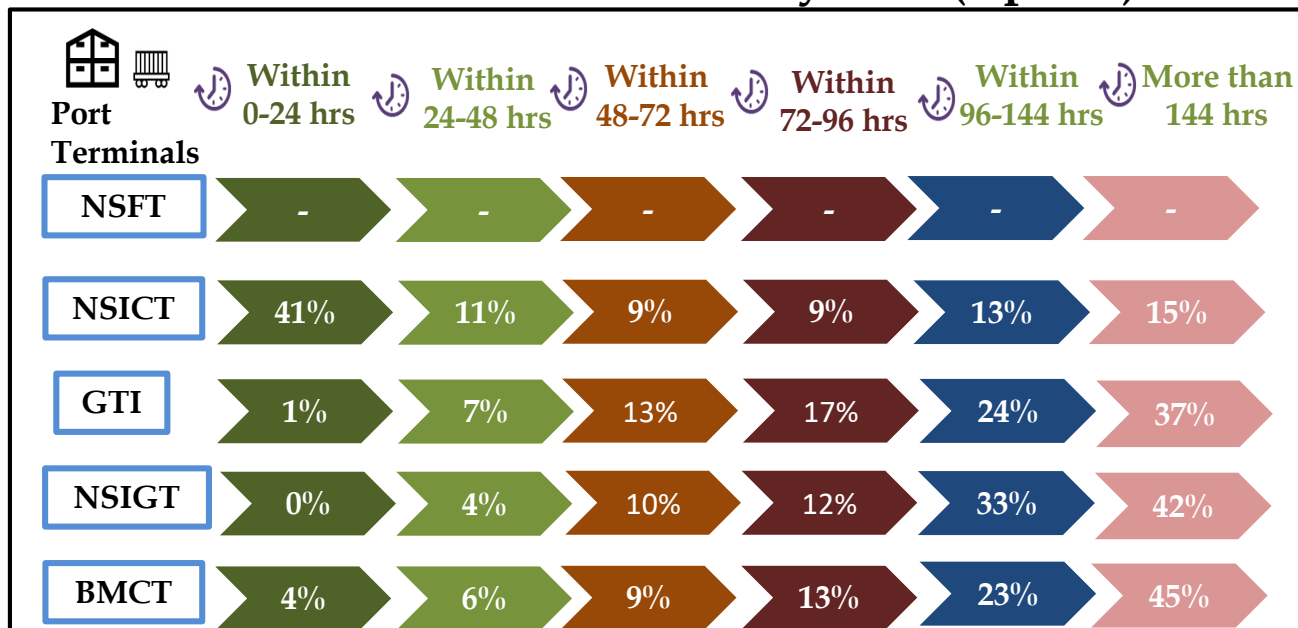
(19% of total export volume at JNPA Port)

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	Mar'23 (in hrs)	Apr'23 (in hrs)
NSICT	37.4	40.4
GTI	109.5	115.9
NSIGT	111.6	130.4
BMCT	90.0	131.9

Due to low volume count NSFT rai bound container analysis has been removed.

Container Handled: Day wise (Apr'23)



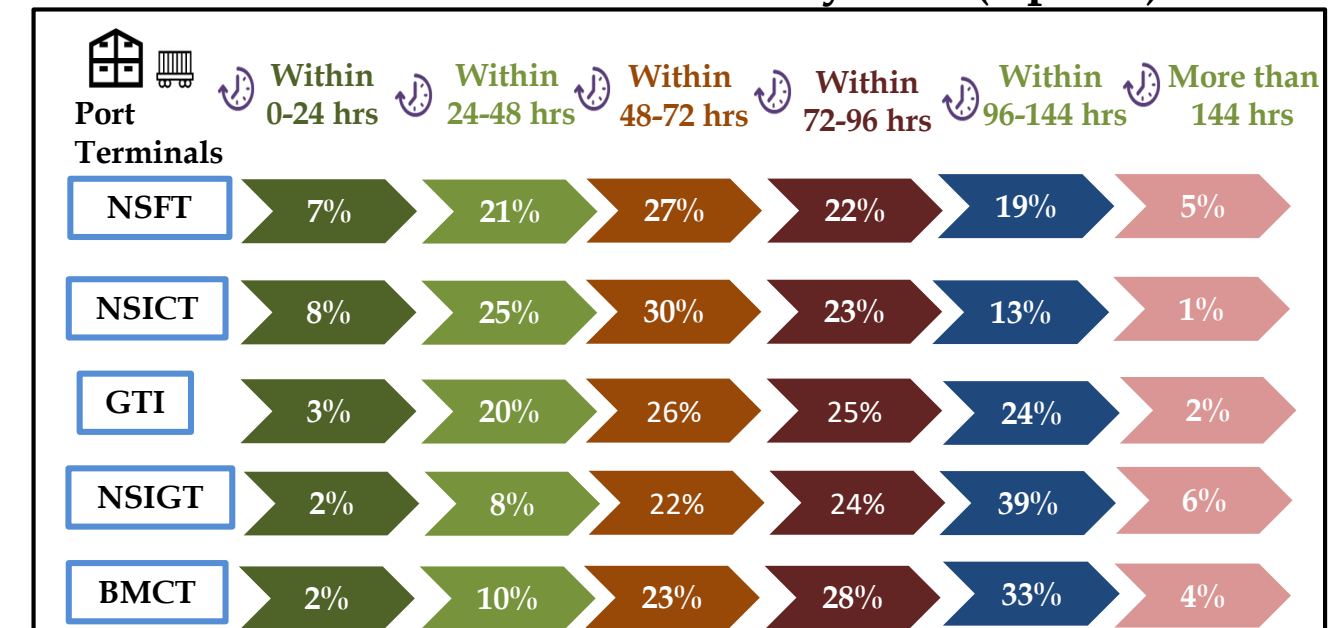
PORT EXPORT via TRUCK

(81% of total export volume at JNPA 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	Mar'23 (in hrs)	Apr'23 (in hrs)
NSFT	-	68.3
NSICT	64.2	61.1
GTI	69.3	72.5
NSIGT	81.2	90.5
BMCT	75.5	84.9

Container Handled: Day wise (Apr'23)



The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPA port for Apr'23

NSFT		
Port Dwell time based on transit type		
Mar'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	67.3 hrs	65.0 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	69.0 hrs	65.8 hrs

GTI		
Port Dwell time based on transit type		
Mar'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.4 hrs	76.7 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	77.5 hrs	79.8 hrs

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPA port for Apr'23

NSICT		
Port Dwell time based on transit type		
Mar'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	61.0 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	59.8 hrs	53.9 hrs

NSIGT		
Port Dwell time based on transit type		
Mar'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	95.7 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	96.2 hrs	83.2 hrs

BMCT		
Port Dwell time based on transit type		
Mar'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	83.8 hrs
Port Dwell time based on container type		
Mar'23	Laden Containers	Empty Containers
Dwell time (in hrs)	91.1 hrs	82.1 hrs

JNPA Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPA region in Export Cycle in month of Apr'23



Clusters with bottleneck	
CLUSTER 1	JNPA Area
Clusters without bottleneck	
CLUSTER 2	Bhendkhal area, khopate road
CLUSTER 3	Sonari area, JNPA road
CLUSTER 4	Chirle area, JNPA road
CLUSTER 5	Plaspa area, Coach kanyakumari Highway
CLUSTER 6	Salva apta rd area, Bangalore highway
CLUSTER 7	Patilpada area, Khopate JNPA road
CLUSTER 8	Taloja, Navi Mumbai

