Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	**Nov'22 (in hrs)**	**Dec'22 (in hrs)**
JNPCT	33.5	50.1
NSICT	22.1	25.6
GTI	15.5	17.5
NSIGT	21.6	23.7
BMCT/ PSA	19.0	26.2

Export Cycle		
Port	**Nov'22 (in hrs)**	**Dec'22 (in hrs)**
JNPCT	63.7	74.5
NSICT	51.2	51.8
GTI	70.6	76.9
NSIGT	82.5	73.6
BMCT/ PSA	72.2	70.8

Critical Incident Summary

Jawaharlal Nehru Port Authority

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

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time	ICD
Dec'22	**22.6 hrs** ⬇ 16.5%	**69.0 hrs** ⬇ 0.4%	77.1 ⬆ 8.3%	110.3 ⬆ 9.4%
Nov'22	**19.4 hrs**	**68.7 hrs**	84.1	121.8

Container Transportation Performance - Western Corridor

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Port Dwell Time

IMPORT

Mode	Nov'22 (in hrs)	Dec'22 (in hrs)
Overall	23.7	25.4
Truck	19.6	20.1
Train	68.2	78.7

EXPORT

Mode	Nov'22 (in hrs)	Dec'22 (in hrs)
Overall	83.5	82.7
Truck	78.7	78.6
Train	115.1	104.9

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

Entity	Nov'22 (in hrs)	Dec'22 (in hrs)
CFS	86.3	80.2
ICD	121.8	110.3

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

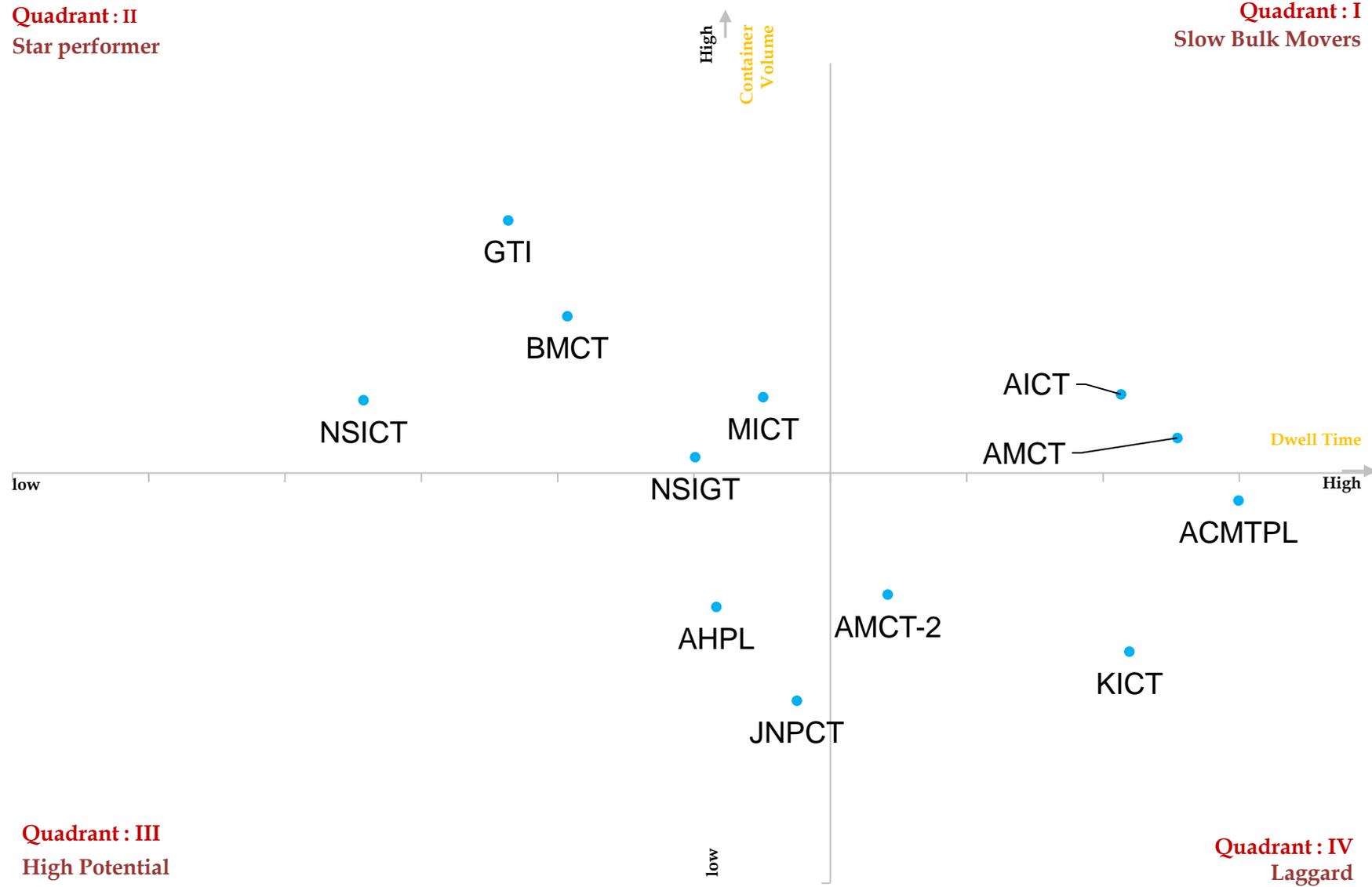The marked entries showcase Decrease in performance in comparison to Nov'22

