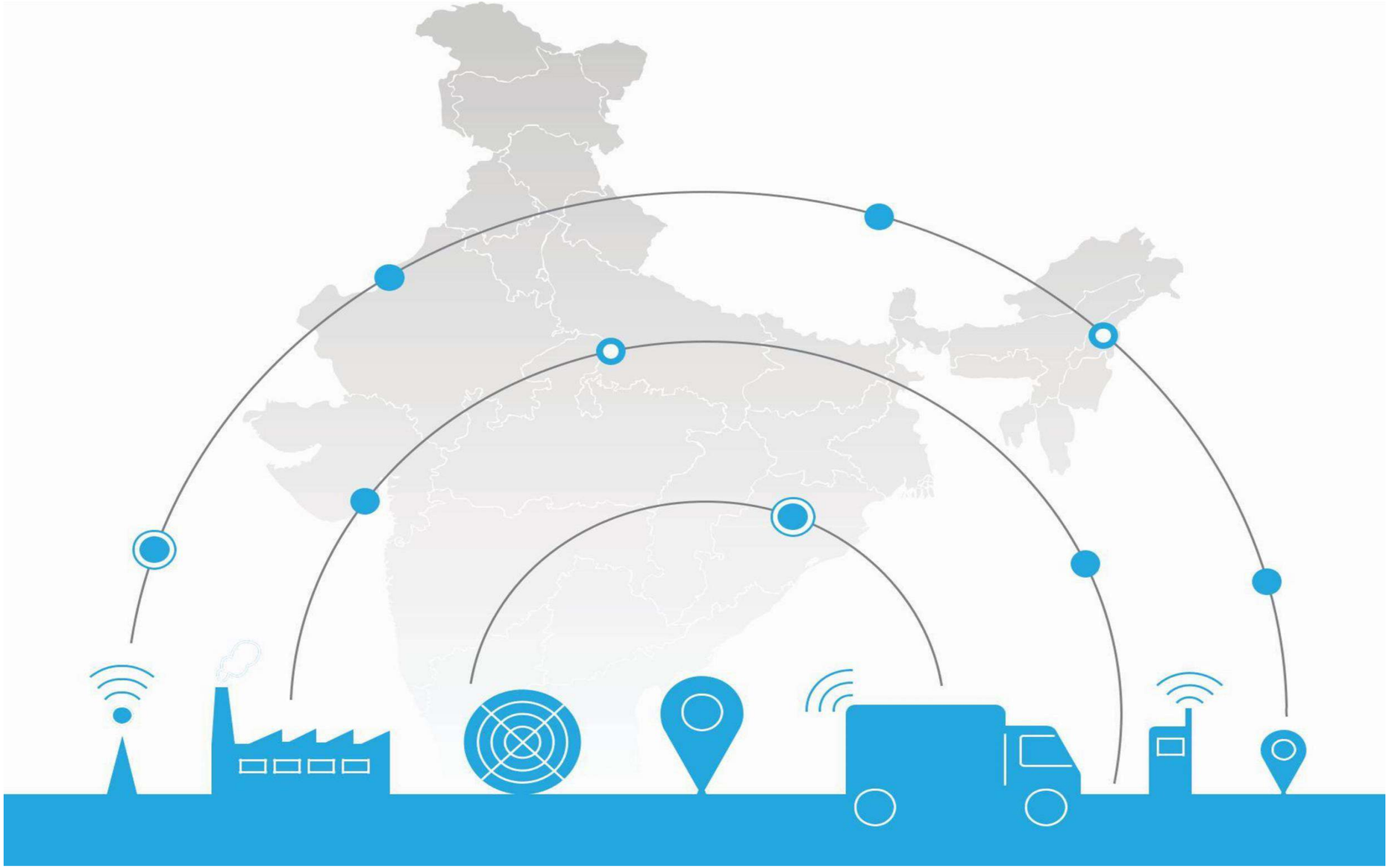
Logistics Databank Analytics Report - JNPA – February 2023



Executive Summary

Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	**Jan'23 (in hrs)**	**Feb'23 (in hrs)**
JNPCT	-	-
NSICT	23.9	34.4
GTI	17.6	22.1
NSIGT	22.9	31.8
BMCT/ PSA	25.2	28.6

Export Cycle		
Port	**Jan'23 (in hrs)**	**Feb'23 (in hrs)**
JNPCT	-	-
NSICT	59.0	64.2
GTI	71.0	69.1
NSIGT	75.2	80.9
BMCT/ PSA	77.0	66.9

Critical Incident Summary

Jawaharlal Nehru Port Authority

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

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time	ICD
Feb'23	**27.8 hrs** ↓ 26.9%	**69.5 hrs** ↑ 2.0%	**80.3 hrs** ↓ 3.3%	**112.4 hrs** ↑ 5.6%
Jan'23	**21.9 hrs**	**70.9 hrs**	**77.7 hrs**	**119.1 hrs**

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	Jan'23 (in hrs)	Feb'23 (in hrs)
Overall	23.4	30.3
Truck	19.0	26.5
Train	84.8	69.9

EXPORT

Mode	Jan'23 (in hrs)	Feb'23 (in hrs)
Overall	84.8	81.7
Truck	81.5	78.0
Train	103.2	103.3

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

Entity	Jan'23 (in hrs)	Feb'23 (in hrs)
CFS	79.5	81.8
ICD	119.1	112.4

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

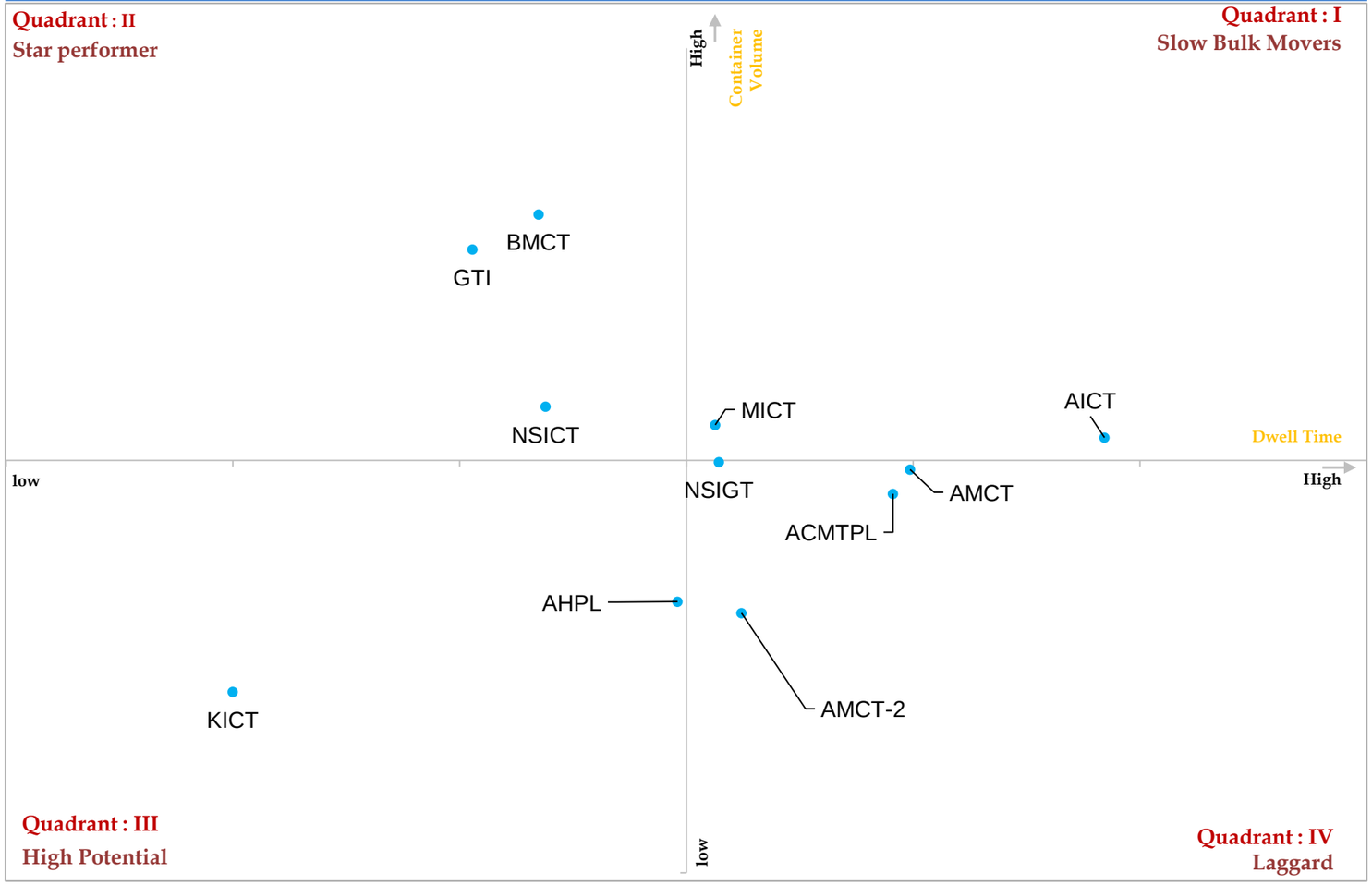
The marked entries showcase Decrease in performance in comparison to Jan'23

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 – Feb'23



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

Top Performing Terminal

Bharat Mumbai Container Terminals (PSA)	
Jan'23	Feb'23
48.4 hrs	47.0 hrs

Low Performing Terminal

Adani Mundra Container Terminal-2 (AMCT-2)	
Jan'23	Feb'23
55.5 hrs	60.9 hrs

Note: The performance benchmarking is based on performance index

The arrows depict increase/Decrease in overall performance of the stakeholders in comparison to Jan'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	Jan'23 (in hrs)	Feb'23 (in hrs)
Overall	21.9	27.8
Truck	18.2	24.0
Train	86.3	69.6

EXPORT

Mode	Jan'23 (in hrs)	Spe'22 (in hrs)
Overall	70.9	69.5
Truck	70.5	67.8
Train	73.4	80.7

Transit Time

Towards ICD

Station

Transit Cycle	Jan'23 (in hrs)	Feb'23 (in hrs)
Port to ICD	83.2	79.0
Port to CFS	2.86	2.78

Towards CFS

From ICD

Station

Transit Cycle	Jan'23 (in hrs)	Spe'22 (in hrs)
ICD to Port	107.6	109.2
CFS to Port	4.45	5.06

From CFS

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

ICD

CFS

Entity	Jan'23 (in hrs)	Feb'23 (in hrs)
CFS	77.7	80.3
ICD	119.1	112.4

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	83%	17%
Export	80%	20%

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

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

Container Lifecycle (Export Cycle)

