Logistics Databank Analytics Report - JNPA

July 2024

Executive Summary

Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	**Jul'24 (in hrs)**	**Jun'24 (in hrs)**
NSFT	24.4	24.7
NSICT	35.4	30.4
GTI	27.9	20.9
NSIGT	33.5	30.9
BMCT	22.1	28.2

Export Cycle		
Port	**Jul'24 (in hrs)**	**Jun'24 (in hrs)**
NSFT	92.6	82.6
NSICT	75.1	59.9
GTI	80.1	77.0
NSIGT	96.3	89.5
BMCT	75.8	87.5

Critical Incident Summary
Jawaharlal Nehru Port Authority

- Overall container handling performance (Port Dwell Time) has declined in import cycle and has improved in export cycle. CFS dwell Time performance has declined in both import and export cycle. ICD dwell Time performance in both import and export cycle has declined.

Month	Port Dwell Time Import	Port Dwell Time Export	CFS Dwell Time Import	CFS Dwell Time Export	ICD Dwell Time Import	ICD Dwell Time Export
Jul'24	26.7 hrs ⬆	79.9 hrs ⬇	84.0 hrs ⬆	72.9 hrs ⬆	117.9 hrs ⬆	101.3 hrs ⬆
Jun'24	26.3 hrs 1.52%	80.9 hrs 1.24%	80.9 hrs 3.83%	68.8 hrs 5.96%	104.3 hrs 13.04%	101.2 hrs 0.09%

⬇ ⬆ indicates decrease/ increase in dwell time from last month

Container Transportation Performance: Western Corridor

Container Lifecycle (Import Cycle)

Port Dwell Time

IMPORT

	Jul'24 (in hrs)		Jun'24 (in hrs)
Truck	22.6		21.7
Train	57.3		88.3
Overall	26.8		27.1

CFS/ ICD Dwell Time

	Jul'24 (in hrs)		Jun'24 (in hrs)
CFS	91.7		88.2
ICD	117.9		104.3

EXPORT

Port Dwell Time

	Jul'24 (in hrs)		Jun'24 (in hrs)
Truck	92.7		93.7
Train	155.0		137.6
Overall	101.0		99.8

CFS/ ICD Dwell Time

	Jul'24 (in hrs)		Jun'24 (in hrs)
CFS	74.4		70.3
ICD	101.3		101.2

Container Lifecycle (Export Cycle)

Indicates decrease/ increase in dwell time from last month

Port Performance Benchmarking & Performance Index: Western Region

Performance benchmarking of terminals based on dwell time vis-à-vis container count (no. of boxes) handled:

Performance Index – Jul'24

Star Performer ★★★

Slow Bulk Mover ★★

High Potential ★★

Needs Improvement ★

No. of Boxes (High / Low)

Dwell Time (Low / High)

X-Axis: Dwell Time

Y-Axis: No. of Boxes

Abb.	Name of Terminal
A	Adani CMA Mundra Terminal (ACMTPL)
B	Adani Hazira Port Private Limited (AHPPL)
C	Adani International Container Terminal (AICTPL)
D	Adani Mundra Container Terminal (AMCT)
E	Bharat Mumbai Container Terminals(PSA)
F	Gateway Terminals India (GTI)
G	APM Terminals Pipavav, Gujarat
H	Nhava Sheva Freeport Terminal (NSFT)
I	Mundra International Container Terminal (MICT)
J	Nhava Sheva India Gateway Terminal (NSIGT)
K	Nhava Sheva International Container Terminal (NSICT)
L	Kandla International Container Terminal (KICT)
M	Adani Mundra Container Terminal-2 (AMCT-2)

Star Performer

Entities with high container count and low dwell time

High Potential

Entities with low container count and low dwell time

Slow Bulk Movers

Entities with high container count and high dwell time

Needs Improvement

Entities with low container count and high dwell time

Container Transportation: JNPA Port Terminals

Container Lifecycle (Import Cycle)

Port Dwell Time

IMPORT		Jul'24 (in hrs)		Jun'24 (in hrs)
🚚	Truck	24.1	🔺	22.5
🚆	Train	45.1	🔻	75.2
	Overall	26.7	🔺	26.3

Transit Time

	Jul'24 (in hrs)		Jun'24 (in hrs)
Port to CFS	2.6	🔺	2.5
Port to ICD	112.4	🔺	110.8

CFS/ ICD Dwell Time

	Jul'24 (in hrs)		Jun'24 (in hrs)
CFS	84.0	🔺	80.9
ICD	117.9	🔺	104.3
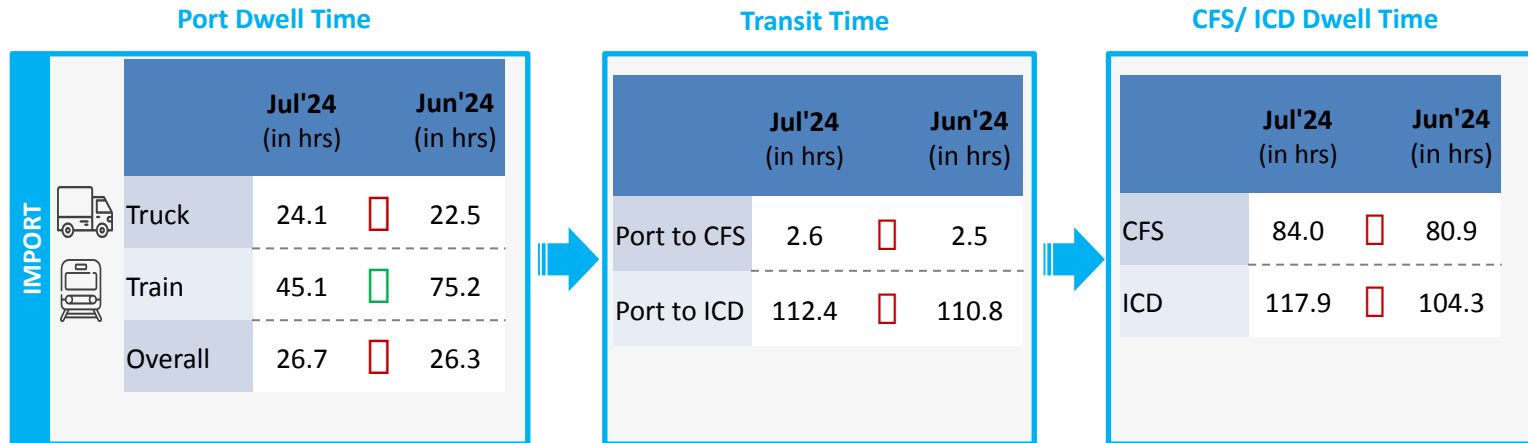
Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	83%	17%
Export	82%	18%
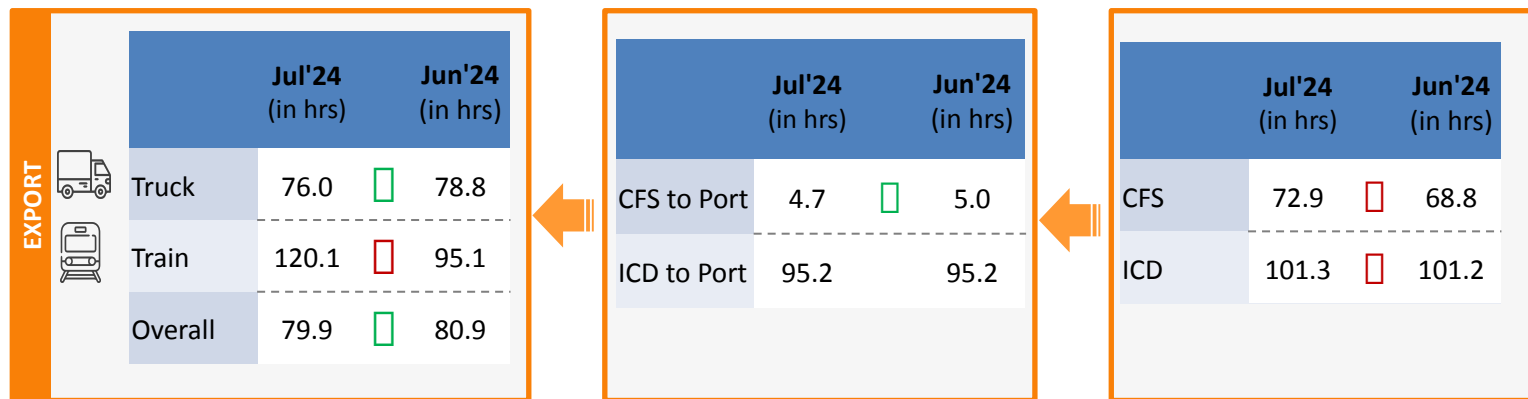
Export Cycle tables

EXPORT		Jul'24 (in hrs)		Jun'24 (in hrs)
🚚	Truck	76.0	🔻	78.8
🚆	Train	120.1	🔺	95.1
	Overall	79.9	🔻	80.9

	Jul'24 (in hrs)		Jun'24 (in hrs)
CFS to Port	4.7	🔻	5.0
ICD to Port	95.2		95.2

	Jul'24 (in hrs)		Jun'24 (in hrs)
CFS	72.9	🔺	68.8
ICD	101.3	🔺	101.2

Container Lifecycle (Export Cycle)

🔻 🔺 Indicates decrease/ increase in dwell time from last month

Container Transportation: JNPA Port Terminals

		Particulars	Jul'24 (in hrs)	Jun'24 (in hrs)
Import Cycle	Dwell Time	Overall Dwell Time	26.7	26.3
		Truck Bound Containers	24.1	22.5
		Train Bound Containers	45.1	75.2
		Direct Port Delivery (DPD) containers	28.2	28.9
		Containers bound for CFS	21.0	22.0
		Empty Containers	34.5	34.3
		Laden Containers	25.4	24.9
	Transit Time	Port to ICD	112.4	110.8
		Port to CFS	2.6	2.5
		Particulars	**Jul'24 (in hrs)**	**Jun'24 (in hrs)**
Export Cycle	Dwell Time	Overall Dwell Time	79.9	80.9
		Truck Bound Containers	76.0	78.8
		Train Bound Containers	120.1	95.1
		Direct Port Entry (DPE) containers	83.6	80.7
		Containers bound from CFS	77.6	78.2
		Empty Containers	68.2	72.9
		Laden Containers	87.7	84.8
	Transit Time	ICD to Port	95.2	95.2
		CFS to Port	4.7	5.0

Parking Plaza Analysis: JNPA Port

The analysis showcases waiting time of containers at parking plaza and transit time between parking plaza exit and port entry:

