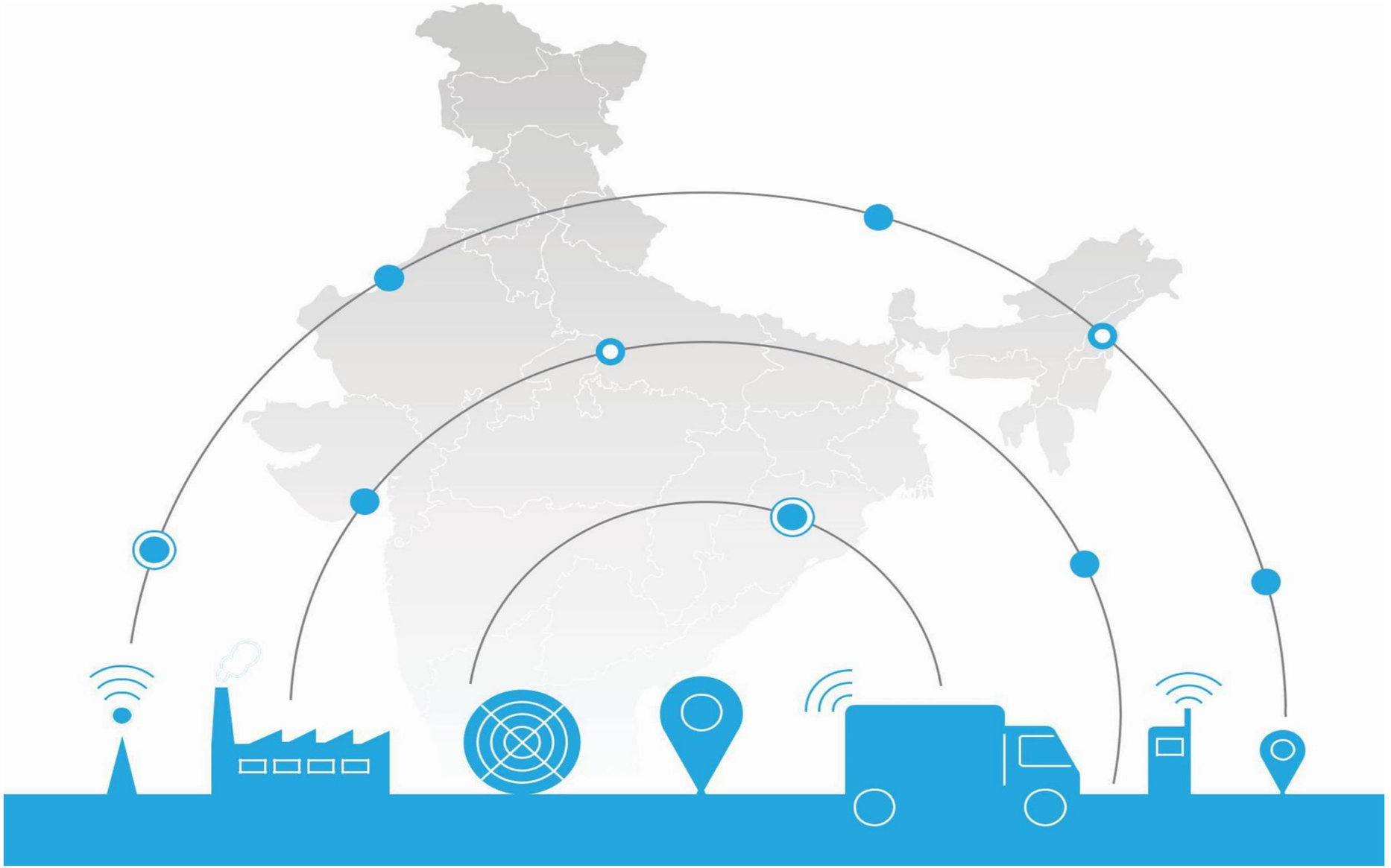
Logistics Databank Analytics Report- JNPA – August'2022



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Executive Summary

Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	Jul'22 (in hrs)	Aug'22 (in hrs)
JNPCT	46.8	34.5
NSICT	26.8	22.5
GTI	20.5	15.2
NSIGT	32.6	25.3
BMCT/PSA	28.4	22.7

Export Cycle		
Port	Jul'22 (in hrs)	Aug'22 (in hrs)
JNPCT	71.1	63.7
NSICT	62.3	62.4
GTI	72.9	79.2
NSIGT	87.9	87.1
BMCT/PSA	70.3	73.0

Critical Incident Summary

Jawaharlal Nehru Port Authority

- Container handling performance for Import Cycle is improved 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
Aug'22	21.0 hrs ▲ 22.5%	74.7 hrs ▼ 2.6%	88.9 hrs ▼ 8.5%	123.4 hrs ▼ 5.5%
Jul'22	27.1 hrs	72.8 hrs	81.9 hrs	117.0 hrs

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Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	Jul'22 (in hrs)	Aug'22 (in hrs)
Overall	28.6	24.7
Truck	23.2	20.4
Train	76.1	64.7

EXPORT

Mode	Jul'22 (in hrs)	Aug'22 (in hrs)
Overall	89.0	92.6
Truck	81.6	85.7
Train	130.4	130.3

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

Entity	Jul'22 (in hrs)	Aug'22 (in hrs)
CFS	84.9	88.5
ICD	117.0	123.4

The marked entries showcase increase in performance in comparison to Jul'22

The marked entries showcase Decrease in performance in comparison to Jul'22

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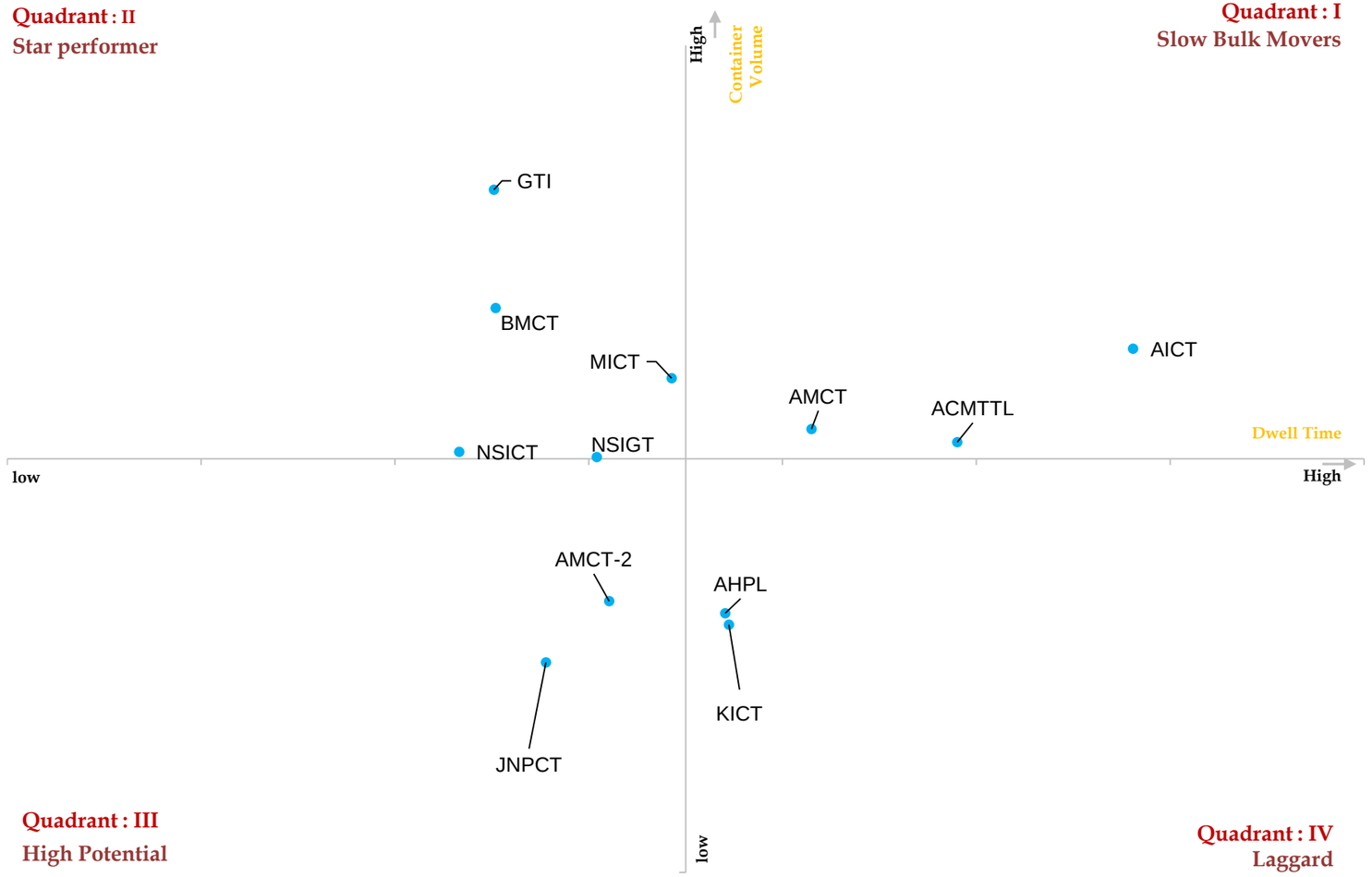
Port Performance Benchmarking & Performance Index - Western Corridor

Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – August '22



Performance benchmarking for Port Terminals covered under LDB project for Aug'22

Top Performing Terminal	
Gateway Terminals India (GTI)	
Jul'22	Aug'22
42.9 Hrs	41.5 Hrs

Low Performing Terminal	
Kandla International Container Terminal (KICT)	
Jul'22	Aug'22
89.7 Hrs	63.5 Hrs

Note: The performance benchmarking is based on performance index

The arrows depict increase/Decrease in overall performance of the stakeholders in comparison to Jul'22

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

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Container Transportation- JNPA Port Terminals

Container Lifecycle (Import Cycle)

Port Dwell Time

IMPORT

Mode	Jul'22 (in hrs)	Aug'22 (in hrs)
Overall	27.1	21.0
Truck	23.2	17.7
Train	66.1	57.6

EXPORT

Mode	Jul'22 (in hrs)	Aug'22 (in hrs)
Overall	72.8	74.7
Truck	69.3	73.2
Train	99.7	88.4

Transit Time

Towards ICD

Station

Transit Cycle	Jul'22 (in hrs)	Aug'22 (in hrs)
Port to ICD	94.0	95.5
Port to CFS	3.22	2.91

Towards CFS

From ICD

Station

Transit Cycle	Jul'22 (in hrs)	Aug'22 (in hrs)
ICD to Port	97.5	90.3
CFS to Port	3.18	3.50

From CFS

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

ICD

CFS

Entity	Jul'22 (in hrs)	Aug'22 (in hrs)
CFS	81.9	88.9
ICD	117.0	123.4

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 Jul'22

The marked entries showcase the decrease in performance as compared to Jul'22

Container Lifecycle (Export Cycle)

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Container Transportation- JNPA Port Terminals