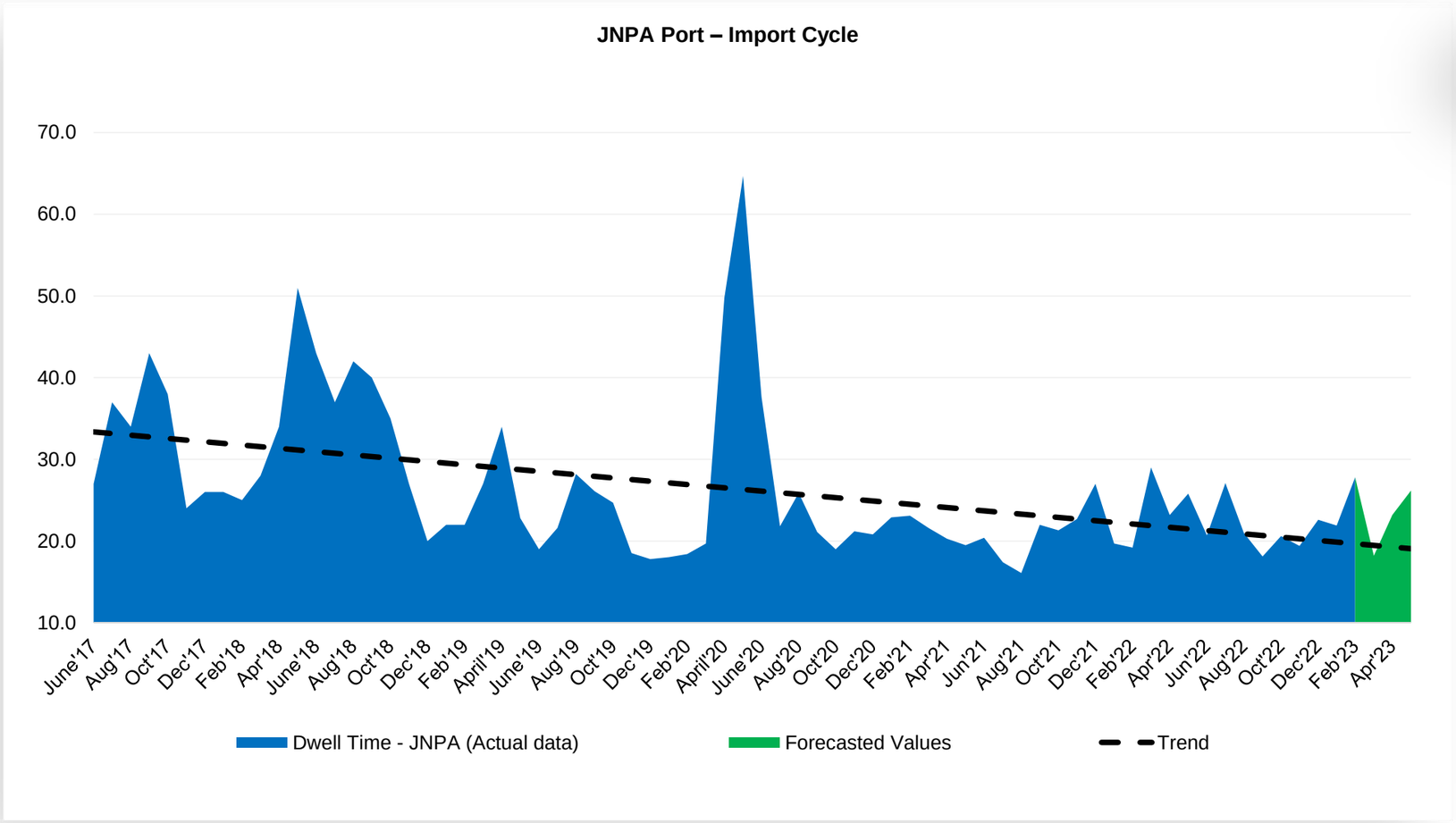
Container Transportation- JNPA Port Terminals

IMPORT CYCLE DWELL TIME (Feb'23 – in hrs)			Compared to Jan'23
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	27.8	26.9% ↓
	Port Dwell Time for Truck Bound Containers	24.0	31.9% ↓
	Port Dwell time for Train Bound Containers	69.6	19.4% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	31.5	8.6% ↓
	Port Dwell time Containers bound for CFS	20.0	20.5% ↓
	Port Dwell for Empty Containers	48.1	82.9% ↓
	Port Dwell for Laden Containers	24.3	15.2% ↓
TRANSIT TIME	Port to ICD	79.0	5.0% ↑
	Port to CFS	2.78	2.8% ↑

EXPORT CYCLE DWELL TIME (Feb'23– in hrs)			Compared to Jan'23
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	69.5	2.0% ↑
	Port Dwell Time for Truck Bound Containers	67.8	3.8% ↑
	Port Dwell time for Train Bound Containers	80.7	9.9% ↓
	Port Dwell time Direct Port Entry (DPE) containers	66.0	2.5% ↑
	Port Dwell time Containers bound from CFS	67.2	2.0% ↑
	Port Dwell for Empty Containers	64.9	0.8% ↑
	Port Dwell for Laden Containers	70.6	2.5% ↑
TRANSIT TIME	ICD to Port	109.2	1.5% ↓
	CFS to Port	5.06	13.7% ↓

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

Predicted Dwell Time (in hrs)

Mar'22	Apr'23	May'23
18.2	**23.2**	**26.2**

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	Jan'23 (in hrs)	Feb'23 (in hrs)
Overall Parking Plaza	5.10	5.42

Container Handled: Day wise (Feb'23)

Port Terminals	Within 0-2 hrs	Within 2-4 hrs	Within 4-8 hrs	Within 8-16 hrs	Within 16-24 hrs	More than 24 hrs
JNPA Central Parking Plaza	10%	25%	35%	22%	6%	3%

Parking Plaza Gate Out – Terminal In

Mode	Jan'23 (in hrs)	Feb'23 (in hrs)
Overall Parking Plaza to JNPA Port	1.88	2.55

Port	Jan'23 (in hrs)	Feb'23 (in hrs)
JNPCT	-	-
NSICT	2.0	4.1
GTI	0.8	1.2
NSIGT	1.2	2.0
BMCT	6.3	4.7

Container Handled: Day wise (Feb'23)

Port Terminals	Within 0-2 hrs	Within 2-4 hrs	Within 4-8 hrs	Within 8-16 hrs	Within 16-24 hrs	More than 24 hrs
JNPCT	-	-	-	-	-	-
NSICT	24%	25%	37%	12%	2%	1%
GTI	73%	20%	4%	1%	0%	0%
NSIGT	50%	37%	10%	2%	1%	0%
PSA	7%	33%	46%	13%	1%	0%

CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

CFS — Performance Benchmarking — ICD

Top Performing CFS

Adani CFS Eximyard, Mundra	
Jan'23	Feb'23 ↑
77.0 hrs	66.1 hrs

Low Performing CFS

Ocean Gate CFS, Panvel	
Jan'23	Feb'23 ↓
103.6 hrs	107.6 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

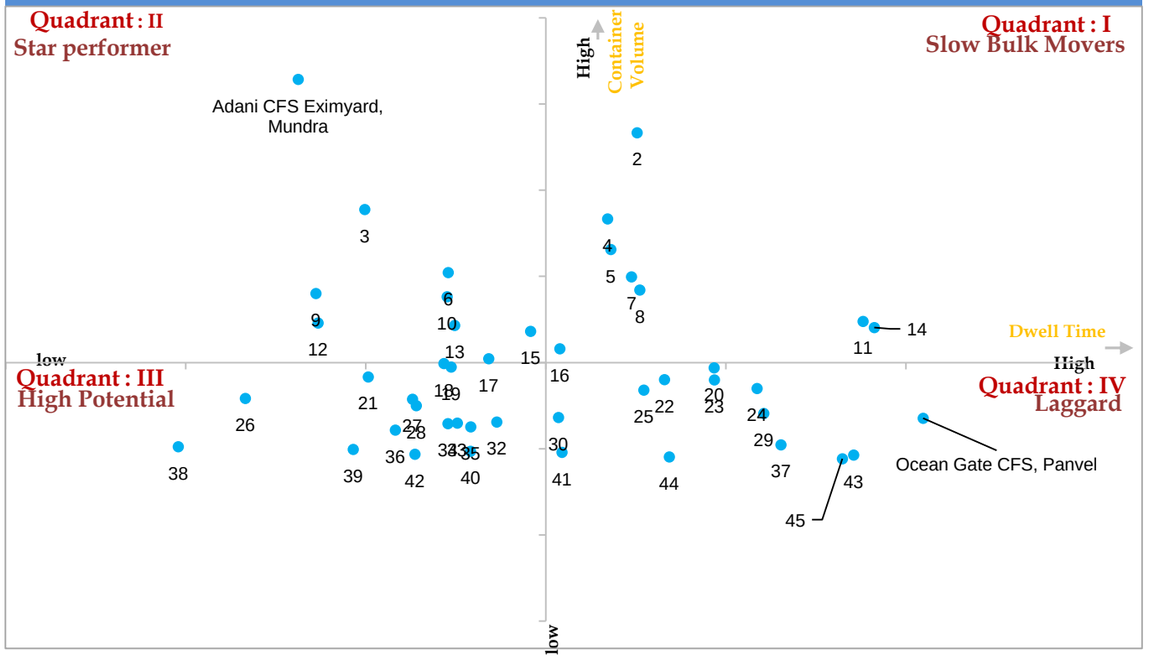
Top Performing ICD

Pristine ICD Chawapail , Ludhiana	
Jan'23	Feb'23 ↓
96.5 hrs	113.5 hrs

Low Performing ICD

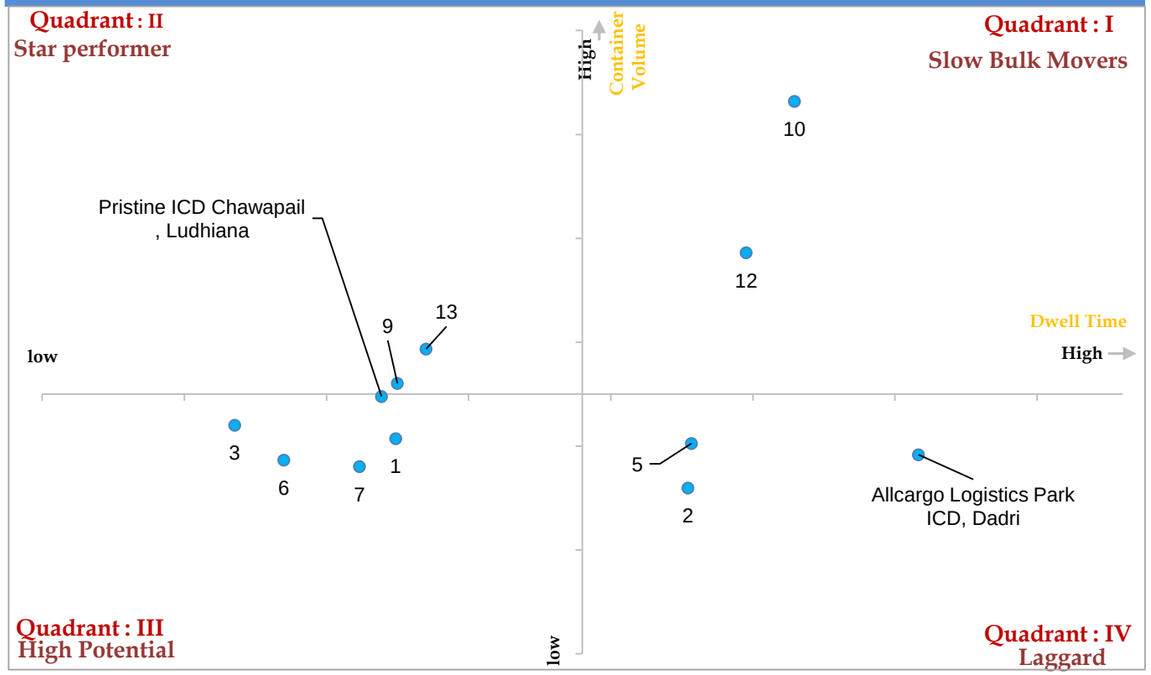
Allcargo Logistics Park ICD, Dadri	
Jan'23	Feb'23 ↓
111.6 hrs	139.5 hrs

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)