Parking Plaza Dwell Time	Jul'24 (in hrs)	Jun'24 (in hrs)
Gate in - Gate Out	7.20	5.40

Container Count Percentage: Hour-wise (Jul'24)

	Within 2 hrs	2-4 hrs	4-8 hrs	8-16 hrs	16-24 hrs	More than 24 hrs
Parking Plaza Dwell Time	5%	17%	32%	28%	11%	7%

Parking Plaza to JNPA Port	Jul'24 (in hrs)	Jun'24 (in hrs)
Gate Out – Terminal In	1.2	0.9

Port Terminal	Jul'24 (in hrs)	Jun'24 (in hrs)
NSFT	1.6	0.8
NSICT	1.4	3.2
GTI	1.1	0.8
NSIGT	4.2	0.7
BMCT	3.5	4.1

Container Count Percentage: Hour-wise (Jul'24)

Parking Plaza to Port Terminal	Within 1 hrs	1-2 hrs	2-3 hrs	3-4 hrs	4-5 hrs	More than 5 hrs
NSFT	25%	38%	0%	25%	0%	12%
NSICT	50%	0%	10%	10%	10%	20%
GTI	45%	34%	9%	5%	1%	6%
NSIGT	33%	0%	7%	7%	20%	33%
BMCT	0%	15%	20%	25%	15%	25%

CFS/ICD Performance Benchmarking & Performance Index

CFS: Western Corridor	Performance Benchmarking	ICD: PAN India

Top Performing CFS	Top Performing ICD
Adani CFS Eximyard, Mundra	CONCOR ICD, Dadri

High Potential CFS	Low Performing CFS	High Potential ICD	Low Performing ICD
JWR CFS	Take Care Logistics CFS	CONCOR ICD, Aurangabad	ICD DAULATABAD

Performance Index – Jul'24

Star Performer ★ ★ ★   ★ ★ Slow Bulk Mover

No. of Boxes — High — Dwell Time High — Low

High Potential ★ ★   ★ Needs Improvement
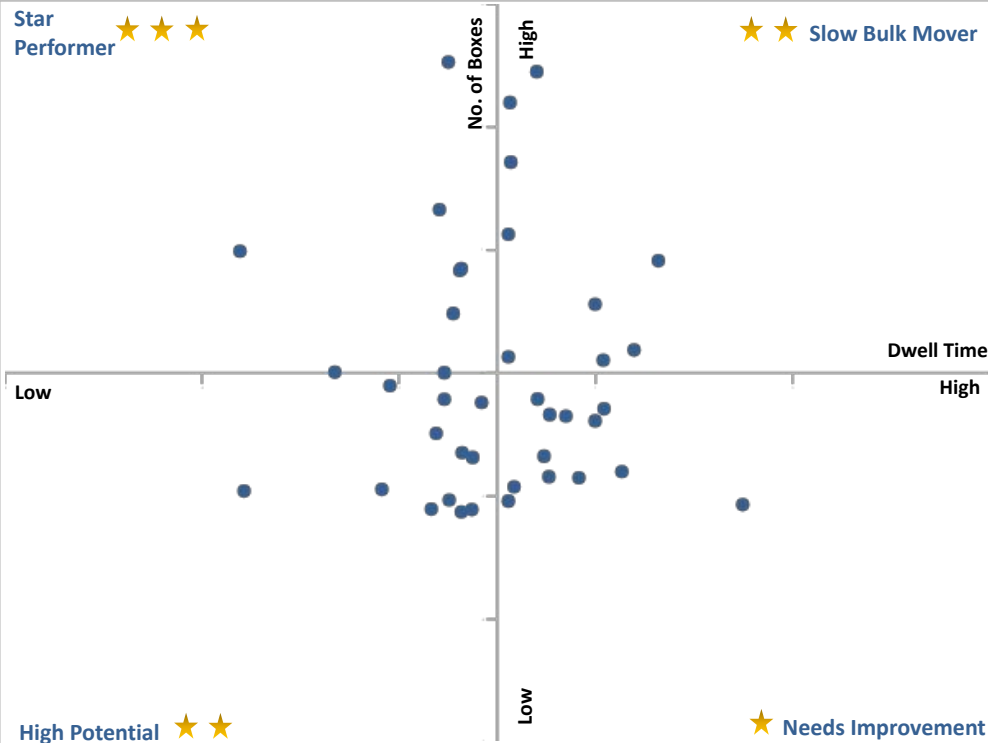
X-Axis: Dwell Time   **Y-Axis:** No. of Boxes

Performance Index – Jul'24

Star Performer ★ ★ ★   ★ ★ Slow Bulk Mover

No. of Boxes — High — Dwell Time High — Low

High Potential ★ ★   ★ Needs Improvement
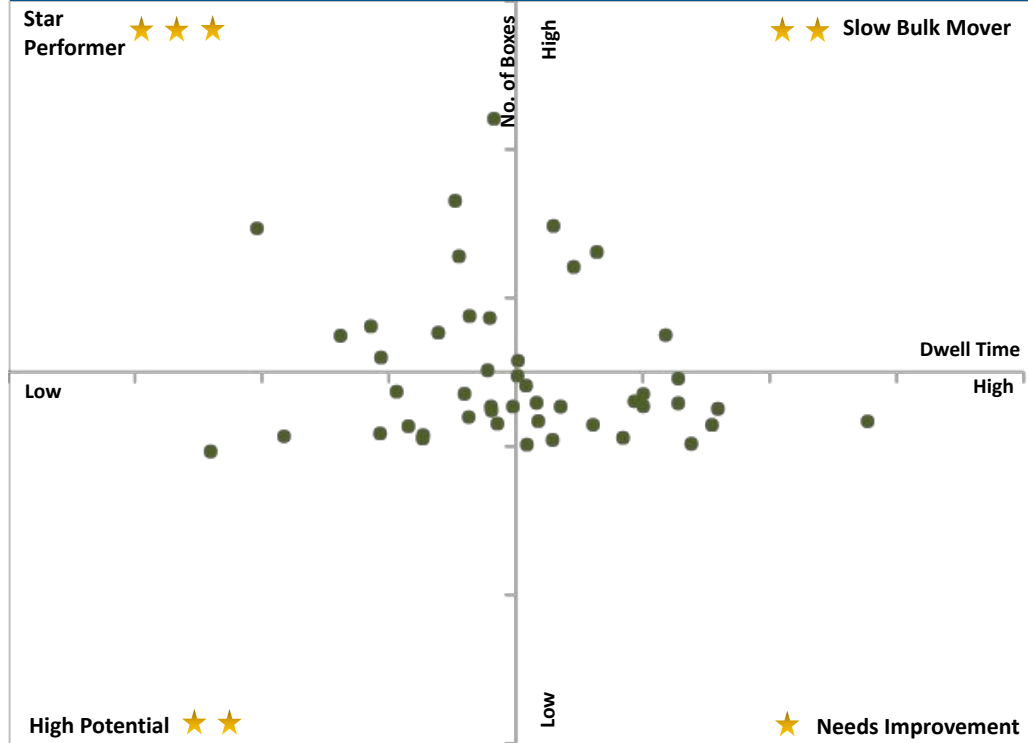
X-Axis: Dwell Time   **Y-Axis:** No. of Boxes

Import Cycle Analysis

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the port dwell time performance at JNPA ports (covered under LDB) for truck and train bound containers in import cycle via Truck and Train.

PORT IMPORT via TRAIN
(17% of total import container volume)

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

Import Cycle		
Port	Jul'24 (in hrs)	Jun'24 (in hrs)
NSFT	42.7	75.2
NSICT	64.1	79.5
GTI	43.3	67.2
NSIGT	57.7	85.4
BMCT	40.3	74.6

Container Handled: Day wise (Jul'24)

Port Terminal	Within 0-24 hrs	24-48 hrs	48-72 hrs	72-96 hrs	96-144 hrs	More than 144 hrs
NSFT	23%	31%	20%	7%	11%	8%
NSICT	17%	23%	16%	14%	17%	13%
GTI	28%	26%	16%	10%	10%	10%
NSIGT	15%	28%	19%	10%	15%	13%
BMCT	30%	27%	12%	8%	15%	8%

PORT IMPORT via TRUCK
(83% of total import container volume)

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

Import Cycle		
Port	Jul'24 (in hrs)	Jun'24 (in hrs)
NSFT	20.8	20.3
NSICT	33.0	26.1
GTI	25.9	18.2
NSIGT	28.6	25.0
BMCT	20.1	24.6

Container Handled: Day wise (Jul'24)

Port Terminal	Within 0-24 hrs	24-48 hrs	48-72 hrs	72-96 hrs	96-144 hrs	More than 144 hrs
NSFT	56%	28%	9%	4%	2%	1%
NSICT	37%	30%	14%	8%	7%	4%
GTI	47%	28%	13%	6%	4%	2%
NSIGT	43%	30%	14%	8%	4%	1%
BMCT	59%	25%	10%	4%	1%	1%

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the detailed JNPA region port performance in the month of Jul'24

Port Dwell Time (in Hours) - Based on Transit Type				
Port Terminals	**Direct Port Delivery (DPD) Containers**	**Containers bound for CFS**	**Empty Containers**	**Laden Containers**
NSFT	24.4	18.0	27.9	22.5
NSICT	70.7	32.9	32.4	36.4
GTI	40.5	22.2	36.9	27.1
NSIGT	54.5	24.4	46.6	31.0
BMCT	44.8	17.7	34.1	21.1

JNPA Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPA region in Import Cycle in month of Jul'24

