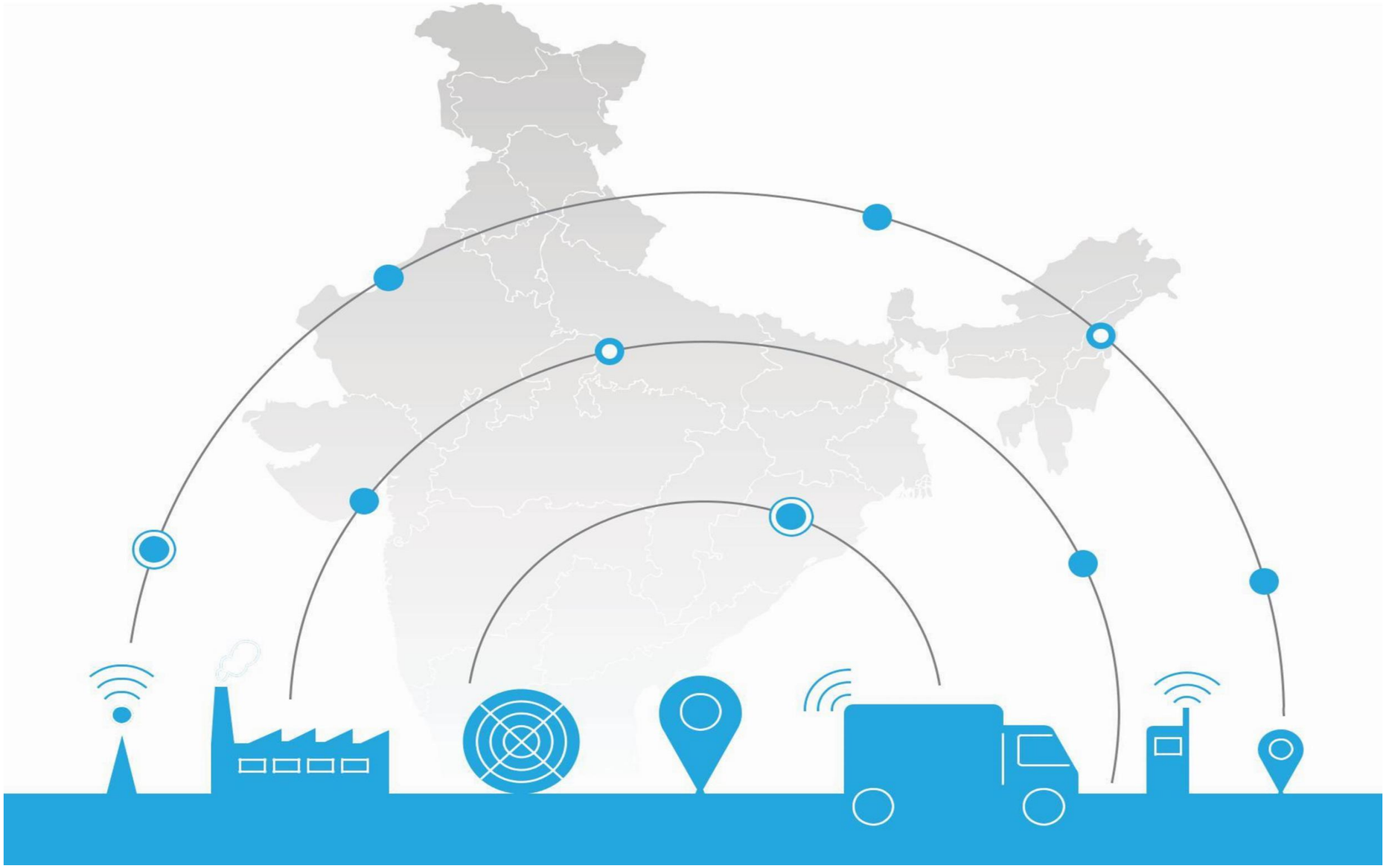
Logistics Databank Analytics Report - JNPA – May 2023



Executive Summary

Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	Apr'23 (in hrs)	May'23 (in hrs)
NSFT	45.2	22.7
NSICT	39.9	22.7
GTI	19.6	15.0
NSIGT	35.4	22.0
BMCT/ PSA	25.4	19.9

Export Cycle		
Port	Apr'23 (in hrs)	May'23 (in hrs)
NSFT	68.5	59.1
NSICT	58.8	55.8
GTI	78.3	66.5
NSIGT	96.2	78.9
BMCT/ PSA	88.3	63.4

Critical Incident Summary

Jawaharlal Nehru Port Authority

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

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time	ICD
May'23	19.9 hrs	65.0 hrs	85.4 hrs	130.0 hrs
Apr'23	29.1 hrs ↑ 31.6%	80.0 hrs ↑ 18.8%	91.0 hrs ↑ 6.2%	136.8 hrs ↑ 5.0%

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	Apr'23 (in hrs)	May'23 (in hrs)
Overall	30.6	27.3
Truck	25.9	23.2
Train	69.0	62.4

EXPORT

Mode	Apr'23 (in hrs)	May'23 (in hrs)
Overall	90.9	81.3
Truck	86.7	76.8
Train	115.9	108.6

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

Entity	Apr'23 (in hrs)	May'23 (in hrs)
CFS	89.5	88.3
ICD	136.8	130.0

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

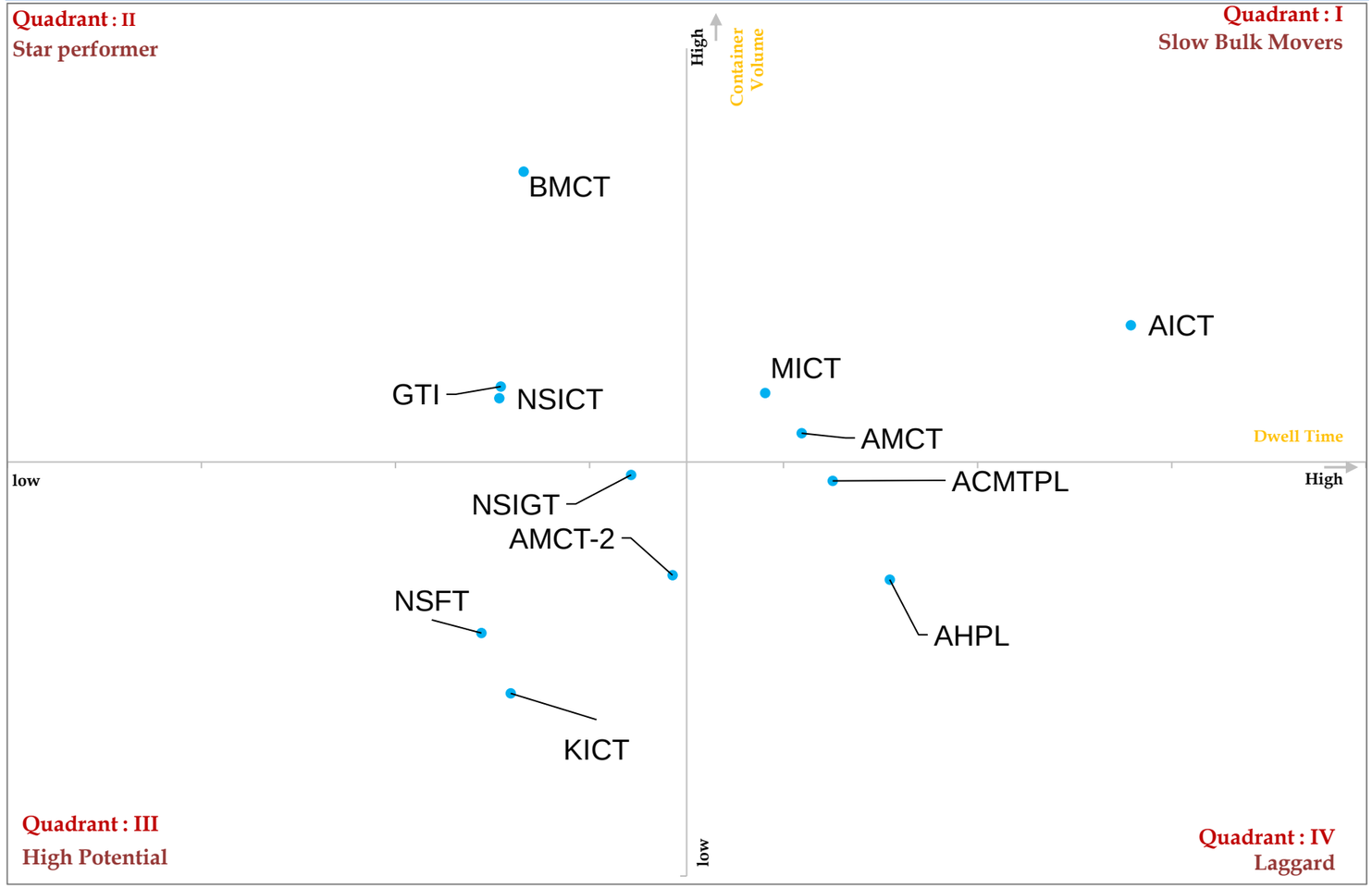
The marked entries showcase Decrease in performance in comparison to Apr'23

Port Performance Benchmarking & Performance Index - Western Corridor

Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – May'23



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

Top Performing Terminal	
Bharat Mumbai Container Terminal(PSA)	
Apr'23	May'23
53.1 hrs	37.6 hrs

Low Performing Terminal	
Adani Hazira Port Private Limited (AHPPL)	
Apr'23	May'23
70.6 hrs	76.6 hrs

Note: The performance benchmarking is based on performance index

The arrows depict increase/Decrease in overall performance of the stakeholders in comparison to Apr'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 Transportation- JNPA Port Terminals

Container Lifecycle (Import Cycle)

Port Dwell Time

IMPORT

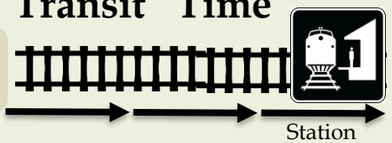
Mode	Apr'23 (in hrs)	May'23 (in hrs)
Overall	29.1	19.9
Truck	25.4	17.2
Train	53.2	51.0

EXPORT

Mode	Apr'23 (in hrs)	Spe'22 (in hrs)
Overall	80.0	65.0
Truck	77.1	62.8
Train	104.6	81.3

Transit Time

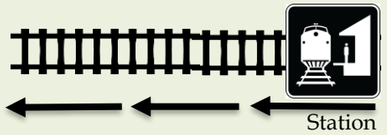
Towards ICD



Transit Cycle	Apr'23 (in hrs)	May'23 (in hrs)
Port to ICD	90.1	91.1
Port to CFS	2.62	2.56

Towards CFS

From ICD



Transit Cycle	Apr'23 (in hrs)	Spe'22 (in hrs)
ICD to Port	89.3	109.6
CFS to Port	6.46	4.21

From CFS

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

Entity	Apr'23 (in hrs)	May'23 (in hrs)
CFS	91.0	85.4
ICD	136.8	130.0

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	82%	18%
Export	80%	20%

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

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

Container Lifecycle (Export Cycle)