Legends

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

GTI Terminal

Congestion Level
Export Cycle :-

NSFT Terminal

Congestion Level
Export Cycle :-

NSICT Terminal

Congestion Level
Export Cycle :-

NSIGT Terminal

Congestion Level
Export Cycle :-

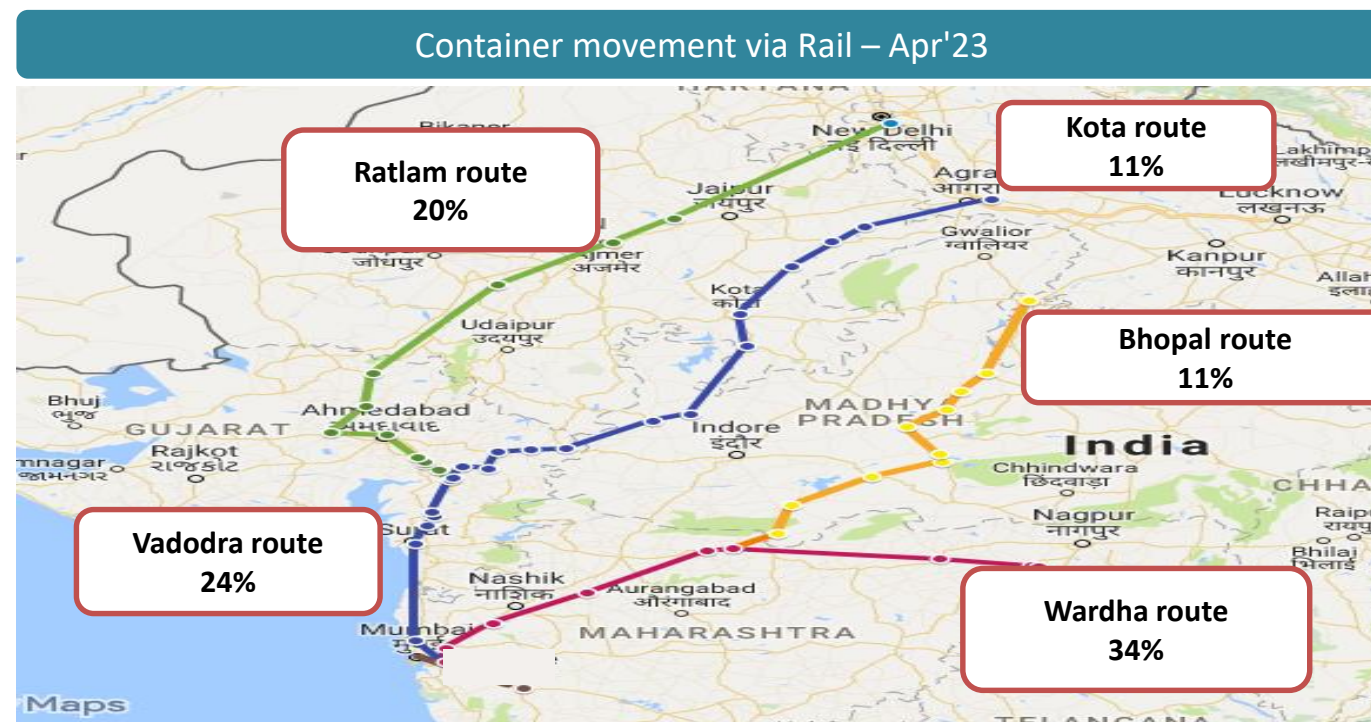
BMCT Terminal

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

JNPA Port	
Route	Percentage of Container Movement
Vadodra Route	24%
Ratlam Route	20%
Wardha Route	34%
Kota Route	11%
Bhopal Route	11%

The map shows the volume wise container movement through different railway routes in export cycle for Apr'23



CFS and ICD Performance

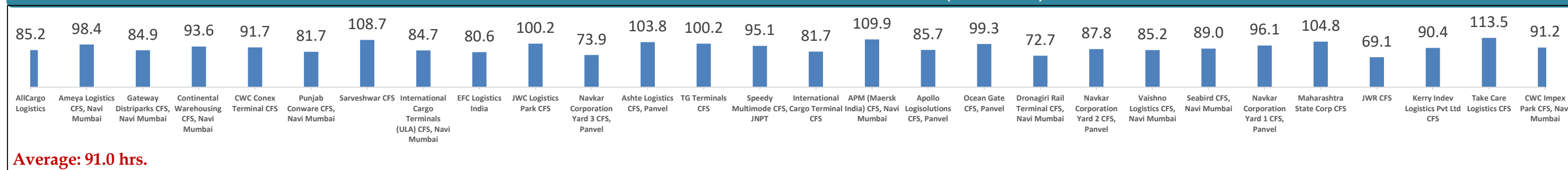
JNPA region CFS : CFS DWELL TIME ANALYSIS

Below table and graphs show the dwell time of the respective CFSs for the month of Apr'23

CFS Dwell Time (in hrs.)

CFS	Mar'23 (in hrs)	Apr'23 (in hrs)	CFS	Mar'23 (in hrs)	Apr'23 (in hrs)
AllCargo Logistics	77.5	85.25	International Cargo Terminal CFS	65.2	81.69
Ameya Logistics CFS, Navi Mumbai	85	98.37	APM (Maersk India) CFS, Navi Mumbai	90.2	109.94
Gateway Distriparks CFS, Navi Mumbai	75.4	84.87	Apollo Logisolutions CFS, Panvel	83.8	85.70
Continental Warehousing CFS, Navi Mumbai	79.3	93.62	Ocean Gate CFS, Panvel	93.4	99.29
CWC Conex Terminal CFS	87.4	91.67	Dronagiri Rail Terminal CFS, Navi Mumbai	65.1	72.67
Punjab Conware CFS, Navi Mumbai	81.7	81.66	Navkar Corporation Yard 2 CFS, Panvel	86.7	87.82
Sarveshwar CFS	108.1	108.73	Vaishno Logistics CFS, Navi Mumbai	82.6	85.21
International Cargo Terminals (ULA) CFS, Navi Mumbai	73.4	84.75	Seabird CFS, Navi Mumbai	73.8	89.03
EFC Logistics India	69.3	80.58	Navkar Corporation Yard 1 CFS, Panvel	88.9	96.10
JWC Logistics Park CFS	85.1	100.22	Maharashtra State Corp CFS	-	104.78
Navkar Corporation Yard 3 CFS, Panvel	66.2	73.93	JWR CFS	-	69.11
Ashte Logistics CFS, Panvel	84.5	103.78	Kerry Indev Logistics Pvt Ltd CFS	-	90.36
TG Terminals CFS	78.4	100.24	Take Care Logistics CFS	106.4	113.46
Speedy Multimode CFS, JNPT	81.8	95.07	CWC Impex Park CFS, Navi Mumbai	62.2	91.22

CFS - DWELL OVERVIEW - APR'23 (IN HRS)

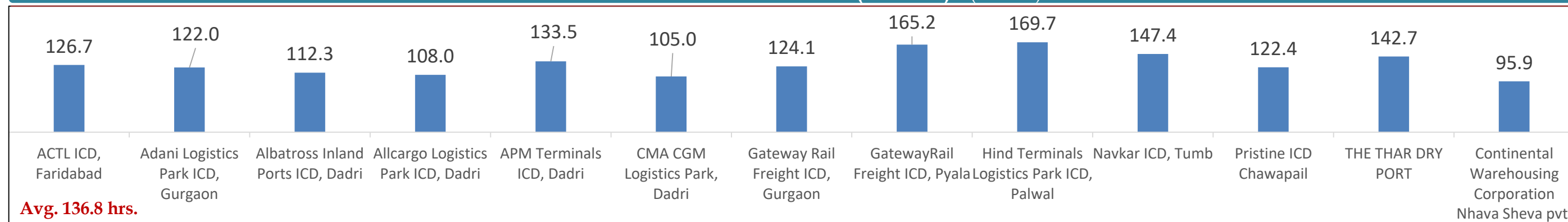


ICD DWELL TIME ANALYSIS

The table below depicts the dwell time of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Mar'23 (in hrs)	Apr'23 (in hrs)
ACTL ICD, Faridabad	131.1	126.7
Adani Logistics Park ICD, Gurgaon	124.9	122.0
Albatross Inland Ports ICD, Dadri	116.0	112.3
Allcargo Logistics Park ICD, Dadri	115.4	108.0
APM Terminals ICD, Dadri	165.2	133.5
CMA CGM Logistics Park, Dadri	106.3	105.0
Gateway Rail Freight ICD, Gurgaon	125.6	124.1
GatewayRail Freight ICD, Pyala	167.6	165.2
Hind Terminals Logistics Park ICD, Palwal	157.6	169.7
Navkar ICD, Tumb	180.5	147.4
Pristine ICD Chawapail , Ludhiana	136.0	122.4
The Thar Dry Port	145.8	142.7
Continental Warehousing Corporation Nhava Sheva pvt.	-	95.9