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Logistics Redefined

Performance Benchmarking - Port Terminals

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

Port Terminal Performance Index – Dec'22

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High
Container Volume

- GTI
- BMCT
- NSICT
- MICT
- AICT
- AMCT
- NSIGT
- ACMTPL
- AHPL
- AMCT-2
- KICT
- JNPCT

Dwell Time
High

low

low

Quadrant : III
High Potential

Quadrant : IV
Laggard

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

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

Top Performing Terminal	
Gateway Terminals India (GTI)	
Nov'22	Dec'22
35.3 hrs	42.9 hrs

Low Performing Terminal	
Kandla International Container Terminal (KICT)	
Nov'22	Dec'22
71.4 hrs	72.0 hrs

Note: The performance benchmarking is based on performance index

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) →

IMPORT

Port Dwell Time

Mode	Nov'22 (in hrs)	Dec'22 (in hrs)
Overall	19.4	22.6
Truck	16.1	18.4
Train	63.1	89.0

EXPORT

Mode	Nov'22 (in hrs)	Spe'22 (in hrs)
Overall	68.7	69.0
Truck	67.4	67.6
Train	78.8	80.3

Transit Time

Towards ICD — Station

Transit Cycle	Nov'22 (in hrs)	Dec'22 (in hrs)
Port to ICD	94.8	72.7
Port to CFS	2.98	2.82

Towards CFS

From ICD — Station

Transit Cycle	Nov'22 (in hrs)	Spe'22 (in hrs)
ICD to Port	113.2	102.7
CFS to Port	3.36	4.14