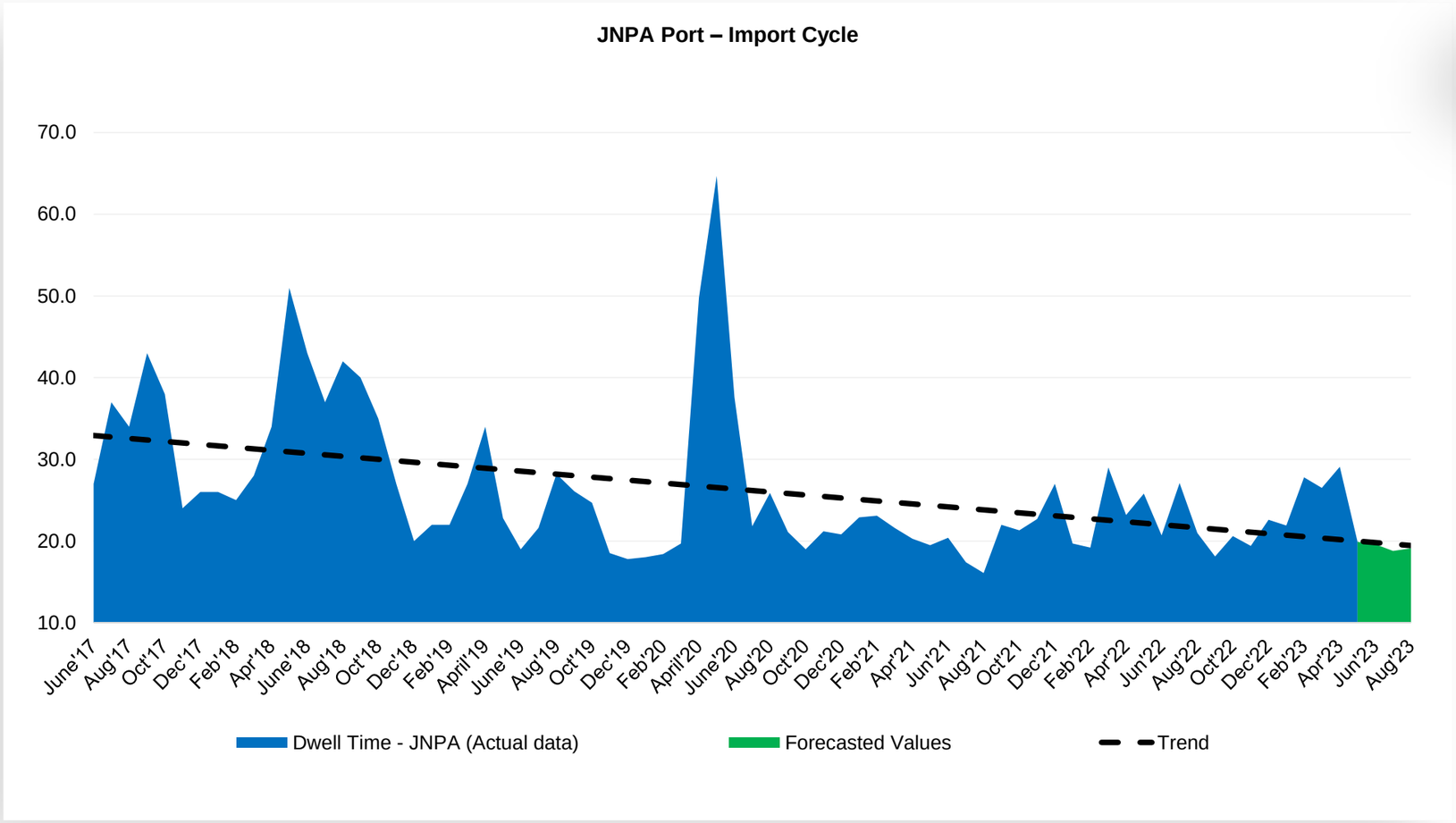
Container Transportation- JNPA Port Terminals

IMPORT CYCLE DWELL TIME (May'23 – in hrs)			Compared to Apr'23
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	19.9	31.6% ↑
	Port Dwell Time for Truck Bound Containers	17.2	32.3% ↑
	Port Dwell time for Train Bound Containers	51.0	4.1% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	32.7	10.2% ↑
	Port Dwell time Containers bound for CFS	16.3	36.1% ↑
	Port Dwell for Empty Containers	25.5	36.4% ↑
	Port Dwell for Laden Containers	19.2	29.9% ↑
TRANSIT TIME	Port to ICD	91.1	1.1% ↓
	Port to CFS	2.56	2.3% ↑

EXPORT CYCLE DWELL TIME (May'23– in hrs)			Compared to Apr'23
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	65.0	18.8% ↑
	Port Dwell Time for Truck Bound Containers	62.8	18.5% ↑
	Port Dwell time for Train Bound Containers	81.3	22.3% ↑
	Port Dwell time Direct Port Entry (DPE) containers	64.2	11.1% ↑
	Port Dwell time Containers bound from CFS	65.3	17.0% ↑
	Port Dwell for Empty Containers	53.9	29.6% ↑
	Port Dwell for Laden Containers	68.9	14.7% ↑
TRANSIT TIME	ICD to Port	109.6	22.7% ↓
	CFS to Port	4.21	34.8% ↑

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

Container Transportation- JNPA Port Terminals



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 maxima in Aug'23 after a local minima in Jul'23.

Predicted Dwell Time (in hrs)

Jun'22	Jul'23	Aug'23
19.6	**18.8**	**19.1**

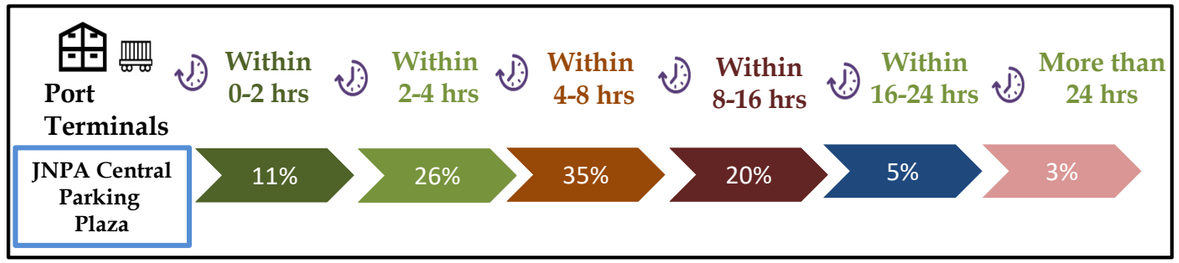
JNPA Region: Parking Plaza Dwell Time Analysis

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	Apr'23 (in hrs)	May'23 (in hrs)
Overall Parking Plaza	5.49	5.09

Container Handled: Day wise (May'23)

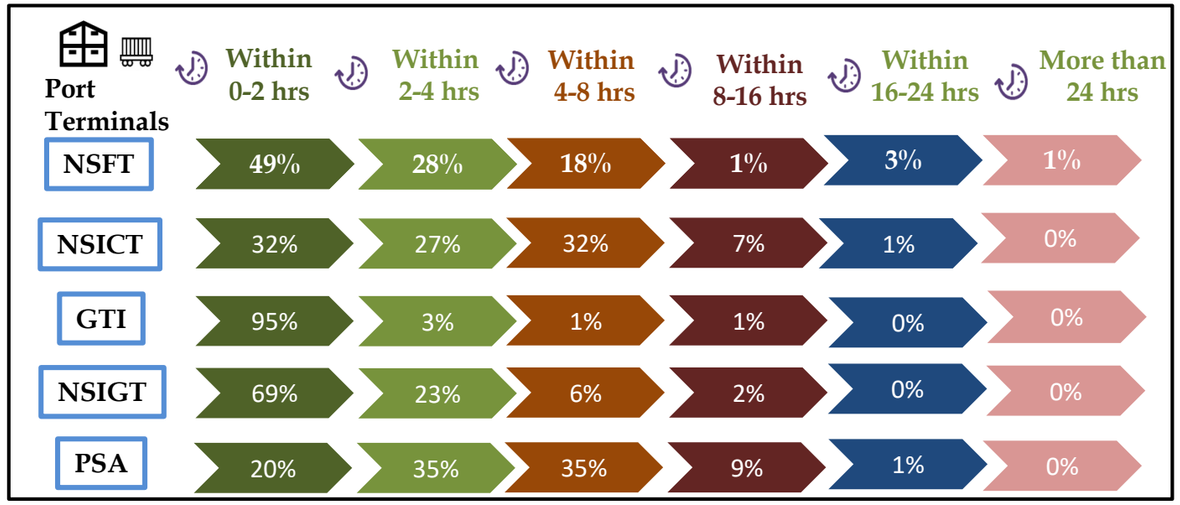


Parking Plaza Gate Out – Terminal In

Mode	Apr'23 (in hrs)	May'23 (in hrs)
Overall Parking Plaza to JNPA Port	4.00	2.33

Port	Apr'23 (in hrs)	May'23 (in hrs)
NSFT	3.4	2.0
NSICT	7.0	3.3
GTI	0.4	0.5
NSIGT	2.0	1.3
BMCT	5.9	3.7

Container Handled: Day wise (May'23)



CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

CFS — Performance Benchmarking — ICD

Top Performing CFS	
Adani CFS Eximyard, Mundra	
Apr'23	May'23 ↓
85.6 hrs	86.2 hrs

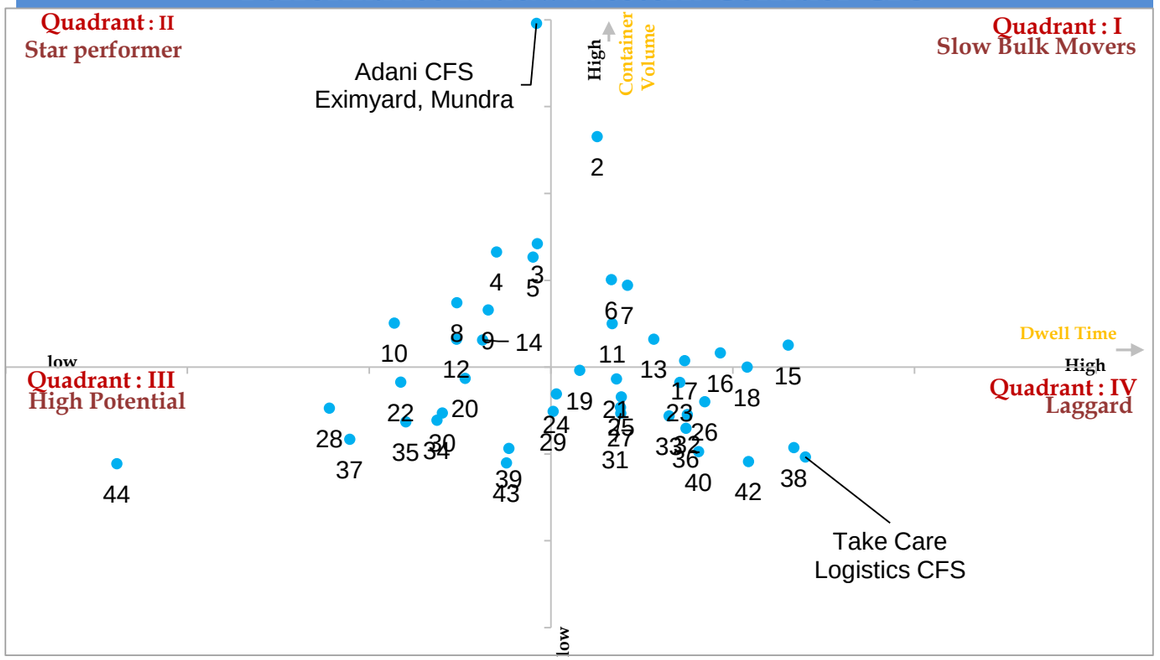
Low Performing CFS	
Take Care Logistics CFS	
Apr'23	May'23 ↑
113.5 hrs	107.5 hrs