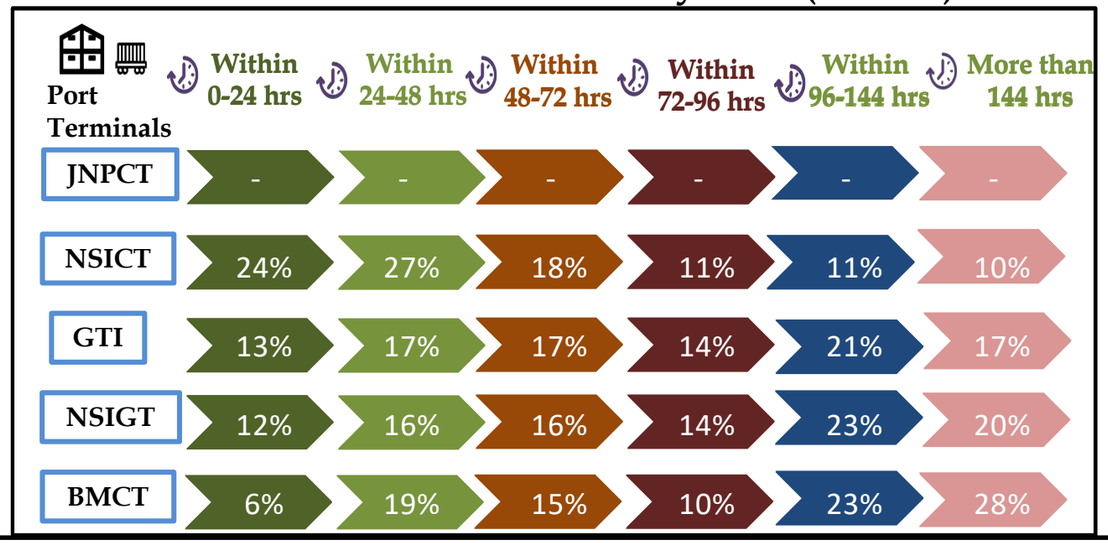
The below tables depict the port dwell time performance at JNPA port for truck and train bound containers in import cycle

PORT IMPORT via TRAIN
(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	Jan'23 (in hrs)	Feb'23 (in hrs)
JNPCT	-	-
NSICT	85.0	82.0
GTI	55.1	47.6
NSIGT	118.2	98.2
BMCT	106.0	76.8

Container Handled: Day wise (Feb'23)

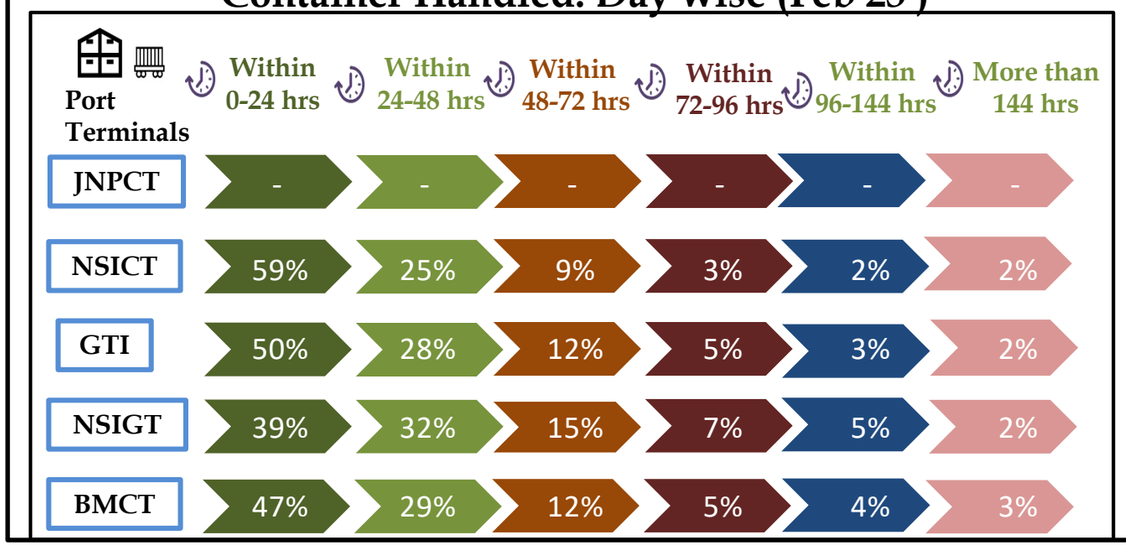


PORT IMPORT via TRUCK
(83% of total import volume at JNPA Port)

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	Jan'23 (in hrs)	Feb'23 (in hrs)
JNPCT	-	-
NSICT	20.6	30.3
GTI	15.0	19.8
NSIGT	17.4	25.7
BMCT	20.4	24.0

Container Handled: Day wise (Feb'23)



JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

Jan'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	-	-

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	-	-

GTI

Port Dwell time based on transit type

Jan'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	25.5 hrs	16.7 hrs

Port Dwell time based on transit type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	19.6 hrs	39.9 hrs

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type

Jan'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	46.3 hrs	25.2 hrs

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	29.5 hrs	57.3 hrs

NSIGT

Port Dwell time based on transit type

Jan'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	48.2 hrs	21.7 hrs

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	26.6 hrs	46.8 hrs

BMCT

Port Dwell time based on transit type

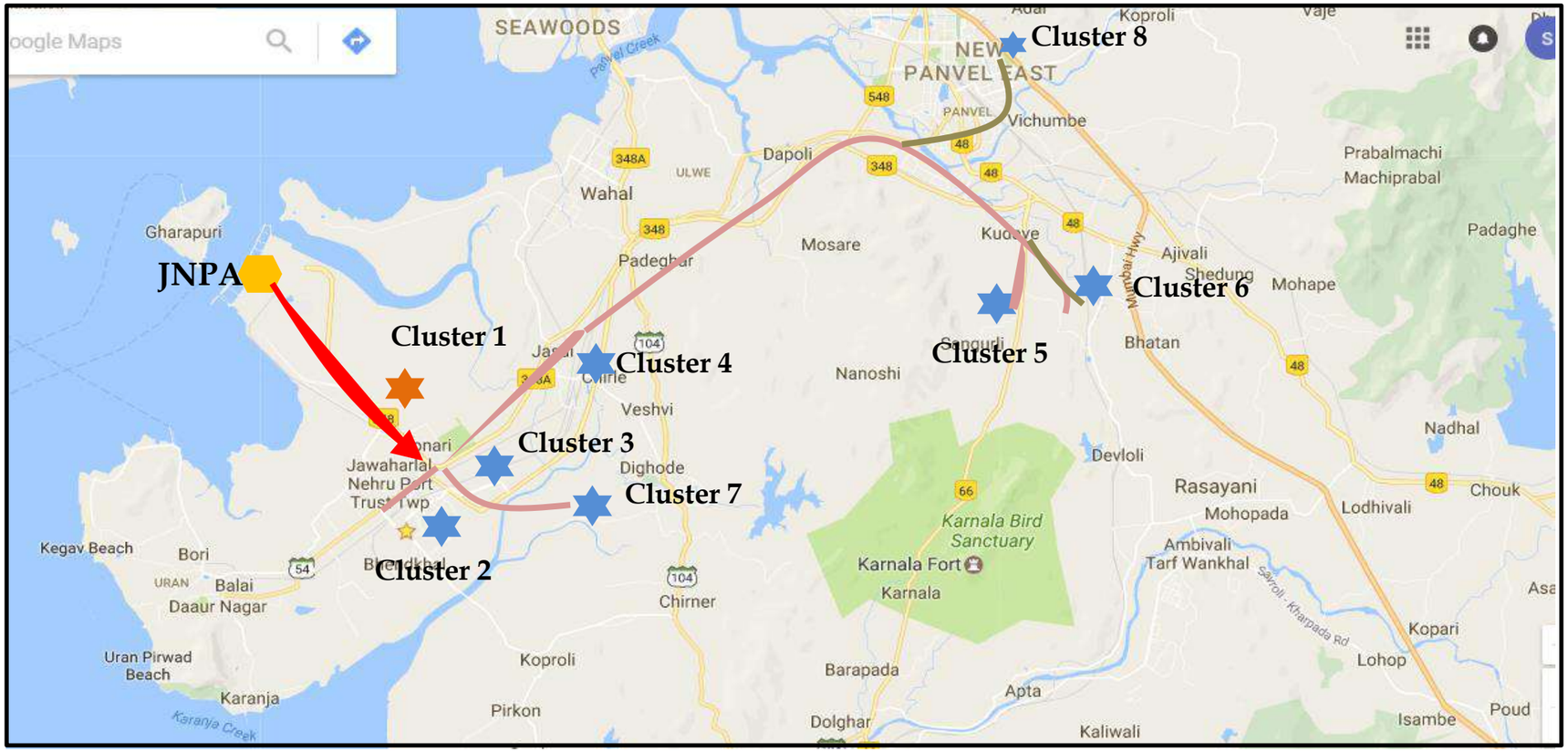
Jan'23	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	28.9 hrs	20.5 hrs

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	25.5 hrs	48.7 hrs

JNPA Region: Congestion Analysis (Import Cycle)

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

JNPCT 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

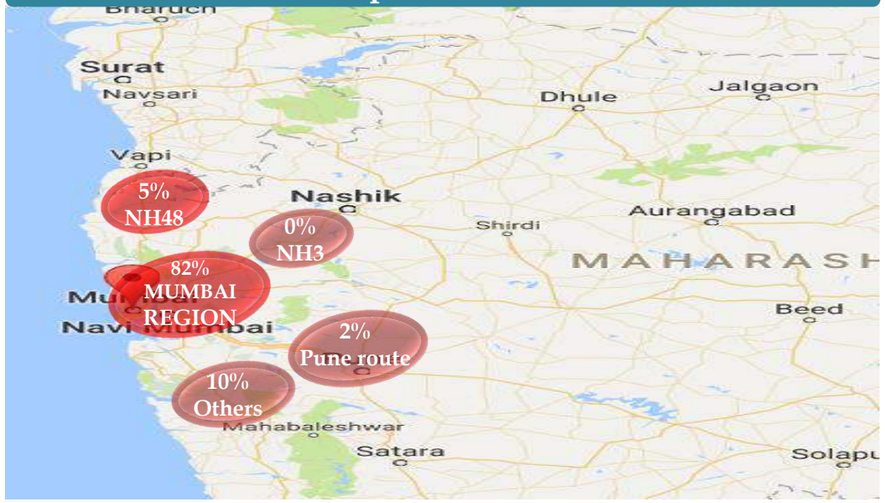
Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Feb'23
Mumbai region	82%
NH3	0%
Pune	2%
NH48	5%
others	10%

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

Heat Map via Truck: Feb'23



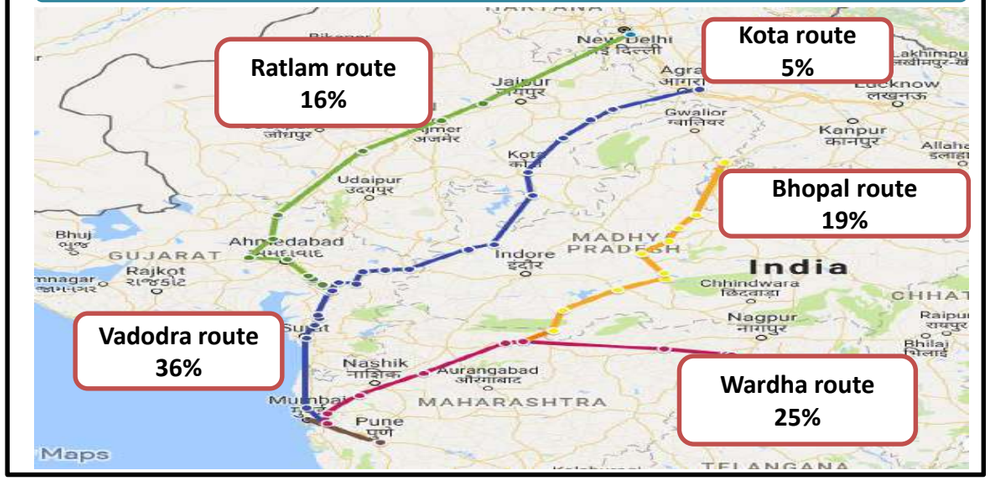
Train

VOLUME WISE CONTAINER MOVEMENT

Region	Feb'23
Vadodra Route	36%
Ratlam Route	16%
Wardha Route	25%
Kota Route	5%
Bhopal Route	19%