From CFS

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

ICD   CFS

Entity	Nov'22 (in hrs)	Dec'22 (in hrs)
CFS	84.1	77.1
ICD	121.8	110.3

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	80%	20%
Export	80%	20%

The marked entries showcase the increase in performance as compared to Nov'22

The marked entries showcase the decrease in performance as compared to Nov'22
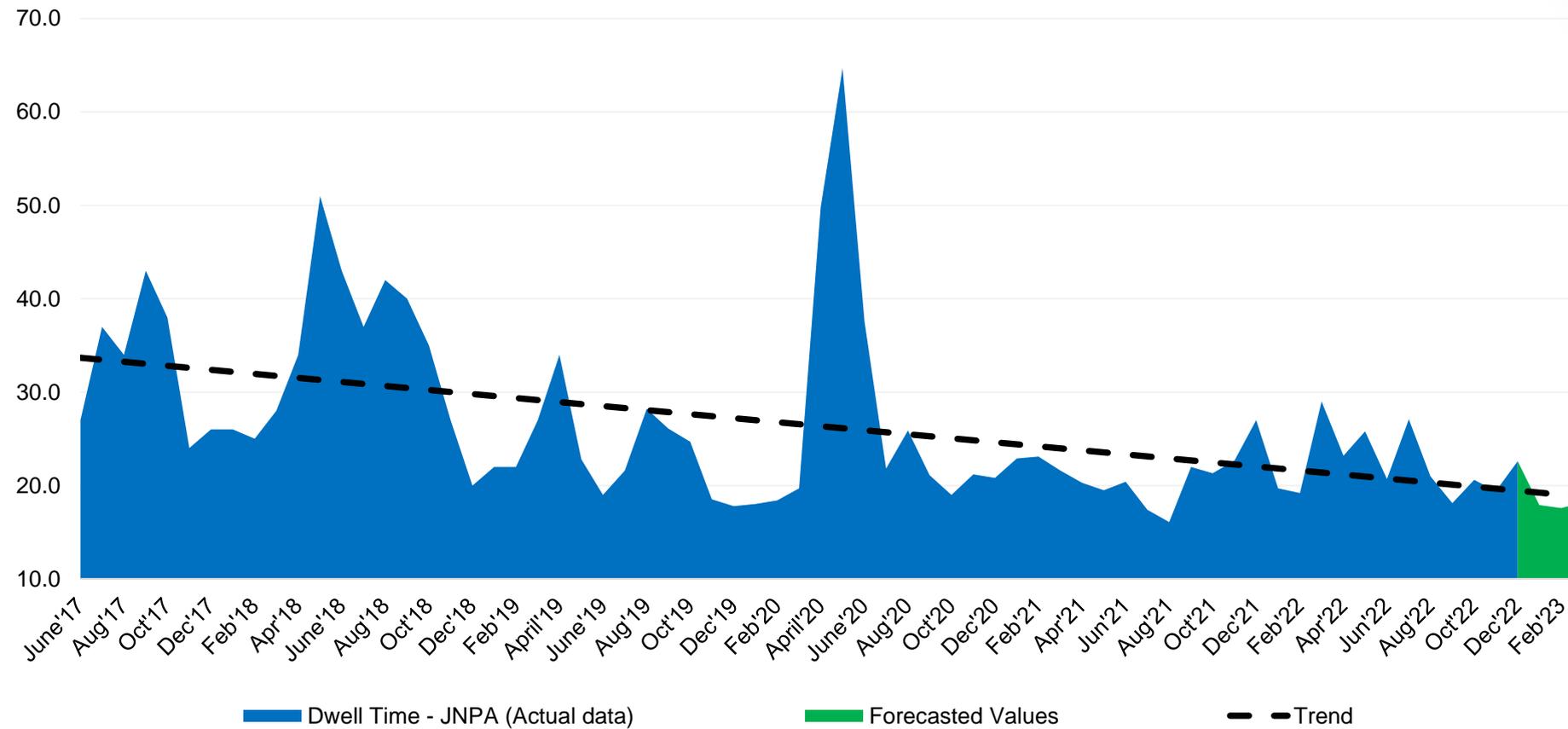
Container Lifecycle (Export Cycle)

Container Transportation- JNPA Port Terminals

IMPORT CYCLE DWELL TIME (Dec'22 – in hrs)			Compared to Nov'22	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	22.6	16.5%	⬇
	Port Dwell Time for Truck Bound Containers	18.4	14.3%	⬇
	Port Dwell time for Train Bound Containers	89.0	41.0%	⬇
	Port Dwell time Direct Port Delivery (DPD) containers	30.1	4.5%	⬇
	Port Dwell time Containers bound for CFS	16.7	19.3%	⬇
	Port Dwell for Empty Containers	27.9	34.8%	⬇
	Port Dwell for Laden Containers	21.6	12.5%	⬇
TRANSIT TIME	Port to ICD	72.7	23.3%	⬆
	Port to CFS	2.82	5.4%	⬆