ICD - DWELL OVERVIEW (APR'23) (In Hrs)

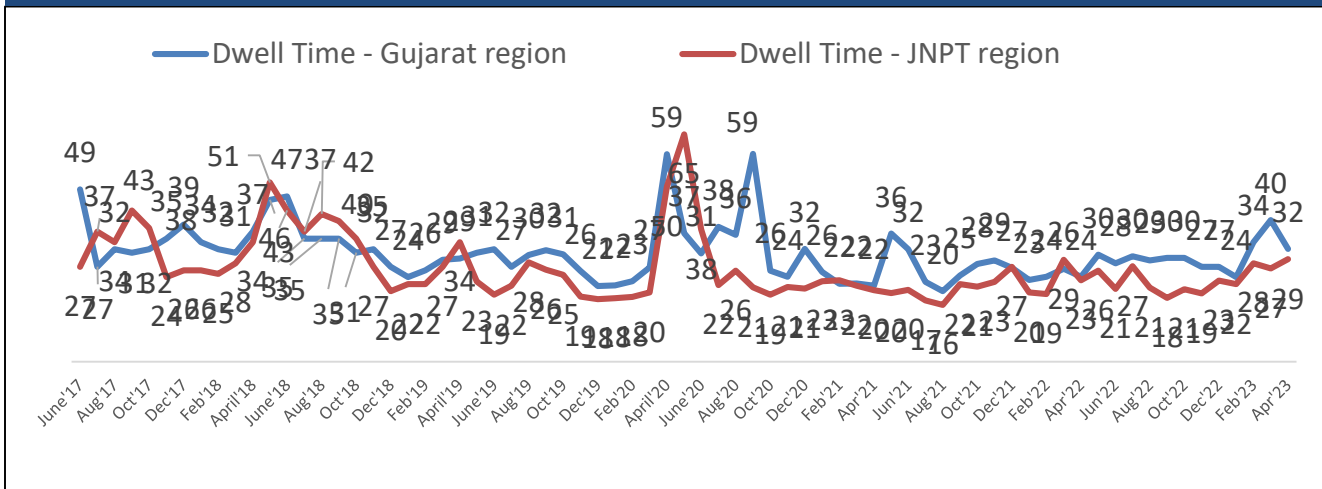


Trend Analysis

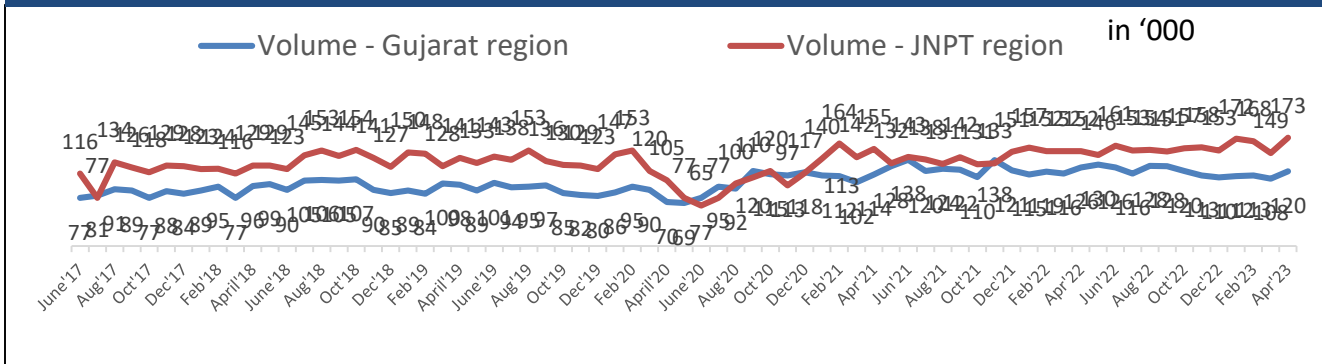
Container Volume and Dwell time of all the terminals in JNPA and Mundra Port has been analysed until Apr'23

Import Cycle

Dwell Time – Mundra Region Vs JNPA Region



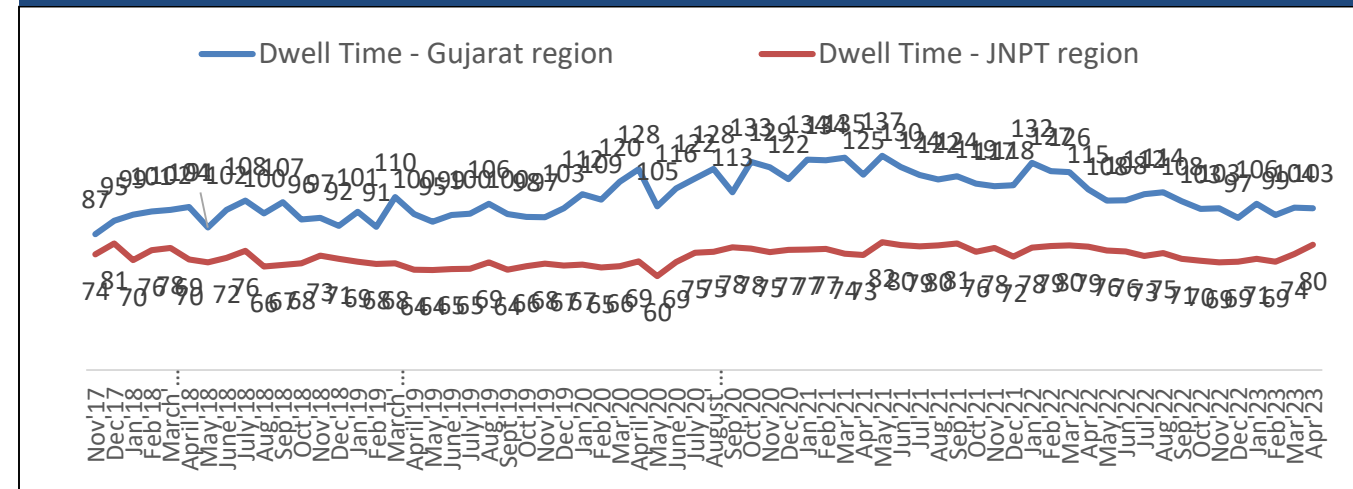
Volume – Mundra Region Vs JNPA Region



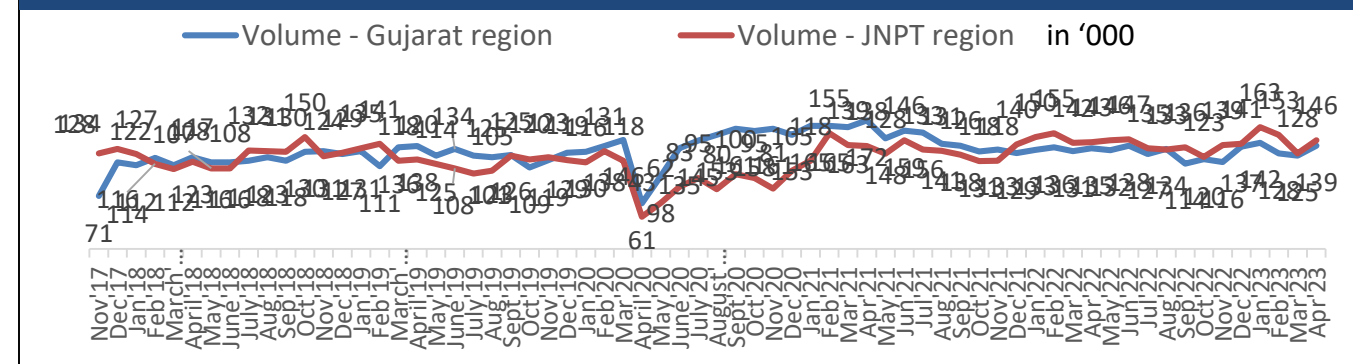
In Import cycle, for the month of Apr'23 Mundra port has catered 31.1% less volume than JNPA Port, and has performed with 10.3% higher dwell time than JNPA Port.