Top Performing ICD	
Continental Warehousing Corporation Nhava Sheva pvt.	
Apr'23	May'23 ↑
95.9 hrs	89.2 hrs

Low Performing ICD	
GatewayRail Freight ICD, Pyala	
Apr'23	May'23 ↑
165.2 hrs	147.0 hrs

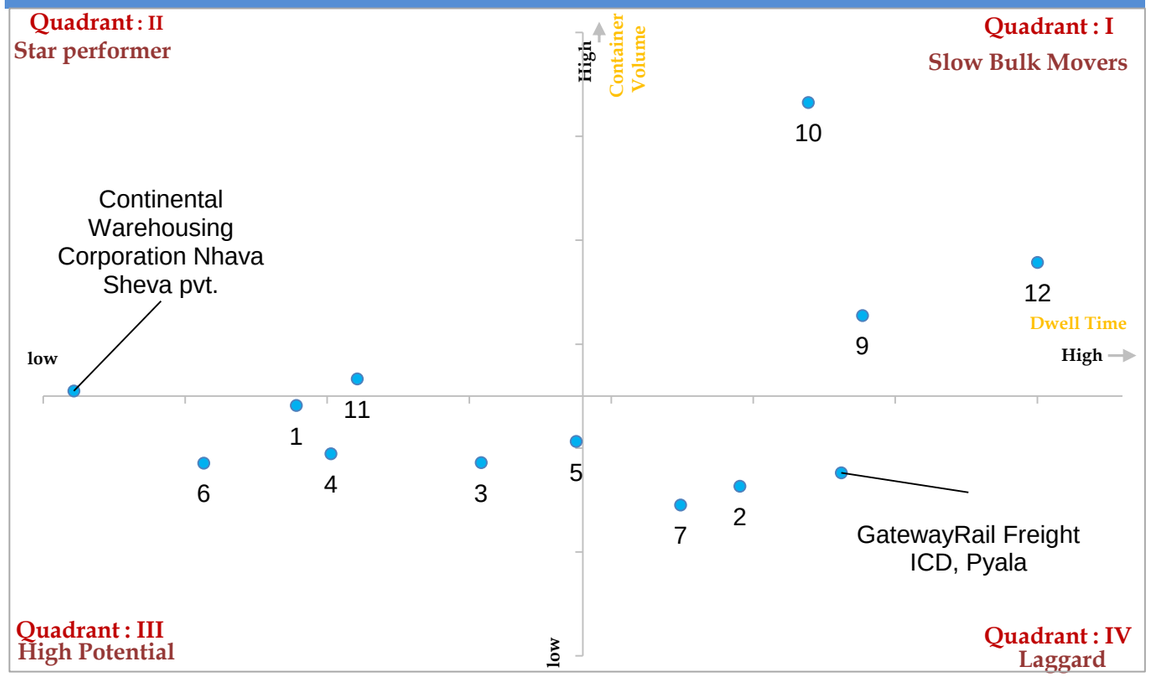
Note: The performance benchmarking is based on performance index
↑↓ The arrows depict increase/decrease in overall performance of the stakeholders as compared to Jul'22

Performance Index: Western Corridor CFS



Kindly refer to Annexure section for the names of CFS

Performance Index: ICD



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
(18% 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	Apr'23 (in hrs)	May'23 (in hrs)
NSFT	78.2	43.3
NSICT	61.8	42.8
GTI	33.8	52.4
NSIGT	70.2	55.1
BMCT	56.7	52.5

Container Handled: Day wise (May'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	15%	38%	15%	10%	8%	15%
NSICT	25%	31%	16%	13%	10%	5%
GTI	17%	30%	19%	13%	14%	8%
NSIGT	17%	27%	21%	18%	13%	5%
BMCT	17%	29%	18%	15%	15%	5%

PORT IMPORT via TRUCK
(82% 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	Apr'23 (in hrs)	May'23 (in hrs)
NSFT	41.7	21.2
NSICT	37.3	21.0
GTI	16.6	12.9
NSIGT	30.0	18.9
BMCT	22.0	16.7

Container Handled: Day wise (May'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	57%	33%	6%	2%	1%	0%
NSICT	58%	31%	8%	2%	1%	1%
GTI	78%	16%	4%	1%	0%	0%
NSIGT	64%	26%	6%	2%	1%	1%
BMCT	69%	24%	5%	1%	1%	0%

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

NSFT

Port Dwell time based on transit type

Apr'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	57.0 hrs	21.6 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	22.2 hrs	25.7 hrs

GTI

Port Dwell time based on transit type

Apr'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	36.0 hrs	12.3 hrs

Port Dwell time based on transit type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	14.7 hrs	19.7 hrs

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

Apr'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	63.6 hrs	19.2 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	21.2 hrs	27.0 hrs

NSIGT

Port Dwell time based on transit type

Apr'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	60.7 hrs	19.4 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	21.6 hrs	26.3 hrs

BMCT

Port Dwell time based on transit type

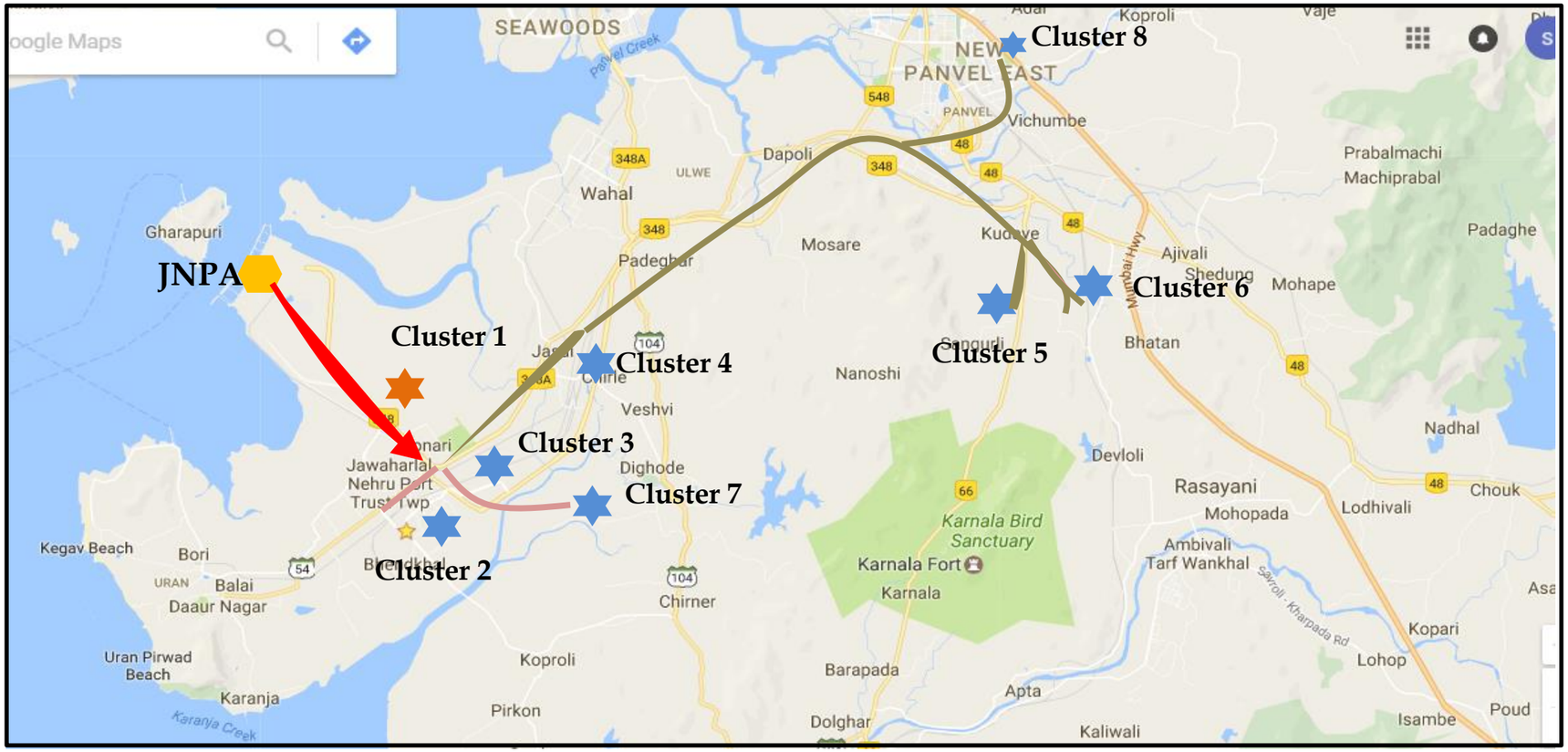
Apr'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	23.0 hrs	16.3 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	19.5 hrs	26.1 hrs

JNPA Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPA region in Import Cycle in month of May'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
Import Cycle :-

NSFT Terminal
Congestion Level
Import Cycle :-

NSICT Terminal
Congestion Level
Import Cycle :-

NSIGT Terminal
Congestion Level
Import Cycle :-

BMCT Terminal
Congestion Level
Import 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 Region Import Cycle: Container Movement

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

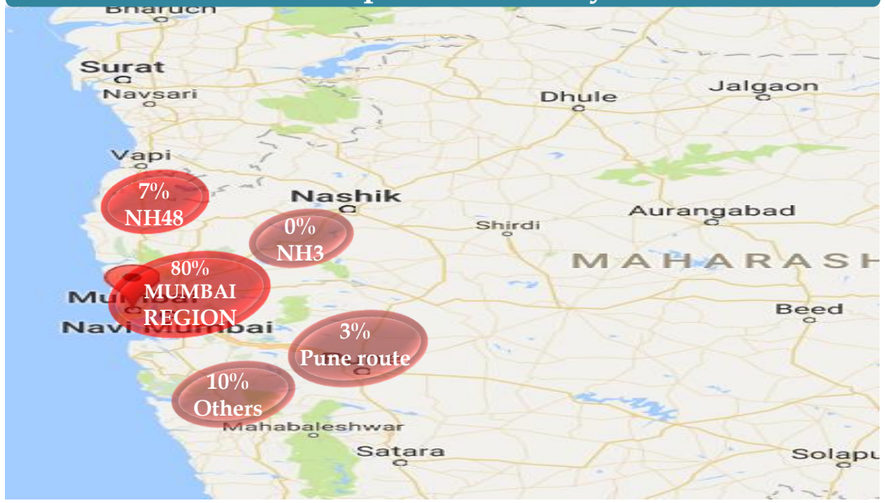
Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	May'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.