EXPORT CYCLE DWELL TIME (Dec'22– in hrs)			Compared to Nov'22	
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	69.0	0.4%	⬇
	Port Dwell Time for Truck Bound Containers	67.6	0.3%	⬇
	Port Dwell time for Train Bound Containers	80.3	1.9%	⬇
	Port Dwell time Direct Port Entry (DPE) containers	76.9	13.8%	⬇
	Port Dwell time Containers bound from CFS	65.2	0.5%	⬇
	Port Dwell for Empty Containers	63.5	6.0%	⬇
	Port Dwell for Laden Containers	70.3	2.8%	⬆
TRANSIT TIME	ICD to Port	102.7	9.3%	⬆
	CFS to Port	4.14	23.2%	⬇

⬆⬇ The arrows depict increase/decrease in performance of the stakeholders in comparison to Nov'22

Container Transportation- JNPA Port Terminals

JNPA Port – Import Cycle

Legend:
- Dwell Time - JNPA (Actual data)
- Forecasted Values
- Trend

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 Mar'23.

Predicted Dwell Time (in hrs)

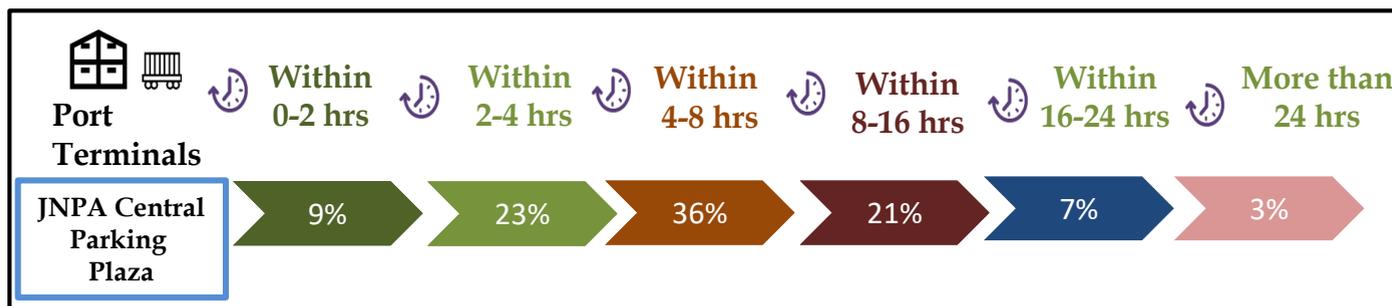| Jan'22	Feb'23	Mar'23
17.9	17.6	18.2

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	Nov'22 (in hrs)	Dec'22 (in hrs)
Overall Parking Plaza	**5.34**	**5.62**

Container Handled: Day wise (Dec'22)

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	9%	23%	36%	21%	7%	3%

Parking Plaza Gate Out – Terminal In

Mode	Nov'22 (in hrs)	Dec'22 (in hrs)
Overall Parking Plaza to JNPA Port	**1.21**	**1.71**

Port	Nov'22 (in hrs)	Dec'22 (in hrs)
JNPCT	1.1	1.7
NSICT	0.9	1.8
GTI	1.0	1.3
NSIGT	0.5	0.9
BMCT	3.0	4.8

Container Handled: Day wise (Dec'22)

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	70%	30%	0%	0%	0%	0%
NSICT	55%	26%	16%	2%	1%	0%
GTI	77%	19%	3%	1%	0%	0%
NSIGT	81%	14%	3%	1%	0%	1%
PSA	10%	29%	39%	18%	3%	1%

CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

CFS | Performance Benchmarking | **ICD**

Top Performing CFS	
Gateway Distriparks CFS, Navi Mumbai	
Nov'22	Dec'22 ⬆
82.4 hrs	73.1 hrs