Export Cycle

Dwell Time – Mundra Region Vs JNPA Region



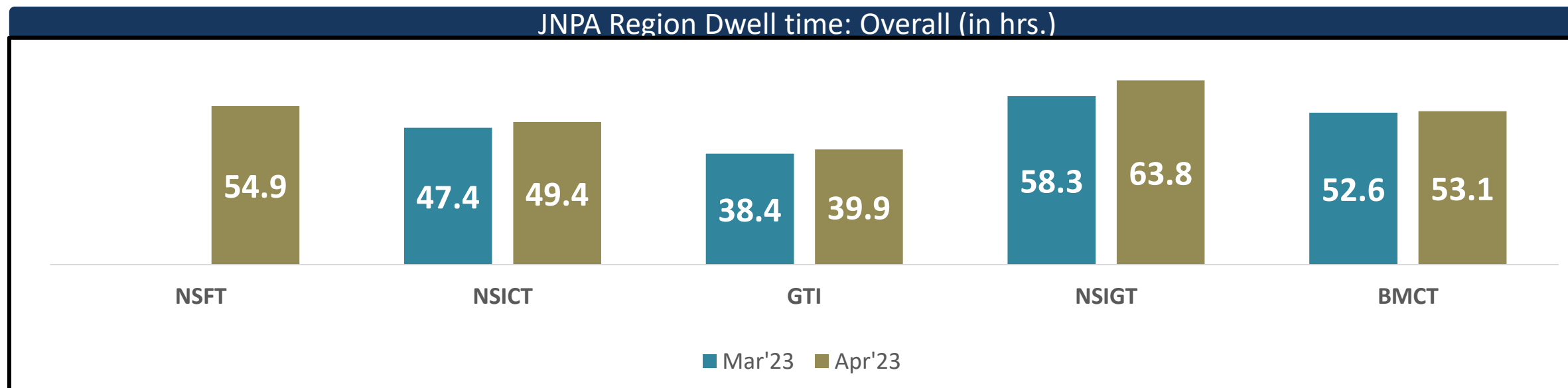
Volume – Mundra Region Vs JNPA Region



In Export cycle, for the month Apr'23 JNPA port catered 5.2% high volume than Mundra Port, and has maintained 22.4% lower dwell time than Mundra Port

JNPA 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 JNPA 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

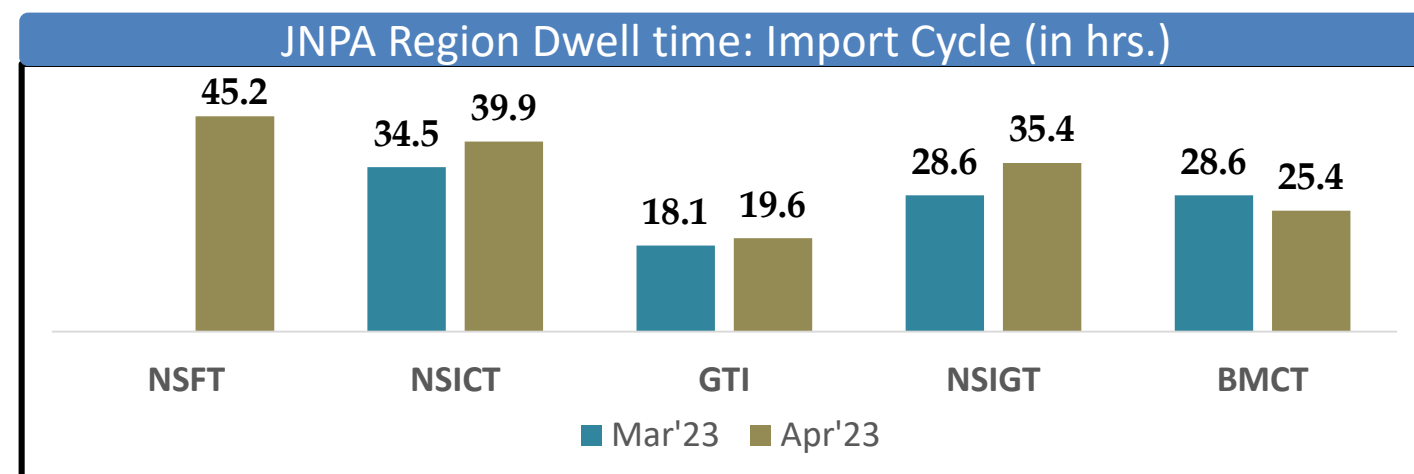


The overall JNPA region average dwell time for Apr'23 is 51.2 hrs as compared to 48.9 hrs in Mar'23

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of Apr'23

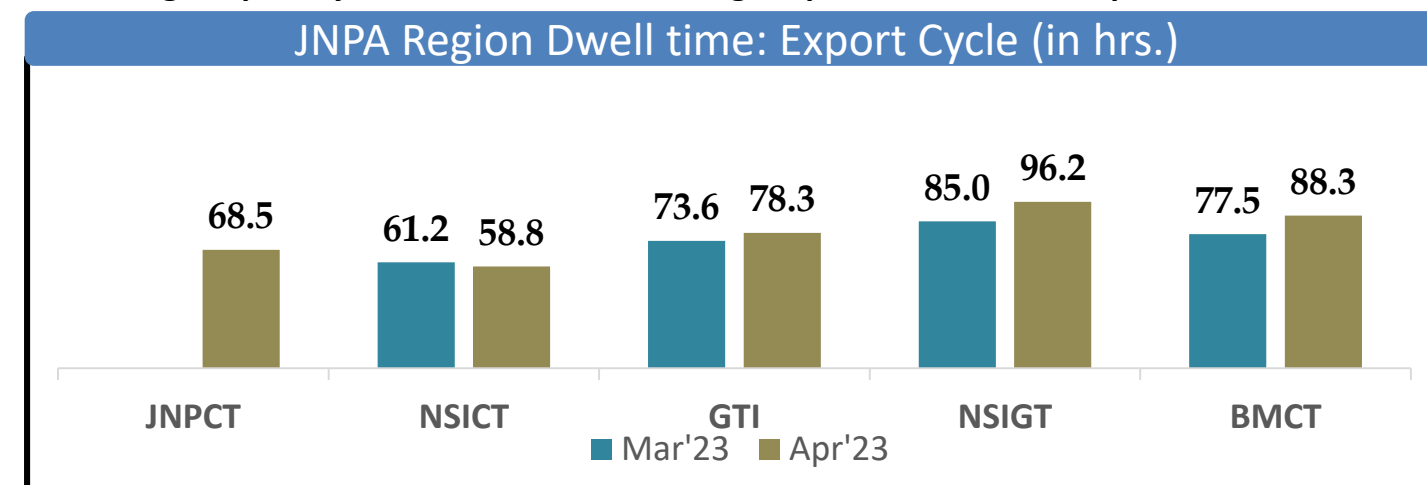
JNPA Import cycle Trend

The average import cycle dwell time of JNPA region port terminals for Apr'23 is 29.1 hrs.