%IMPORT CYCLE DWELL TIME (Aug'22 – in hrs)			Compared to Jul'22
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	21.0	22.5% ↑
	Port Dwell Time for Truck Bound Containers	17.7	23.7% ↑
	Port Dwell time for Train Bound Containers	57.6	12.9% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	33.2	17.8% ↑
	Port Dwell time Containers bound for CFS	15.8	24.8% ↑
	Port Dwell for Empty Containers	31.7	21.1% ↑
	Port Dwell for Laden Containers	19.0	23.1% ↑
TRANSIT TIME	Port to ICD	95.5	1.6% ↓
	Port to CFS	2.91	9.6% ↑

EXPORT CYCLE DWELL TIME (Aug'22– in hrs)			Compared to Jul'22
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	74.7	2.6% ↓
	Port Dwell Time for Truck Bound Containers	73.2	5.6% ↓
	Port Dwell time for Train Bound Containers	88.4	11.3% ↑
	Port Dwell time Direct Port Entry (DPE) containers	79.5	1.5% ↓
	Port Dwell time Containers bound from CFS	74.6	7.5% ↓
	Port Dwell for Empty Containers	62.6	3.5% ↓
	Port Dwell for Laden Containers	78.6	2.6% ↓
TRANSIT TIME	ICD to Port	90.3	7.4% ↑
	CFS to Port	3.50	10.1% ↓

↑↓ The arrows depict increase/decrease in performance of the stakeholders in comparison to Jul'22

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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	Jul'22 (in hrs)	Aug'22 (in hrs)
Overall Parking Plaza	5.76	5.60

Container Handled: Day wise (Aug'22)

Parking Plaza	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPA Central Parking Plaza	54%	42%	4%

Parking Plaza Gate Out – Terminal In

Mode	Jul'22 (in hrs)	Aug'22 (in hrs)
Overall Parking Plaza to JNPA Port	1.32	1.31

Port	Jul'22 (in hrs)	Aug'22 (in hrs)
JNPCT	1.3	1.0
NSICT	1.2	1.3
GTI	0.7	0.6
NSIGT	1.1	1.2
BMCT	3.1	4.2

Container Handled: Day wise (Aug'22)

Port Terminals	Within 6 hrs	Within 6 – 24 hrs	More than 24 hrs
JNPCT	97%	3%	0%
NSICT	96%	3%	1%
GTI	99%	1%	0%
NSIGT	98%	2%	0%
BMCT	73%	27%	0%

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CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

CFS — Performance Benchmarking — ICD

Top Performing CFS

Saurashtra CFS, Mundra	
Jul'22	Aug'22 ↑
88.2 hrs	84.8 hrs

Low Performing CFS

Take Care Logistics, CFS	
Jul'22	Aug'22 ↓
104.9 hrs	114.4 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

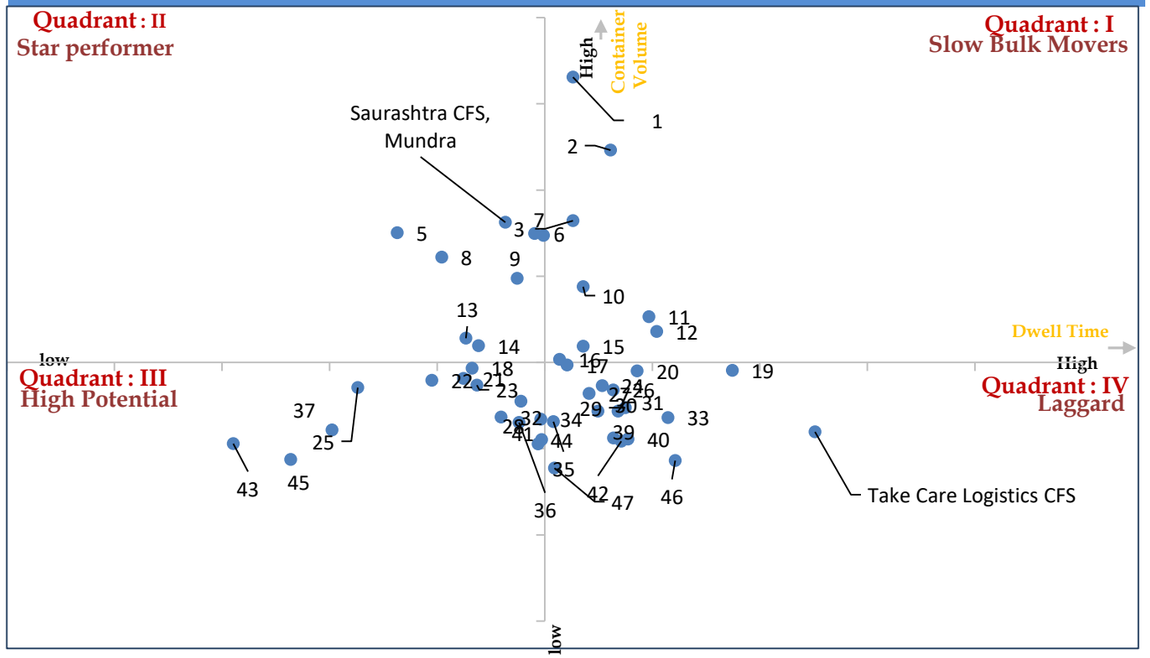
Top Performing ICD

Navkar ICD, Tumb	
Jul'22	Aug'22 ↓
114.3 hrs	120.0 hrs

Low Performing ICD

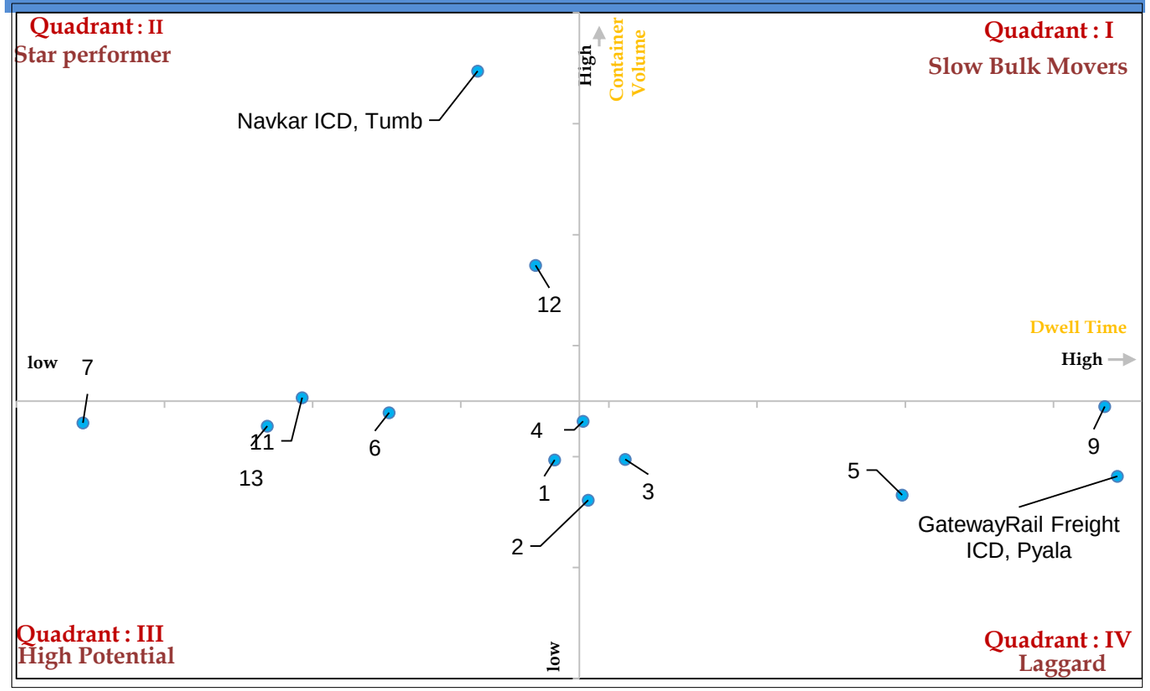
GatewayRail Freight ICD, Pyala	
Jul'22	Aug'22 ↓
126.3 hrs	165.9 hrs

Performance Index: Western Corridor CFS



Kindly refer to Annexure section for the names of CFS

Performance Index: ICD



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Import Cycle Analysis

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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	Jul'22 (in hrs)	Aug'22 (in hrs)
JNPCT	58.3	51.0
NSICT	83.1	67.4
GTI	50.2	42.7
NSIGT	89.5	66.4
BMCT	61.8	64.6

Container Handled: Day wise (Aug'22)

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
JNPCT	12.8%	33.5%	23.5%	13.9%	6.8%	9.4%
NSICT	18.3%	18.6%	17.2%	17.4%	15.9%	12.6%
GTI	25.1%	29.3%	14.6%	13.8%	8.4%	8.7%
NSIGT	11.5%	20.9%	23.2%	17.2%	17.3%	9.8%
BMCT	12.8%	25.1%	16.5%	14.8%	17.1%	13.7%

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	Jul'22 (in hrs)	Aug'22 (in hrs)
JNPCT	45.8	32.9
NSICT	23.2	20.0
GTI	18.0	12.7
NSIGT	25.4	21.0
BMCT	24.7	18.9

Container Handled: Day wise (Aug'22)

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
JNPCT	27.3%	52.1%	16.8%	2.7%	1.1%	0.1%
NSICT	58.9%	27.4%	7.2%	3.4%	2.2%	0.9%
GTI	76.7%	16.6%	4.0%	1.2%	0.5%	0.9%
NSIGT	56.3%	24.2%	10.8%	4.1%	3.9%	0.7%
BMCT	62.3%	26.9%	7.4%	2.5%	0.7%	0.3%

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JNPA Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the detailed JNPA region port performance in the month of Aug'22

JNPCT

Port Dwell time based on transit type

Aug'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	45.7 hrs	33.7 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	33.3 hrs	38.0 hrs

GTI

Port Dwell time based on transit type

Aug'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.6 hrs	12.1 hrs

Port Dwell time based on transit type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	14.6 hrs	21.2 hrs

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JNPA Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the detailed JNPA region port performance in the month of Aug'22

NSICT

Port Dwell time based on transit type

Aug'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	49.8 hrs	17.8 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	20.3 hrs	39.1 hrs

NSIGT

Port Dwell time based on transit type

Aug'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	50.2 hrs	18.3 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	22.0 hrs	33.5 hrs

BMCT

Port Dwell time based on transit type

Aug'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	28.2 hrs	17.7 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	20.9 hrs	32.2 hrs