Import Cycle
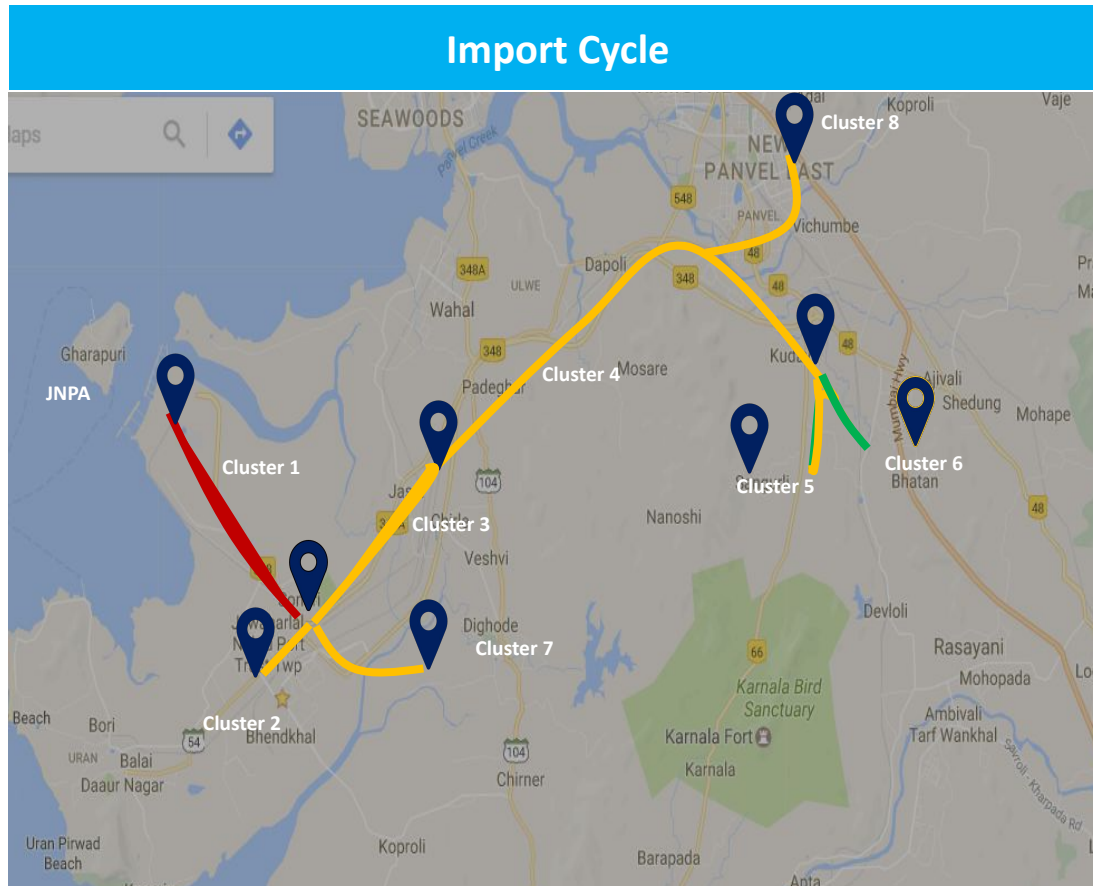
Cluster	Cluster Name	No. of CFS	% of Total Containers	Congestion
Cluster 1	JNPA Area	1	9.15%	High
Cluster 2	Bhendkhal Area, Khopate Road	6	17.73%	Medium
Cluster 3	Sonari Area, JNPA Road	2	13.35%	Medium
Cluster 4	Chirle Area, JNPA Road	1	0.42%	Medium
Cluster 5	Plaspa Area, Coach Kanyakumari Highway	2	13.90%	Medium
Cluster 6	Salva Apta Road Area, Bangalore Highway	5	22.45%	Low
Cluster 7	Patilpada Area, Khopate JNPA Road	3	22.42%	Medium
Cluster 8	Taloja, Navi Mumbai	1	0.58%	Medium

Congestion Level ▬ High ▬ Medium ▬ Low

JNPA Region Import Cycle: Container Movement

Truck
HEAT MAP : OVERALL MUMBAI REGION

Region	Jul'24
Mumbai region	85%
NH3	-
Pune	2%
NH48	3%
Others	10%

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

Heat Map via Truck: Jul'24
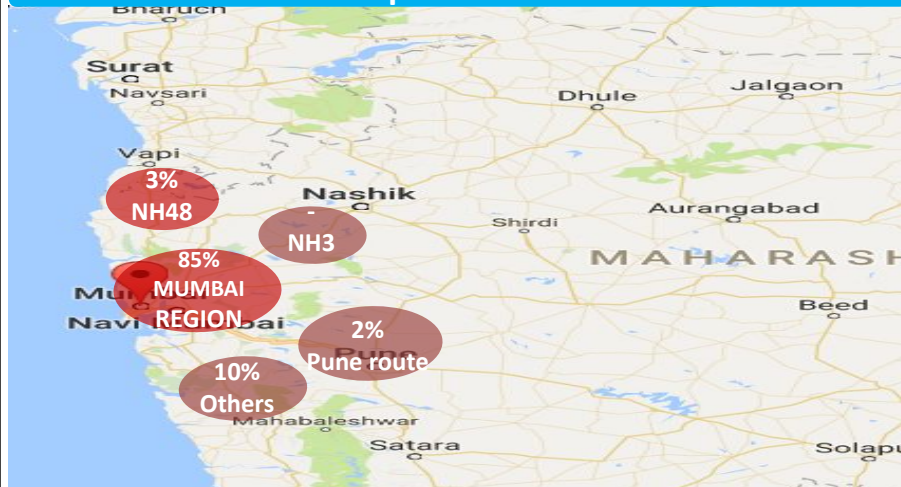
Train
VOLUME WISE CONTAINER MOVEMENT

Region	Jul'24
Vadodra Route	32%
Ratlam Route	22%
Wardha Route	13%
Kota Route	5%
Bhopal Route	28%

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

Container movement via Rail – Jul'24
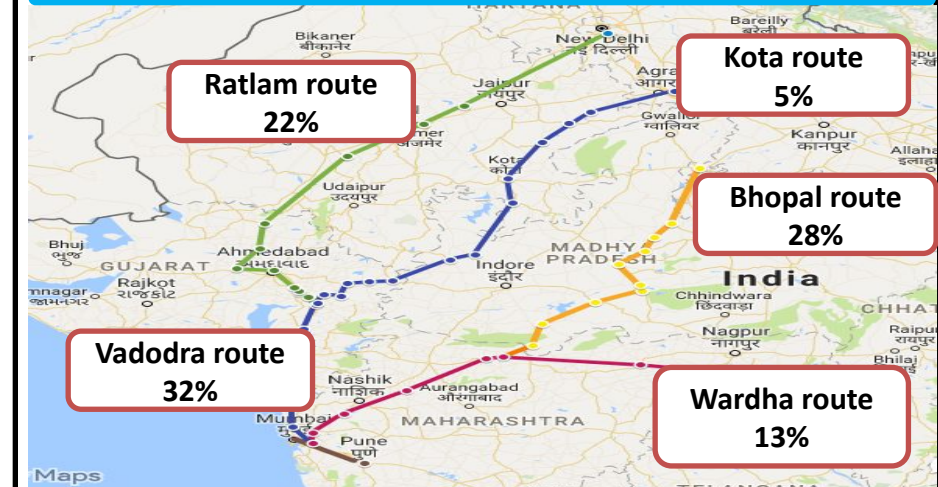
Western Corridor Toll Plaza Analysis

Average speed of trucks to cover the distance between Port to the nearest Toll Plaza for Jul'24:

The average speed of trucks to cover the distance between adjacent toll plazas for Jul'24:

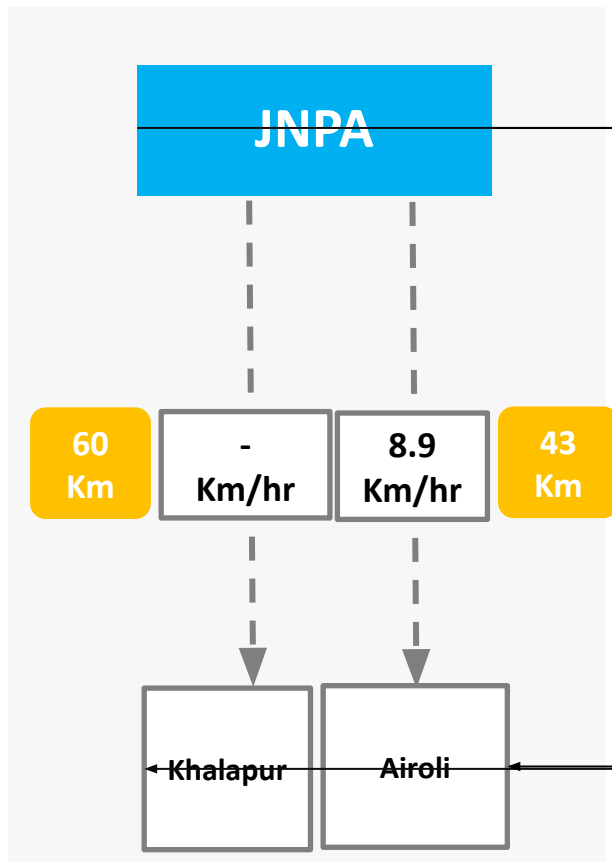| Route	Distance (Km)	Speed (Km/hr)	
		Jul'24	Jun'24
Towards Vapi, Gujarat Highway			
Mulund Airoli - Khaniwade	55.0	15.2	16.5
Khaniwade - Charoti	54.7	17.4	21.7
Charoti - Boriach	127.0	-	-
Boriach - Bharthan	142.0	-	-
Bharthan - Daulatpura	775.0	-	-
Bharthan - Vasad	67.3	37.4	37.1
Towards Pune, Bangalore Highway			
Khalapur - Khedshivapur	107.0	-	-
Khedshivapur - Anewadi	78.9	-	22.7
Anewadi - Kini	117.0	-	-

JNPA

60 Km	- Km/hr	8.9 Km/hr	43 Km

Khalapur — Airoli

Daulatpura Toll Plaza

Towards Vapi, Gujarat Highway

Vasad Toll Plaza

Bharthan Toll Plaza

Boriach Toll Plaza

Bagwada Toll Plaza

Charoti Toll Plaza

Khaniwade Toll Plaza

Thane-Mulund Toll Plaza

Khalapur Toll Plaza

Mulund-Airoli Toll Plaza

JNPA Port

Towards Pune, Bangalore Highway

Khedshivapur Toll Plaza

Anewadi Toll Plaza

Kini Toll Plaza

Export Cycle Analysis

JNPA Port Terminal: Dwell Time Performance (Export Cycle)

The below tables depict the port dwell time performance at JNPA ports (covered under LDB) for truck and train bound containers in export cycle via Truck and Train.