Top Performing ICD	
Navkar ICD, Tumb	
Nov'22	Dec'22 ⬆
120.7 hrs	105.0 hrs

Low Performing CFS	
LCL Logistix CFS, Pipavav	
Nov'22	Dec'22 ⬇
85.4 hrs	104.7 hrs

Low Performing ICD	
Adani Logistics Park ICD, Gurgaon	
Nov'22	Dec'22 ⬇
125.8 hrs	139.2 hrs

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

Performance Index: Western Corridor CFS

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

Gateway Distriparks CFS, Navi Mumbai

Quadrant : III
High Potential

Quadrant : IV
Laggard

LCL Logistix CFS, Pipavav
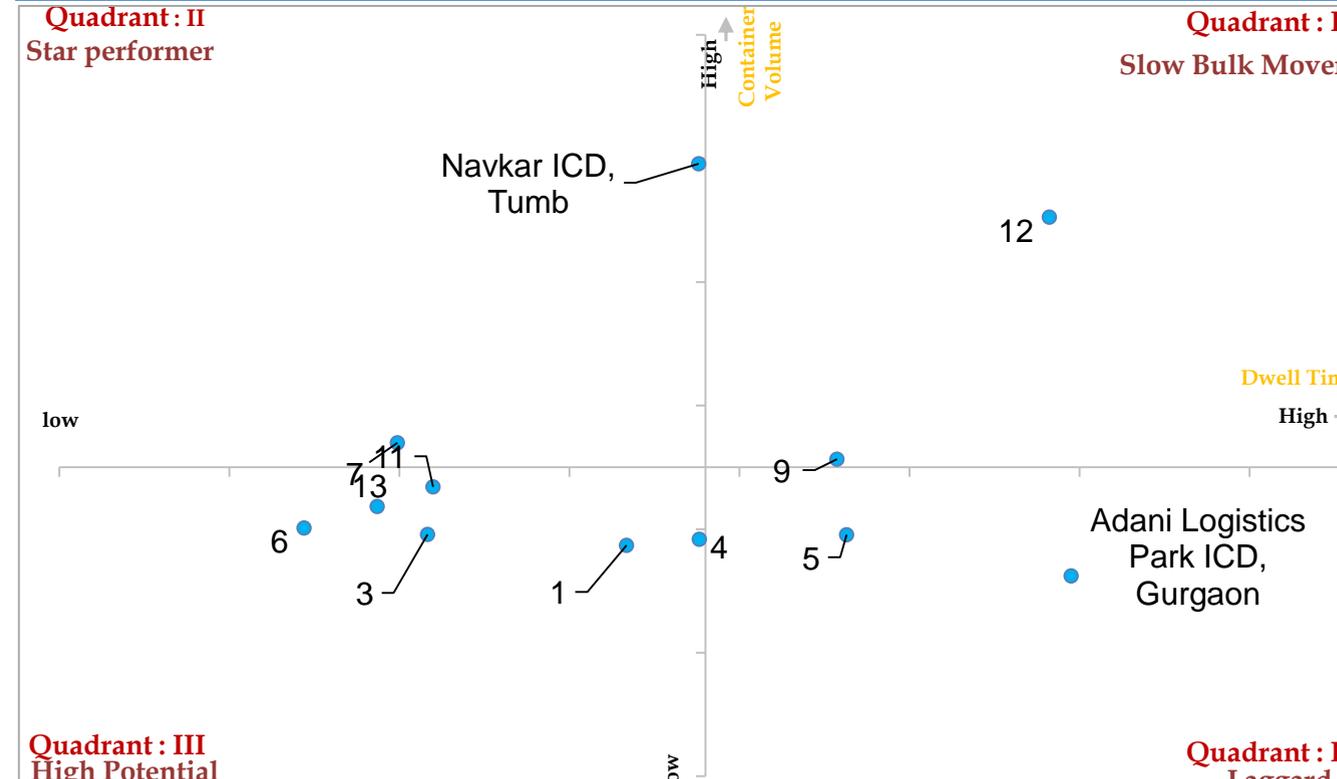
Kindly refer to Annexure section for the names of CFS