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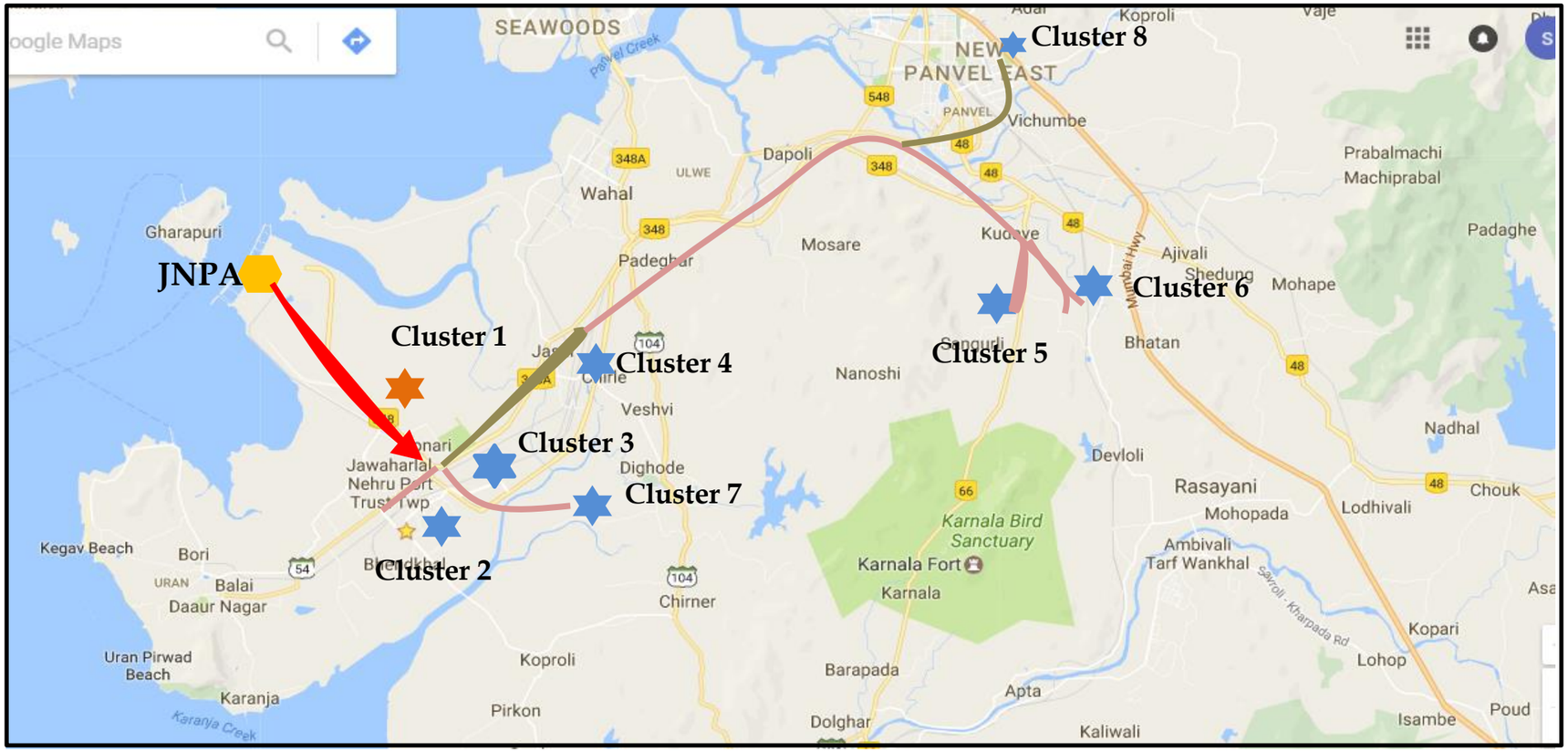
JNPA Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPA region in Import Cycle in month of Aug'22



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

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JNPA Region Import Cycle: Container Movement

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

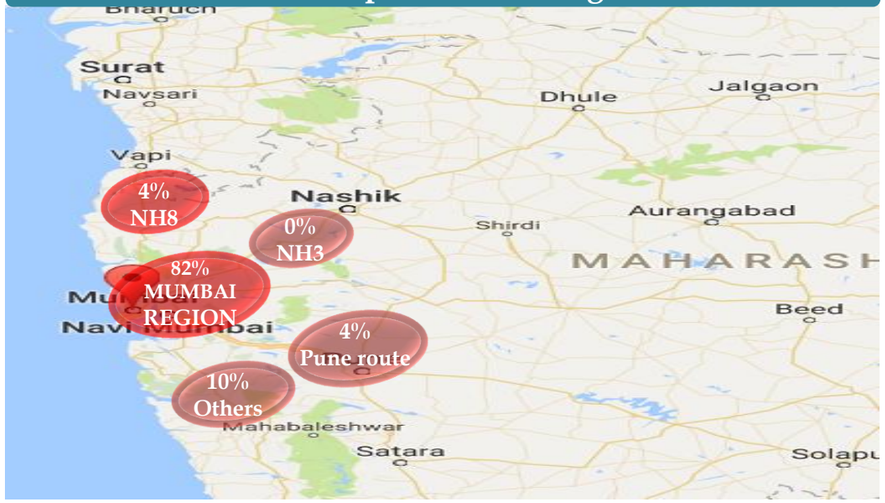
Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Aug'22
Mumbai region	82%
NH3	0%
Pune	4%
NH8	4%
others	10%

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

Heat Map via Truck: Aug'22



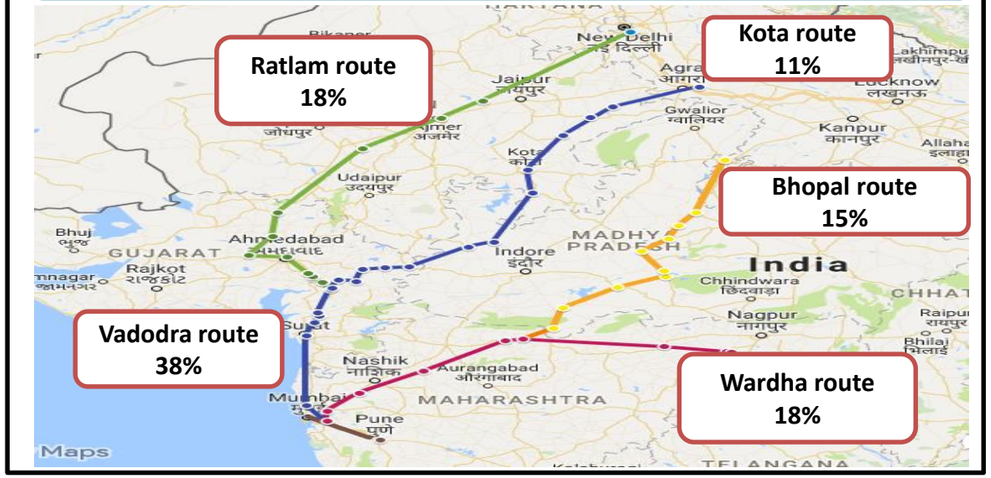
Train

VOLUME WISE CONTAINER MOVEMENT

Region	Aug'22
Vadodra Route	38%
Ratlam Route	18%
Wardha Route	18%
Kota Route	11%
Bhopal Route	15%

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

Container movement via Rail – Aug'22



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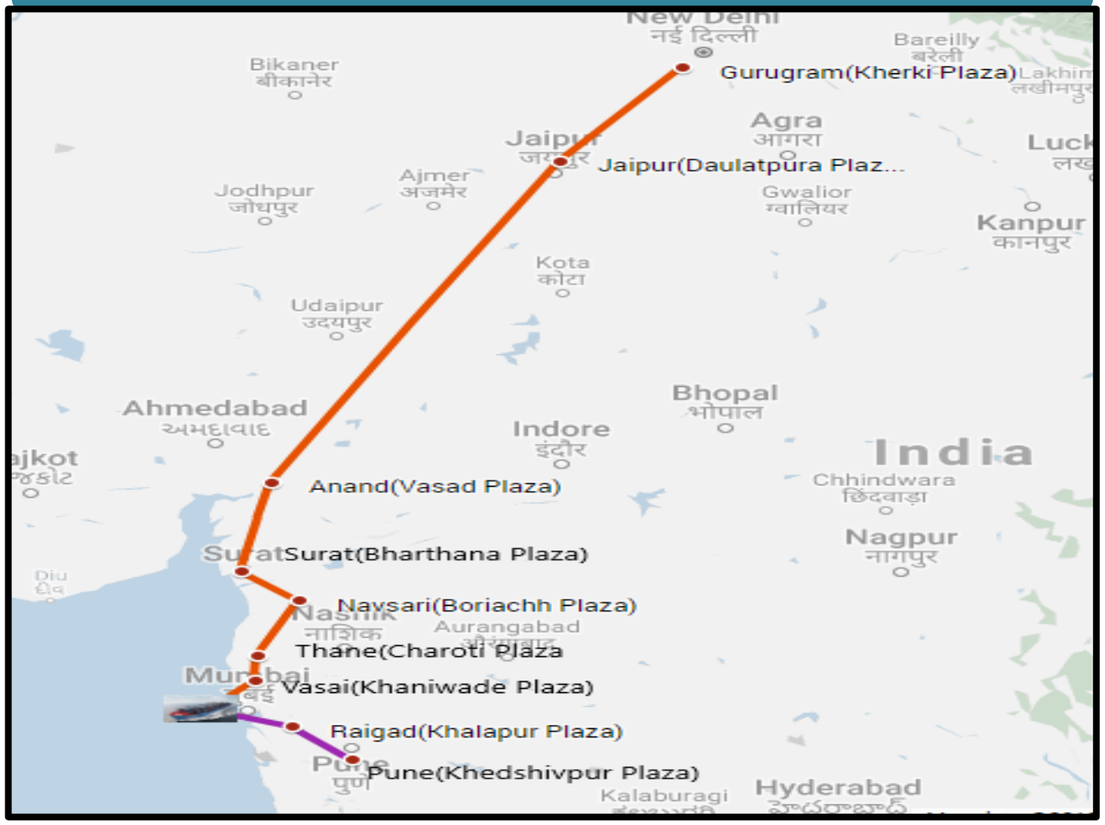
Western Corridor Toll Plaza Analysis

Avg. Speed between Toll to Toll Plazas					
	Source	Destination Toll Plaza	Inter Distance (Km)	Jul'22 (in km/hrs)	Aug'22 (in km/hrs)
JNPA	JNPA	Khaniwade	94	7.6	9.3
	JNPA	Khalapur	60	8.8	11.1
	Khaniwade	Charoti	50	33.4	34.3
	Charoti	Boriach	126	23.0	25.8
	Boriach	Bharthan	142	29.2	28.1
	Bharthan	Vasad	60	36.8	36.5
	Khalalpur	Khedshivpur	105	33.1	32.0

Toll Plaza - JNPA Port



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Export Cycle Analysis

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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