PORT EXPORT via TRAIN
(18% of total export container volume)

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

Export Cycle		
Port	Jul'24 (in hrs)	Jun'24 (in hrs)
NSFT	124.2	101.6
NSICT	18.4	24.9
GTI	133.0	110.9
NSIGT	122.7	122.8
BMCT	123.5	106.0

Container Handled: Day wise (Jul'24)

Port Terminal	Within 0-24 hrs	24-48 hrs	48-72 hrs	72-96 hrs	96-144 hrs	More than 144 hrs
NSFT	15%	9%	6%	6%	20%	44%
NSICT	54%	10%	5%	6%	11%	14%
GTI	1%	6%	12%	14%	22%	45%
NSIGT	0%	8%	8%	16%	35%	33%
BMCT	2%	8%	14%	12%	23%	41%

PORT EXPORT via TRUCK
(82% of total export container volume)

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

Export Cycle		
Port	Jul'24 (in hrs)	Jun'24 (in hrs)
NSFT	90.2	81.0
NSICT	85.6	67.3
GTI	74.8	73.7
NSIGT	89.6	83.8
BMCT	72.0	85.5

Container Handled: Day wise (Jul'24)

Port Terminal	Within 0-24 hrs	24-48 hrs	48-72 hrs	72-96 hrs	96-144 hrs	More than 144 hrs
NSFT	7%	8%	18%	23%	36%	8%
NSICT	4%	10%	21%	26%	30%	9%
GTI	4%	17%	26%	25%	24%	4%
NSIGT	2%	13%	20%	18%	27%	20%
BMCT	3%	21%	26%	24%	20%	6%

JNPA Port Terminal: Dwell Time Performance (Export Cycle)

The below tables depict the detailed JNPA region port performance in the month of Jul'24

Port Dwell Time (in Hours) - Based on Transit Type				
Port Terminals	Direct Port Delivery (DPE) Containers	Containers bound for CFS	Empty Containers	Laden Containers
NSFT	91.6	93.2	77.3	96.6
NSICT	85.3	93.1	65.2	77.8
GTI	79.9	75.6	70.9	85.1
NSIGT	94.8	88.0	73.3	105.3
BMCT	-	74.1	65.1	88.5

JNPA Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPA region in Import Cycle in month of Jul'24

Export Cycle
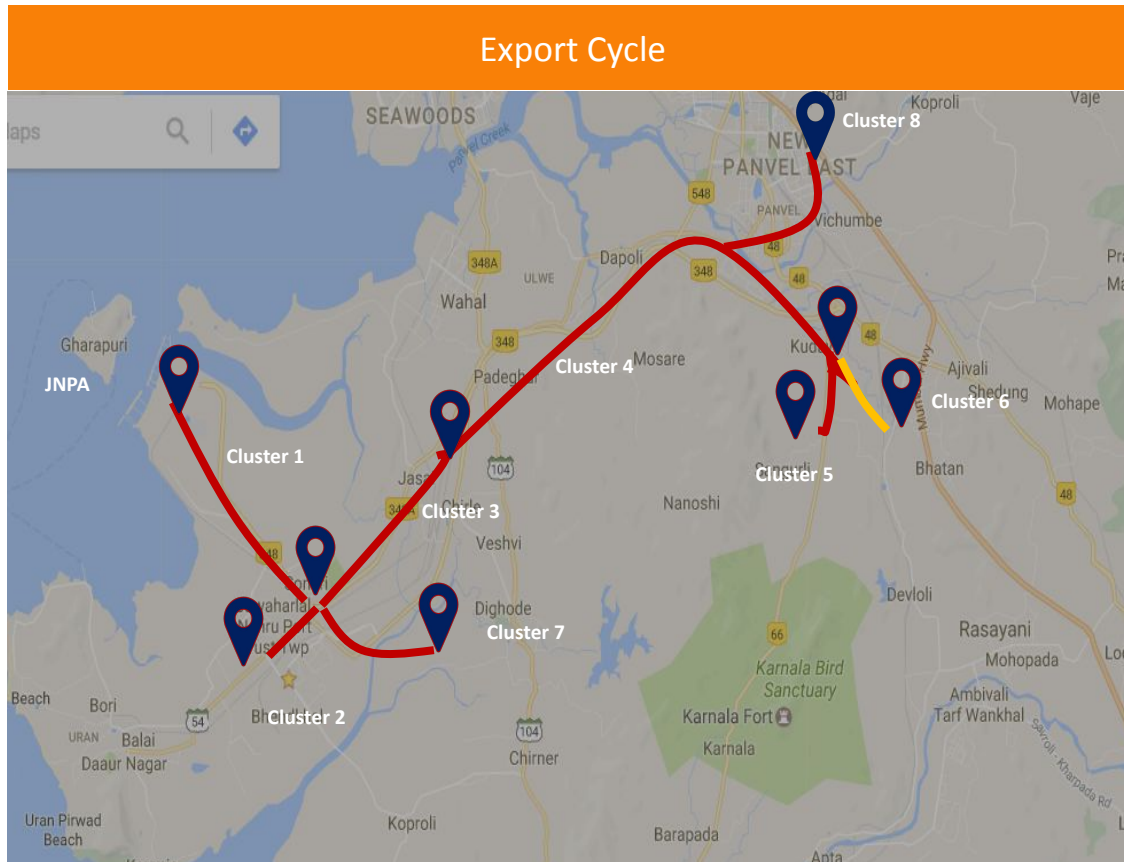
Cluster	Cluster Name	No. of CFS	% of Total Containers	Congestion
Cluster 1	JNPA Area	1	9.39%	High
Cluster 2	Bhendkhal Area, Khopate Road	6	20.62%	High
Cluster 3	Sonari Area, JNPA Road	2	14.07%	High
Cluster 4	Chirle Area, JNPA Road	1	3.79%	High
Cluster 5	Plaspa Area, Coach Kanyakumari Highway	2	16.33%	High
Cluster 6	Salva Apta Road Area, Bangalore Highway	5	22.42%	Medium
Cluster 7	Patilpada Area, Khopate JNPA Road	3	12.80%	High
Cluster 8	Taloja, Navi Mumbai	1	0.58%	High

Congestion Level ▬ High ▬ Medium ▬ Low

JNPA Region: Container Movement via Train

JNPA Port	
Route	**Percentage of Container Movement**
Vadodra Route	34%
Ratlam Route	31%
Wardha Route	18%
Kota Route	9%
Bhopal Route	8%

The map shows the volume wise container movement through different railway routes in export cycle for Jul'24

Container movement via Rail – Jul'24
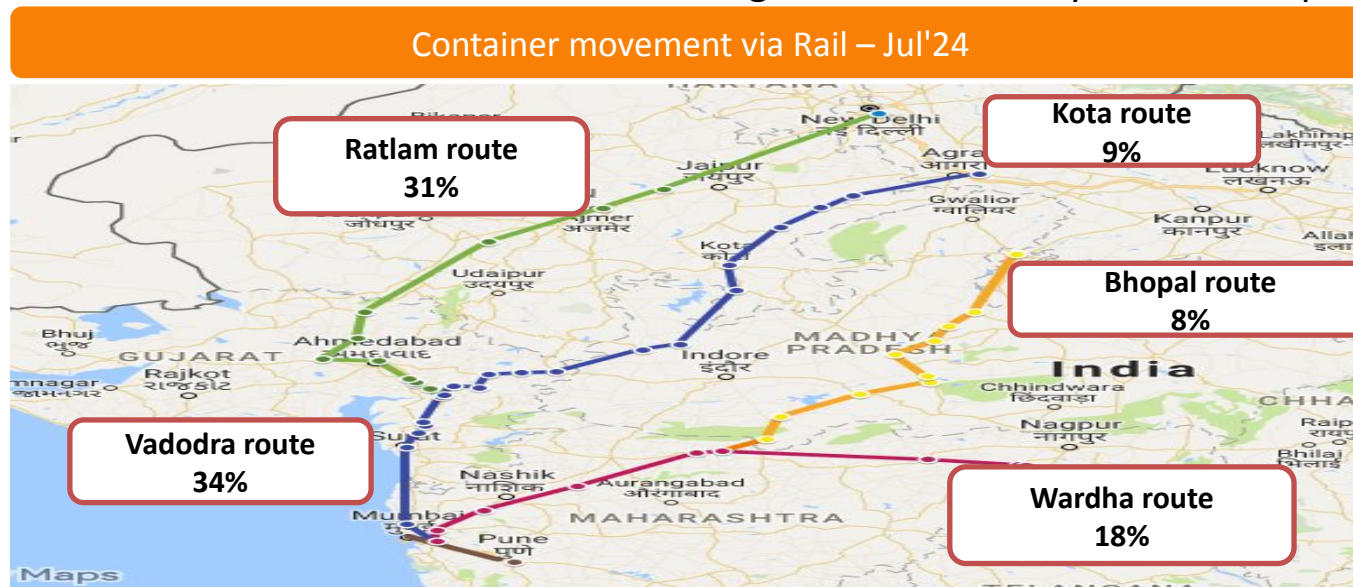
CFS and ICD Performance

CFS Performance

JNPA region CFS : CFS DWELL TIME ANALYSIS

Below table and graphs show the dwell time of the respective CFSs for the month of Jul'24

CFS Dwell Time (in hrs.)					
CFS	**Jul'24 (in hrs)**	**Jun'24 (in hrs)**	**CFS**	**Jul'24 (in hrs)**	**Jun'24 (in hrs)**
AllCargo Logistics	83.5	71.1	JWC Logistics Park CFS	83.4	78.0
Ameya Logistics CFS, Navi Mumbai	80.7	77.6	JWR CFS	56.6	56.6
APM (Maersk India) CFS, Navi Mumbai	83.4	68.9	Kerry Indev Logistics Pvt Ltd CFS	80.3	79.7
Apollo Logisolutions CFS, Panvel	67.8	68.0	Maharashtra State Corp CFS	79.7	67.0
Ashte Logistics CFS, Panvel	74.6	78.4	Navkar Corporation Yard 2 CFS, Panvel	73.6	92.6
Balmer & Lawrie CFS, Navi Mumbai	93.6	79.8	Navkar Corporation Yard 3 CFS, Panvel	84.7	82.4
CWC Conex Terminal CFS	82.4	74.5	Ocean Gate CFS, Panvel	96.3	88.0
CWC Impex Park CFS, Navi Mumbai	84.8	77.2	Punjab Conware CFS, Navi Mumbai	89.2	80.5
CWC Polaris logistics park	56.1	58.1	Sarveshwar CFS	89.2	74.0
EFC Logistics India	81.3	81.1	Seabird CFS, Navi Mumbai	85.9	91.6
Gateway Distriparks CFS, Navi Mumbai	83.2	78.5	Speedy Multimode CFS, JNPT	89.4	84.3
International Cargo Terminals (ULA) CFS, Navi Mumbai	92.8	94.8	Take Care Logistics CFS	118.1	102.4