Heat Map via Truck: May'23



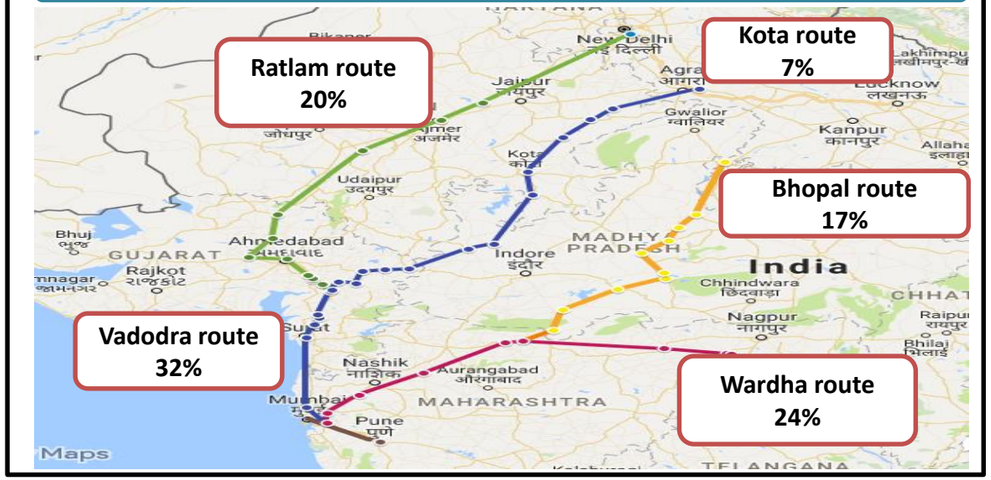
Train

VOLUME WISE CONTAINER MOVEMENT

Region	May'23
Vadodra Route	32%
Ratlam Route	20%
Wardha Route	24%
Kota Route	7%
Bhopal route	17%

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

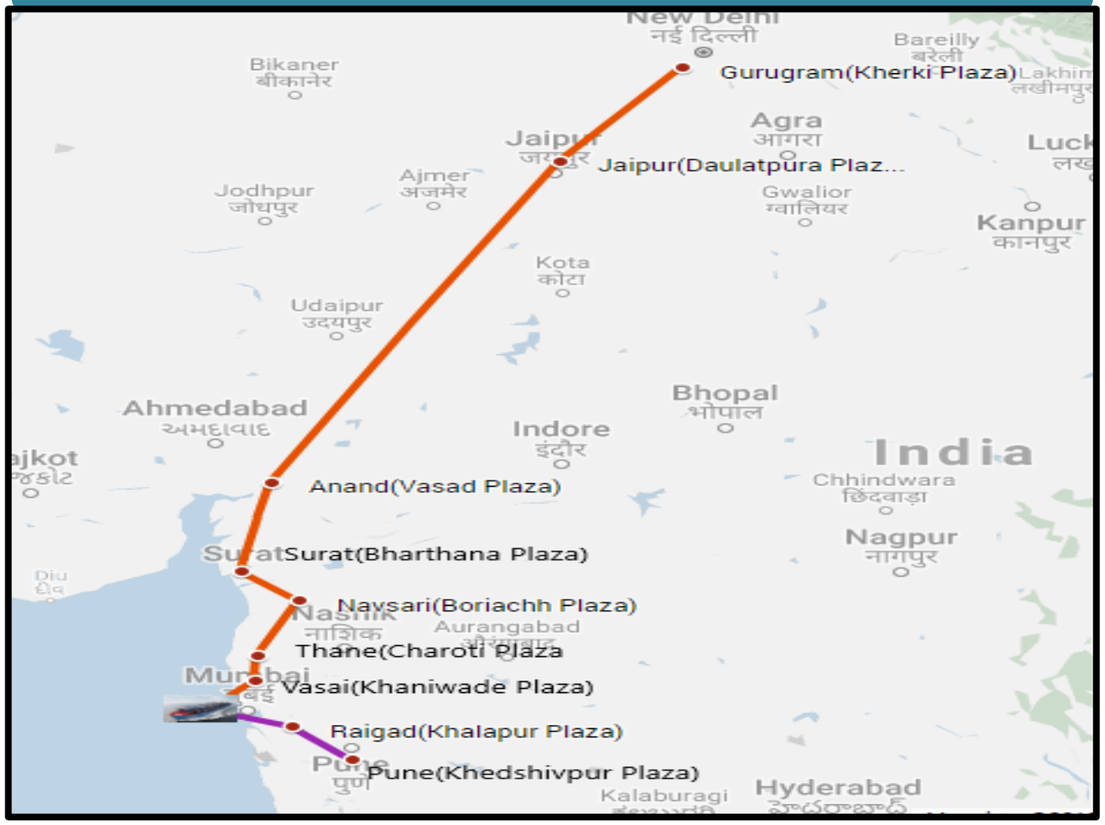
Container movement via Rail – May'23



Western Corridor Toll Plaza Analysis

Avg. Speed between Toll to Toll Plazas					
	Source	Destination Toll Plaza	Inter Distance (Km)	Apr'23 (in km/hrs)	May'23 (in km/hrs)
JNPA	JNPA	Khaniwade	94	14.8	16.2
	JNPA	Khalapur	60	8.2	14.0
	Khaniwade	Charoti	50	36.7	37.1
	Charoti	Boriach	126	23.8	22.8
	Boriach	Bharthan	142	31.0	27.7
	Bharthan	Vasad	60	37.7	37.2
	Khalalpur	Khedshivpur	105	32.8	28.2

Toll Plaza - JNPA Port



Export Cycle Analysis

JNPA Region: Dwell Time Performance (Export Cycle)

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
(20% 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	Apr'23 (in hrs)	May'23 (in hrs)
NSFT	93.5	76.2
NSICT	40.4	31.8
GTI	115.9	101.0
NSIGT	130.4	99.7
BMCT	131.9	88.2

Container Handled: Day wise (May'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	2%	35%	3%	12%	14%	33%
NSICT	44%	13%	8%	7%	13%	15%
GTI	3%	14%	15%	14%	24%	30%
NSIGT	2%	10%	18%	16%	28%	25%
BMCT	6%	14%	15%	20%	22%	23%

PORT EXPORT via TRUCK
(80% 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	Apr'23 (in hrs)	May'23 (in hrs)
NSFT	68.3	58.5
NSICT	61.1	59.7
GTI	72.5	62.7
NSIGT	90.5	75.4
BMCT	84.9	59.4

Container Handled: Day wise (May'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	7%	29%	30%	23%	11%	0%
NSICT	10%	27%	27%	23%	12%	1%
GTI	5%	26%	29%	22%	16%	2%
NSIGT	3%	16%	27%	25%	27%	2%
BMCT	8%	28%	28%	23%	12%	1%

JNPA Region: Dwell Time Performance (Export Cycle)

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

NSFT

Port Dwell time based on transit type

Apr'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	66.3 hrs	65.6 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	66.6 hrs	48.7 hrs

GTI

Port Dwell time based on transit type

Apr'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	63.5 hrs	64.8 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	71.3 hrs	59.5 hrs

JNPA Region: Dwell Time Performance (Export Cycle)

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

NSICT

Port Dwell time based on transit type

Apr'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	59.8 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	57.6 hrs	48.1 hrs

NSIGT

Port Dwell time based on transit type

Apr'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	77.8 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	80.2 hrs	39.1 hrs

BMCT

Port Dwell time based on transit type

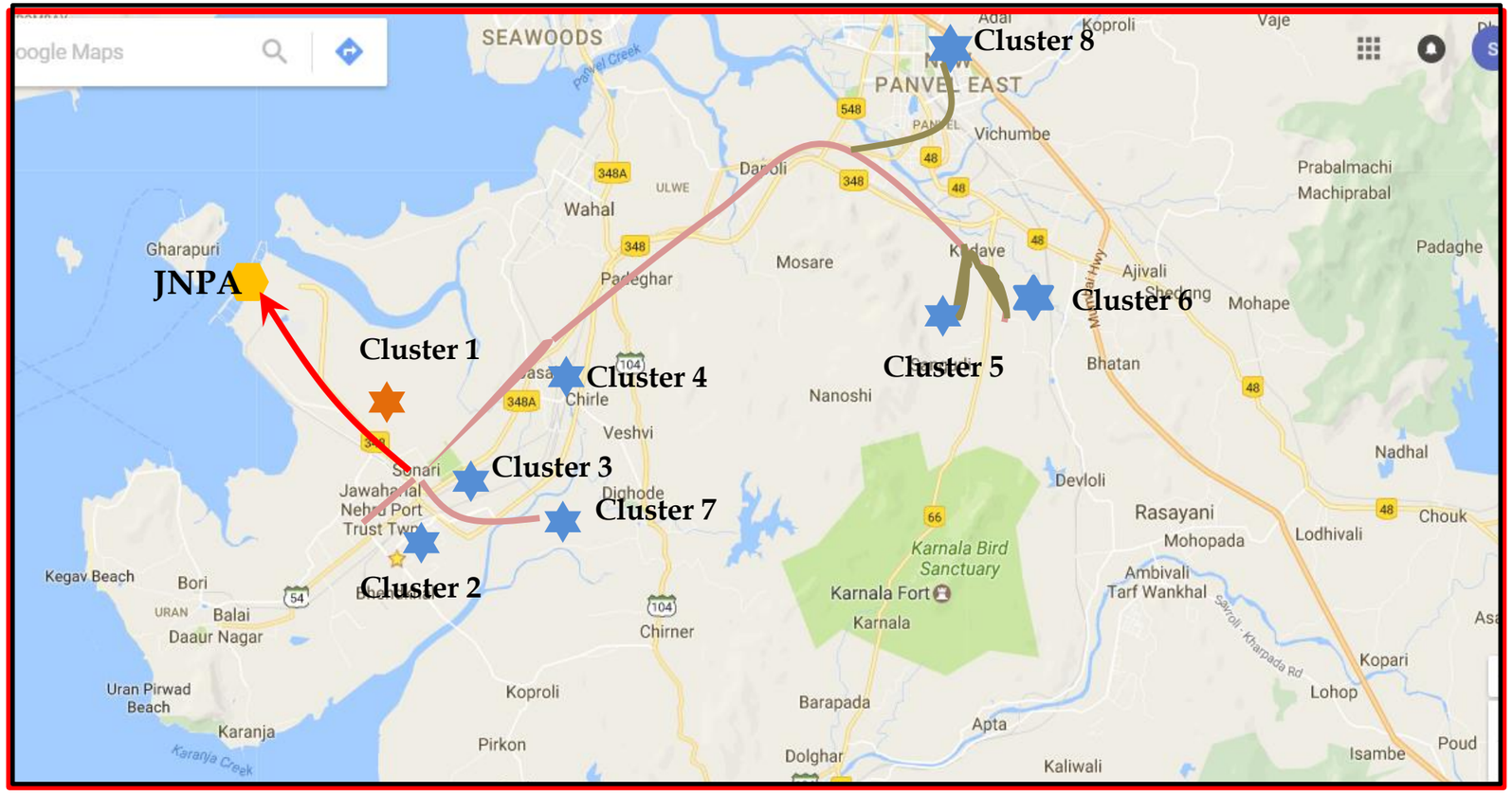
Apr'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	61.8 hrs

Port Dwell time based on container type

Apr'23	Laden Containers	Empty Containers
Dwell time (in hrs)	68.5 hrs	53.8 hrs

JNPA Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPA region in Export Cycle in month of May'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	NSFT Terminal	NSICT Terminal	NSIGT Terminal	BMCT Terminal
Congestion Level	Congestion Level	Congestion Level	Congestion Level	Congestion Level
Export Cycle :-	Export Cycle :-	Export Cycle :-	Export Cycle :-	Export Cycle :-