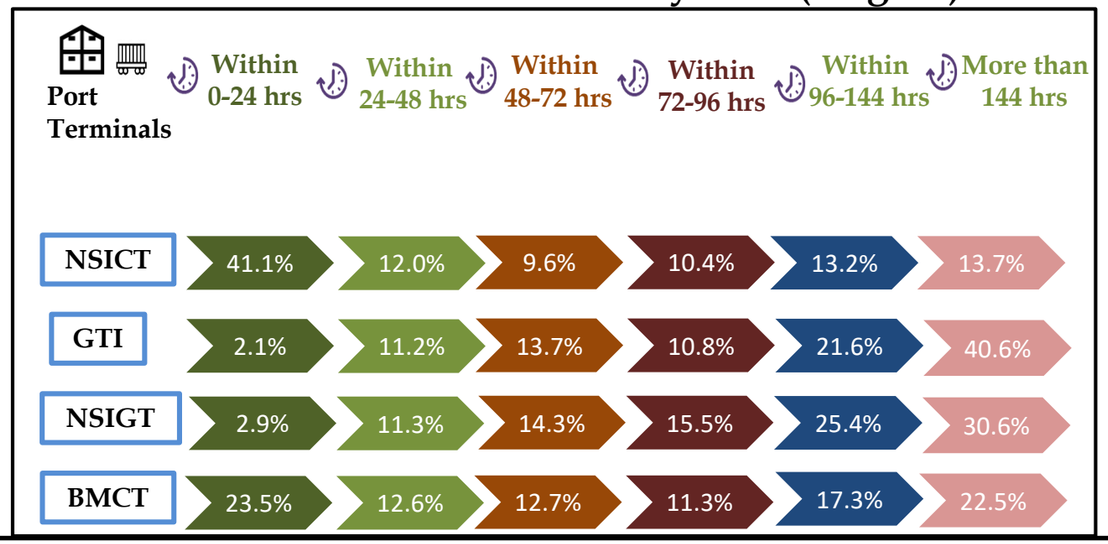
PORT EXPORT via TRAIN
(20% of total export volume at JNPA Port)

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	Jul'22 (in hrs)	Aug'22 (in hrs)
NSICT	93.5	40.5
GTI	115.9	121.1
NSIGT	114.8	104.6
BMCT	74.0	73.6

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

Container Handled: Day wise (Aug'22)

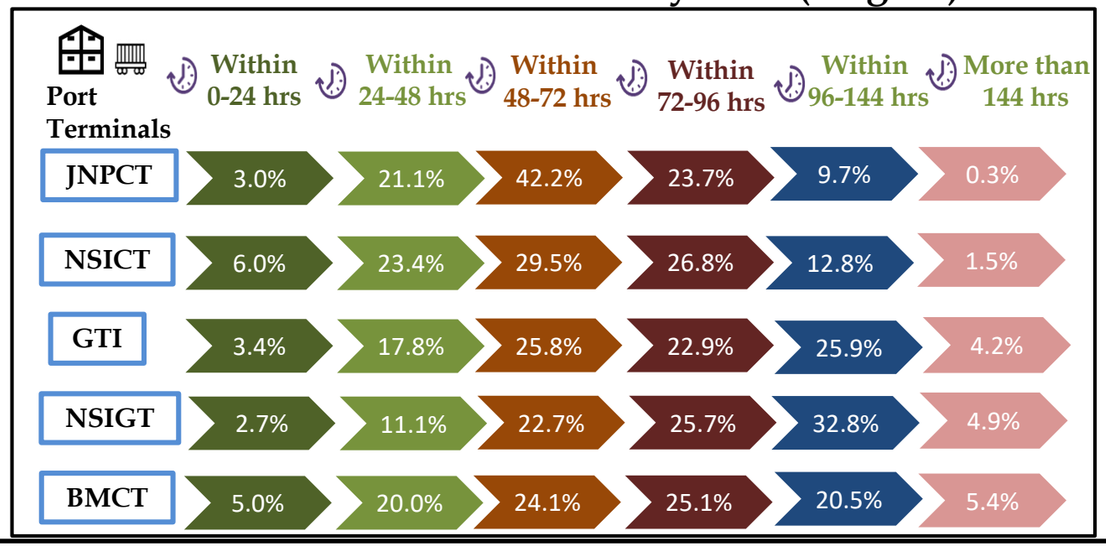


PORT EXPORT via TRUCK
(80% of total export volume at JNPA Port)

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	Jul'22 (in hrs)	Aug'22 (in hrs)
JNPCT	70.1	63.4
NSICT	58.5	64.8
GTI	67.3	75.0
NSIGT	84.9	84.3
BMCT	69.6	72.9

Container Handled: Day wise (Aug'22)



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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 Aug'22

JNPCT

Port Dwell time based on transit type

Aug'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	59.2 hrs	63.9 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	61.7 hrs	66.3 hrs

GTI

Port Dwell time based on transit type

Aug'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	79.4 hrs	78.0 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	86.3 hrs	64.4 hrs

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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 Aug'22

NSICT

Port Dwell time based on transit type

Aug'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	72.2 hrs	65.4 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	65.3 hrs	54.2 hrs

NSIGT

Port Dwell time based on transit type

Aug'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	89.1 hrs	84.9 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	87.7 hrs	65.1 hrs

BMCT

Port Dwell time based on transit type

Aug'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	73.7 hrs

Port Dwell time based on container type

Aug'22	Laden Containers	Empty Containers
Dwell time (in hrs)	76.0 hrs	64.3 hrs

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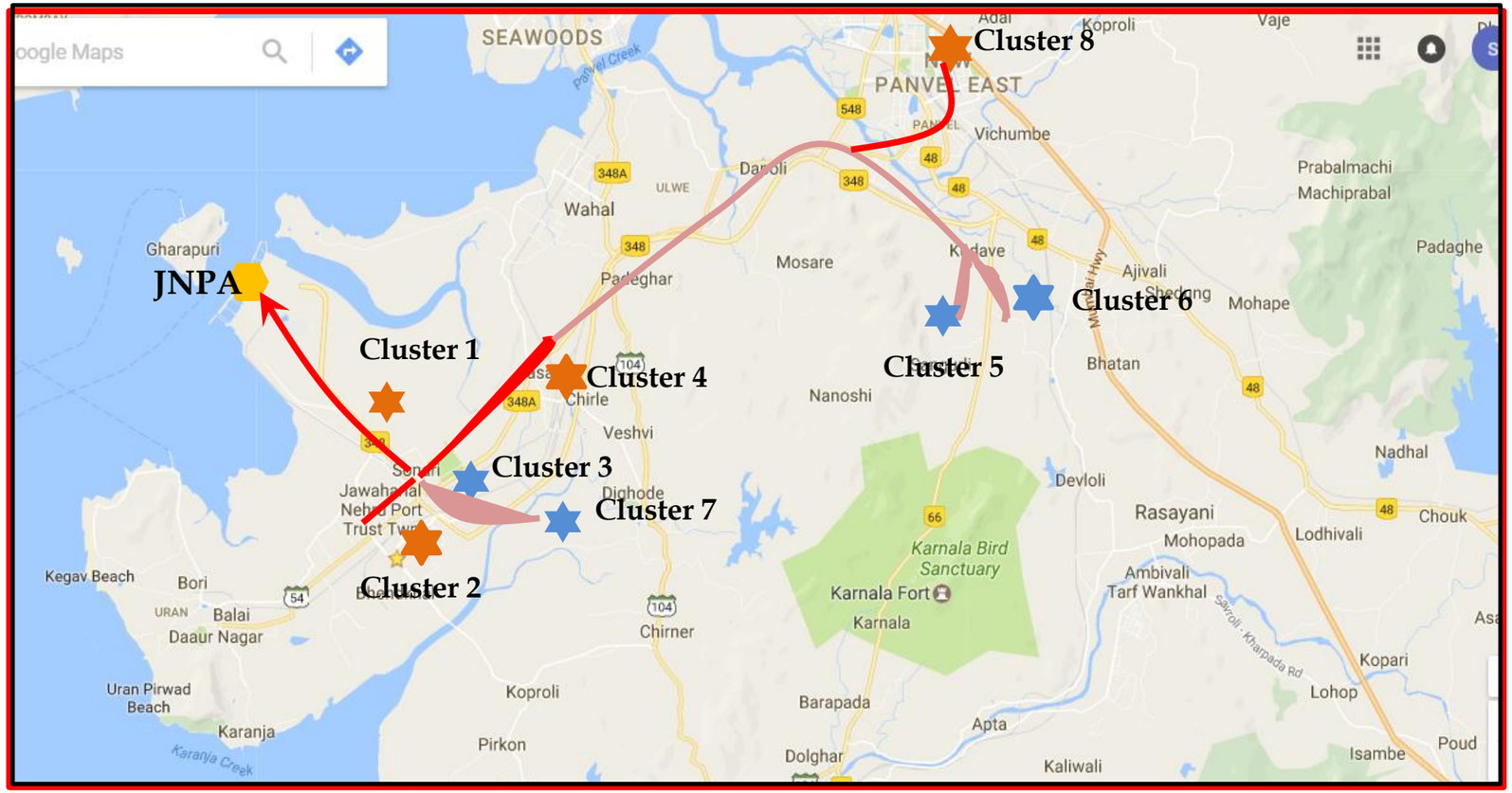
JNPA Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPA region in Export Cycle in month of Aug'22



Clusters with bottleneck	
CLUSTER 1	JNPA Area
CLUSTER 2	Bhendkhal area, khopate road
CLUSTER 4	Chirle area, JNPA road
CLUSTER 8	Taloja, Navi Mumbai

Clusters without bottleneck	
CLUSTER 3	Sonari 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

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

GTI Terminal	JNPCT Terminal	NSICT Terminal	NSIGT Terminal	BMCT Terminal
Congestion Level Export Cycle :-	Congestion Level Export Cycle :-	Congestion Level Export Cycle :-	Congestion Level Export Cycle :-	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

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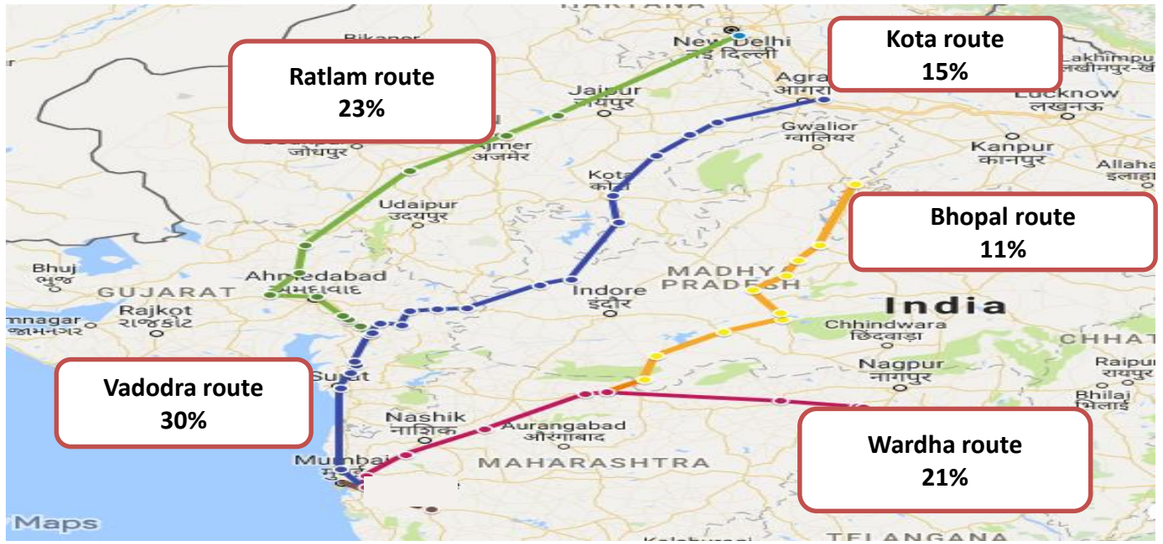
JNPA Region: Container Movement via Train

JNPA Port	
Route	**Percentage of Container Movement**
Vadodra Route	30%
Ratlam Route	23%
Wardha Route	21%
Kota Route	15%
Bhopal Route	11%

The map shows the volume wise container movement through different railway routes in export cycle for Aug'22

Container movement via Rail – Aug'22



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CFS and ICD Performance

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JNPA region CFS : CFS DWELL TIME ANALYSIS

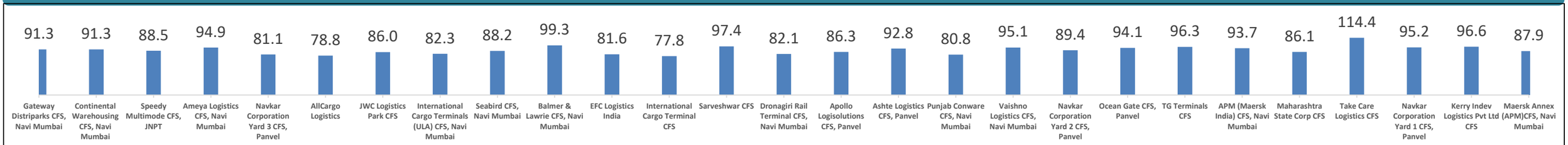
Below table and graphs show the dwell time of the respective CFSs for the month of Aug'22

CFS Dwell Time (in hrs.)