JNPA Export cycle Trend

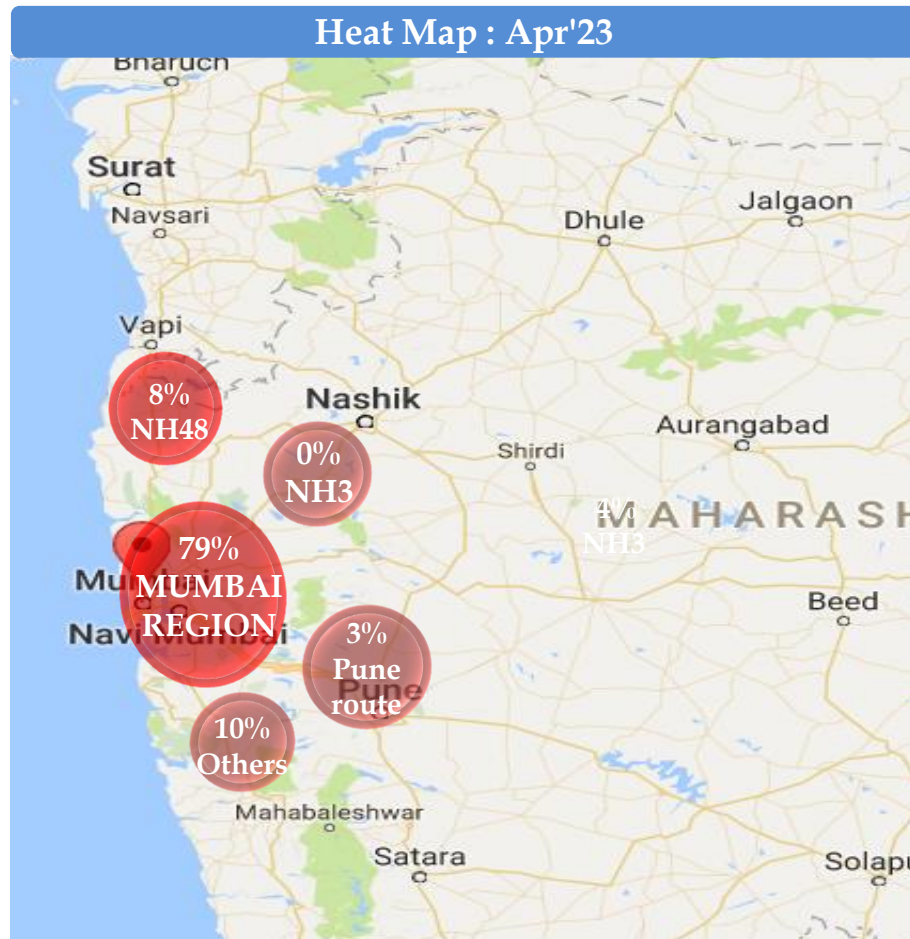
The average export cycle dwell time of JNPA region port terminals for Apr'23 is 80.0 hrs.



ANNEXURE

Container movement around JNPA Port terminal region via Truck

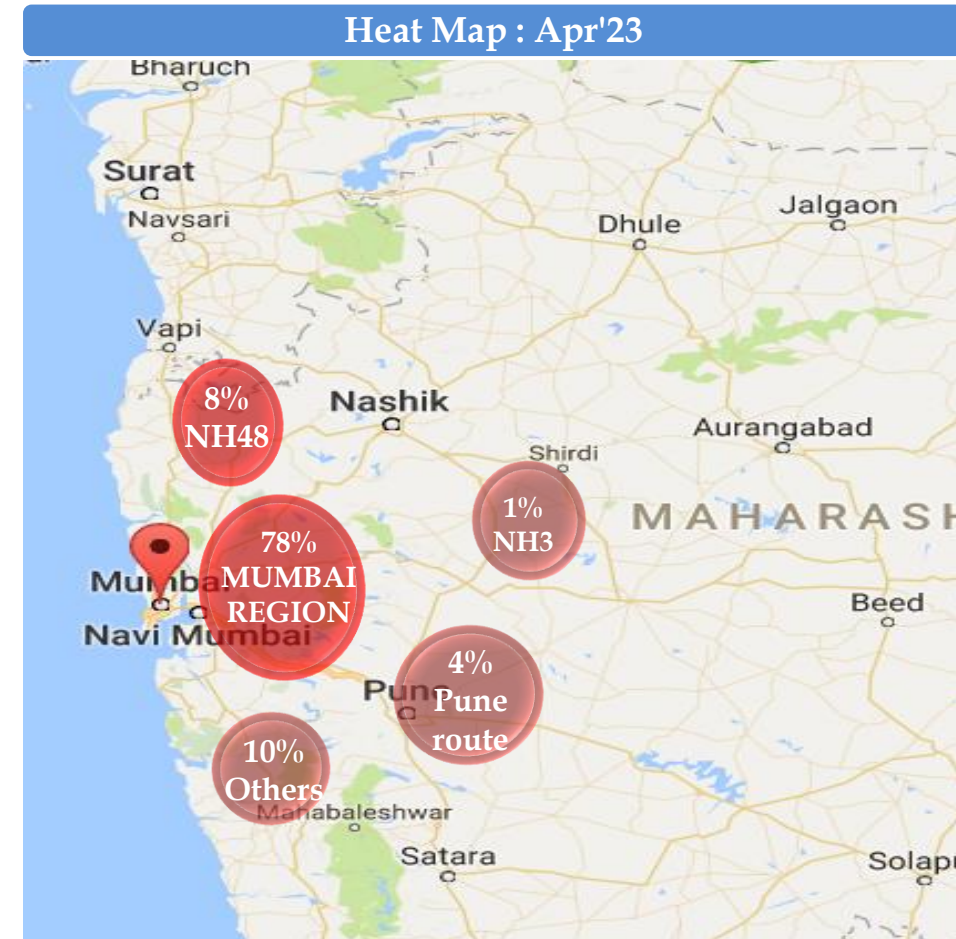
HEAT MAP : GTI Port Terminal



Region	Mar'23	Apr'23
Mumbai region	78%	79%
NH3	0%	0%
Pune	4%	3%
NH48	8%	8%
others	10%	10%

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

HEAT MAP : NSFT Port Terminal

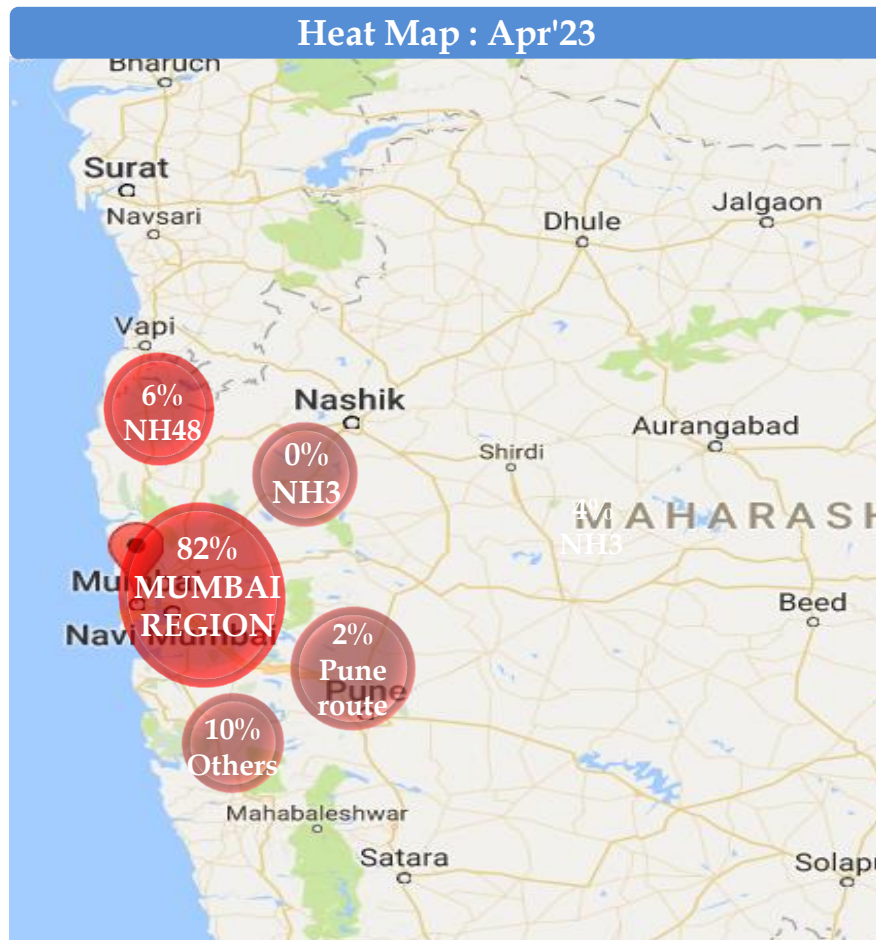


Region	Mar'23	Apr'23
Mumbai region	-	78%
NH3	-	1%
Pune	-	4%
NH48	-	7%
others	-	10%