ICD Performance

ICD	Jul'24 (in hrs)	Jun'24 (in hrs)
Adani ICD, Tumb	106.1	80.7
Adani Logistics Park ICD, Gurgaon	97.5	135.6
Allcargo Logistics Park ICD, Dadri	120.1	125.9
APM Terminals ICD, Dadri	108.4	104.7
CMA CGM Logistics Park, Dadri	130.2	108.7
Continental Warehousing Corporation Nhava Sheva pvt.	112.9	112.6
Gateway Rail Freight ICD, Pyala	149.8	156.0
Hind Terminals Logistics Park ICD, Palwal	133.3	118.5
ICD Jajpur (Jindal Stainless Ltd.)	137.9	127.9
ICD KIFTPL Kashipur	97.6	121.2
KLPL ICD, Kanpur	87.6	114.6
Pegasus Inland Container Depot	115.2	124.1
The Thar Dry Port ICD Ahmedabad	108.6	109.4
The Thar Dry Port Jodhpur	167.5	128.5
Vaishno Container Terminal-ICD Tarapur	118.9	117.5

Trend Analysis

Container Volume and Dwell time of all the terminals in JNPA and Mundra Port has been analysed until Jul'24
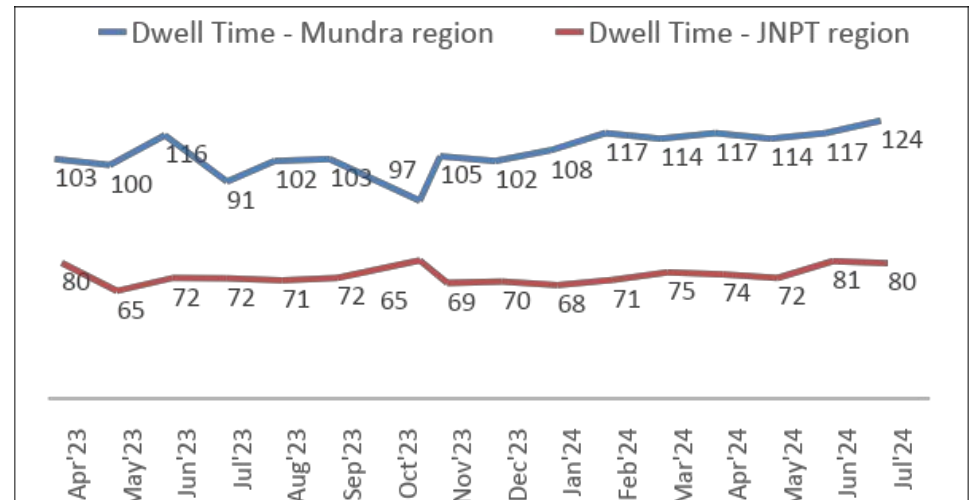
NLDS — NICDC LOGISTICS DATA SERVICES LTD — *Logistics Redefined*

Dwell Time – Mundra Region Vs JNPA Region

Dwell Time - Mundra region | Dwell Time - JNPT region

Mundra region: 32, 38, 44, 62, 34, 26, 29, 26, 31, 25, 19, 20, 24, 29, 28, 27
JNPT region: 29, 20, 16, 20, 20, 17, 22, 18, 18, 19, 23, 17, 19, 24, 26, 27

Dwell Time – Mundra Region Vs JNPA Region

Dwell Time - Mundra region | Dwell Time - JNPT region

Mundra region: 103, 100, 116, 91, 102, 103, 97, 105, 102, 108, 117, 114, 117, 114, 117, 124
JNPT region: 80, 65, 72, 72, 71, 72, 65, 69, 70, 68, 71, 75, 74, 72, 81, 80

Volume – Mundra Region Vs JNPA Region

Volume - Mundra region | Volume - JNPT region

JNPT region: 173, 163, 143, 158, 162, 150, 150, 129, 151, 128, 157, 153, 140, 131, 163, 148
Mundra region: 120, 129, 106, 128, 127, 127, 127, 123, 121, 119, 129, 118, 128, 130, 142, 131

Volume – Mundra Region Vs JNPA Region

Volume - Mundra region | Volume - JNPT region

Mundra region: 139, 153, 121, 149, 156, 148, 148, 151, 162, 153, 174, 163, 171, 155, 165, 146
JNPT region: 146, 148, 138, 141, 140, 130, 130, 119, 145, 134, 131, 137, 101, 88, 112, 116

X-axis (all charts): Apr'23, May'23, Jun'23, Jul'23, Aug'23, Sep'23, Oct'23, Nov'23, Dec'23, Jan'24, Feb'24, Mar'24, Apr'24, May'24, Jun'24, Jul'24

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
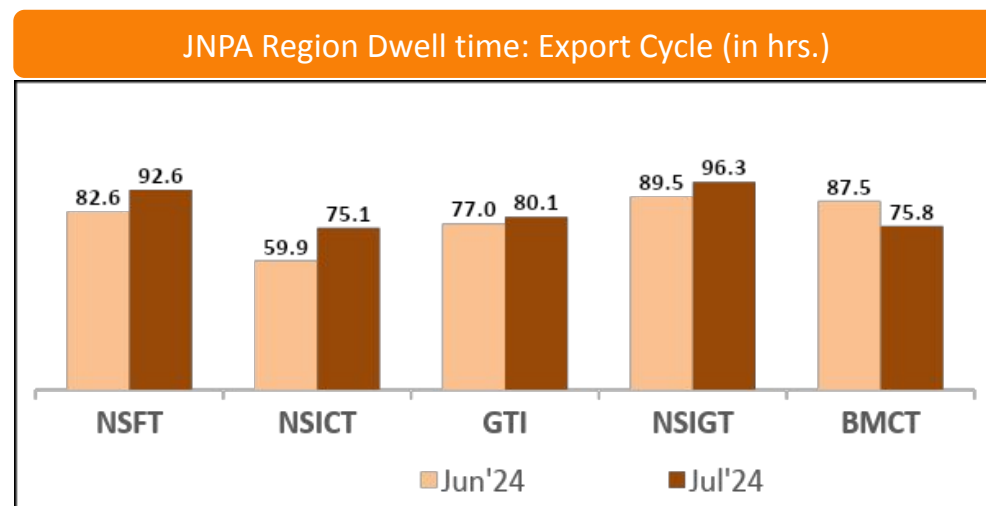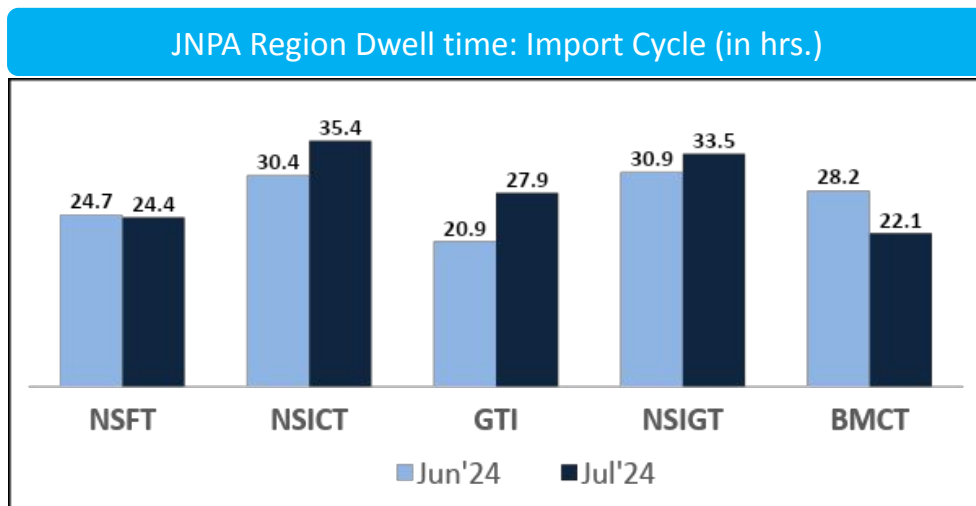
JNPA Region Dwell time: Overall (in hrs.)

Terminal	Jun'24	Jul'24
NSFT	51.1	45.6
NSICT	39.5	42.0
GTI	44.8	53.7
NSIGT	47.2	45.4
BMCT	50.5	44.6
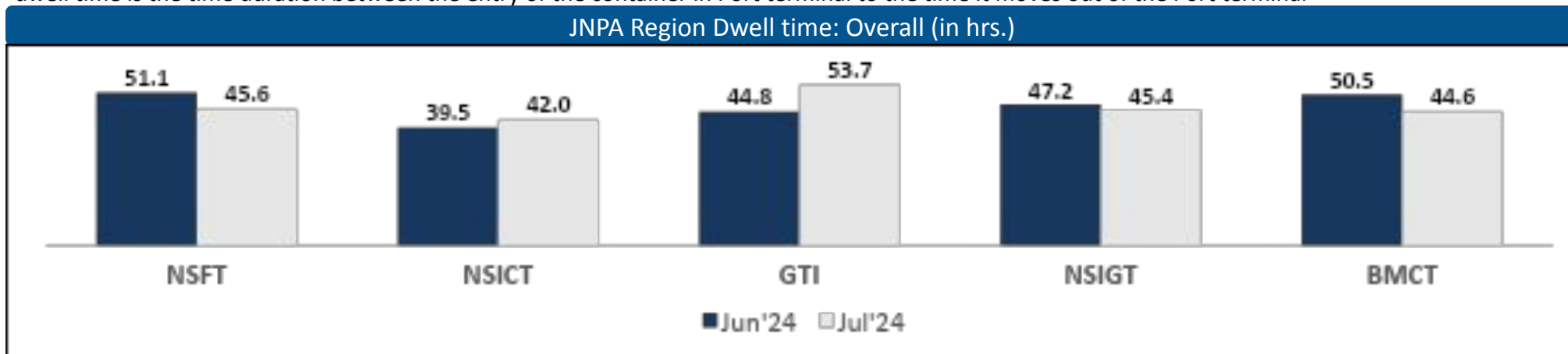
The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of Jul'24

JNPA Region Dwell time: Import Cycle (in hrs.)

Terminal	Jun'24	Jul'24
NSFT	24.7	24.4
NSICT	30.4	35.4
GTI	20.9	27.9
NSIGT	30.9	33.5
BMCT	28.2	22.1

JNPA Region Dwell time: Export Cycle (in hrs.)