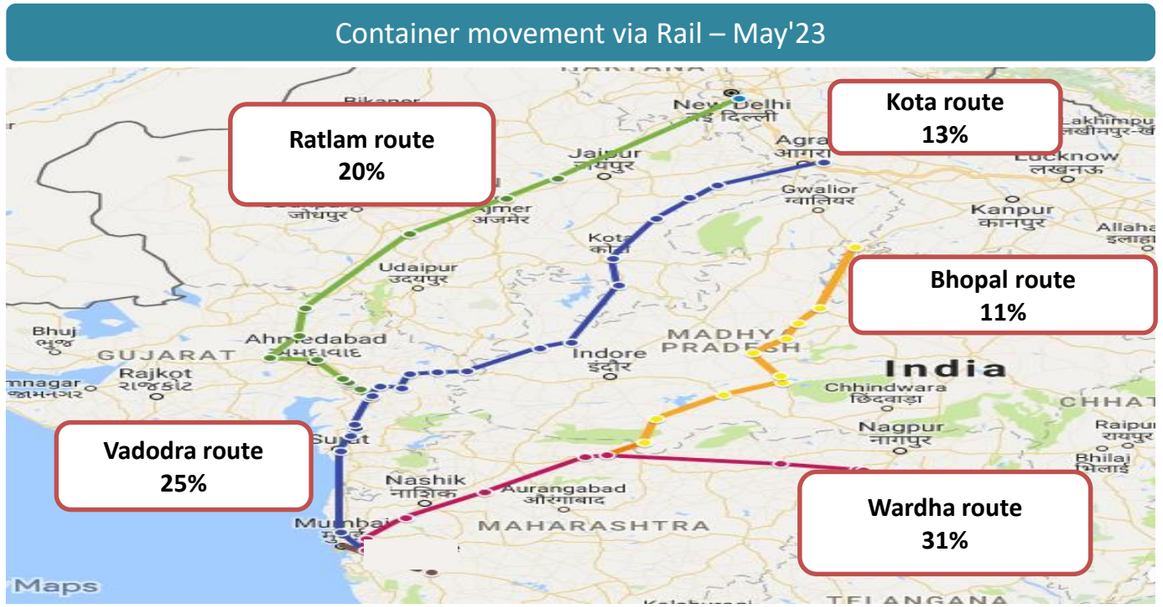
Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals

2) Analysis consist of CFS covered under LDB project

JNPA Region: Container Movement via Train

JNPA Port	
Route	**Percentage of Container Movement**
Vadodra Route	25%
Ratlam Route	20%
Wardha Route	31%
Kota Route	13%
Bhopal Route	11%

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



CFS and ICD Performance

JNPA region CFS : CFS DWELL TIME ANALYSIS

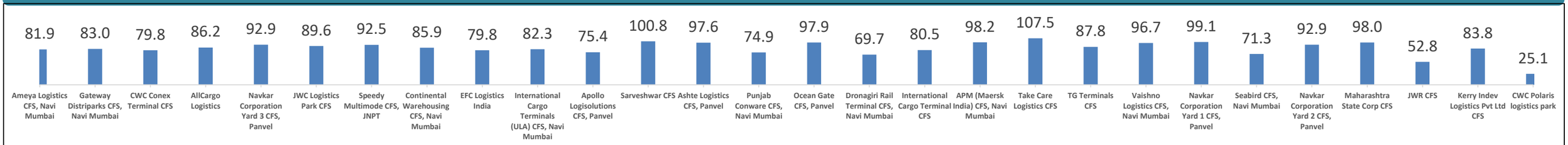
Below table and graphs show the dwell time of the respective CFSs for the month of May'23

CFS Dwell Time (in hrs.)

CFS	Apr'23 (in hrs)	May'23 (in hrs)
Ameya Logistics CFS, Navi Mumbai	85.25	81.88
Gateway Distriparks CFS, Navi Mumbai	98.37	83.00
CWC Conex Terminal CFS	84.87	79.84
AllCargo Logistics	93.62	86.24
Navkar Corporation Yard 3 CFS, Panvel	91.67	92.92
JWC Logistics Park CFS	81.66	89.60
Speedy Multimode CFS, JNPT	108.73	92.52
Continental Warehousing CFS, Navi Mumbai	84.75	85.89
EFC Logistics India	80.58	79.81
International Cargo Terminals (ULA) CFS, Navi Mumbai	100.22	82.32
Apollo Logisolutions CFS, Panvel	73.93	75.38
Sarveshwar CFS	103.78	100.78
Ashte Logistics CFS, Panvel	100.24	97.56
Punjab Conware CFS, Navi Mumbai	95.07	74.87

CFS	Apr'23 (in hrs)	May'23 (in hrs)
Ocean Gate CFS, Panvel	81.69	97.94
Dronagiri Rail Terminal CFS, Navi Mumbai	109.94	69.71
International Cargo Terminal CFS	85.70	80.49
APM (Maersk India) CFS, Navi Mumbai	99.29	98.16
Take Care Logistics CFS	72.67	107.54
TG Terminals CFS	87.82	87.76
Vaishno Logistics CFS, Navi Mumbai	85.21	96.72
Navkar Corporation Yard 1 CFS, Panvel	89.03	99.06
Seabird CFS, Navi Mumbai	96.10	71.32
Navkar Corporation Yard 2 CFS, Panvel	104.78	92.86
Maharashtra State Corp CFS	69.11	98.05
JWR CFS	90.36	52.80
Kerry Indev Logistics Pvt Ltd CFS	113.46	83.78
CWC Polaris logistics park	91.22	25.09

CFS – DWELL OVERVIEW – MAY'23 (IN HRS)



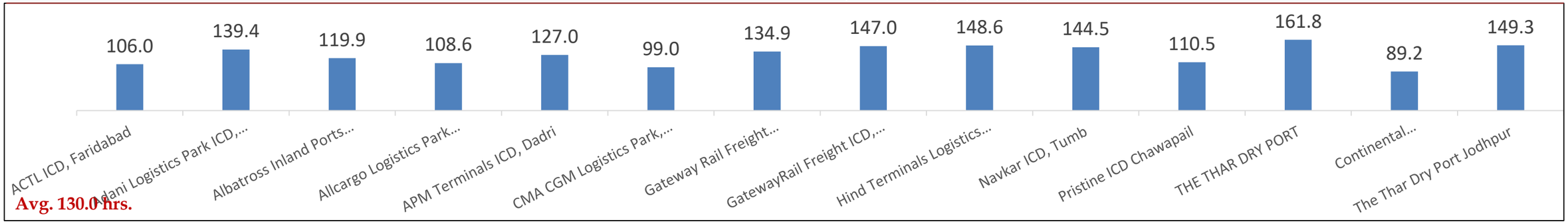
Average: 85.4 hrs.

ICD DWELL TIME ANALYSIS

The table below depicts the dwell time of all ICDs

ICD Dwell Time (in Hrs)		
ICD	**Apr'23 (in hrs)**	**May'23 (in hrs)**
ACTL ICD, Faridabad	126.7	106.0
Adani Logistics Park ICD, Gurgaon	122.0	139.4
Albatross Inland Ports ICD, Dadri	112.3	119.9
Allcargo Logistics Park ICD, Dadri	108.0	108.6
APM Terminals ICD, Dadri	133.5	127.0
CMA CGM Logistics Park, Dadri	105.0	99.0
Gateway Rail Freight ICD, Gurgaon	124.1	134.9
GatewayRail Freight ICD, Pyala	165.2	147.0
Hind Terminals Logistics Park ICD, Palwal	169.7	148.6
Navkar ICD, Tumb	147.4	144.5
Pristine ICD Chawapail , Ludhiana	122.4	110.5
The Thar Dry Port ICD Ahmedabad	142.7	161.8
Continental Warehousing Corporation Nhava Sheva pvt.	95.9	89.2
The Thar Dry Port Jodhpur	-	149.3

ICD – DWELL OVERVIEW (MAY'23) (In Hrs)



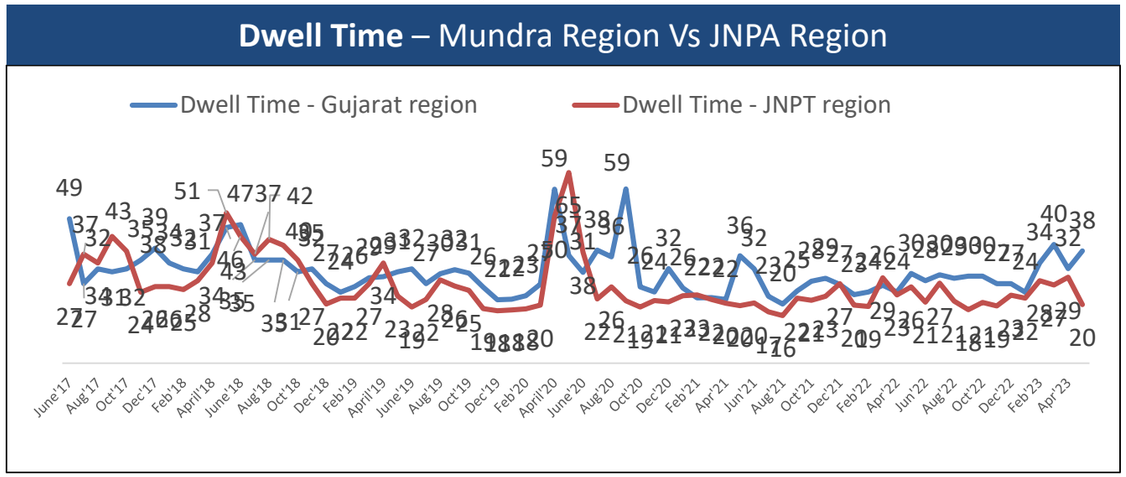
Trend Analysis

Western Corridor Port – Yearly Analysis

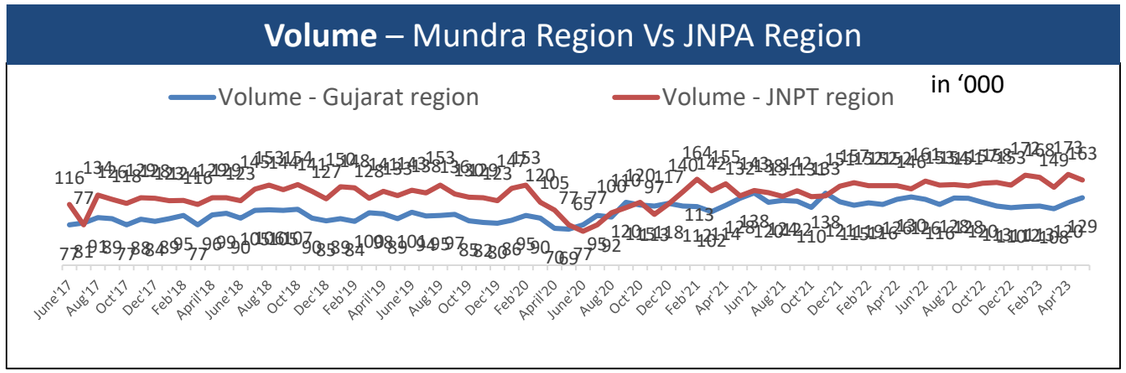
Container Volume and Dwell time of all the terminals in JNPA and Mundra Port has been analysed until May'23