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

Container movement via Rail – Feb'23



Western Corridor Toll Plaza Analysis

Avg. Speed between Toll to Toll Plazas					
	Source	Destination Toll Plaza	Inter Distance (Km)	Jan'23 (in km/hrs)	Feb'23 (in km/hrs)
JNPA	JNPA	Khaniwade	94	15.6	14.8
	JNPA	Khalapur	60	20.0	21.3
	Khaniwade	Charoti	50	37.1	38.1
	Charoti	Boriach	126	26.7	24.8
	Boriach	Bharthan	142	32.7	32.6
	Bharthan	Vasad	60	37.4	37.3
	Khalalpur	Khedshivpur	105	33.7	34.5

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

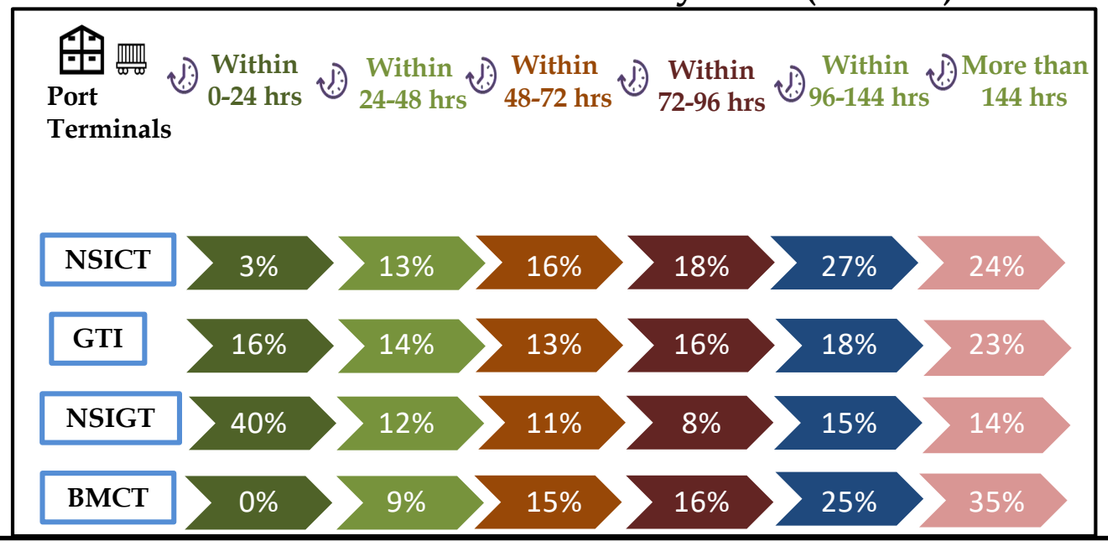
PORT EXPORT via TRAIN
(20% of total export volume at JNPA Port)

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	Jan'23 (in hrs)	Feb'23 (in hrs)
NSICT	28.4	41.3
GTI	90.2	96.4
NSIGT	87.6	113.4
BMCT	72.0	77.6

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

Container Handled: Day wise (Feb'23)

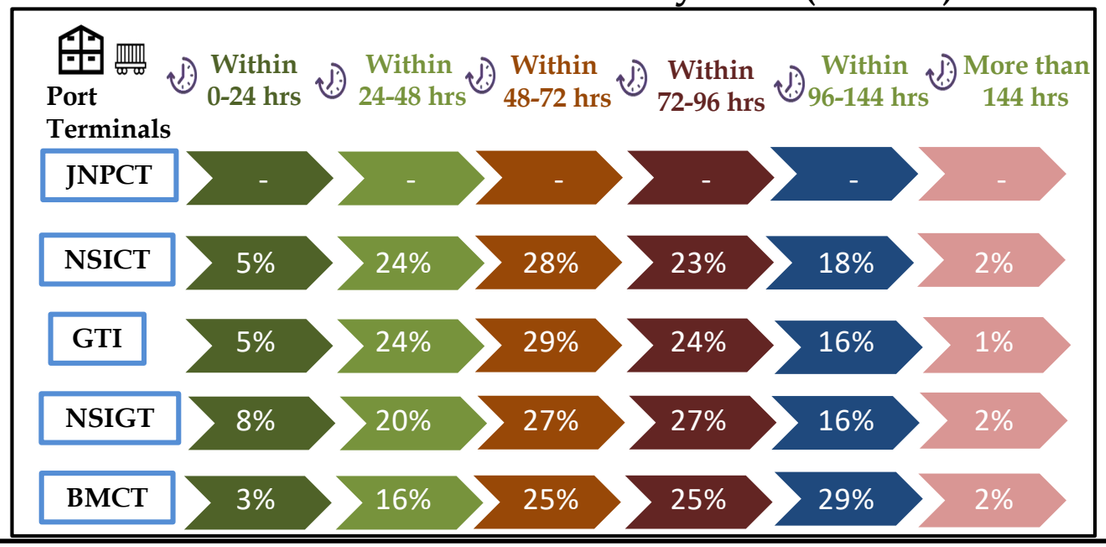


PORT EXPORT via TRUCK
(80% of total export volume at JNPA Port)

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	Jan'23 (in hrs)	Feb'23 (in hrs)
JNPCT	-	-
NSICT	63.2	67.3
GTI	66.9	65.8
NSIGT	73.8	77.2
BMCT	77.8	65.2

Container Handled: Day wise (Feb'23)



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 Feb'23

JNPCT

Port Dwell time based on transit type

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

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	-	-

GTI

Port Dwell time based on transit type

Jan'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	66.0 hrs	66.2 hrs

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	69.2 hrs	68.9 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 Feb'23

NSICT

Port Dwell time based on transit type

Jan'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	70.5 hrs

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	65.2 hrs	54.0 hrs

NSIGT

Port Dwell time based on transit type

Jan'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	74.3 hrs

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	81.0 hrs	61.5 hrs

BMCT

Port Dwell time based on transit type

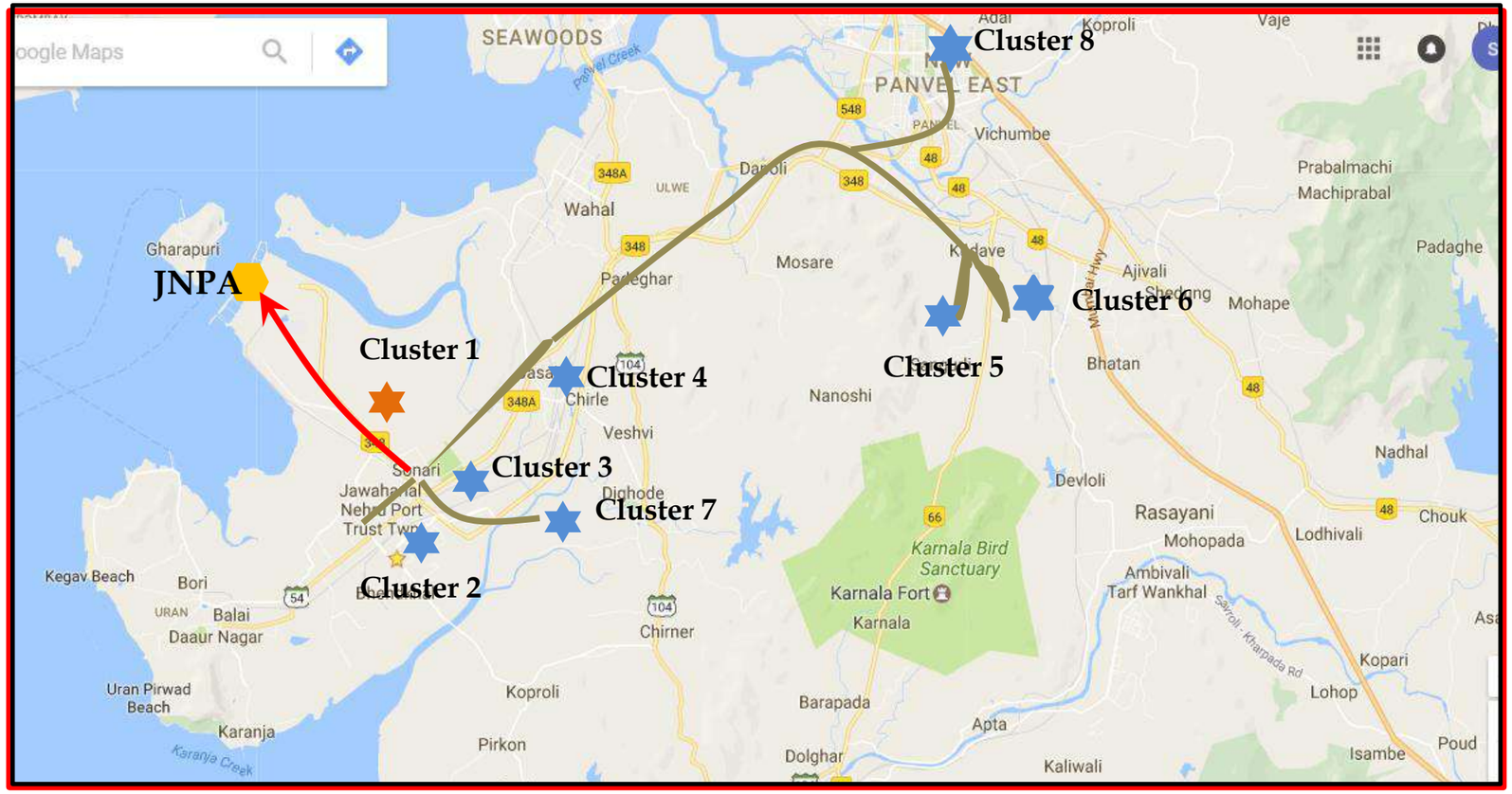
Jan'23	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	62.8 hrs

Port Dwell time based on container type

Jan'23	Laden Containers	Empty Containers
Dwell time (in hrs)	68.2 hrs	63.7 hrs

JNPA Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPA region in Export Cycle in month of Feb'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
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CLUSTER 8	Taloja, Navi Mumbai