Performance Index: ICD

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

Navkar ICD, Tumb

Quadrant : III
High Potential

Quadrant : IV
Laggard

Adani Logistics Park ICD, Gurgaon

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
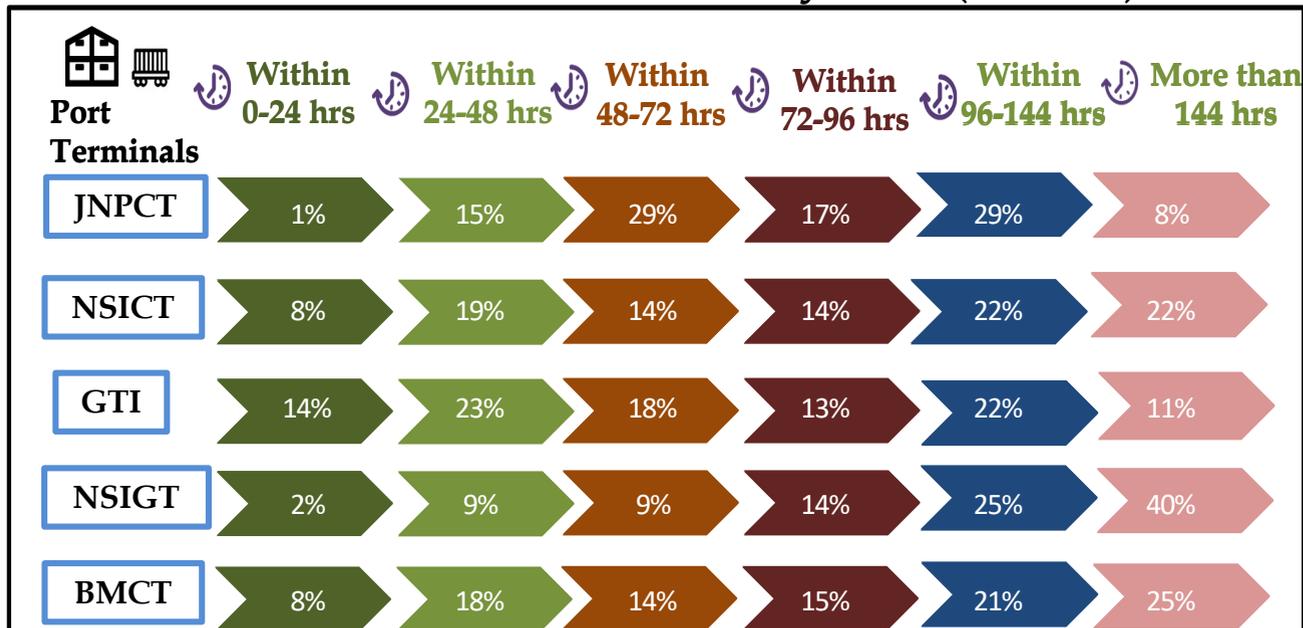
PORT IMPORT via TRAIN
(20% of total import volume at JNPA Port)

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	Nov'22 (in hrs)	Dec'22 (in hrs)
JNPCT	49.2	76.7
NSICT	56.9	85.1
GTI	49.4	65.0
NSIGT	79.0	125.2
BMCT	69.3	87.3

Container Handled: Day wise (Dec'22)