Import Cycle

Dwell Time – Mundra Region Vs JNPA Region



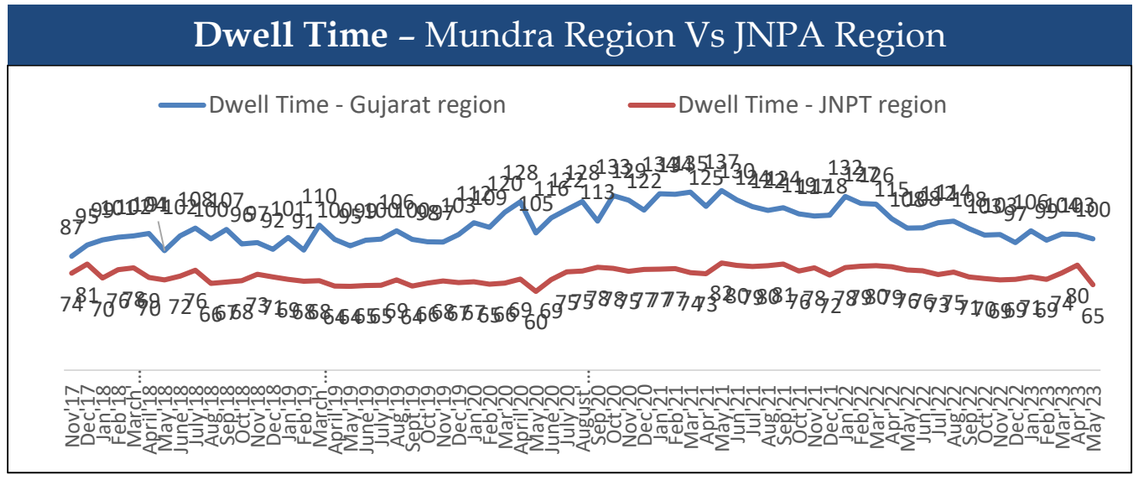
Volume – Mundra Region Vs JNPA Region



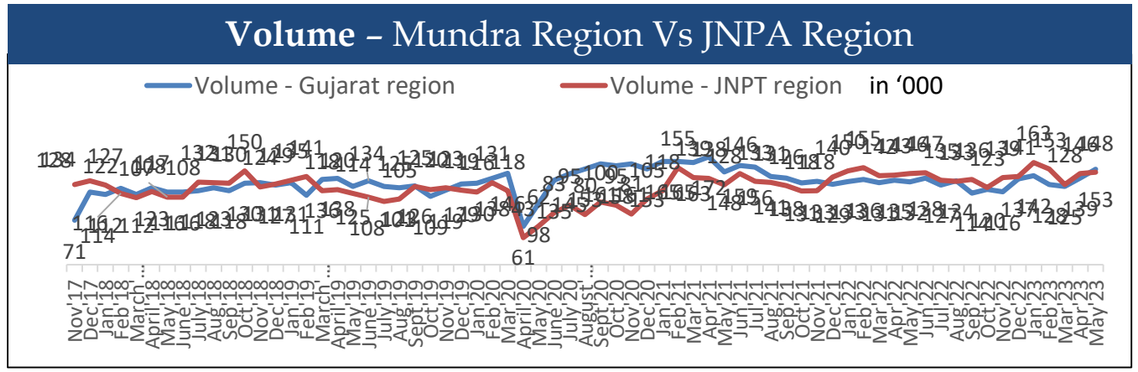
In Import cycle, for the month of May'23 Mundra port has catered 20.7% **less volume** than JNPA Port, and has performed with 91.5% **higher dwell time** than JNPA Port.

Export Cycle

Dwell Time – Mundra Region Vs JNPA Region



Volume – Mundra Region Vs JNPA Region

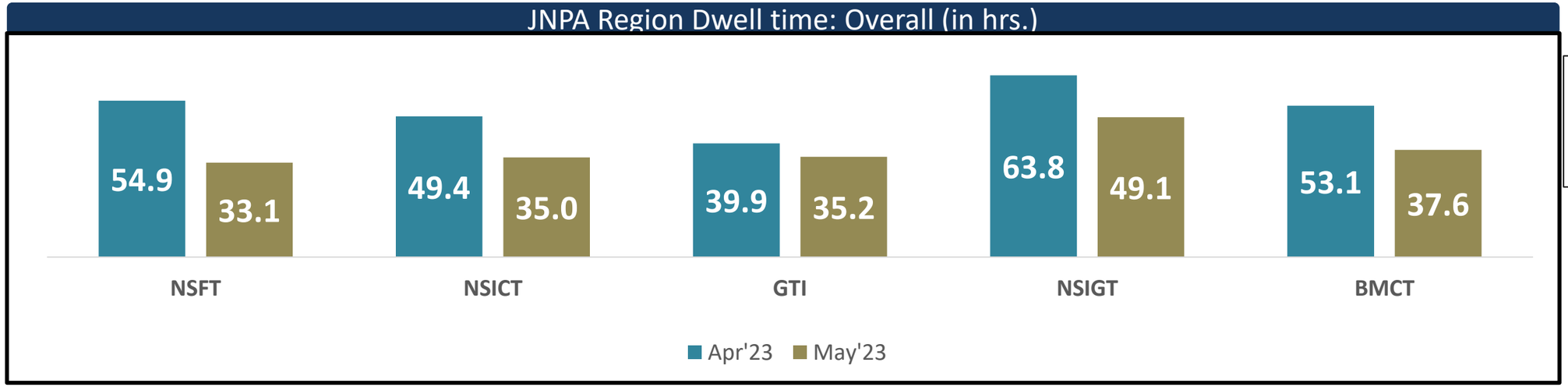


In Export cycle, for the month May'23 JNPA port catered 3.4**% less volume** than Mundra Port, and has maintained 34.9% **lower dwell time** than Mundra Port

JNPA PORT DWELL TIME TREND: Month on Month

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

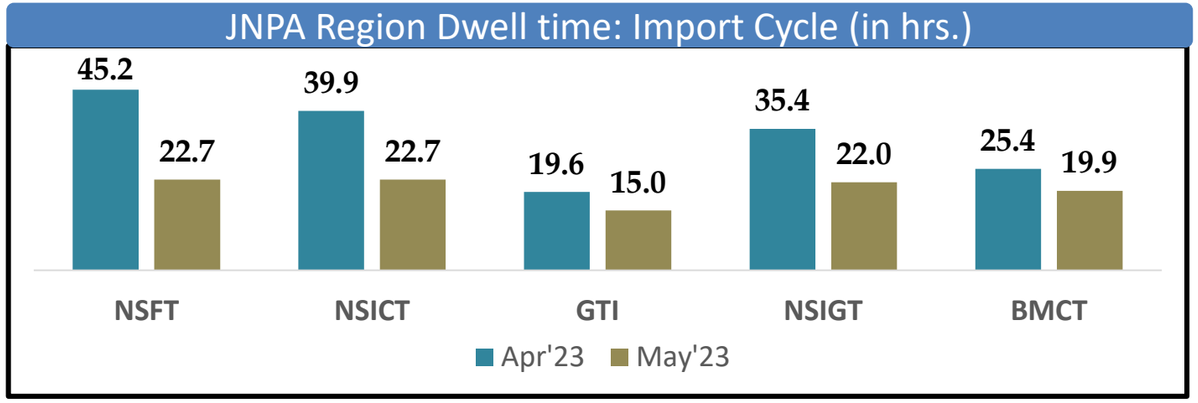


The overall JNPA region average dwell time for May'23 is 37.5 hrs as compared to 51.2 hrs in Apr'23

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

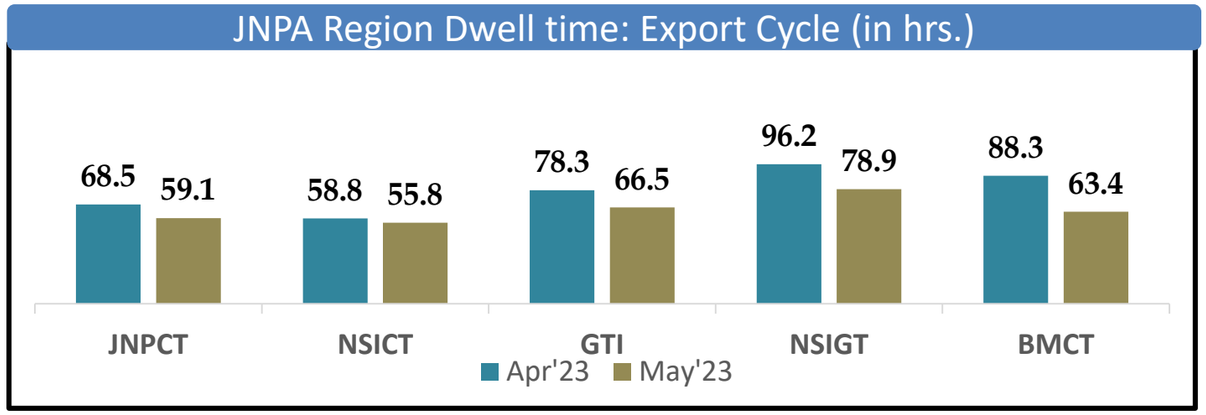
JNPA Import cycle Trend

The average import cycle dwell time of JNPA region port terminals for May'23 is 19.9 hrs.



JNPA Export cycle Trend

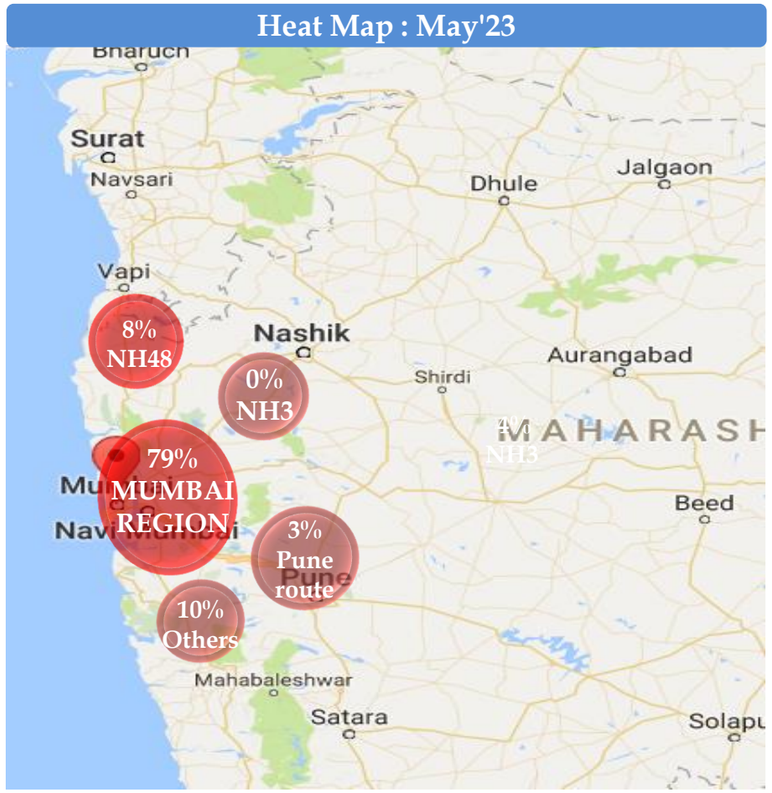
The average export cycle dwell time of JNPA region port terminals for May'23 is 65.0 hrs.