Terminal	Jun'24	Jul'24
NSFT	82.6	92.6
NSICT	59.9	75.1
GTI	77.0	80.1
NSIGT	89.5	96.3
BMCT	87.5	75.8

ANNEXURE

Container Movement Around JNPA Port Terminal Region Via Truck

HEAT MAP : GTI Port Terminal

HEAT MAP : NSFT Port Terminal
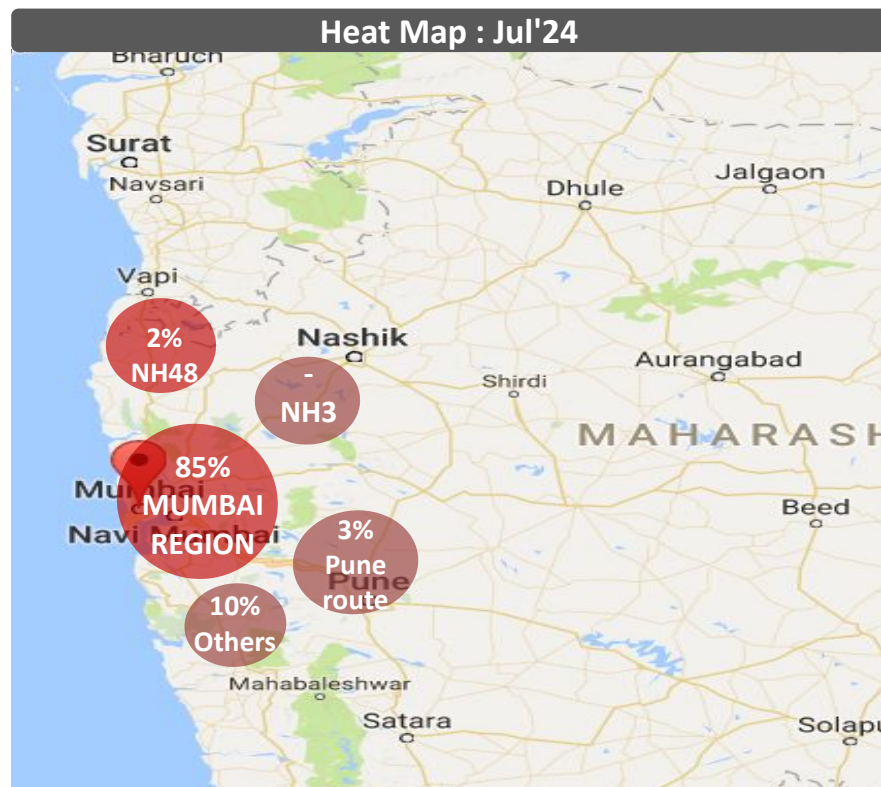
Region	Jul'24	Jun'24
Mumbai region	85%	82%
NH3	-	-
Pune	3%	4%
NH48	2%	4%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.
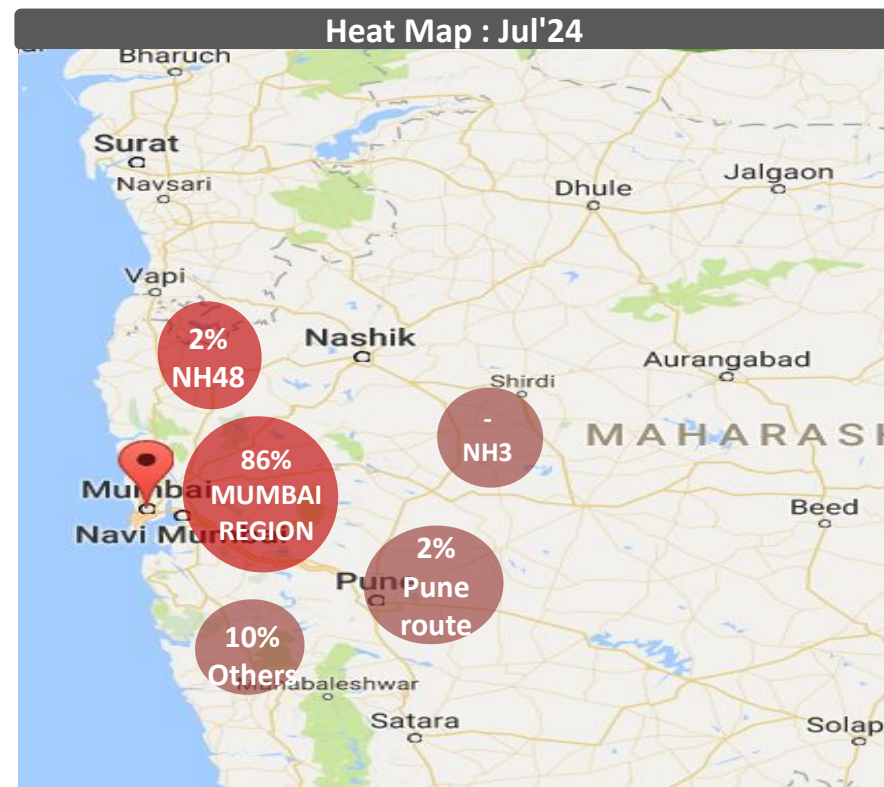
Region	Jul'24	Jun'24
Mumbai region	86%	81%
NH3	-	-
Pune	2%	4%
NH48	2%	5%
others	10%	10%

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

Container Movement Around JNPA Port Terminal Region Via Truck

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Logistics Redefined

HEAT MAP : NSIGT Port Terminal

Heat Map : Jul'24

Region	Jul'24	Jun'24
Mumbai region	74%	78%
NH3	1%	1%
Pune	8%	4%
NH48	7%	7%
others	10%	10%

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

HEAT MAP : NSICT Port Terminal

Heat Map : Jul'24
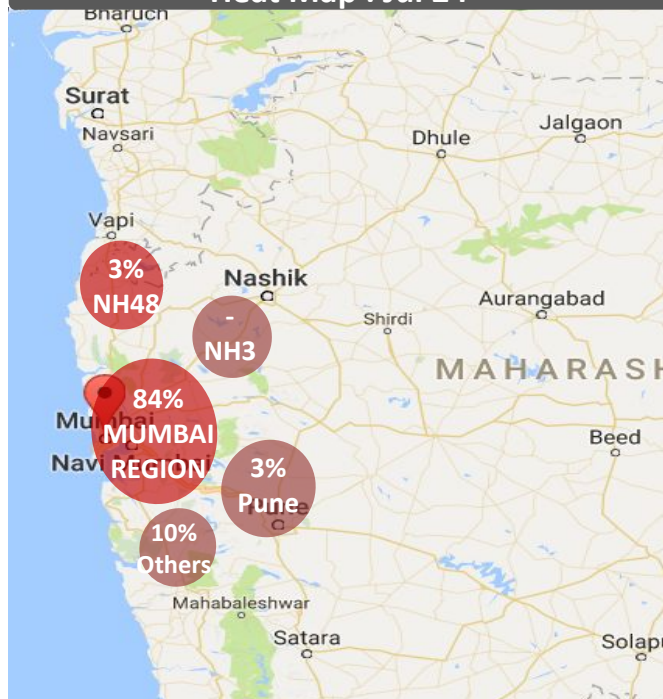
Region	Jul'24	Jun'24
Mumbai region	84%	82%
NH3	-	-
Pune	3%	2%
NH48	3%	6%
others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.
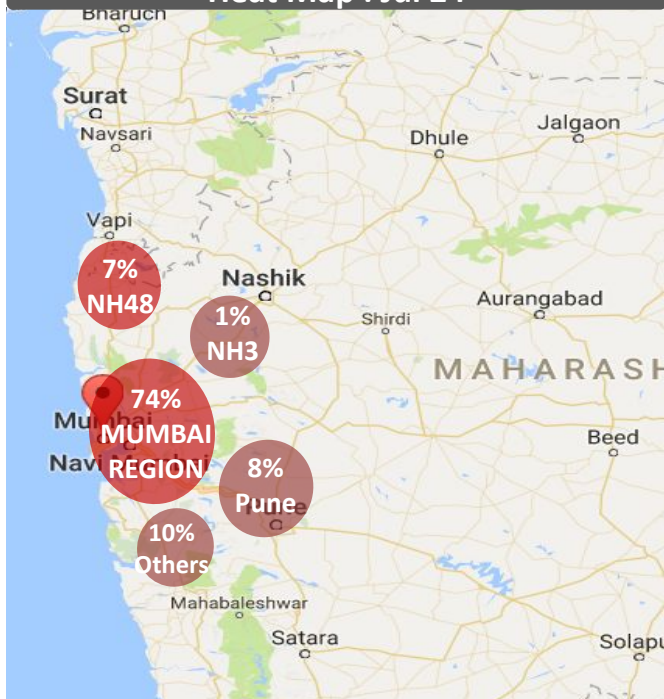
HEAT MAP : BMCT Port Terminal

Heat Map : Jul'24

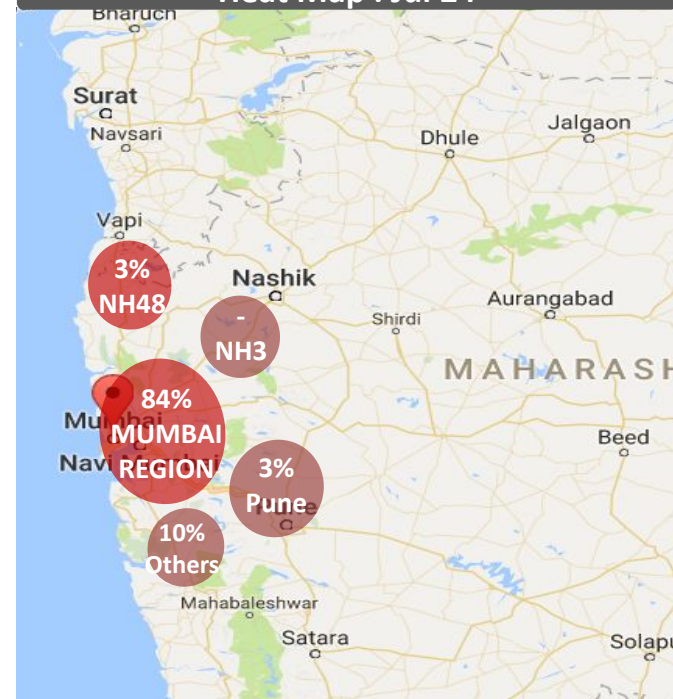| Region	Jul'24	Jun'24
Mumbai region	84%	80%
NH3	-	1%
Pune	3%	3%
NH48	3%	6%
others	10%	10%

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

CFS Delivery Time Analysis: JNPA Terminals to CFS (1/2)

Port Out – CFS In (Import Cycle) – Jul'24 (in hrs): Below table shows the delivery time in import cycle from the PORT terminals to CFS's