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

GTI Terminal
Congestion Level
Export Cycle :-

JNPCT 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

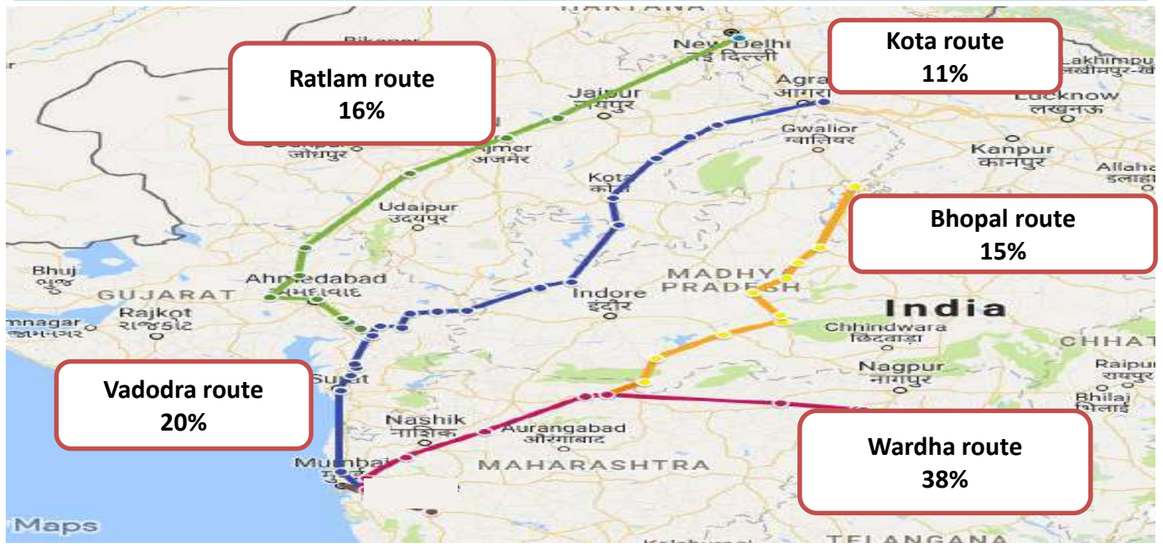
2) Analysis consist of CFS covered under LDB project

JNPA Region: Container Movement via Train

JNPA Port	
Route	**Percentage of Container Movement**
Vadodra Route	20%
Ratlam Route	16%
Wardha Route	38%
Kota Route	11%
Bhopal Route	15%

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

Container movement via Rail – Feb'23



CFS and ICD Performance

JNPA region CFS : CFS DWELL TIME ANALYSIS

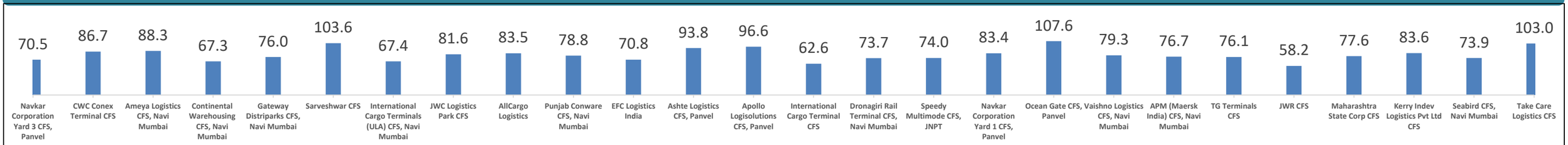
Below table and graphs show the dwell time of the respective CFSs for the month of Feb'23

CFS Dwell Time (in hrs.)

CFS	Jan'23 (in hrs)	Feb'23 (in hrs)
Navkar Corporation Yard 3 CFS, Panvel	70.9	70.5
CWC Conex Terminal CFS	76.3	86.7
Ameya Logistics CFS, Navi Mumbai	83.0	88.3
Continental Warehousing CFS, Navi Mumbai	61.9	67.3
Gateway Distriparks CFS, Navi Mumbai	74.9	76.0
Sarveshwar CFS	97.6	103.6
International Cargo Terminals (ULA) CFS, Navi Mumbai	69.9	67.4
JWC Logistics Park CFS	82.4	81.6
AllCargo Logistics	71.0	83.5
Punjab Conware CFS, Navi Mumbai	67.6	78.8
EFC Logistics India	66.6	70.8
Ashte Logistics CFS, Panvel	94.5	93.8
Apollo Logisolutions CFS, Panvel	101.0	96.6

CFS	Jan'23 (in hrs)	Feb'23 (in hrs)
International Cargo Terminal CFS	62.0	62.6
Dronagiri Rail Terminal CFS, Navi Mumbai	65.7	73.7
Speedy Multimode CFS, JNPT	82.9	74.0
Navkar Corporation Yard 1 CFS, Panvel	106.8	83.4
Ocean Gate CFS, Panvel	103.6	107.6
Vaishno Logistics CFS, Navi Mumbai	77.3	79.3
APM (Maersk India) CFS, Navi Mumbai	81.9	76.7
TG Terminals CFS	77.3	76.1
JWR CFS	61.1	58.2
Maharashtra State Corp CFS	71.1	77.6
Kerry Indev Logistics Pvt Ltd CFS	97.2	83.6
Seabird CFS, Navi Mumbai	70.4	73.9
Take Care Logistics CFS	98.8	103.0

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

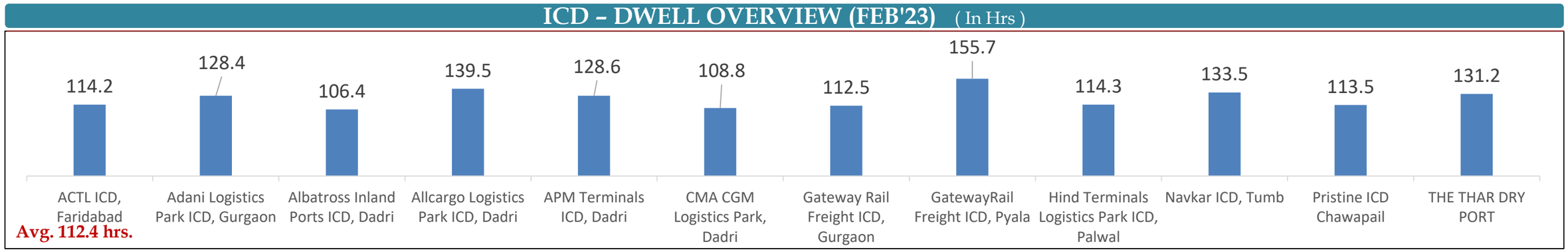


Average: 80.3 hrs.

ICD DWELL TIME ANALYSIS

The table below depicts the dwell time of all ICDs

ICD Dwell Time (in Hrs)		
ICD	**Jan'23 (in hrs)**	**Feb'23 (in hrs)**
ACTL ICD, Faridabad	112.0	114.2
Adani Logistics Park ICD, Gurgaon	133.8	128.4
Albatross Inland Ports ICD, Dadri	110.4	106.4
Allcargo Logistics Park ICD, Dadri	111.6	139.5
APM Terminals ICD, Dadri	130.0	128.6
CMA CGM Logistics Park, Dadri	102.8	108.8
Gateway Rail Freight ICD, Gurgaon	93.4	112.5
GatewayRail Freight ICD, Pyala	137.7	155.7
Hind Terminals Logistics Park ICD, Palwal	122.7	114.3
Navkar ICD, Tumb	120.2	133.5
Pristine ICD Chawapail	96.5	113.5
THE THAR DRY PORT	144.0	131.2



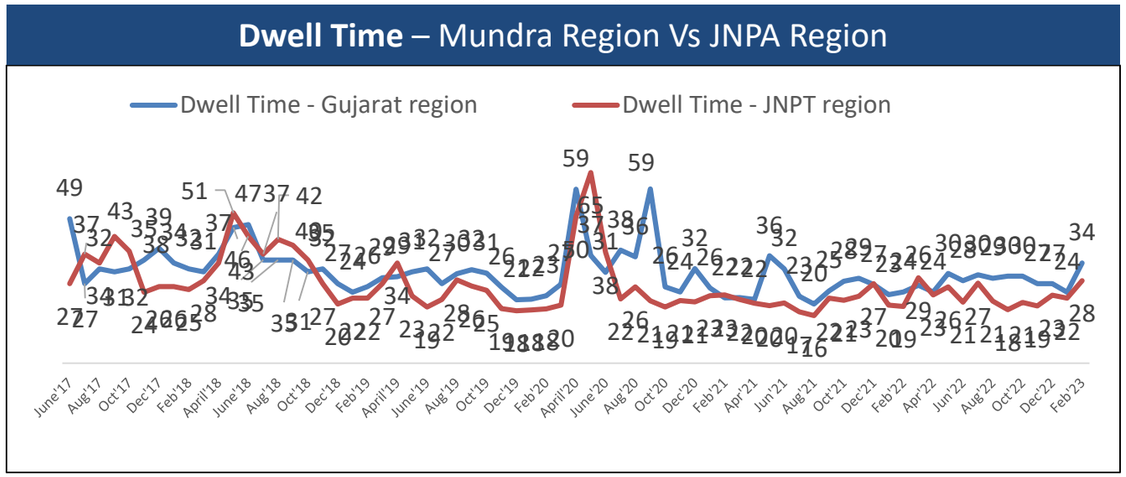
Trend Analysis

Western Corridor Port – Yearly Analysis

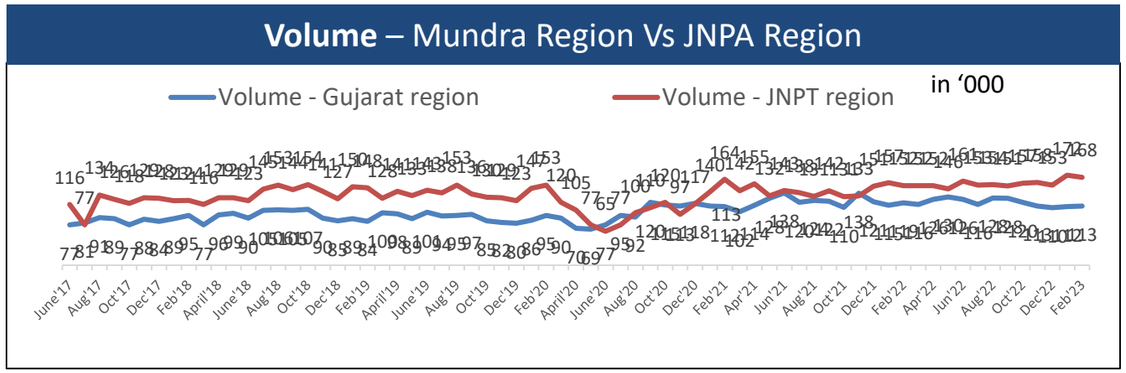
Container Volume and Dwell time of all the terminals in JNPA and Mundra Port has been analysed until Feb'23