ANNEXURE

Container movement around JNPA Port terminal region via Truck

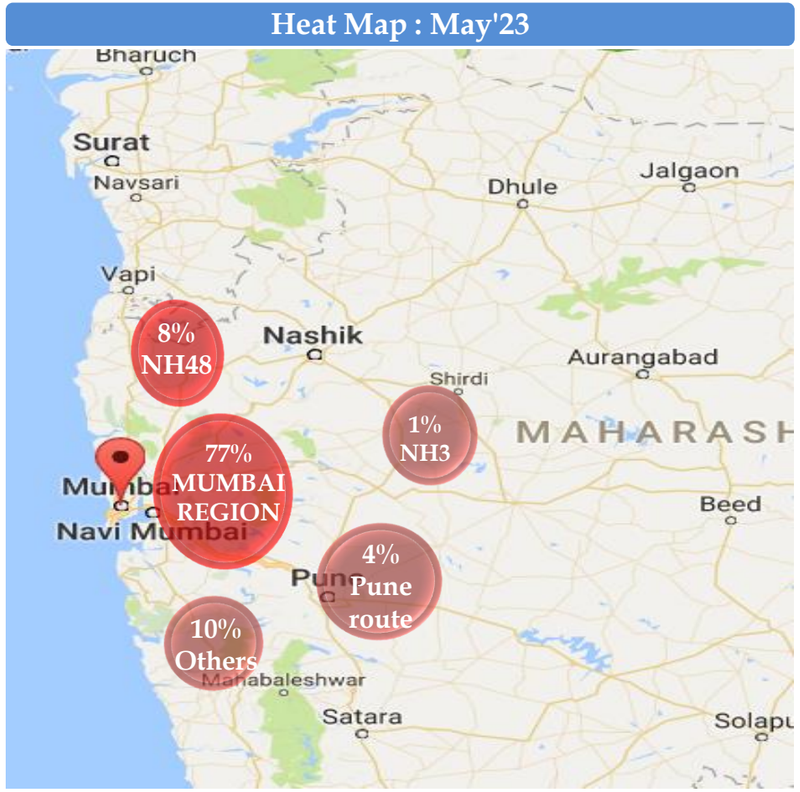
HEAT MAP : GTI Port Terminal



Region	Apr'23	May'23
Mumbai region	79%	79%
NH3	0%	0%
Pune	3%	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

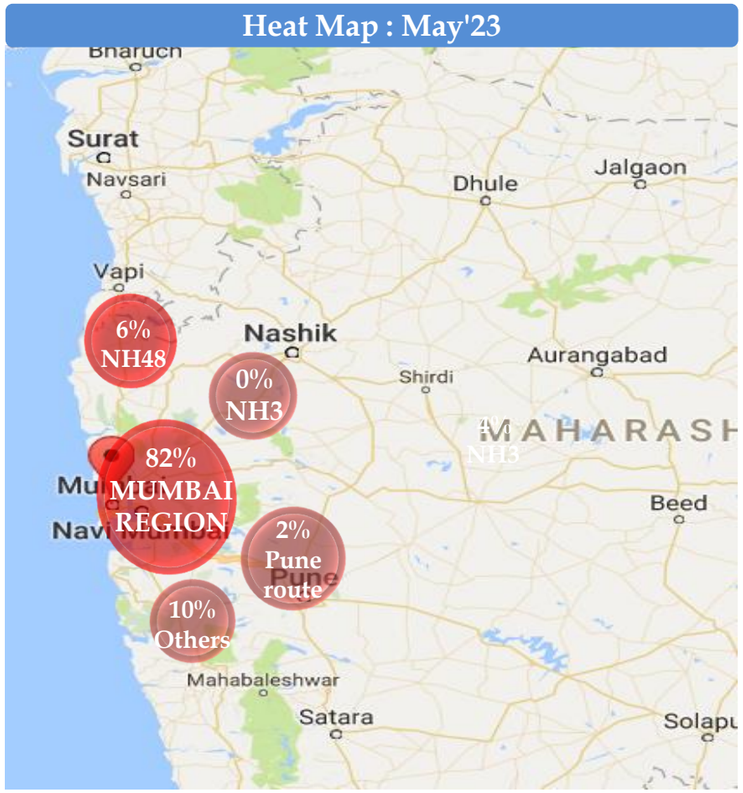


Region	Apr'23	May'23
Mumbai region	78%	77%
NH3	1%	1%
Pune	4%	4%
NH48	7%	8%
others	10%	10%

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

Container movement around JNPA Port terminal region via Truck

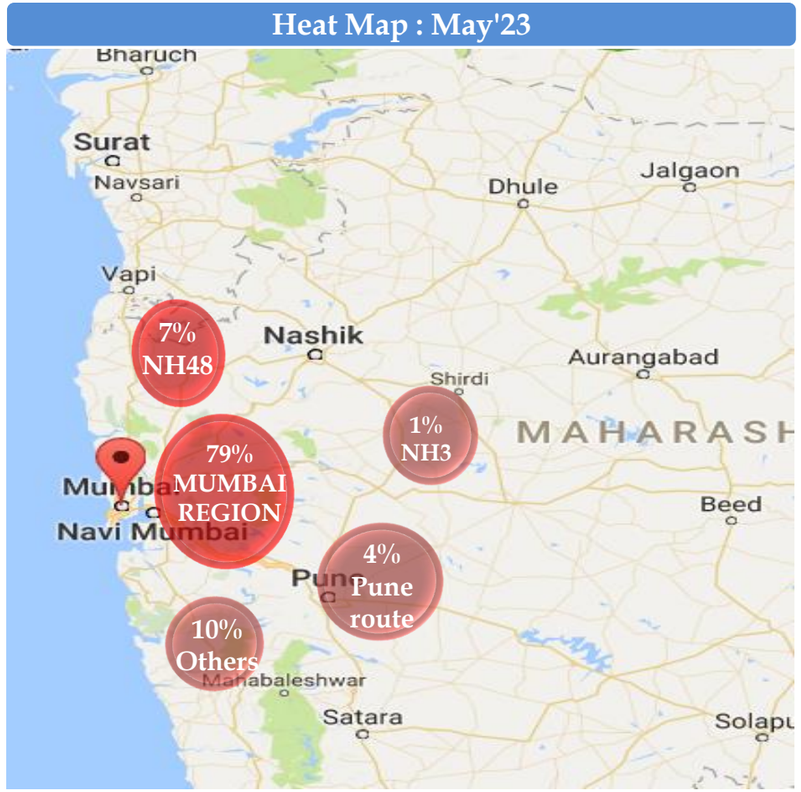
HEAT MAP : NSIGT Port Terminal



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

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

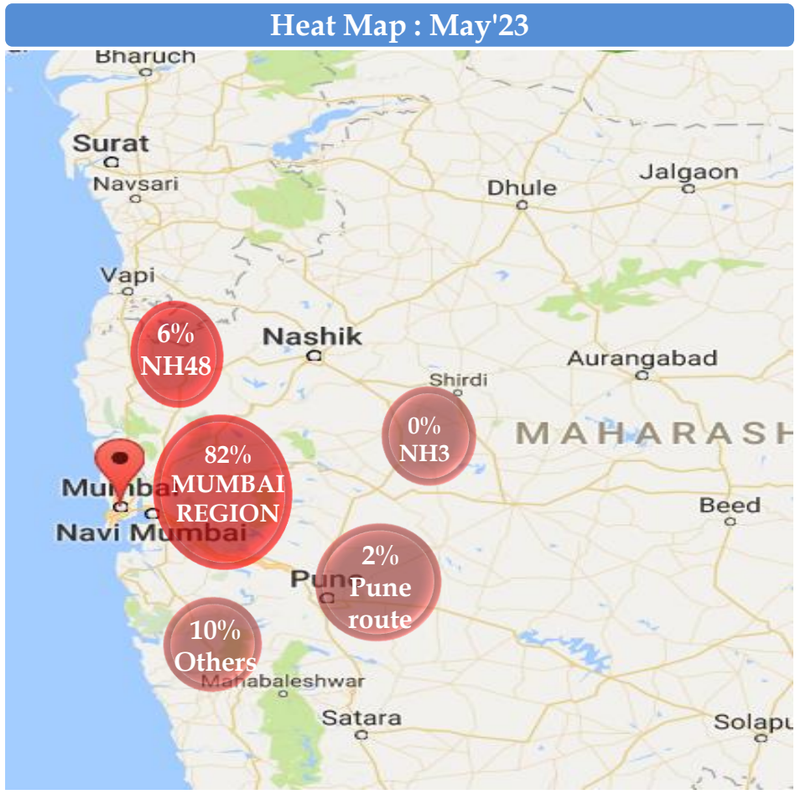
HEAT MAP : NSICT Port Terminal



Region	Apr'23	May'23
Mumbai region	80%	79%
NH3	1%	0%
Pune	3%	4%
NH48	6%	7%
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'23	May'23
Mumbai region	81%	82%
NH3	0%	0%
Pune	2%	2%
NH48	7%	6%
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) – May'23 (in hrs)

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.1	4.2	4.4	2.0	5.1
Punjab Conware CFS, Navi Mumbai	2.7	3.2	6.0	1.8	4.5
JWC Logistics Park CFS	4.1	1.7	5.0	6.4	4.6
Dronagiri Rail Terminal CFS, Navi Mumbai	7.0	9.0	4.8	2.5	4.0
Navkar Corporation Yard 2 CFS, Panvel	7.5	4.8	7.0	8.4	7.4
Vaishno Logistics CFS, Navi Mumbai	12.4	1.4	6.8	8.7	4.5
Speedy Multimode CFS, JNPT	3.0	1.2	3.1	2.1	3.1
Navkar Corporation Yard 3 CFS, Panvel	4.8	4.5	7.6	3.1	8.0
Ashte Logistics CFS, Panvel	2.0	3.4	3.7	2.0	5.9
Continental Warehousing CFS, Navi Mumbai	1.3	1.6	6.3	3.8	2.4
SBW Logistics CFS, Navi Mumbai	-	11.0	10.9	-	13.0
Maharashtra State Corp CFS	8.5	3.9	4.8	1.8	5.2
International Cargo Terminal CFS	6.6	9.6	7.3	1.8	12.9
Seabird CFS, Navi Mumbai	2.7	1.4	5.5	4.9	3.0
Apollo Logisolutions CFS, Panvel	4.9	2.4	6.9	4.4	5.7
Ameya Logistics CFS, Navi Mumbai	10.3	3.2	4.6	2.9	4.7
AllCargo Logistics	3.8	2.7	2.2	1.4	6.7
Ocean Gate CFS, Panvel	5.8	1.8	5.8	1.5	7.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.1	2.1	3.8	5.2	5.3
Kerry Indev Logistics Pvt Ltd CFS	-	1.6	2.8	2.2	4.2
APM (Maersk India) CFS, Navi Mumbai	9.7	1.0	4.8	-	3.0

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) – May'23 (in hrs)

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.3	2.4	2.4	2.0	2.3
APM (Maersk India) CFS, Navi Mumbai	1.8	2.8	2.2	2.1	2.1
International Cargo Terminal CFS	2.6	2.5	1.9	2.1	2.0
Ameya Logistics CFS, Navi Mumbai	2.0	2.5	2.4	2.2	2.4
AllCargo Logistics	3.5	3.4	3.3	2.9	3.2
Kerry Indev Logistics Pvt Ltd CFS	3.4	3.1	3.0	2.8	2.9
Navkar Corporation Yard 3 CFS, Panvel	2.4	3.2	3.7	3.2	3.2
Seabird CFS, Navi Mumbai	2.6	2.0	2.6	2.8	2.5
Ashte Logistics CFS, Panvel	2.5	2.6	2.3	2.2	2.5
Continental Warehousing CFS, Navi Mumbai	1.5	1.5	1.7	1.4	1.5
Dronagiri Rail Terminal CFS, Navi Mumbai	4.1	1.9	3.4	3.1	1.4
Navkar Corporation Yard 1 CFS, Panvel	3.4	3.1	3.2	3.1	3.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.2	3.6	2.5	2.7	2.5
Maersk Annex (APM)CFS, Navi Mumbai	1.5	3.7	2.0	1.5	1.6
Speedy Multimode CFS, JNPT	1.6	1.6	1.6	1.5	1.4
Apollo Logisolutions CFS, Panvel	3.5	4.3	4.3	3.5	4.1
Navkar Corporation Yard 2 CFS, Panvel	3.8	3.2	4.6	3.4	3.7
Punjab Conware CFS, Navi Mumbai	1.9	2.0	1.9	1.7	1.8
Vaishno Logistics CFS, Navi Mumbai	2.1	2.5	2.2	1.9	1.8
JWC Logistics Park CFS	2.1	2.3	2.3	2.2	2.3
SBW Logistics CFS, Navi Mumbai	7.1	4.5	6.7	2.1	4.0
Ocean Gate CFS, Panvel	2.7	2.9	3.0	2.9	2.8
Maharashtra State Corp CFS	1.8	1.8	1.8	1.5	1.8