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
AllCargo CFS, Mundra	2.4	-	-	-	-
AllCargo Logistics	2.7	3.4	3.3	3.2	3
Ameya Logistics CFS, Navi Mumbai	2.2	2.8	2.8	2.6	2.3
APM (Maersk India) CFS, Navi Mumbai	8.1	3.6	3.4	2.8	2.6
Apollo Logisolutions CFS, Panvel	3.1	4.4	4.6	3.7	4.0
Ashte Logistics CFS, Panvel	2.5	2.8	3.1	2.3	2.2
Balmer & Lawrie CFS, Navi Mumbai	3.4	2.4	2.2	1.8	1.9
CWC CFS, Mundra	6.2	-	-	-	-
CWC Conex Terminal CFS	2.2	2.3	2.6	2.3	2.0
CWC Impex Park CFS, Navi Mumbai	2.3	2.6	3.9	2.4	2.1
CWC Polaris logistics park	2.1	2.2	2.2	1.8	1.8
EFC Logistics India	1.9	2.0	2.1	1.7	1.7
Gateway Distriparks CFS, Navi Mumbai	2.4	3.0	3.0	3.1	2.3
Honey Comb CFS, Mundra	1.9	-	-	-	-
International Cargo Terminal CFS	1.7	1.9	2.8	2.4	2.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.2	1.7	1.8	1.7	1.6
JWC Logistics Park CFS	2.8	4.0	5.3	7.8	3.4

Port Out – CFS In (Import Cycle) – Jul'24 (in hrs): Below table shows the delivery time in import cycle from the PORT terminals to CFS's

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
Kerry Indev Logistics Pvt Ltd CFS	3.2	3.4	4.3	3.1	3.2
Maersk Annex (APM)CFS, Navi Mumbai	2.0	3.2	2.9	2.5	2.2
Maharashtra State Corp CFS	1.6	1.8	2.2	2.1	2.8
MICT CFS, Mundra	1.9	-	-	-	-
Navkar Corporation Yard 1 CFS, Panvel	2.2	3.6	3.2	2.5	2.7
Navkar Corporation Yard 2 CFS, Panvel	2.0	3.0	3.0	2.3	2.6
Navkar Corporation Yard 3 CFS, Panvel	2.8	2.9	3.9	2.1	2.5
Ocean Gate CFS, Panvel	2.9	3.8	3.9	2.7	2.9
Punjab Conware CFS, Navi Mumbai	2.1	2.3	2.2	2.1	2.0
Rishi CFS, Mundra	1.4	-	-	-	-
Sarveshwar CFS	2.1	2.4	2.4	2.5	2.5
Saurashtra CFS, Mundra	1.0	-	-	-	-
SBW Logistics CFS, Navi Mumbai	5.3	4.6	8.9	9.0	4.6
Seabird CFS, Navi Mumbai	2.9	3.4	3.7	2.8	2.7
Sical CFS, Chennai Tiruvallur Tamil Nadu	-	-	-	-	1.2
Speedy Multimode CFS, JNPT	1.7	1.9	2.2	1.7	1.5
Take Care Logistics CFS	4.1	2.9	3.6	2.7	2.9
Transworld terminals CFS	1.5	1.6	1.8	1.4	1.5
Vaishno Logistics CFS, Navi Mumbai	1.5	2.8	2.3	2.0	2.3

CFS Out – Port In (Export Cycle) – Jul'24 (in hrs):   Below table shows the delivery time in export cycle from the CFS's to PORT terminals

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
AllCargo Logistics	2.4	7.0	4.2	6.1	4.3
Ameya Logistics CFS, Navi Mumbai	1.5	6.8	4.7	3.9	3.3
APM (Maersk India) CFS, Navi Mumbai	3.4	7.3	6.5	2.7	5.5
Apollo Logisolutions CFS, Panvel	2.4	6.4	6.9	9.1	3.8
Ashte Logistics CFS, Panvel	2.5	6.6	3.4	4.3	3.9
Balmer & Lawrie CFS, Navi Mumbai	4.7	7.0	4.4	4.8	3.4
CFS AMBAD, NASHIK	19.5	12.8	-	-	13.3
CWC Conex Terminal CFS	2.4	6.3	6.1	4.5	4.3
CWC Impex Park CFS, Navi Mumbai	2.8	29.8	7.2	-	4.1
CWC Polaris logistics park	2.3	6.3	6.2	5.1	4.3
EFC Logistics India	2.0	9.8	8.7	5.1	5.0
Gateway Distriparks CFS, Navi Mumbai	2.8	7.0	4.8	4.7	3.8
International Cargo Terminal CFS	2.5	6.8	6.4	3.9	4.1

CFS Out – Port In (Export Cycle) – Jul'24 (in hrs):   Below table shows the delivery time in export cycle from the CFS's to PORT terminals

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9	5.1	6.5	3.1	3.9
JWC Logistics Park CFS	2.2	7.5	5.2	3.4	5.6
JWR CFS	1.9	5.3	6.6	6.3	4.5
Kerry Indev Logistics Pvt Ltd CFS	3.2	8.2	5.5	4.2	4.9
Maersk Annex (APM)CFS, Navi Mumbai	-	6.2	2.3	-	4.4
Maharashtra State Corp CFS	1.2	8.8	6.0	8.4	3.9
Navkar Corporation Yard 2 CFS, Panvel	3.5	9.9	7.6	10.2	6.4
Navkar Corporation Yard 3 CFS, Panvel	3.1	8.7	3.9	5.0	4.7
Ocean Gate CFS, Panvel	2.6	7.4	7.3	6.3	5.8
Punjab Conware CFS, Navi Mumbai	1.9	7.3	4.8	5.3	4.0
Sarveshwar CFS	7.7	9.0	6.8	4.0	5.4
Seabird CFS, Navi Mumbai	2.0	5.7	5.2	6.0	3.8
Speedy Multimode CFS, JNPT	2.5	5.2	3.0	4.0	3.4
Take Care Logistics CFS	3.5	4.8	10.7	18.6	4.9
Transworld terminals CFS	1.4	6.2	3.7	2.8	4.2
Vaishno Logistics CFS, Navi Mumbai	3.7	7.1	10.0	4.2	3.8

JNPA Region: Cluster Analysis

Based 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 Jul'24				
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	5.2
Cluster 2	6	13	2.5	6.9
Cluster 3	6	11	2.8	7.0
Cluster 4	1	13	2.8	7.1
Cluster 5	2	25	4.0	7.5
Cluster 6	6	25	3.3	7.9
Cluster 7	4	12	3.1	7.1
Cluster 8	1	34	4.6	16.6

CFS Cluster : NSFT Terminal

NSFT terminal for month of Jul'24				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.9	2.5
Cluster 2	6	13	2.1	3.1
Cluster 3	6	11	2.6	1.9
Cluster 4	1	13	1.5	3.7
Cluster 5	2	25	2.8	2.2
Cluster 6	6	25	2.7	2.9
Cluster 7	4	12	2.3	1.7
Cluster 8	1	34	5.2	10.5

JNPA Region: Cluster Analysis

Based 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 Jul'24				
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	3.0
Cluster 2	6	13	2.6	4.8
Cluster 3	6	11	2.8	5.1
Cluster 4	1	13	2.3	10.0
Cluster 5	2	25	4.5	6.4
Cluster 6	6	25	3.7	5.3
Cluster 7	4	12	3.0	4.6
Cluster 8	1	34	9.0	12.5

CFS Cluster : NSIGT Terminal

NSIGT terminal for month of Jul'24				
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	3.9
Cluster 2	6	13	2.3	4.3
Cluster 3	6	11	2.5	5.7
Cluster 4	1	13	2.0	4.2
Cluster 5	2	25	3.9	4.2
Cluster 6	6	25	2.9	6.2
Cluster 7	4	12	2.7	4.2
Cluster 8	1	34	9.0	7.4

CFS Cluster : BMCT Terminal

BMCT terminal for month of Jul'24				
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	3.4
Cluster 2	6	13	2.1	3.8
Cluster 3	6	11	2.4	3.9
Cluster 4	1	13	2.8	3.8
Cluster 5	2	25	3.2	5.7
Cluster 6	6	25	2.8	4.4
Cluster 7	4	12	2.6	3.5
Cluster 8	1	34	4.6	7.6