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

Container movement around JNPA Port terminal region via Truck

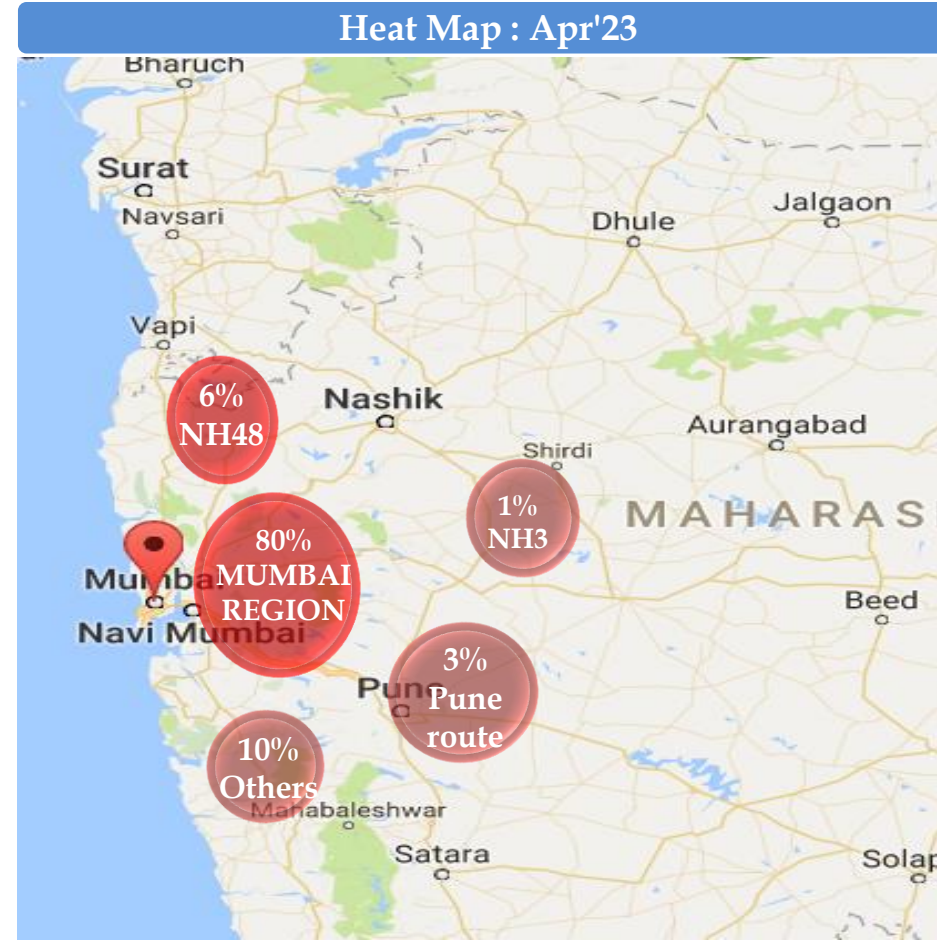
HEAT MAP : NSIGT Port Terminal



Region	Mar'23	Apr'23
Mumbai region	84%	82%
NH3	0%	0%
Pune	2%	2%
NH48	4%	6%
others	10%	10%

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

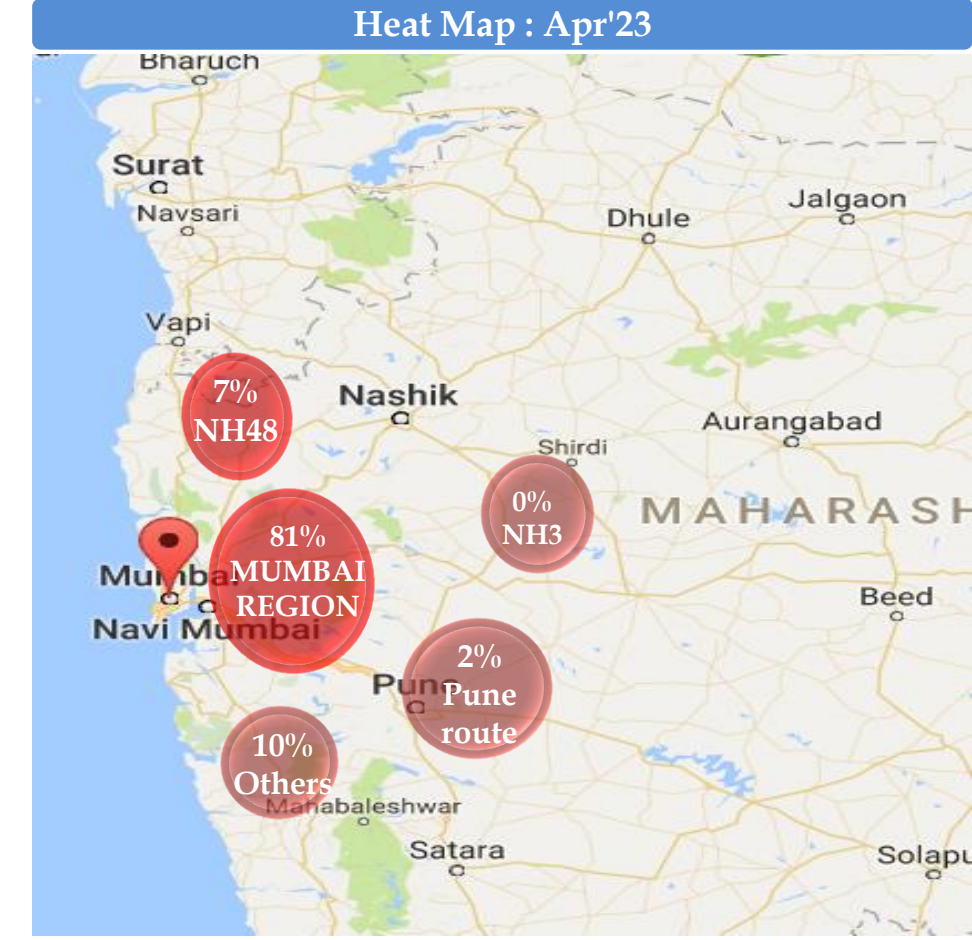
HEAT MAP : NSICT Port Terminal



Region	Mar'23	Apr'23
Mumbai region	81%	80%
NH3	1%	1%
Pune	2%	3%
NH48	6%	6%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Mar'23	Apr'23
Mumbai region	84%	81%
NH3	0%	0%
Pune	2%	2%
NH48	4%	7%
others	10%	10%

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

CFS Delivery Time Analysis – All CFS in Mumbai to JNPA Port

Below table shows the delivery time in export cycle from the CFS's to PORT terminals

CFS Out - Port In (Export Cycle) - Apr'23 (in hrs)

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	5.7	5.4	9.0	3.3	6.7
Punjab Conware CFS, Navi Mumbai	4.7	4.0	6.6	3.3	6.5
JWC Logistics Park CFS	5.6	1.8	8.7	4.2	8.0
Dronagiri Rail Terminal CFS, Navi Mumbai	4.6	1.5	6.8	3.3	7.3
Navkar Corporation Yard 2 CFS, Panvel	7.6	5.5	12.0	5.9	10.5
Vaishno Logistics CFS, Navi Mumbai	5.5	2.7	7.6	3.6	6.5
Speedy Multimode CFS, JNPT	5.6	1.9	7.2	2.8	6.8
Navkar Corporation Yard 3 CFS, Panvel	6.4	5.3	9.8	4.8	8.3
Ashte Logistics CFS, Panvel	4.5	2.8	7.7	5.1	7.6
Continental Warehousing CFS, Navi Mumbai	3.9	4.5	5.5	2.8	5.0
SBW Logistics CFS, Navi Mumbai	-	4.1	12.9	-	10.1
Maharashtra State Corp CFS	4.7	1.2	7.7	3.3	6.9
International Cargo Terminal CFS	5.5	1.8	7.1	3.2	6.9
Seabird CFS, Navi Mumbai	6.7	2.4	9.2	3.5	7.7
Apollo Logisolutions CFS, Panvel	5.5	2.4	8.1	3.5	8.7
Ameya Logistics CFS, Navi Mumbai	5.7	1.8	10.1	3.6	7.1
AllCargo Logistics	6.7	2.9	9.2	3.9	6.9
Ocean Gate CFS, Panvel	4.8	2.1	9.4	4.8	8.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	5.5	15.5	8.8	4.4	6.9
Kerry Indev Logistics Pvt Ltd CFS	4.8	3.5	8.0	4.5	6.9
APM (Maersk India) CFS, Navi Mumbai	3.7	1.5	8.4	3.4	6.0