JNPA 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 NSFT terminal

CFS Cluster : GTI Terminal

GTI terminal for month of May'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	1.2
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	3.6
Cluster 4	1	13	2.5	1.4
Cluster 5	2	25	2.6	1.8
Cluster 6	6	25	3.2	3.4
Cluster 7	4	12	2.5	2.7
Cluster 8	1	34	4.5	11.0

CFS Cluster : NSFT Terminal

NSFT terminal for month of May'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	3.0
Cluster 2	6	13	-	-
Cluster 3	6	11	2.3	4.8
Cluster 4	1	13	2.1	12.4
Cluster 5	2	25	2.4	5.0
Cluster 6	6	25	3.4	-
Cluster 7	4	12	2.0	3.8
Cluster 8	1	34	7.1	-

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**

JNPA Region : Cluster Analysis

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

CFS Cluster : NSICT Terminal

NSICT terminal for month of May'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	3.1
Cluster 2	6	13	-	-
Cluster 3	6	11	2.3	5.2
Cluster 4	1	13	2.2	6.8
Cluster 5	2	25	2.7	5.4
Cluster 6	6	25	3.5	6.9
Cluster 7	4	12	2.4	4.6
Cluster 8	1	34	6.7	10.9

CFS Cluster : NSIGT Terminal

NSIGT terminal for month of May'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	2.1
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	2.2
Cluster 4	1	13	1.9	8.7
Cluster 5	2	25	2.6	4.0
Cluster 6	6	25	3.2	3.1
Cluster 7	4	12	2.2	2.9
Cluster 8	1	34	2.1	-

CFS Cluster : BMCT Terminal

BMCT terminal for month of May'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	1.4	3.1
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	4.2
Cluster 4	1	13	1.8	4.5
Cluster 5	2	25	2.5	5.8
Cluster 6	6	25	3.3	5.9
Cluster 7	4	12	2.4	4.7
Cluster 8	1	34	4.0	13.0

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**

JNPA Region : Destination-wise Dwell Time – Import

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	54.5	114.3	103.1	103.1	-	83.3
Ankaleshwar	54.6	36.2	58.0	58.0	-	54.9
Ballabhgarh	235.2	99.6	151.5	151.5	36.8	113.3
Baroda	-	55.6	60.1	60.1	44.9	59.9
Boisar	125.3	-	78.1	78.1	51.8	81.9
Dadri	34.1	-	55.3	55.3	49.8	36.4
Daulatabad	50.0	42.7	54.8	54.8	39.5	49.3
Faridabad	127.0	130.7	250.3	250.3	-	133.2
Guhati	236.5	144.1	133.5	133.5	56.2	183.3
Indore	65.5	-	61.5	61.5	58.1	57.9
Jaipur	79.5	62.7	28.5	28.5	37.5	40.4
Kanpur	53.9	78.2	91.8	91.8	94.7	65.8
Khatuwas	-	47.9	-	-	-	47.9
Khodiyar	66.4	84.8	52.7	52.7	95.3	65.0
Khopate	15.3	0.6	-	-	-	15.3
Ludhiana	70.0	80.5	53.7	53.7	43.8	58.6
Malanpur	37.6	89.8	122.4	122.4	63.1	59.3
Mandideep	56.5	-	80.8	80.8	58.6	58.3
Moradabad	55.6	68.8	69.3	69.3	27.9	55.6
Nagpur	54.2	-	45.9	45.9	39.0	50.4
Navi Mumbai	15.6	24.8	18.4	18.4	15.9	17.0
Patparganj	64.5	48.8	-	-	-	55.4
Raipur	-	-	131.6	131.6	-	131.6
Sanatnagar	28.9	-	42.0	42.0	-	34.0
Thimmapur	148.8	-	102.9	102.9	105.6	121.1
Tughlakabad	38.8	-	53.7	53.7	41.9	41.6
Umbergaon	182.9	-	34.9	34.9	46.0	155.6
Wardha	930.5	-	-	-	934.7	933.4

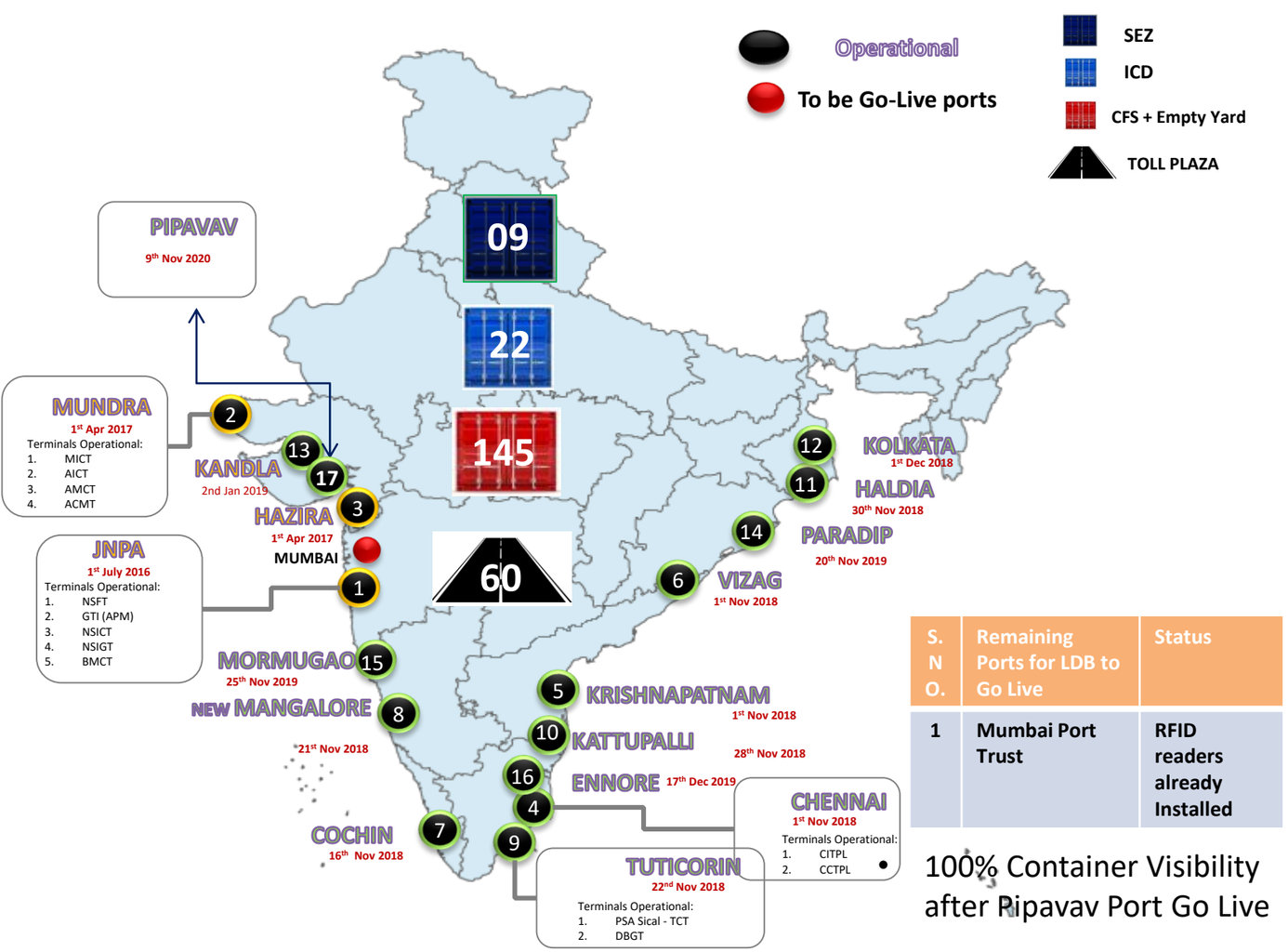
JNPA Region : Destination-wise Dwell Time – Import

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	18.5	-	15.6	15.6	17.3	17.9
Ameya Logistics CFS, Navi Mumbai	15.3	0.6	16.2	16.2	18.9	16.4
APM (Maersk India) CFS, Navi Mumbai	18.2	9.5	13.7	13.7	19.8	16.2
Apollo Logisolutions CFS, Panvel	16.8	16.7	20.7	20.7	20.1	17.8
Ashte Logistics CFS, Panvel	14.7	12.5	17.7	17.7	12.8	14.3
Balmer & Lawrie CFS, Navi Mumbai	17.2	12.7	25.4	25.4	22.8	18.4
Continental Warehousing CFS, Navi Mumbai	12.9	11.3	18.4	18.4	16.7	13.5
CWC Impex Park	15.8	14.4	20.3	20.3	23.3	16.8
Dronagiri Rail Terminal CFS, Navi Mumbai	26.0	24.8	20.7	20.7	-	25.1
EFC Logistics	15.4	12.1	18.7	18.7	18.5	15.6
Gateway Distriparks CFS, Navi Mumbai	15.5	13.5	18.2	18.2	18.2	15.9
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	-	17.0	17.0	18.8	17.9
JWC Logistics Park CFS	12.8	10.0	14.3	14.3	14.0	12.2
Kerry Indev Logistics Pvt Ltd CFS	16.0	20.3	27.0	27.0	19.5	20.2
Maharashtra State Corp CFS	22.3	15.3	19.6	19.6	24.1	21.5
Navkar Corporation	17.0	12.2	28.1	28.1	23.3	17.6
Ocean Gate CFS, Panvel	16.1	11.1	15.7	15.7	17.5	14.8
Sarveshwar Logistics	14.3	8.4	19.3	19.3	14.3	14.2
SBW Logistics CFS, Navi Mumbai	19.7	-	41.3	41.3	-	21.6
Seabird CFS, Navi Mumbai	15.6	-	21.2	21.2	22.6	19.0
Speedy Multimode CFS, JNPT	13.8	-	19.8	19.8	19.8	15.7
Take Care Logistics	16.4	10.7	17.2	17.2	16.3	15.8
TG Terminals	22.9	-	20.4	20.4	29.3	23.6
Vaishno Logistics CFS, Navi Mumbai	23.0	24.4	24.7	24.7	26.5	24.5

LDB Operations Snapshot



S. NO.	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 8
SBW

Cluster 6
(Salva apta rd area, Bangalore highway)

- Ashte Logistics CFS, Panvel
- Apollo Logisolutions CFS, Panvel
- Indev Logistics CFS, Panvel
- Navkar Corporation Yrd 1 CFS, Panvel
- Navkar Corporation Yard 2 CFS, Panvel
- Navkar Corporation Yard 3 CFS, Panvel

Cluster 7
(Patilpada area, Khopate JNPA road)

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

Annexure – Western Region CFS

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