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 for Jul'24

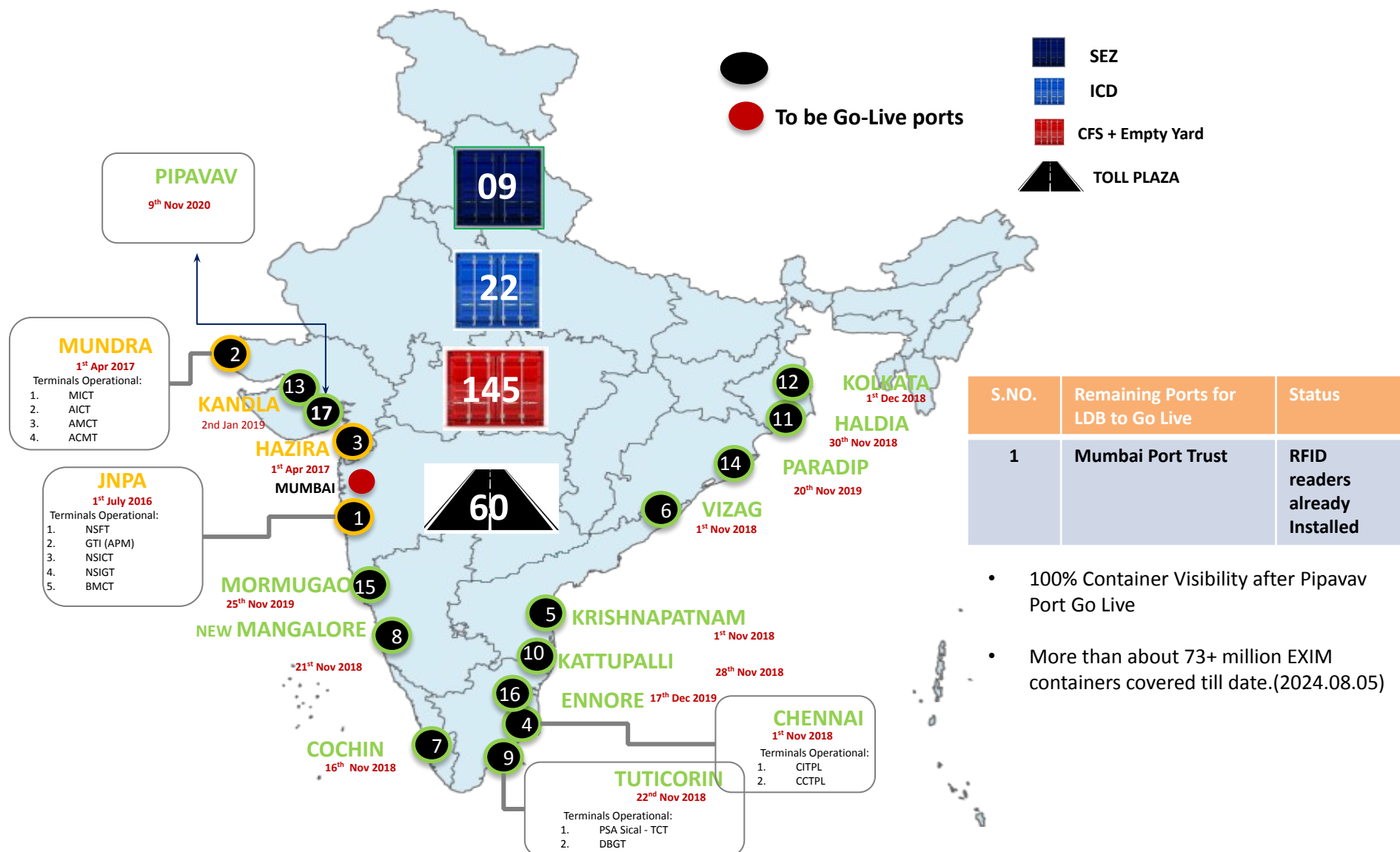| City	BMCT	GTI	NSFT	NSIGT	NSICT	Overall
Ludhiana	-	57.6	74.7	-	20.6	57.5
Tughlakabad	37.2	43.4	50.6	55.6	95.9	47.2
Kanpur	79.1	68.6	115.2	105.5	66.9	83.1
Daulatabad	36.2	25.6	33.7	37.5	86.3	37.3
Navi Mumbai	138.2	36.6	42.6	36.8	-	44.2
Faridabad	30.9	86.3	-	64.1	-	70.7
Khodiyar	51.4	162.3	18.1	-	145.7	53.5
Malanpur	209.8	91.4	103.6	78.9	69.0	91.2
Moradabad	95.8	45.4	22.6	112.2	-	36.6
Jaipur	11.5	28.0	119.9	114.0	-	37.6
Ankaleshwar	34.4	-	44.9	46.2	-	45.7
Sanatnagar	66.4	-	27.8	63.3	-	48.7
Nagpur	40.5	-	31.3	57.9	66.5	41.2
Mandideep	15.9	-	18.1	49.2	35.3	35.4
Boisar	80.4	-	65.9	92.2	75.7	75.0
Dadri	22.6	-	42.5	57.3	42.7	34.7
Thimmapur	115.8	-	-	122.8	107.3	106.3
Indore	163.4	-	47.8	43.9	38.0	45.1
Dhannad/Indore	-	-	122.2	-	-	122.2

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 for Jul'24

CFS	BMCT	GTI	NSFT	NSIGT	NSICT	Overall
EFC Logistics	14.5	20.9	12.4	16.8	21.9	17.5
Gateway Distriparks CFS, Navi Mumbai	23.1	35.4	20.9	26.8	45.4	29.7
Continental Warehousing CFS, Navi Mumbai	18.0	45.1	26.2	21.6	44.9	29.0
Navkar Corporation	20.0	21.7	17.4	24.1	27.0	21.6
JWC Logistics Park CFS	43.2	43.1	27.5	28.8	30.0	36.9
Balmer & Lawrie CFS, Navi Mumbai	28.7	36.7	18.2	19.1	39.9	30.4
Take Care Logistics	27.4	27.6	32.4	22.3	28.7	26.0
Apollo Logisolutions CFS, Panvel	31.2	33.4	25.2	32.2	44.9	32.4
Ashte Logistics CFS, Panvel	16.4	18.8	-	19.1	18.1	17.6
Kerry Indev Logistics Pvt Ltd CFS	21.0	39.7	19.1	22.0	30.3	25.4
CWC Impex Park	23.5	28.5	24.1	35.9	33.4	29.0
APM (Maersk India) CFS, Navi Mumbai	42.6	17.4	13.5	24.2	26.4	26.3
Sarveshwar Logistics	19.6	18.1	-	20.4	22.0	20.0
Ocean Gate CFS, Panvel	17.7	21.0	15.5	26.3	27.2	21.1
Maharashtra State Corp CFS	19.3	19.8	17.5	22.9	19.5	20.0
Dronagiri Rail Terminal CFS, Navi Mumbai	22.8	32.0	21.2	23.0	-	25.9
Vaishno Logistics CFS, Navi Mumbai	35.5	20.2	18.8	17.2	22.7	23.1
TG Terminals	19.7	-	19.5	18.5	28.9	21.2
Speedy Multimode CFS, JNPT	15.5	-	-	21.5	33.8	18.2
Ameya Logistics CFS, Navi Mumbai	23.6	-	16.6	31.1	43.3	26.1
Seabird CFS, Navi Mumbai	23.9	-	24.2	29.3	32.6	27.5

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Legend:
- SEZ
- ICD
- CFS + Empty Yard
- TOLL PLAZA

To be Go-Live ports

09

22

145

60

PIPAVAV
9th Nov 2020

MUNDRA
1st Apr 2017
Terminals Operational:
1. MICT
2. AICT
3. AMCT
4. ACMT

KANDLA
2nd Jan 2019

HAZIRA
1st Apr 2017
MUMBAI

JNPA
1st July 2016
Terminals Operational:
1. NSFT
2. GTI (APM)
3. NSICT
4. NSIGT
5. BMCT

MORMUGAO
25th Nov 2019

NEW MANGALORE
21st Nov 2018

COCHIN
16th Nov 2018

KOLKATA
1st Dec 2018

HALDIA
30th Nov 2018

PARADIP
20th Nov 2019

VIZAG
1st Nov 2018

KRISHNAPATNAM
1st Nov 2018

KATTUPALLI
28th Nov 2018

ENNORE 17th Dec 2019

CHENNAI
1st Nov 2018
Terminals Operational:
1. CITPL
2. CCTPL

TUTICORIN
22nd Nov 2018
Terminals Operational:
1. PSA Sical - TCT
2. DBGT

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 73+ million EXIM containers covered till date.(2024.08.05)

LDB Operations Snapshot (2/2)

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

Ref. No.	Name	Ref. No.	Name
	List of CFS names used in the Western CFS Performance Index		
1	Adani CFS Eximyard, Mundra	24	Kerry Indev Logistics Pvt Ltd CFS
2	AllCargo CFS, Mundra	25	Landmark CFS, Mundra
3	AllCargo Logistics	26	LCL Logistics CFS, Pipavav
4	Ameya Logistics CFS, Navi Mumbai	27	Maharashtra State Corp CFS
5	APM (Maersk India) CFS, Navi Mumbai	28	MICT CFS, Mundra
6	Apollo Logisolutions CFS, Panvel	29	Mundhra CFS, Mundra
7	Ashte Logistics CFS, Panvel	30	Navkar Corporation Yard 2 CFS, Panvel
8	Ashutosh CFS, Mundra	31	Navkar Corporation Yard 3 CFS, Panvel
9	Balmer & Lawrie CFS, Navi Mumbai	32	Ocean Gate CFS, Panvel
10	Contrans Logistic CFS, Pipavav	33	Punjab Conware CFS, Navi Mumbai
11	CWC CFS, Mundra	34	Sarveshwar CFS
12	CWC Conex Terminal CFS	35	Saurashtra CFS, Mundra
13	CWC Impex Park CFS, Navi Mumbai	36	Seabird CFS, Mundra
14	CWC Polaris logistics park	37	Seabird CFS, Navi Mumbai
15	EFC Logistics India	38	Speedy Multimode CFS, JNPT
16	Gateway Distriparks CFS, Navi Mumbai	39	Take Care Logistics CFS
17	HAZIRA CFS	40	TG Terminals CFS, Mundra
18	Hind Terminal CFS, Hazira	41	Transworld CFS, Mundra
19	Hind Terminals Pvt. Ltd. CFS, Mundra		
20	Honey Comb CFS, Mundra		
21	International Cargo Terminals (ULA) CFS, Navi Mumbai		
22	JWC Logistics Park CFS		
23	JWR CFS		

Methodology

Step 1   CFSs are divided into clusters based on their vicinity
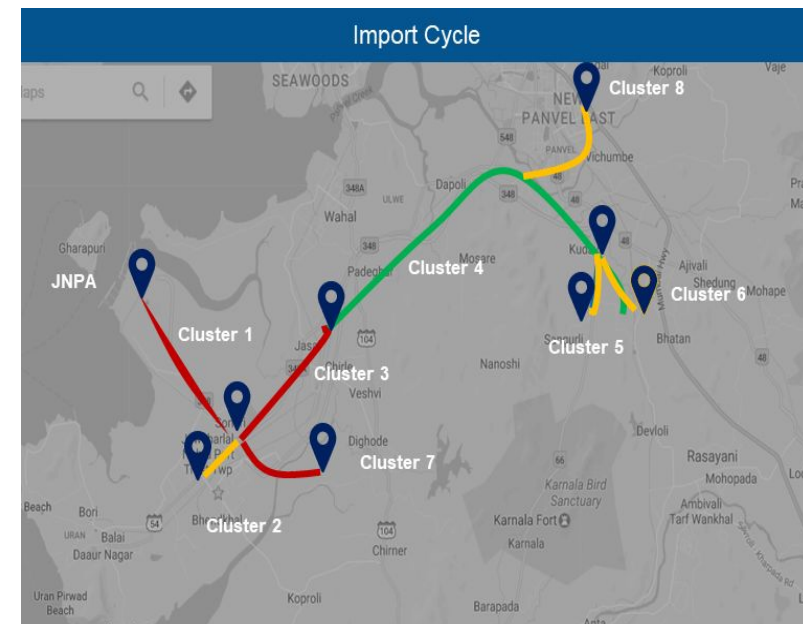
Step 2   Cluster based transit time is calculated. The transit time is the travel time between CFS clusters and port or vice versa.

Step 3   Cluster based congestion level is calculated as per below steps:

1. Cluster based transit time is compared with threshold
2. Threshold is 3X of time showcased on Google Maps between the Origin-Destination (OD) pair
3. Intensity of congestion is classified as below:
   - High congestion: >2 times the threshold
   - Medium congestion: >1.5 to <=2 times the threshold
   - Low congestion: >1 to <=1.5 times the threshold

Import Cycle

Congestion Analysis

Congestion Level   ▬ High   ▬ Medium   ▬ Low

THANK YOU