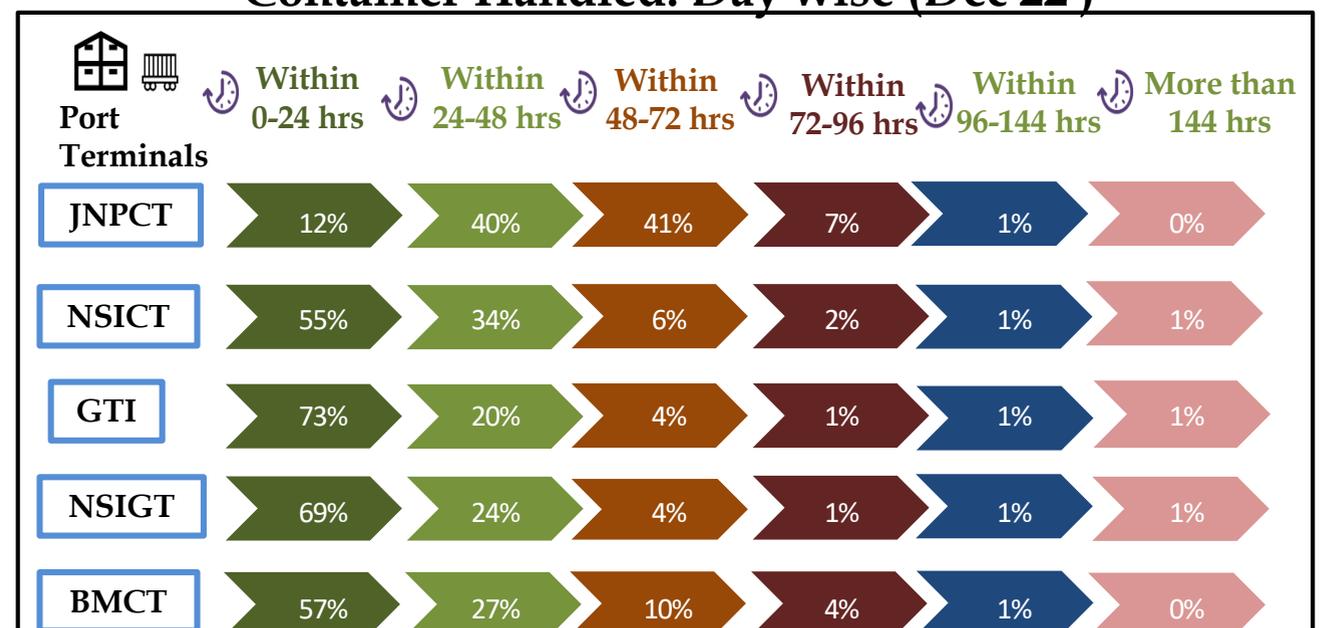| Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
JNPCT	1%	15%	29%	17%	29%	8%
NSICT	8%	19%	14%	14%	22%	22%
GTI	14%	23%	18%	13%	22%	11%
NSIGT	2%	9%	9%	14%	25%	40%
BMCT	8%	18%	14%	15%	21%	25%

PORT IMPORT via TRUCK
(80% 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	Nov'22 (in hrs)	Dec'22 (in hrs)
JNPCT	32.3	47.4
NSICT	19.4	22.2
GTI	13.3	14.7
NSIGT	15.6	17.5
BMCT	15.6	20.7

Container Handled: Day wise (Dec'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%	40%	41%	7%	1%	0%
NSICT	55%	34%	6%	2%	1%	1%
GTI	73%	20%	4%	1%	1%	1%
NSIGT	69%	24%	4%	1%	1%	1%
BMCT	57%	27%	10%	4%	1%	0%

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

JNPCT

Port Dwell time based on transit type

Nov'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	47.4 hrs	47.9 hrs

Port Dwell time based on container type

Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	50.9 hrs	29.3 hrs

GTI

Port Dwell time based on transit type

Nov'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	27.5 hrs	13.3 hrs

Port Dwell time based on transit type

Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	16.8 hrs	22.5 hrs

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

NSICT

Port Dwell time based on transit type		
Nov'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	43.8 hrs	20.2 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	24.7 hrs	29.4 hrs

NSIGT

Port Dwell time based on transit type		
Nov'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	37.4 hrs	16.8 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	23.6 hrs	24.4 hrs

BMCT

Port Dwell time based on transit type		
Nov'22	Direct Port Delivery containers	Containers bound for CFS
Dwell time (in hrs)	26.1 hrs	19.7 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	24.3 hrs	34.6 hrs