CFS	Jul'22 (in hrs)	Aug'22 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	82.2	91.3
Continental Warehousing CFS, Navi Mumbai	80.5	91.3
Speedy Multimode CFS, JNPT	79.4	88.5
Ameya Logistics CFS, Navi Mumbai	86.5	94.9
Navkar Corporation Yard 3 CFS, Panvel	81.3	81.1
AllCargo Logistics	69.4	78.8
JWC Logistics Park CFS	80.8	86.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	73.3	82.3
Seabird CFS, Navi Mumbai	82.2	88.2
Balmer & Lawrie CFS, Navi Mumbai	90.8	99.3
EFC Logistics India	70.1	81.6
International Cargo Terminal CFS	68.9	77.8
Sarveshwar CFS	89.4	97.4
Dronagiri Rail Terminal CFS, Navi Mumbai	81.9	82.1

CFS	Jul'22 (in hrs)	Aug'22 (in hrs)
Apollo Logisolutions CFS, Panvel	95.7	86.3
Ashte Logistics CFS, Panvel	85.6	92.8
Punjab Conware CFS, Navi Mumbai	73.5	80.8
Vaishno Logistics CFS, Navi Mumbai	94.7	95.1
Navkar Corporation Yard 2 CFS, Panvel	100.1	89.4
Ocean Gate CFS, Panvel	85.0	94.1
TG Terminals CFS	80.1	96.3
APM (Maersk India) CFS, Navi Mumbai	88.9	93.7
Maharashtra State Corp CFS	90.4	86.1
Take Care Logistics CFS	104.9	114.4
Navkar Corporation Yard 1 CFS, Panvel	98.6	95.2
Kerry Indev Logistics Pvt Ltd CFS	92.1	96.6
Maersk Annex (APM)CFS, Navi Mumbai	83.7	87.9

CFS – DWELL OVERVIEW – AUG'22 (IN HRS)



Average: 88.9 hrs.

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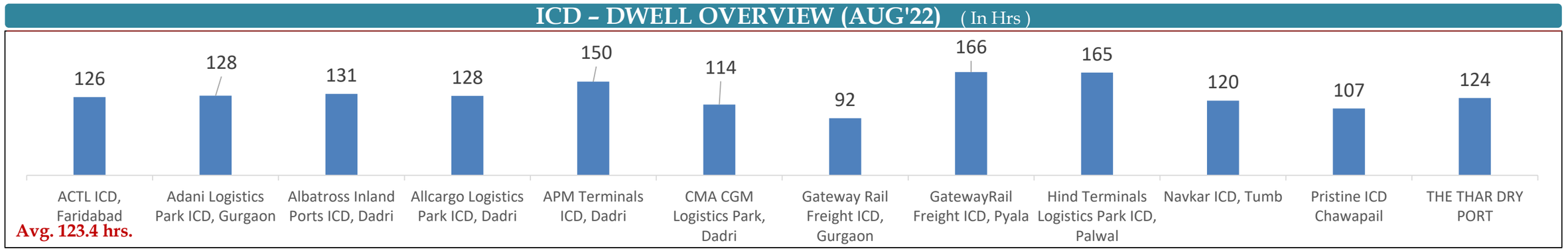
ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)		
ICD	Jul'22 (in hrs)	Aug'22 (in hrs)
ACTL ICD, Faridabad	116	126
Adani Logistics Park ICD, Gurgaon	126	128
Albatross Inland Ports ICD, Dadri	133	131
Allcargo Logistics Park ICD, Dadri	99	128
APM Terminals ICD, Dadri	114	150
CMA CGM Logistics Park, Dadri	100	114
Gateway Rail Freight ICD, Gurgaon	96	92
GatewayRail Freight ICD, Pyala	126	166
Hind Terminals Logistics Park ICD, Palwal	144	165
Navkar ICD, Tumb	114	120
Pristine ICD Chawapail	121	107
THE THAR DRY PORT	131	124



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Trend Analysis

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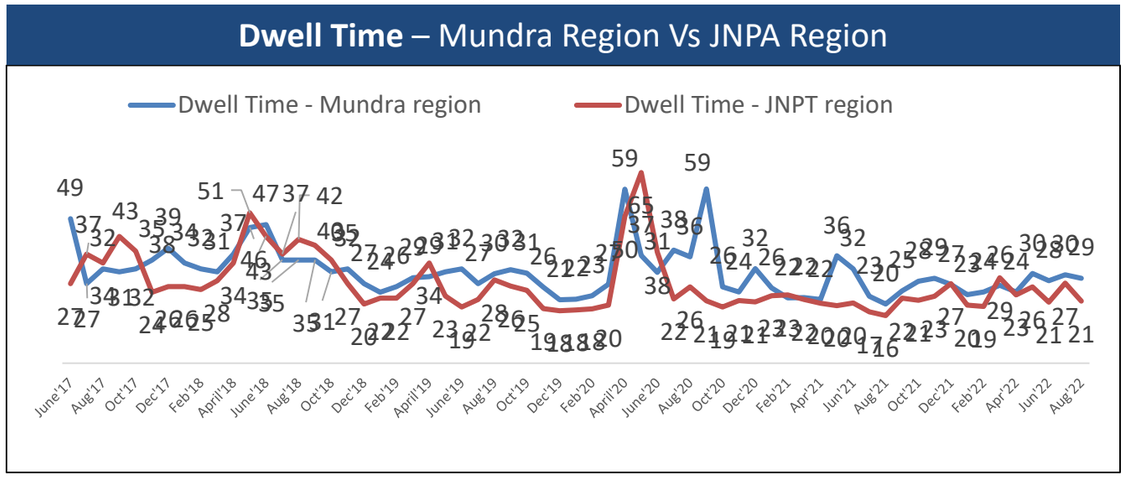
Western Corridor Port – Yearly Analysis

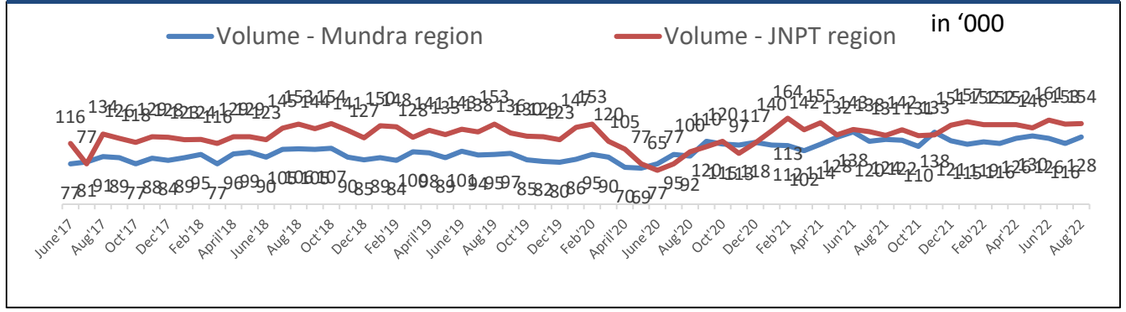
Container Volume and Dwell time of all the terminals in JNPA and Mundra Port has been analysed until Aug'22

Import Cycle

Dwell Time – Mundra Region Vs JNPA Region



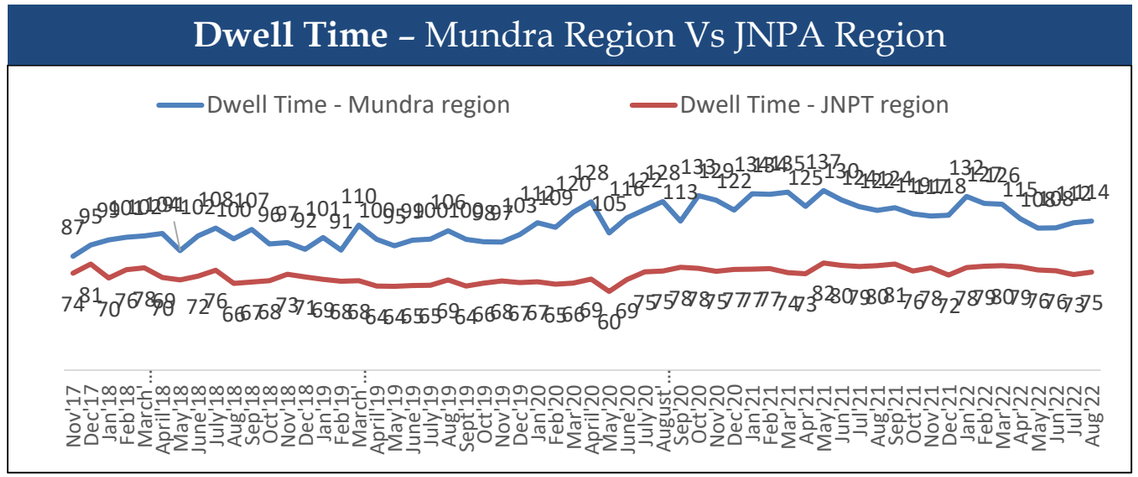
Volume – Mundra Region Vs JNPA Region



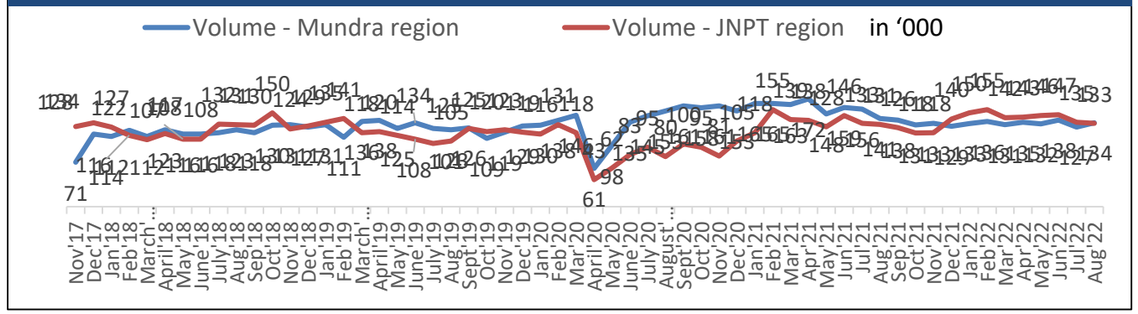
In Import cycle, for the month of Aug'22 Mundra port has catered 20% **less volume** than JNPA Port, and has performed with 27% **higher dwell time** than JNPA Port.