Import Cycle

Dwell Time – Mundra Region Vs JNPA Region



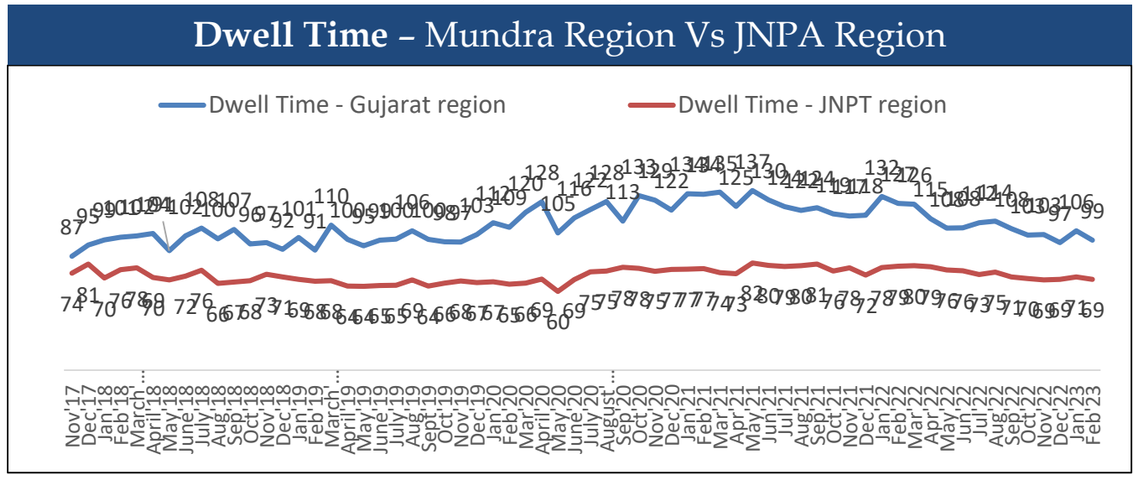
Volume – Mundra Region Vs JNPA Region



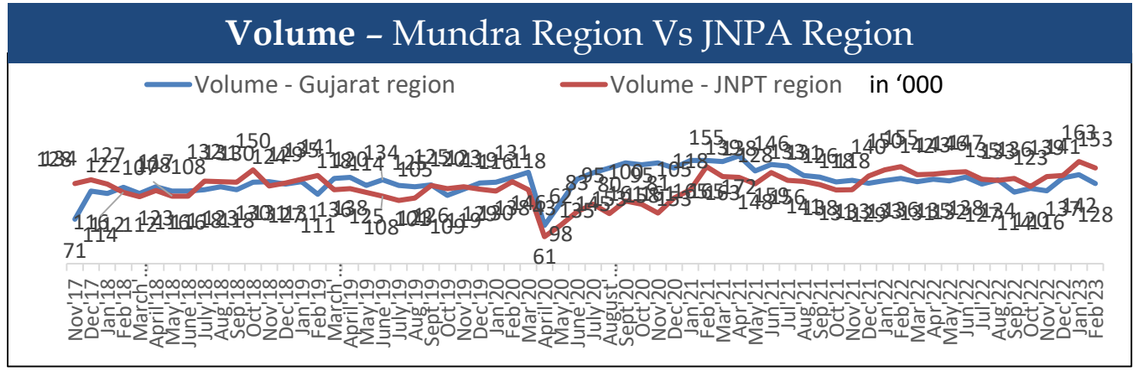
In Import cycle, for the month of Feb'23 Mundra port has catered 33.2% **less volume** than JNPA Port, and has performed with 21.1% **higher dwell time** than JNPA Port.

Export Cycle

Dwell Time – Mundra Region Vs JNPA Region



Volume – Mundra Region Vs JNPA Region

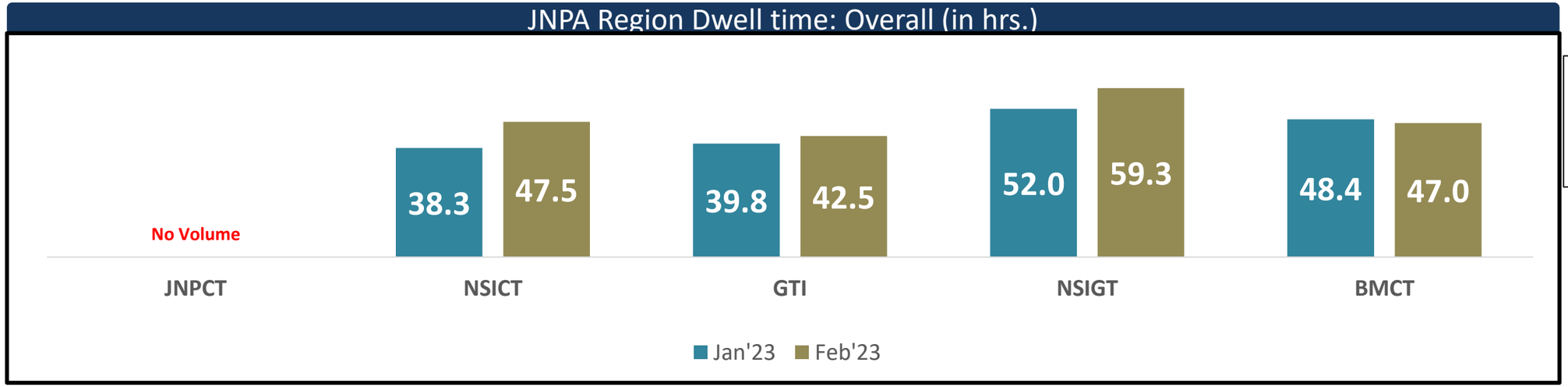


In Export cycle, for the month Feb'23 JNPA port catered 19.3**% high volume** than Mundra Port, and has maintained 29.5% **lower dwell time** than Mundra Port

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

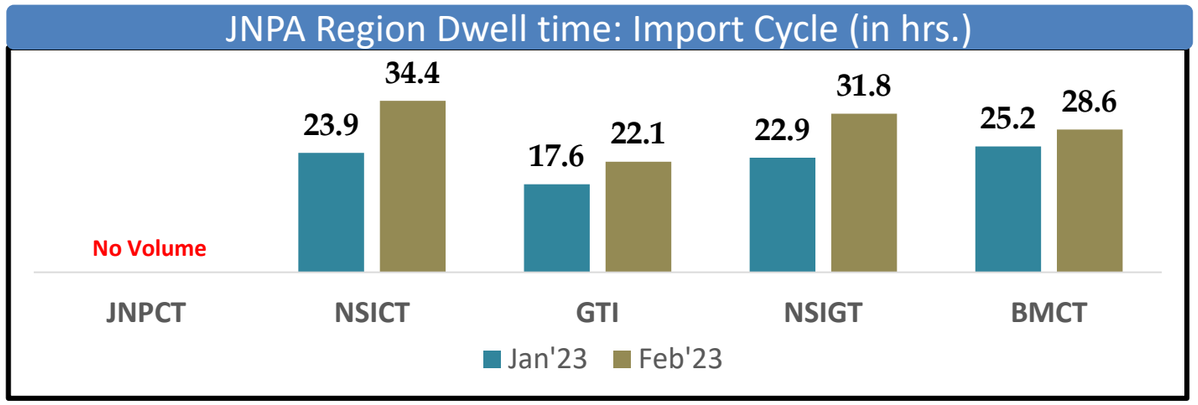


The overall JNPA region average dwell time for Feb'23 is 47.6 hrs as compared to 43.9 hrs in Jan'23

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

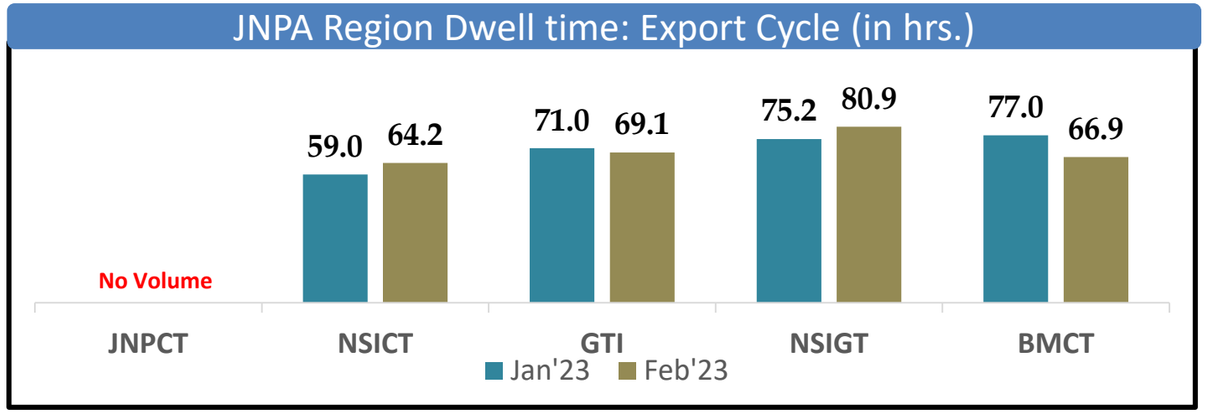
JNPA Import cycle Trend

The average import cycle dwell time of JNPA region port terminals for Feb'23 is 27.8 hrs.



JNPA Export cycle Trend

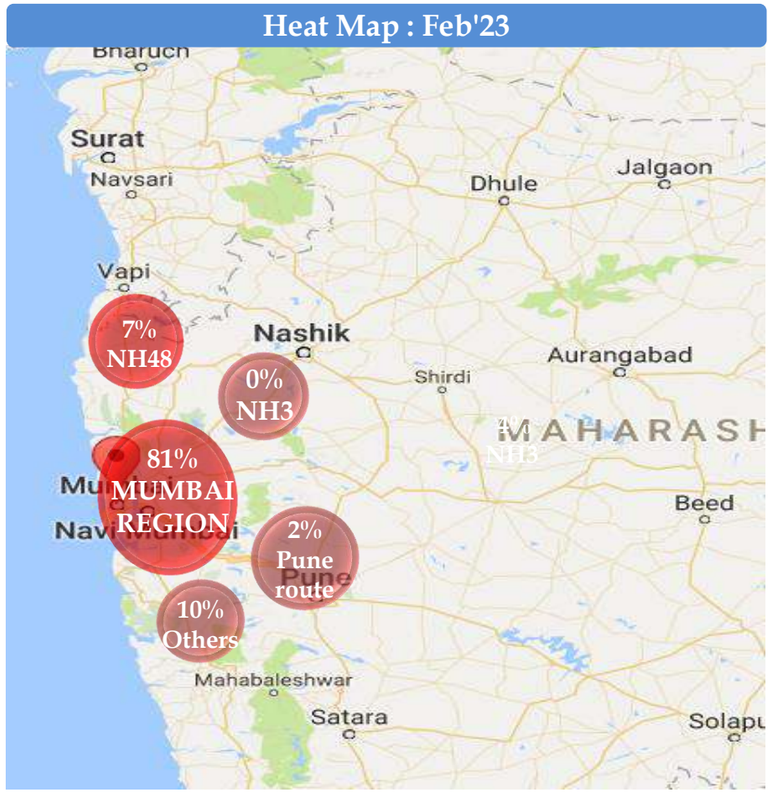
The average export cycle dwell time of JNPA region port terminals for Feb'23 is 69.5 hrs.