CFS Delivery Time Analysis – JNPA Terminals to CFS

Below table shows the delivery time in import cycle from the PORT terminals to CFS's

Port Out - CFS In (Import Cycle) - Apr'23 (in hrs)

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.2	2.3	2.4	2.2	2.4
APM (Maersk India) CFS, Navi Mumbai	2.0	2.5	2.0	2.1	2.1
International Cargo Terminal CFS	1.6	1.6	1.8	1.7	1.7
Ameya Logistics CFS, Navi Mumbai	2.7	2.9	2.8	2.7	2.8
AllCargo Logistics	2.7	3.0	3.1	2.9	3.0
Kerry Indev Logistics Pvt Ltd CFS	2.7	2.6	3.0	3.6	3.1
Navkar Corporation Yard 3 CFS, Panvel	2.3	2.9	3.4	3.2	3.2
Seabird CFS, Navi Mumbai	2.5	2.4	3.2	3.1	2.8
Ashte Logistics CFS, Panvel	2.4	2.6	2.4	2.1	2.6
Continental Warehousing CFS, Navi Mumbai	1.5	1.8	1.6	1.5	1.7
Dronagiri Rail Terminal CFS, Navi Mumbai	4.4	1.9	1.7	3.3	2.0
Navkar Corporation Yard 1 CFS, Panvel	3.0	3.3	3.3	2.9	4.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.4	4.3	4.2	3.8	4.4
Maersk Annex (APM)CFS, Navi Mumbai	2.7	3.3	2.0	3.2	1.9
Speedy Multimode CFS, JNPT	1.5	1.7	1.6	1.5	1.5
Apollo Logisolutions CFS, Panvel	3.1	3.5	5.9	4.7	3.8
Navkar Corporation Yard 2 CFS, Panvel	3.0	2.8	3.5	3.1	3.8
Punjab Conware CFS, Navi Mumbai	1.7	2.0	1.9	1.6	1.8
Vaishno Logistics CFS, Navi Mumbai	2.7	2.1	2.4	1.9	2.9
JWC Logistics Park CFS	2.2	2.6	3.0	2.4	2.7
SBW Logistics CFS, Navi Mumbai	7.5	3.8	4.3	2.3	3.4
Ocean Gate CFS, Panvel	3.2	3.0	3.0	2.7	3.0
Maharashtra State Corp CFS	2.6	2.4	2.2	1.6	1.7

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 NSFT terminal

CFS Cluster : GTI Terminal

GTI terminal for month of Apr'23				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	1.9
Cluster 2	6	13	-	-
Cluster 3	6	11	2.2	1.9
Cluster 4	1	13	2.1	2.7
Cluster 5	2	25	2.8	1.9
Cluster 6	6	25	2.8	3.5
Cluster 7	4	12	2.9	2.9
Cluster 8	1	34	3.8	4.1

CFS Cluster : NSFT Terminal

NSFT terminal for month of Apr'23				
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	5.6
Cluster 2	6	13	-	-
Cluster 3	6	11	2.5	4.7
Cluster 4	1	13	2.7	5.5
Cluster 5	2	25	2.7	5.2
Cluster 6	6	25	2.8	5.5
Cluster 7	4	12	2.7	5.7
Cluster 8	1	34	7.5	-

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**

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

CFS Cluster : NSIGT Terminal

CFS Cluster : BMCT Terminal

NSICT terminal for month of Apr'23

NSIGT terminal for month of Apr'23

BMCT terminal for month of Apr'23

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	7.2
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	7.2
Cluster 4	1	13	2.4	7.6
Cluster 5	2	25	3.0	9.1
Cluster 6	6	25	3.4	8.1
Cluster 7	4	12	2.8	9.2
Cluster 8	1	34	4.3	12.9

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	1.5	2.8
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	3.3
Cluster 4	1	13	1.9	3.6
Cluster 5	2	25	2.5	4.5
Cluster 6	6	25	3.1	4.8
Cluster 7	4	12	2.7	3.6
Cluster 8	1	34	2.3	-

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	6.8
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	7.1
Cluster 4	1	13	2.9	6.5
Cluster 5	2	25	2.8	8.3
Cluster 6	6	25	3.5	8.3
Cluster 7	4	12	2.8	6.9
Cluster 8	1	34	3.4	10.1

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**

The below tables depict the Port Dwell Time Performance at JNPA Port for Train bound containers in Import Cycle based on the next destination city:

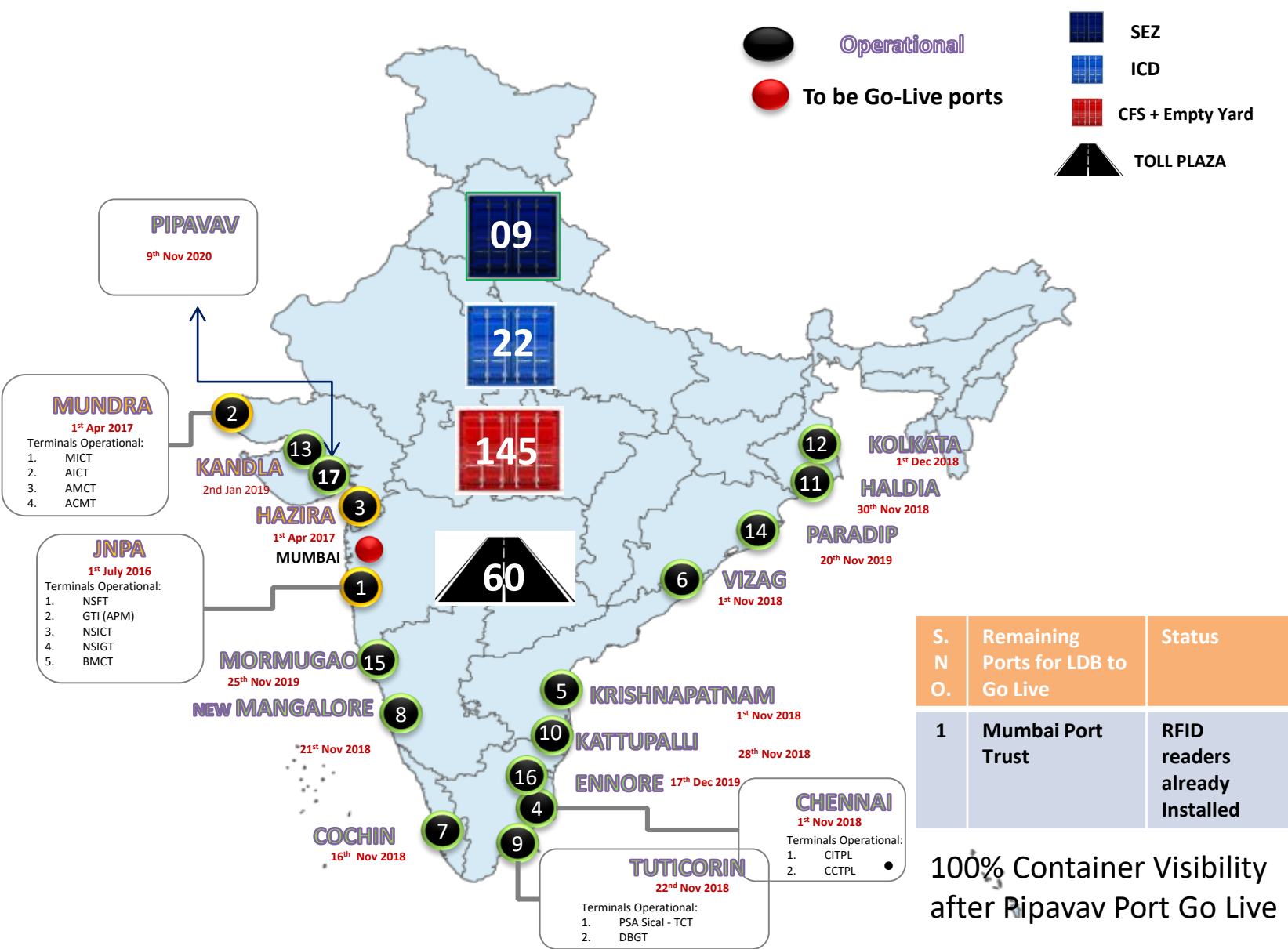
Destination-wise Dwell Time (in hrs) – Train