Export Cycle

Dwell Time – Mundra Region Vs JNPA Region



Volume – Mundra Region Vs JNPA Region



In Export cycle, for the month Aug'22 JNPA port catered 1% **less volume** than Mundra Port, and has maintained 34% **lower dwell time** than Mundra Port

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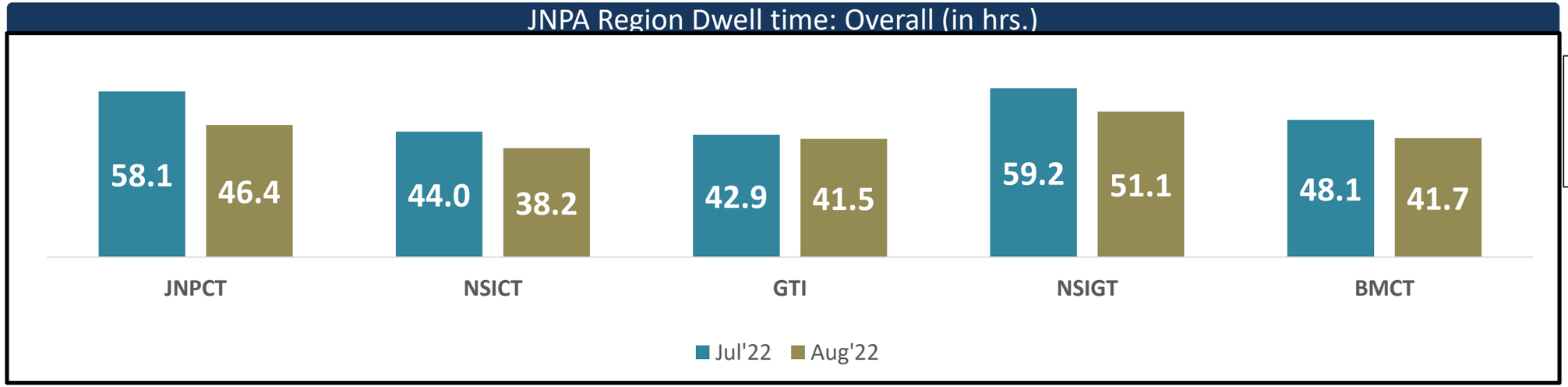
JNPA PORT DWELL TIME TREND: Month on Month

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

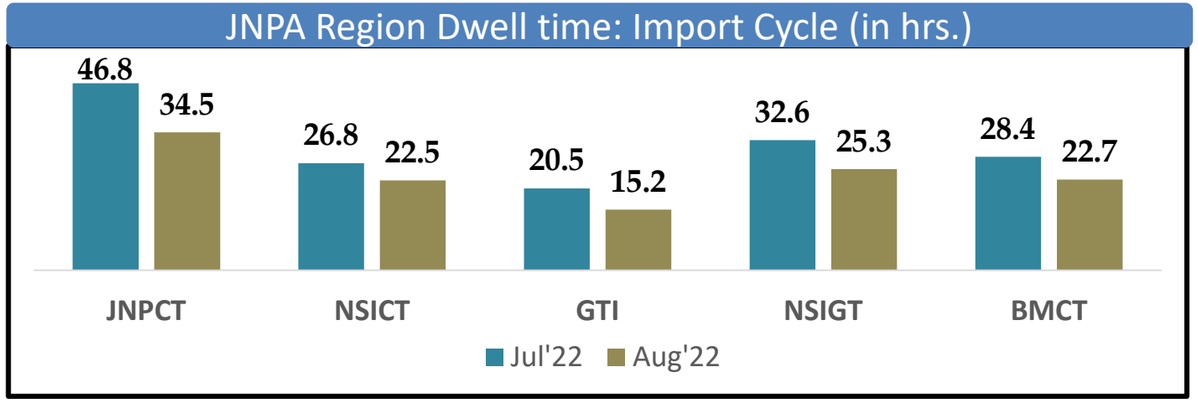


The overall JNPA region average dwell time for Aug'22 is 42.6 hrs as compared to 48.1 hrs in Jul'22

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of Aug'22

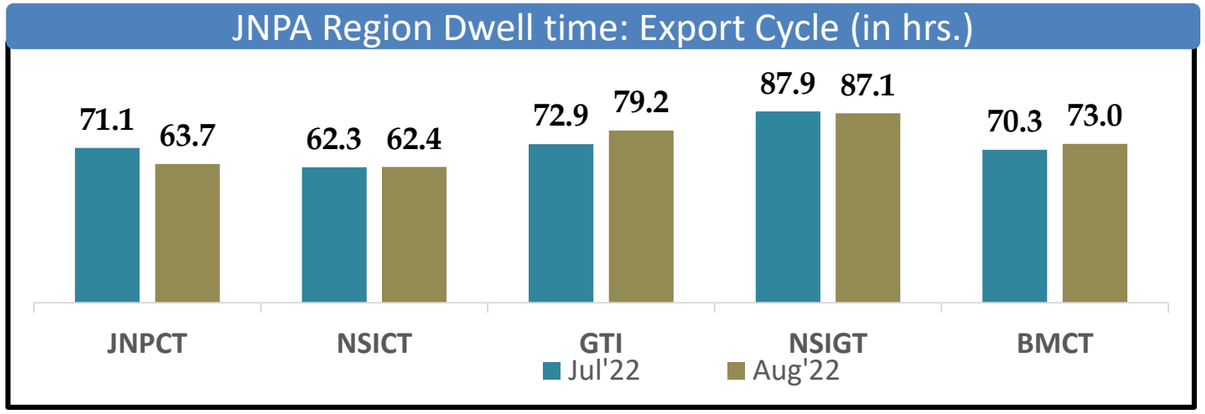
JNPA Import cycle Trend

The average import cycle dwell time of JNPA region port terminals for Aug'22 is 21.0 hrs.



JNPA Export cycle Trend

The average export cycle dwell time of JNPA region port terminals for Aug'22 is 74.7 hrs.



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ANNEXURE

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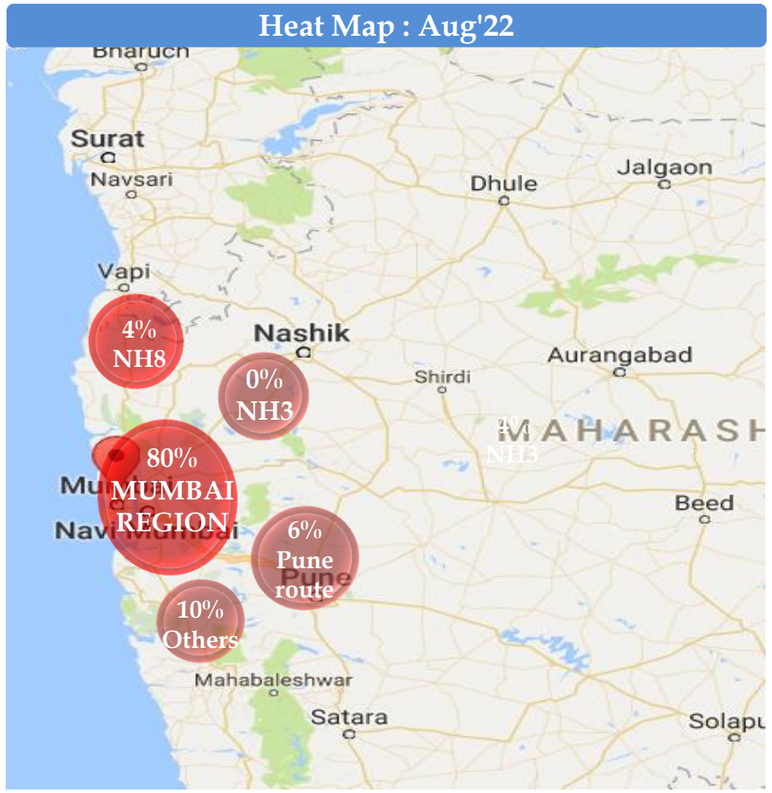
Container movement around JNPA Port terminal region via Truck

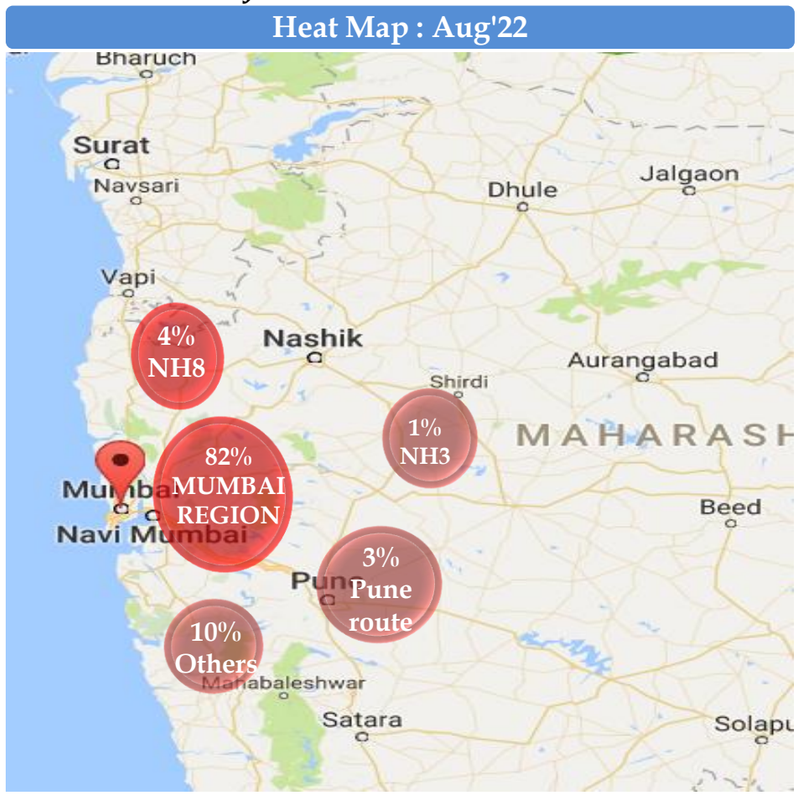
HEAT MAP : GTI Port Terminal



Region	Jul'22	Aug'22
Mumbai region	85%	80%
NH3	0%	0%
Pune	3%	6%
NH8	2%	4%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal



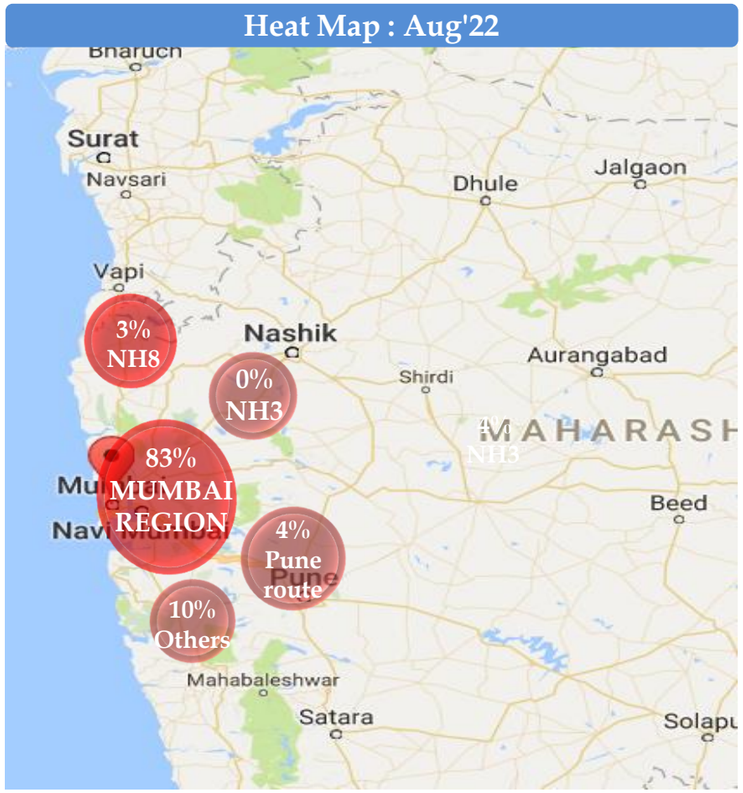
Region	Jul'22	Aug'22
Mumbai region	84%	82%
NH3	1%	1%
Pune	2%	3%
NH8	3%	4%
others	10%	10%

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

© NICDC Logistics Data Services Limited

Container movement around JNPA Port terminal region via Truck

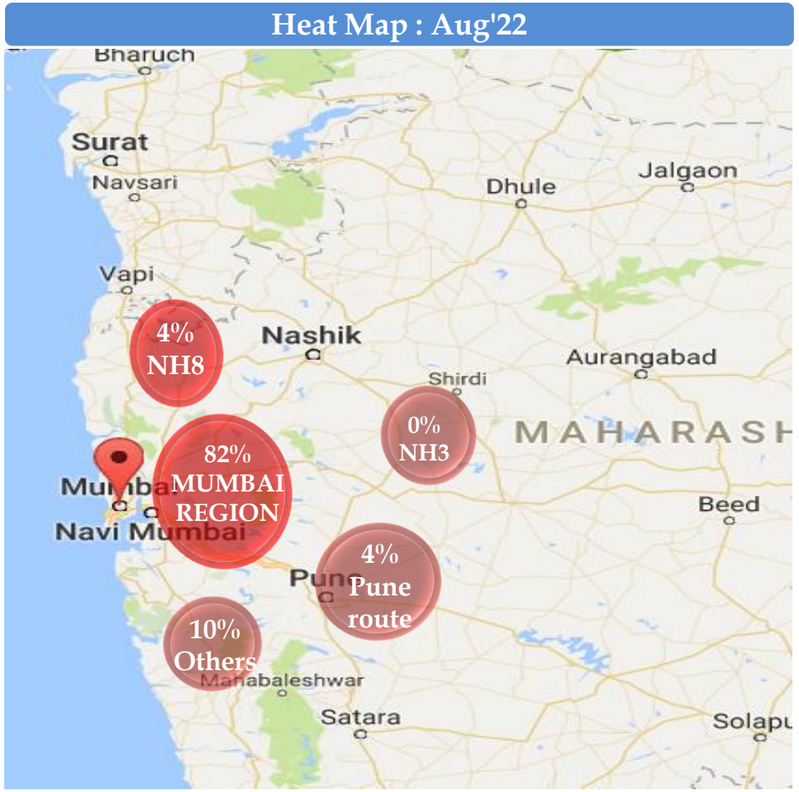
HEAT MAP : NSIGT Port Terminal



Region	Jul'22	Aug'22
Mumbai region	85%	83%
NH3	1%	0%
Pune	2%	4%
NH8	2%	3%
others	10%	10%

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

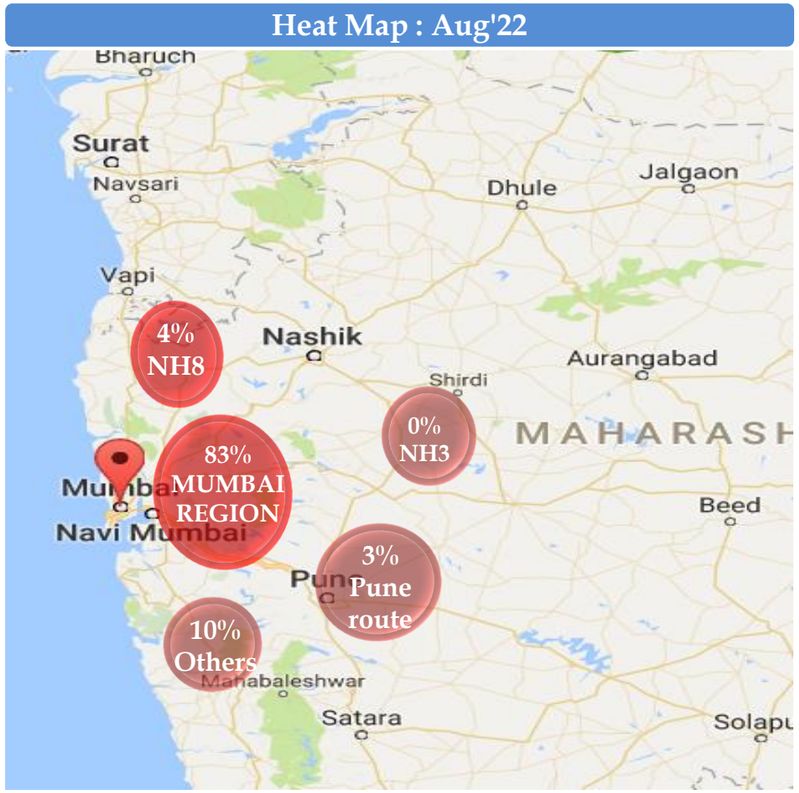
HEAT MAP : NSICT Port Terminal



Region	Jul'22	Aug'22
Mumbai region	85%	82%
NH3	0%	0%
Pune	2%	4%
NH8	3%	4%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Jul'22	Aug'22
Mumbai region	85%	83%
NH3	0%	0%
Pune	2%	3%
NH8	3%	4%
others	10%	10%

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

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CFS - AVERAGE DELIVERY TIME – all CFS in Mumbai TO JNPA Port

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

For Aug'22					
CFS Out Port in (Export Cycle in Hrs)					
CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	1.8	2.8	2.9	2.4	4.8
Punjab Conware CFS, Navi Mumbai	2.1	2.6	5.1	2.4	7.6
JWC Logistics Park CFS	1.8	2.6	3.7	3.3	6.1
CWC Hind Terminal CFS, Navi Mumbai	-	-	-	-	-
Dronogiri Rail Terminal CFS, Navi Mumbai	2.0	2.6	2.5	2.4	3.7
Navkar Corporation Yard 2 CFS, Panvel	7.0	5.7	6.6	4.2	10.2
Vaishno Logistics CFS, Navi Mumbai	1.8	2.7	2.1	4.3	6.3
Speedy Multimode CFS, JNPA	2.0	2.1	2.9	2.0	4.8
Balmer & Lawrie CFS, Navi Mumbai	3.2	2.6	5.6	6.4	8.2
Navkar Corporation Yard 3 CFS, Panvel	3.6	3.7	4.8	3.7	7.8
Ashte Logistics CFS, Panvel	2.2	2.7	7.3	2.6	6.3
Continental Warehousing CFS, Navi Mumbai	1.6	2.0	3.2	2.3	3.3
SBW Logistics CFS, Navi Mumbai	-	7.5	10.3	-	8.0
Maharashtra State Corp CFS	1.6	2.3	2.6	2.4	6.1
Internation Cargo Terminal CFS	3.5	2.4	2.4	2.1	5.6
Seabird CFS, Navi Mumbai	1.9	2.1	3.8	2.8	5.8
Apollo Logisolutions CFS, Panvel	2.1	3.8	2.2	3.2	5.1
Ameya Logistics CFS, Navi Mumbai	7.0	2.6	3.2	2.2	5.2
AllCargo Logistics	2.8	2.9	3.4	2.4	4.1
Ocean Gate CFS, Panvel	2.5	2.2	2.6	3.6	5.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.1	2.0	2.0	1.9	6.1
Indev Logistics CFS, Panvel	2.6	2.7	3.1	2.4	5.5
CWC Dronagiri CFS, Navi Mumbai	-	-	-	-	-
APM (Maersk India) CFS, Navi Mumbai	1.3	2.1	2.1	2.6	4.3

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CFS DELIVERY TIME ANALYSIS

CFS - AVERAGE DELIVERY TIME - GTI TO ALL CFS's IN MUMBAI

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

AVERAGE DELIVERY TIME (In Hrs)- GTI TO ALL CFS IN MUMBAI

CFS	Aug'22 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.0
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	3.5
Ameya Logistics CFS, Navi Mumbai	2.5
AllCargo Logistics	3.1
Indev Logistics CFS, Panvel	3.0
Navkar Corporation Yard 3 CFS, Panvel	4.7
Seabird CFS, Navi Mumbai	2.8
Balmer & Lawrie CFS, Navi Mumbai	2.7
Ashte Logistics CFS, Panvel	2.6
Continental Warehousing CFS, Navi Mumbai	1.5
CWC Hind Terminal CFS, Navi Mumbai	-
Dronogiri Rail Terminal CFS, Navi Mumbai	2.7
Navkar Corporation Yard 1 CFS, Panvel	4.5
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.4
Maersk Annex (APM)CFS, Navi Mumbai	2.0
Speedy Multimode CFS, JNPA	2.0
Apollo Logisolutions CFS, Panvel	3.2
Navkar Corporation Yard 2 CFS, Panvel	4.4
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	2.4
JWC Logistics Park CFS	3.9
SBW Logistics CFS, Navi Mumbai	3.9
Ocean Gate CFS, Panvel	3.7
Maharashtra State Corp CFS	2.1

CFS - AVERAGE DELIVERY TIME - JNPCT TO ALL CFS's IN MUMBAI

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

AVERAGE DELIVERY TIME (In Hrs)- JNPCT TO ALL CFS IN MUMBAI

CFS	Aug'22 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.0
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	3.3
Ameya Logistics CFS, Navi Mumbai	2.5
AllCargo Logistics	2.9
Indev Logistics CFS, Panvel	2.8
Navkar Corporation Yard 3 CFS, Panvel	3.9
Seabird CFS, Navi Mumbai	3.6
Balmer & Lawrie CFS, Navi Mumbai	1.9
Ashte Logistics CFS, Panvel	2.9
Continental Warehousing CFS, Navi Mumbai	1.9
CWC Hind Terminal CFS, Navi Mumbai	-
Dronogiri Rail Terminal CFS, Navi Mumbai	11.2
Navkar Corporation Yard 1 CFS, Panvel	4.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.6
Maersk Annex (APM)CFS, Navi Mumbai	2.3
Speedy Multimode CFS, JNPA	2.3
Apollo Logisolutions CFS, Panvel	2.7
Navkar Corporation Yard 2 CFS, Panvel	3.5
Punjab Conware CFS, Navi Mumbai	1.7
Vaishno Logistics CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	3.7
SBW Logistics CFS, Navi Mumbai	4.3
Ocean Gate CFS, Panvel	3.7
Maharashtra State Corp CFS	2.1