ANNEXURE

Container movement around JNPA Port terminal region via Truck

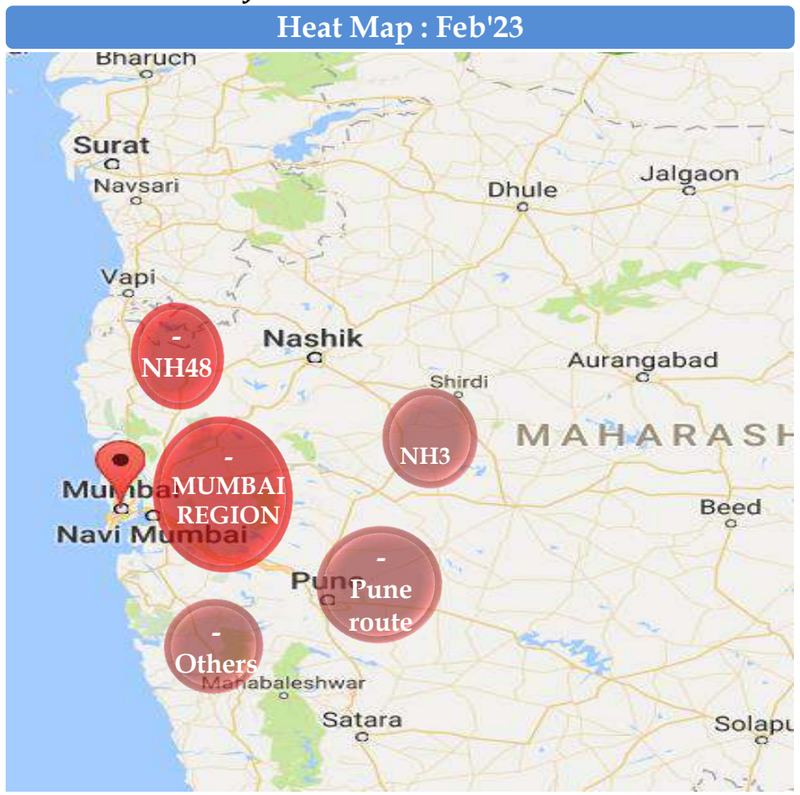
HEAT MAP : GTI Port Terminal



Region	Jan'23	Feb'23
Mumbai region	73%	81%
NH3	1%	0%
Pune	6%	2%
NH48	10%	7%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal

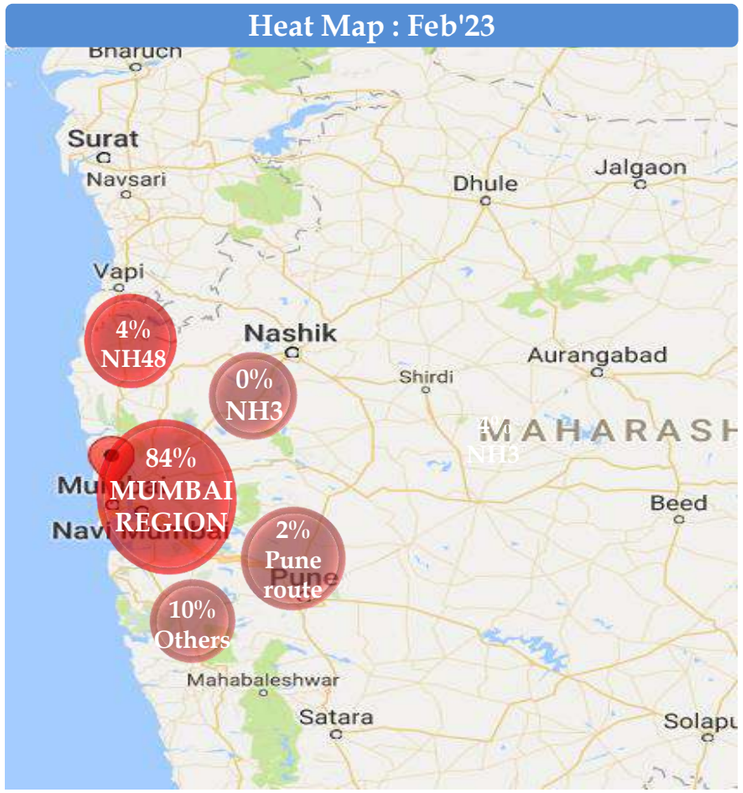


Region	Jan'23	Feb'23
Mumbai region	-	-
NH3	-	-
Pune	-	-
NH48	-	-
others	-	-

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

Container movement around JNPA Port terminal region via Truck

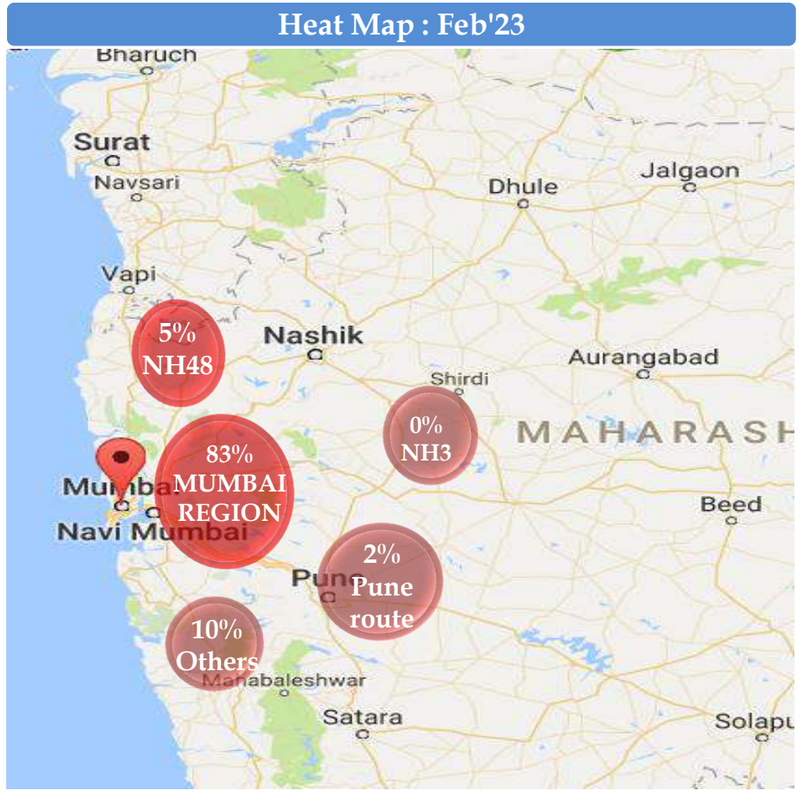
HEAT MAP : NSIGT Port Terminal



Region	Jan'23	Feb'23
Mumbai region	75%	84%
NH3	1%	0%
Pune	5%	2%
NH48	9%	4%
others	10%	10%

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

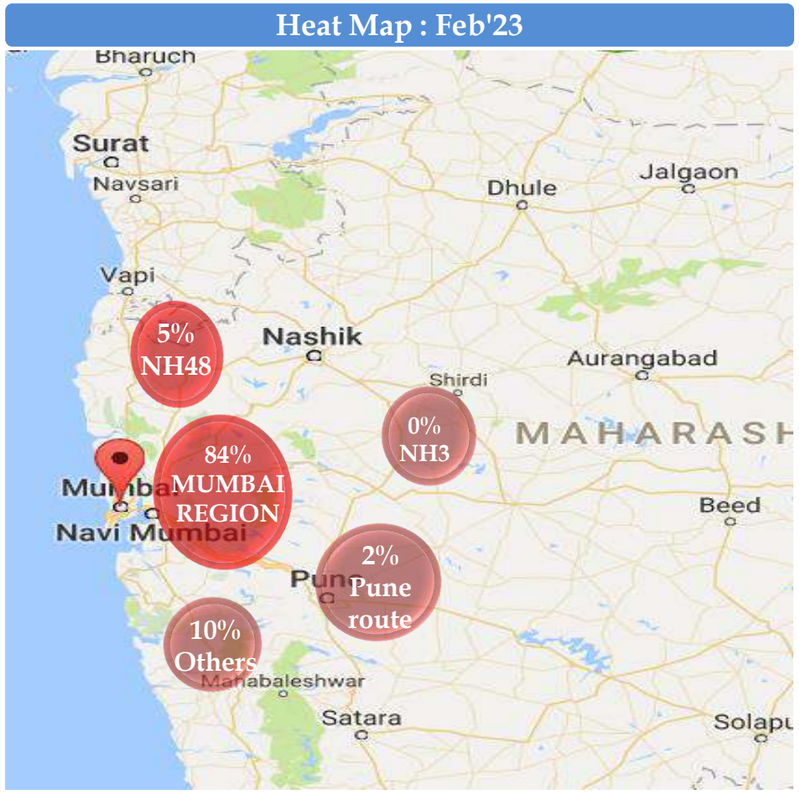
HEAT MAP : NSICT Port Terminal



Region	Jan'23	Feb'23
Mumbai region	77%	83%
NH3	1%	0%
Pune	5%	2%
NH48	8%	5%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Jan'23	Feb'23
Mumbai region	80%	84%
NH3	0%	0%
Pune	3%	2%
NH48	6%	5%
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) – Feb'23 (in hrs)

CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Punjab Conware CFS, Navi Mumbai	-	2.4	5.9	3.8	4.8
JWC Logistics Park CFS	-	2.8	6.5	4.8	5.9
Dronagiri Rail Terminal CFS, Navi Mumbai	-	2.3	5.5	2.8	5.6
Vaishno Logistics CFS, Navi Mumbai	-	3.5	5.1	3.5	5.2
Speedy Multimode CFS, JNPT	-	2.5	5.1	4.0	5.2
Navkar Corporation Yard 3 CFS, Panvel	-	3.7	8.0	5.7	7.2
Ashte Logistics CFS, Panvel	-	3.2	6.2	3.4	6.1
Continental Warehousing CFS, Navi Mumbai	-	2.6	3.0	2.3	3.5
SBW Logistics CFS, Navi Mumbai	-	10.9	16.5	-	6.5
Maharashtra State Corp CFS	-	2.6	5.9	2.7	4.3
International Cargo Terminal CFS	-	2.4	4.9	3.7	5.4
Seabird CFS, Navi Mumbai	-	3.0	7.0	3.4	6.2
Apollo Logisolutions CFS, Panvel	-	3.3	5.6	3.3	6.4
Ameya Logistics CFS, Navi Mumbai	-	2.9	5.1	2.9	5.3
AllCargo Logistics	-	2.1	5.9	3.2	5.0
Ocean Gate CFS, Panvel	-	3.6	7.0	5.1	6.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	2.5	5.0	3.6	5.6
Kerry Indev Logistics Pvt Ltd CFS	-	3.3	5.3	3.2	5.5
APM (Maersk India) CFS, Navi Mumbai	-	2.0	4.4	1.8	6.6

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) – Feb'23 (in hrs)

CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	-	2.8	2.6	2.5	2.6
APM (Maersk India) CFS, Navi Mumbai	-	2.5	2.1	2.6	2.6
International Cargo Terminal CFS	-	2.1	1.6	1.7	1.7
Ameya Logistics CFS, Navi Mumbai	-	2.6	2.3	2.3	2.7
AllCargo Logistics	-	3.7	3.5	3.3	3.6
Kerry Indev Logistics Pvt Ltd CFS	-	2.6	2.7	3.3	2.8
Navkar Corporation Yard 3 CFS, Panvel	-	3.3	3.8	5.7	4.1
Seabird CFS, Navi Mumbai	-	2.4	2.3	3.1	3.3
Ashte Logistics CFS, Panvel	-	2.7	2.7	2.7	2.5
Continental Warehousing CFS, Navi Mumbai	-	2.0	1.8	2.1	1.7
Dronagiri Rail Terminal CFS, Navi Mumbai	-	2.2	3.5	2.1	2.9
Navkar Corporation Yard 1 CFS, Panvel	-	3.3	3.3	6.0	3.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	3.0	2.6	2.7	2.7
Maersk Annex (APM)CFS, Navi Mumbai	-	2.5	1.9	3.7	2.2
Speedy Multimode CFS, JNPT	-	2.2	2.0	1.8	1.8
Apollo Logisolutions CFS, Panvel	-	4.3	4.0	3.8	3.8
Navkar Corporation Yard 2 CFS, Panvel	-	29.2	3.7	4.0	3.4
Punjab Conware CFS, Navi Mumbai	-	2.2	2.1	2.0	2.2
Vaishno Logistics CFS, Navi Mumbai	-	3.0	2.9	2.2	2.5
JWC Logistics Park CFS	-	3.2	3.1	2.5	3.0
SBW Logistics CFS, Navi Mumbai	-	5.3	2.7	2.9	3.6
Ocean Gate CFS, Panvel	-	3.8	3.1	3.7	3.8
Maharashtra State Corp CFS	-	2.2	2.2	2.5	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 JNPCT terminal