City	BMCT	GTI	NSFT	NSIGT	NSICT	Overall
Agra	99.5	58.5	120.4	120.4	-	92.0
Ankaleshwar	59.4	26.1	40.5	40.5	-	39.8
Ballabgarh	288.8	-	216.8	216.8	121.3	216.8
Baroda	-	43.9	36.0	36.0	84.6	51.1
Boisar	48.6	-	54.5	54.5	36.8	47.7
Dadri	37.4	-	64.5	64.5	56.3	43.3
Daulatabad	80.5	40.6	84.9	84.9	51.0	79.0
Faridabad	137.8	134.9	144.5	144.5	238.1	139.3
Guhati	290.4	227.0	212.4	212.4	219.6	236.8
Indore	40.2	-	75.5	75.5	73.6	69.7
Jaipur	82.8	11.4	73.5	73.5	113.2	45.8
Kanpur	100.9	44.5	88.6	88.6	64.8	85.9
Khatuwas	49.4	47.3	-	-	-	48.3
Khodiyar	45.3	55.8	49.8	49.8	186.0	55.6
Khopate	22.0	40.2	-	-	-	22.0
Ludhiana	53.8	54.7	161.0	161.0	75.7	63.9
Malanpur	42.8	42.7	125.8	125.8	58.1	61.4
Mandideep	77.5	-	89.0	89.0	61.6	69.5
Moradabad	19.7	16.7	28.1	28.1	81.5	21.7
Nagpur	94.0	100.5	76.3	76.3	90.7	82.4
Navi Mumbai	17.4	24.4	20.7	20.7	21.1	20.8
Patparganj	33.8	53.0	99.5	99.5	-	51.1
Raipur	-	-	133.6	133.6	-	133.6
Sanatnagar	39.4	-	74.1	74.1	-	55.4
Thimmapur	124.5	-	107.1	107.1	137.8	124.3
Tughlakabad	33.7	11.4	46.4	46.4	47.4	43.1
Umbergaon	153.6	-	80.6	80.6	225.0	81.5
Wardha	-	-	-	-	880.7	880.7

The below tables depict the Port Dwell Time Performance at JNPA Port for Truck bound containers in Import Cycle based on the next destination CFS:

Destination-wise Dwell Time (in hrs) – Truck

CFS	BMCT	GTI	NSFT	NSIGT	NSICT	Overall
AllCargo Logistics	33.8	-	34.8	34.8	41.5	35.6
Ameya Logistics CFS, Navi Mumbai	22.0	40.2	23.1	23.1	31.1	26.0
APM (Maersk India) CFS, Navi Mumbai	22.9	16.2	27.0	27.0	37.6	28.4
Apollo Logisolutions CFS, Panvel	19.3	14.1	19.0	19.0	29.9	19.2
Ashte Logistics CFS, Panvel	22.5	18.5	35.5	35.5	26.5	23.0
Balmer & Lawrie CFS, Navi Mumbai	25.2	18.3	34.7	34.7	42.3	29.0
Continental Warehousing CFS, Navi Mumbai	22.0	15.9	36.7	36.7	61.3	23.6
CWC Impex Park	18.9	18.0	22.4	22.4	36.7	22.0
Dronagiri Rail Terminal CFS, Navi Mumbai	25.6	24.4	26.8	26.8	-	27.0
EFC Logistics	22.5	21.3	33.0	33.0	55.2	28.5
Gateway Distriparks CFS, Navi Mumbai	16.6	16.5	21.3	21.3	29.7	19.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	-	18.7	18.7	22.9	20.8
JWC Logistics Park CFS	14.6	12.8	14.0	14.0	18.3	15.0
Kerry Indev Logistics Pvt Ltd CFS	18.6	20.3	20.0	20.0	20.6	19.9
Maharashtra State Corp CFS	28.7	16.3	44.1	44.1	39.9	37.9
Navkar Corporation	20.6	18.4	32.5	32.5	52.0	26.5
Ocean Gate CFS, Panvel	18.1	12.6	24.1	24.1	32.8	20.4
Sarveshwar Logistics	16.7	12.4	21.2	21.2	29.9	18.7
SBW Logistics CFS, Navi Mumbai	29.1	-	20.3	20.3	-	28.4
Seabird CFS, Navi Mumbai	28.3	-	39.4	39.4	50.1	37.0
Speedy Multimode CFS, JNPT	18.7	-	20.6	20.6	26.1	20.5
Take Care Logistics	15.8	13.3	17.6	17.6	28.8	17.5
TG Terminals	25.2	-	29.3	29.3	39.6	29.6
Vaishno Logistics CFS, Navi Mumbai	20.5	14.1	30.8	30.8	31.9	23.5



S. N O.	Remaining Ports for LDB to Go Live	Status
1	Mumbai Port Trust	RFID readers already Installed

100% Container Visibility after Pipavav Port Go Live

- More than about 42 million EXIM containers covered till date.(2021.11.28)

Below mentioned are all the CFS in the respective Clusters :

Cluster 1
(JNPA Area)

- Speedy Multimode CFS, JNPA

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, JNPA 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, JNPA 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 JNPA 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

1	Adani CFS Eximyard, Mundra	23	Mundhra CFS, Mundra
2	Saurashtra CFS, Mundra	24	Ashte Logistics CFS, Panvel
3	Hind Terminals Pvt. Ltd. CFS, Mundra	25	Seabird CFS, Hazira
4	CWC Conex Terminal CFS	26	Speedy Multimode CFS, JNPT
5	CWC CFS, Mundra	27	International Cargo Terminal CFS
6	Continental Warehousing CFS, Navi Mumbai	28	APM (Maersk India) CFS, Navi Mumbai
7	Gateway Distriparks CFS, Navi Mumbai	29	Dronagiri Rail Terminal CFS, Navi Mumbai
8	Ameya Logistics CFS, Navi Mumbai	30	Empezar Logistics CFS
9	Seabird CFS, Mundra	31	Apollo Logisolutions CFS, Panvel
10	AllCargo Logistics	32	Rishi CFS, Mundra
11	International Cargo Terminals (ULA) CFS, Navi Mumbai	33	Navkar Corporation Yard 1 CFS, Panvel
12	Sarveshwar CFS	34	Ocean Gate CFS, Panvel
13	Navkar Corporation Yard 3 CFS, Panvel	35	TG Terminals CFS
14	MICT CFS, Mundra	36	Vaishno Logistics CFS, Navi Mumbai
15	Punjab Conware CFS, Navi Mumbai	37	LCL Logistix CFS, Pipavav
16	Honey Comb CFS, Mundra	38	Transworld CFS, Mundra
17	JWC Logistics Park CFS	39	Navkar Corporation Yard 2 CFS, Panvel
18	EFC Logistics India	40	Take Care Logistics CFS
19	Ashutosh CFS, Mundra	41	Seabird CFS, Navi Mumbai
20	Landmark CFS, Mundra	42	CWC Impex Park CFS, Navi Mumbai
21	TG Terminals CFS, Mundra	43	Contrans Logistic CFS, Pipavav
22	Hind Terminal CFS, Hazira		



THANK YOU