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CFS DELIVERY TIME ANALYSIS

CFS - AVERAGE DELIVERY TIME - NSICT TO ALL CFS's IN MUMBAI

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

AVERAGE DELIVERY TIME (In Hrs)- NSICT TO ALL CFS IN MUMBAI

CFS	Aug'22 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.8
APM (Maersk India) CFS, Navi Mumbai	2.4
Internation Cargo Terminal CFS	3.5
Ameya Logistics CFS, Navi Mumbai	2.3
AllCargo Logistics	3.1
Indev Logistics CFS, Panvel	2.8
Navkar Corporation Yard 3 CFS, Panvel	4.6
Seabird CFS, Navi Mumbai	2.7
Balmer & Lawrie CFS, Navi Mumbai	2.7
Ashte Logistics CFS, Panvel	3.0
Continental Warehousing CFS, Navi Mumbai	1.7
CWC Hind Terminal CFS, Navi Mumbai	-
Dronogiri Rail Terminal CFS, Navi Mumbai	4.5
Navkar Corporation Yard 1 CFS, Panvel	5.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.7
Maersk Annex (APM)CFS, Navi Mumbai	2.3
Speedy Multimode CFS, JNPA	2.0
Apollo Logisolutions CFS, Panvel	3.8
Navkar Corporation Yard 2 CFS, Panvel	3.5
Punjab Conware CFS, Navi Mumbai	1.9
Vaishno Logistics CFS, Navi Mumbai	2.0
JWC Logistics Park CFS	3.2
SBW Logistics CFS, Navi Mumbai	4.2
Ocean Gate CFS, Panvel	3.7
Maharashtra State Corp CFS	1.8

CFS - AVERAGE DELIVERY TIME - NSIGT TO ALL CFS's IN MUMBAI

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

AVERAGE DELIVERY TIME (In Hrs)- NSIGT TO ALL CFS IN MUMBAI

CFS	Aug'22 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	1.9
Internation Cargo Terminal CFS	2.2
Ameya Logistics CFS, Navi Mumbai	2.3
AllCargo Logistics	3.0
Indev Logistics CFS, Panvel	2.9
Navkar Corporation Yard 3 CFS, Panvel	4.0
Seabird CFS, Navi Mumbai	2.2
Balmer & Lawrie CFS, Navi Mumbai	3.7
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.9
CWC Hind Terminal CFS, Navi Mumbai	-
Dronogiri Rail Terminal CFS, Navi Mumbai	4.0
Navkar Corporation Yard 1 CFS, Panvel	4.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.8
Maersk Annex (APM)CFS, Navi Mumbai	2.1
Speedy Multimode CFS, JNPA	2.2
Apollo Logisolutions CFS, Panvel	3.0
Navkar Corporation Yard 2 CFS, Panvel	3.5
Punjab Conware CFS, Navi Mumbai	1.8
Vaishno Logistics CFS, Navi Mumbai	2.1
JWC Logistics Park CFS	3.6
SBW Logistics CFS, Navi Mumbai	3.2
Ocean Gate CFS, Panvel	3.6
Maharashtra State Corp CFS	1.3

CFS - AVERAGE DELIVERY TIME - BMCT TO ALL CFS's IN MUMBAI

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

AVERAGE DELIVERY TIME (In Hrs)- BMCT TO ALL CFS IN MUMBAI

CFS	Aug'22 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	3.1
APM (Maersk India) CFS, Navi Mumbai	2.2
Internation Cargo Terminal CFS	2.7
Ameya Logistics CFS, Navi Mumbai	2.3
AllCargo Logistics	2.9
Indev Logistics CFS, Panvel	3.2
Navkar Corporation Yard 3 CFS, Panvel	4.5
Seabird CFS, Navi Mumbai	2.7
Balmer & Lawrie CFS, Navi Mumbai	2.4
Ashte Logistics CFS, Panvel	2.7
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	-
Dronogiri Rail Terminal CFS, Navi Mumbai	1.6
Navkar Corporation Yard 1 CFS, Panvel	4.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	3.3
Maersk Annex (APM)CFS, Navi Mumbai	2.1
Speedy Multimode CFS, JNPA	1.9
Apollo Logisolutions CFS, Panvel	3.5
Navkar Corporation Yard 2 CFS, Panvel	4.7
Punjab Conware CFS, Navi Mumbai	2.0
Vaishno Logistics CFS, Navi Mumbai	2.2
JWC Logistics Park CFS	3.2
SBW Logistics CFS, Navi Mumbai	5.5
Ocean Gate CFS, Panvel	3.7
Maharashtra State Corp CFS	1.7

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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 Aug'22				
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	2.1
Cluster 2	6	13	2.9	2.4
Cluster 3	6	11	2.5	2.4
Cluster 4	1	13	2.4	2.7
Cluster 5	2	25	3.8	2.4
Cluster 6	6	25	3.8	3.7
Cluster 7	4	12	2.5	2.6
Cluster 8	1	34	3.9	7.5

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Aug'22				
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	2.3	2.0
Cluster 2	6	13	2.4	3.2
Cluster 3	6	11	2.9	2.0
Cluster 4	1	13	2.1	1.8
Cluster 5	2	25	3.7	2.2
Cluster 6	6	25	3.2	2.6
Cluster 7	4	12	2.5	2.8
Cluster 8	1	34	4.3	-

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**

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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 Aug'22				
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	2.9
Cluster 2	6	13	2.7	2.4
Cluster 3	6	11	2.3	3.2
Cluster 4	1	13	2.0	2.1
Cluster 5	2	25	3.5	3.2
Cluster 6	6	25	3.6	4.8
Cluster 7	4	12	2.3	3.2
Cluster 8	1	34	4.2	10.3

CFS Cluster : NSIGT Terminal

NSIGT terminal for month of Aug'22				
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	2.0
Cluster 2	6	13	2.5	2.4
Cluster 3	6	11	2.0	2.4
Cluster 4	1	13	2.1	4.3
Cluster 5	2	25	3.6	3.4
Cluster 6	6	25	3.2	3.2
Cluster 7	4	12	2.3	2.3
Cluster 8	1	34	3.2	-

CFS Cluster : BMCT Terminal

BMCT terminal for month of Aug'22				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.9	4.8
Cluster 2	6	13	2.6	5.6
Cluster 3	6	11	2.0	5.9
Cluster 4	1	13	2.2	6.3
Cluster 5	2	25	3.5	5.9
Cluster 6	6	25	4.0	6.3
Cluster 7	4	12	2.3	4.1
Cluster 8	1	34	5.5	8.0

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**

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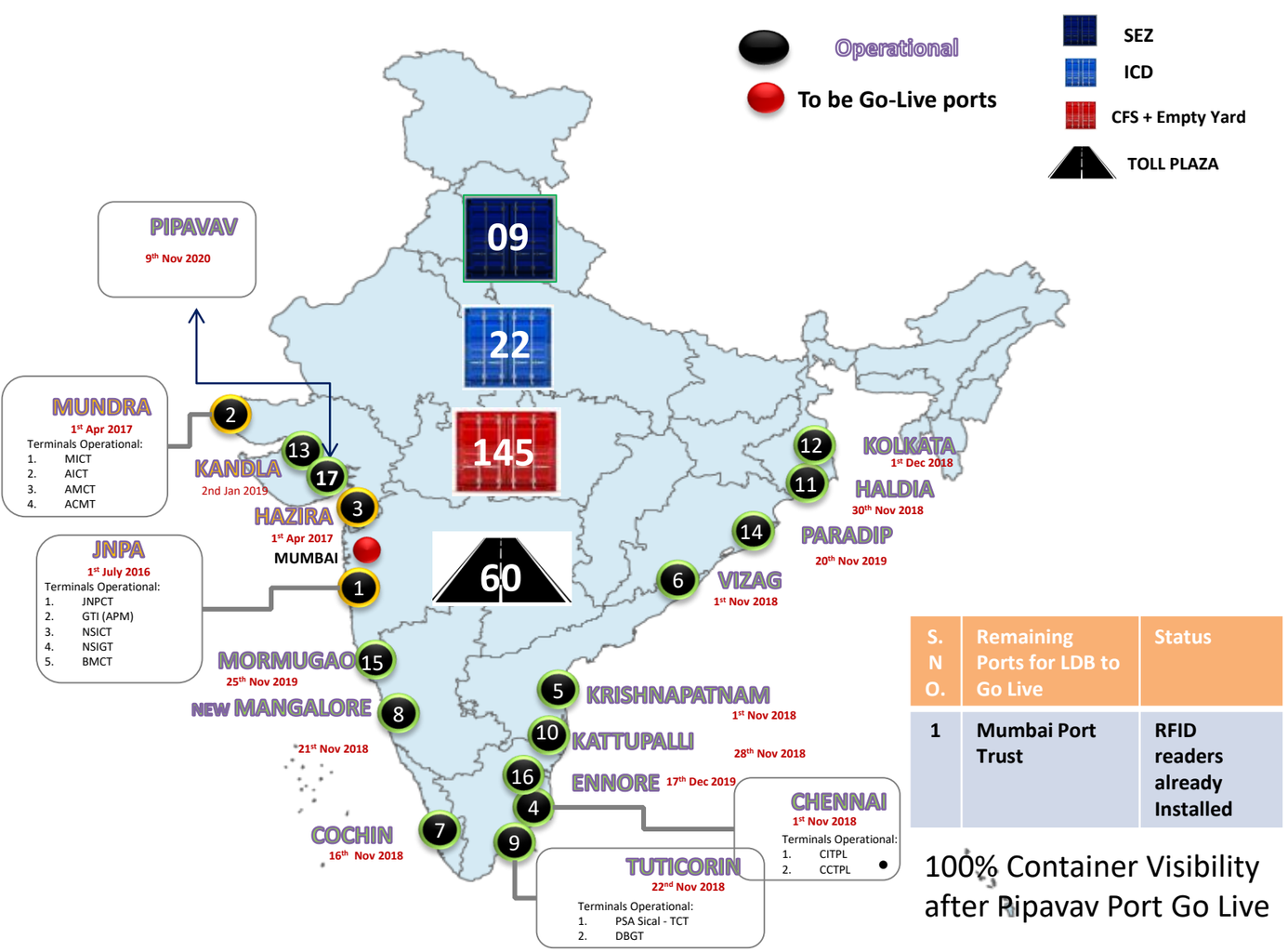
LDB Operations Snapshot



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 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

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Annexure – Western Region CFS

List of CFS name used in CFS Performance Index

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

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THANK YOU

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