CFS Cluster : GTI Terminal

GTI terminal for month of Feb'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	2.2	2.5
Cluster 2	6	13	-	-
Cluster 3	6	11	2.2	2.5
Cluster 4	1	13	3.0	3.5
Cluster 5	2	25	3.5	3.2
Cluster 6	6	25	3.3	-
Cluster 7	4	12	2.6	2.6
Cluster 8	1	34	5.3	10.9

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Feb'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	-	-
Cluster 2	6	13	-	-
Cluster 3	6	11	-	-
Cluster 4	1	13	-	-
Cluster 5	2	25	-	-
Cluster 6	6	25	-	-
Cluster 7	4	12	-	-
Cluster 8	1	34	-	-

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 Feb'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	2.0	5.1
Cluster 2	6	13	-	-
Cluster 3	6	11	2.2	5.9
Cluster 4	1	13	2.9	5.1
Cluster 5	2	25	3.1	6.8
Cluster 6	6	25	3.5	-
Cluster 7	4	12	2.3	5.1
Cluster 8	1	34	2.7	16.5

CFS Cluster : NSIGT Terminal

NSIGT terminal for month of Feb'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	1.8	4.0
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	3.1
Cluster 4	1	13	2.2	3.5
Cluster 5	2	25	3.1	4.9
Cluster 6	6	25	3.9	-
Cluster 7	4	12	2.3	2.9
Cluster 8	1	34	2.9	-

CFS Cluster : BMCT Terminal

BMCT terminal for month of Feb'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	1.8	5.2
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	5.2
Cluster 4	1	13	2.5	5.2
Cluster 5	2	25	3.4	6.1
Cluster 6	6	25	3.5	-
Cluster 7	4	12	2.7	5.0
Cluster 8	1	34	3.6	6.5

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**

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	JNPCT	NSIGT	NSICT	Overall
Agra	64.5	111.8	-	94.7	-	111.2
Ankaleshwar	77.3	43.3	-	42.9	-	46.1
Ballabhgarh	381.8	314.1	-	-	-	347.0
Bangalore	-	208.8	-	-	-	208.8
Baroda	-	60.3	-	69.2	64.4	64.9
Boisar	63.0	-	-	75.9	66.7	68.3
Dadri	55.7	-	-	90.3	49.6	59.3
Daulatabad	67.6	39.3	-	53.4	68.2	54.8
Faridabad	241.7	210.5	-	208.8	236.0	211.4
Guhati	352.5	303.0	-	275.2	289.6	303.6
Indore	190.5	-	-	143.0	96.5	140.7
Jaipur	91.6	30.9	-	86.7	-	44.1
Kanpur	127.8	54.2	-	216.6	167.1	124.8
Khatuwas	-	105.6	-	-	-	105.6
Khodiyar	70.6	78.8	-	140.0	79.3	79.3
Ludhiana	41.4	30.6	-	49.2	139.1	30.8
Malanpur	88.3	344.8	-	149.4	111.1	124.1
Mandideep	115.9	-	-	141.2	80.4	107.0
Moradabad	18.8	32.8	-	36.0	93.1	33.9
Nagpur	71.7	44.6	-	119.1	97.0	93.8
Navi Mumbai	19.9	33.2	-	61.4	-	23.4
Patparganj	140.1	40.3	-	-	-	42.0
Raipur	-	-	-	142.0	-	142.0
Sanatnagar	128.6	-	-	125.4	-	128.1
Thimmapur	209.8	-	-	253.8	196.0	213.7
Tughlakabad	36.8	-	-	69.9	60.5	49.0
Umbergaon	87.4	-	-	83.9	95.6	88.1

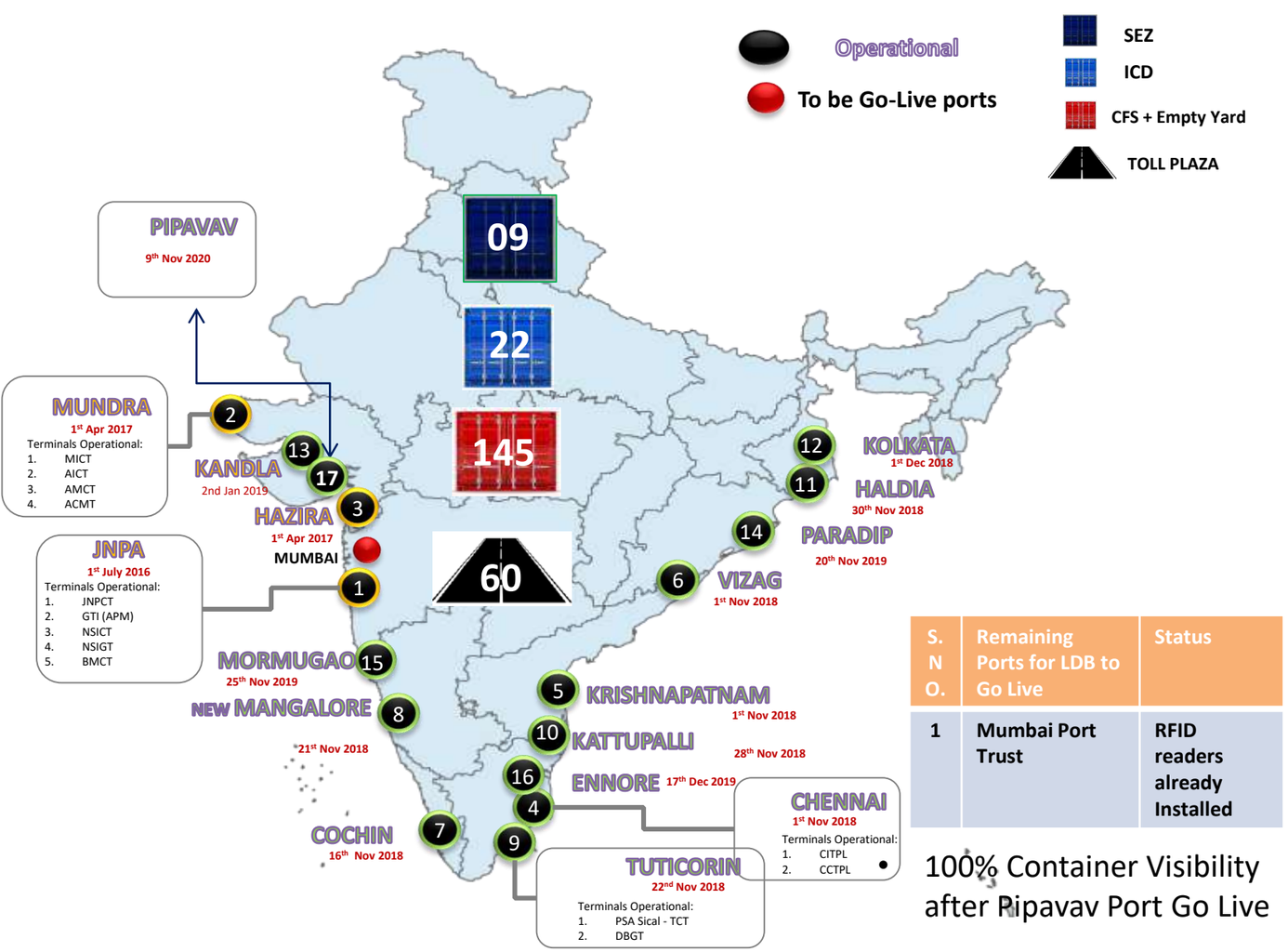
JNPA Region : Destination-wise Dwell Time – Import

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	JNPCT	NSIGT	NSICT	Overall
AllCargo Logistics	25.0	-	-	13.4	20.6	21.1
Ameya Logistics CFS, Navi Mumbai	19.1	-	-	19.5	21.7	20.0
APM (Maersk India) CFS, Navi Mumbai	36.4	18.2	-	21.1	53.0	38.4
Apollo Logisolutions CFS, Panvel	19.7	18.2	-	16.7	36.2	19.5
Ashte Logistics CFS, Panvel	18.4	17.0	-	17.5	19.2	18.0
Balmer & Lawrie CFS, Navi Mumbai	29.2	22.8	-	20.4	38.4	28.0
Continental Warehousing CFS, Navi Mumbai	29.0	16.1	-	19.6	33.3	21.2
CWC Impex Park	19.7	18.5	-	20.7	31.3	20.7
Dronagiri Rail Terminal CFS, Navi Mumbai	34.7	21.2	-	25.7	-	26.6
EFC Logistics	17.2	19.4	-	29.3	33.6	21.0
Gateway Distriparks CFS, Navi Mumbai	20.4	17.6	-	19.7	23.4	19.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	-	-	14.7	17.4	16.4
JWC Logistics Park CFS	19.2	17.7	-	19.4	21.3	19.0
Kerry Indev Logistics Pvt Ltd CFS	22.4	18.5	-	17.4	23.3	20.7
Maharashtra State Corp CFS	27.0	16.2	-	38.7	37.5	34.9
Navkar Corporation	17.4	12.9	-	16.2	18.7	15.5
Ocean Gate CFS, Panvel	26.5	17.9	-	20.6	29.2	22.2
Sarveshwar Logistics	17.9	15.6	-	20.9	20.7	18.4
SBW Logistics CFS, Navi Mumbai	36.1	-	-	18.0	-	35.0
Seabird CFS, Navi Mumbai	23.0	-	-	23.2	32.9	26.3
Speedy Multimode CFS, JNPT	17.2	-	-	23.0	28.2	21.3
Take Care Logistics	25.5	14.5	-	25.7	26.9	23.2
TG Terminals	27.7	-	-	27.4	28.8	28.0
Vaishno Logistics CFS, Navi Mumbai	32.6	28.7	-	28.7	33.3	30.4

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	24	Apollo Logisolutions CFS, Panvel
2	Saurashtra CFS, Mundra	25	TG Terminals CFS, Mundra
3	Navkar Corporation Yard 3 CFS, Panvel	26	International Cargo Terminal CFS
4	CWC Conex Terminal CFS	27	Dronagiri Rail Terminal CFS, Navi Mumbai
5	Hind Terminals Pvt. Ltd. CFS, Mundra	28	Speedy Multimode CFS, JNPT
6	CWC CFS, Mundra	29	Adani CFS, Hazira
7	Ameya Logistics CFS, Navi Mumbai	30	Navkar Corporation Yard 1 CFS, Panvel
8	Seabird CFS, Mundra	31	Ocean Gate CFS, Panvel
9	Continental Warehousing CFS, Navi Mumbai	32	Vaishno Logistics CFS, Navi Mumbai
10	Gateway Distriparks CFS, Navi Mumbai	33	APM (Maersk India) CFS, Navi Mumbai
11	Sarveshwar CFS	34	TG Terminals CFS
12	International Cargo Terminals (ULA) CFS, Navi Mumbai	35	Empezar Logistics CFS
13	MICT CFS, Mundra	36	Rishi CFS, Mundra
14	Honey Comb CFS, Mundra	37	Hind Terminal CFS, Hazira
15	JWC Logistics Park CFS	38	JWR CFS
16	AllCargo Logistics	39	Contrans Logistic CFS, Pipavav
17	Punjab Conware CFS, Navi Mumbai	40	Maharashtra State Corp CFS
18	Ashutosh CFS, Mundra	41	Kerry Indev Logistics Pvt Ltd CFS
19	Mundhra CFS, Mundra	42	Seabird CFS, Navi Mumbai
20	Seabird CFS, Hazira	43	Take Care Logistics CFS
21	EFC Logistics India	44	Transworld CFS, Mundra
22	Landmark CFS, Mundra	45	LCL Logistix CFS, Pipavav
23	Ashte Logistics CFS, Panvel		

THANK YOU