JNPA Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPA region in Import Cycle in month of Dec'22
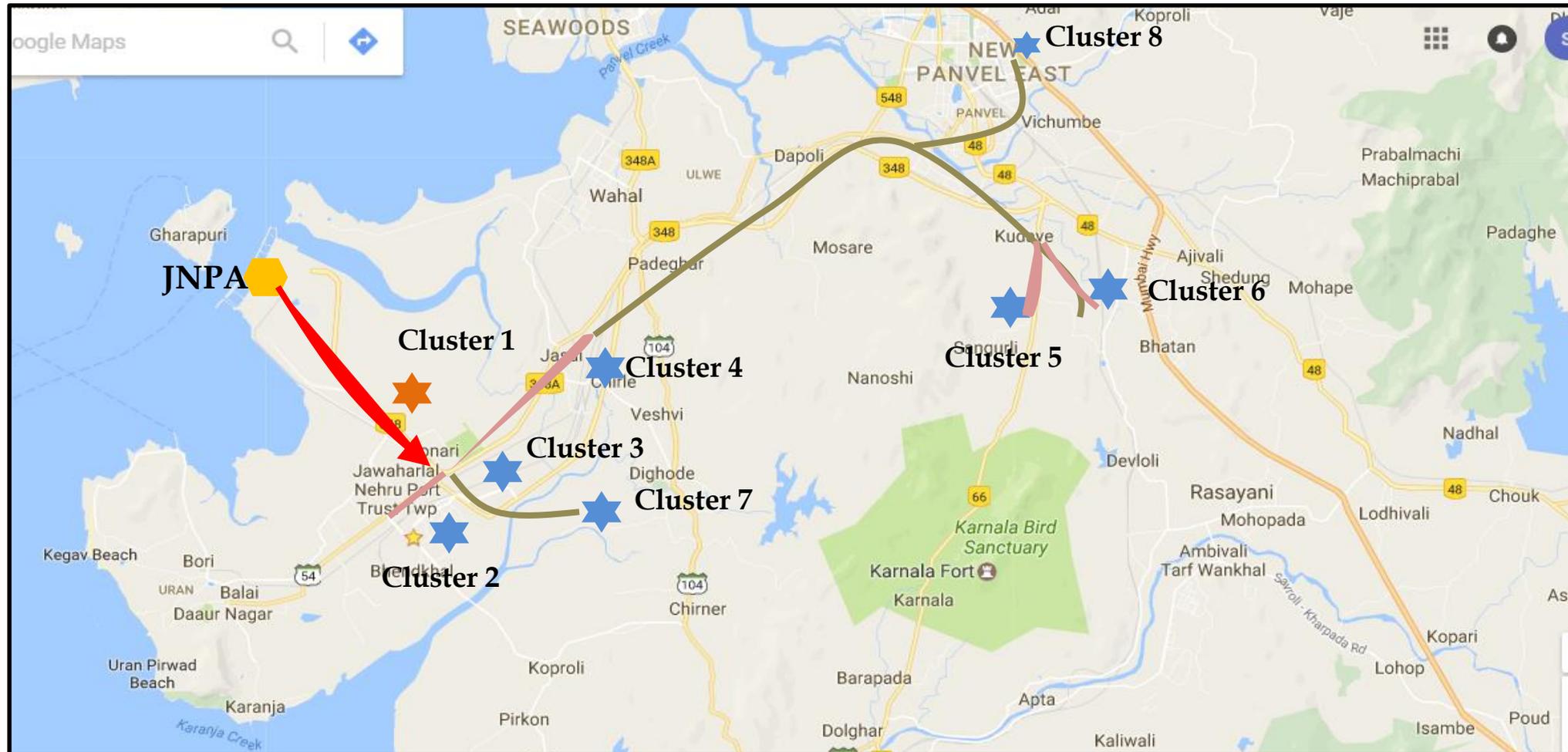
Clusters with bottleneck

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

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	Dec'22
Mumbai region	77%
NH3	0%
Pune	5%
NH8	8%
others	10%

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

Heat Map via Truck: Dec'22
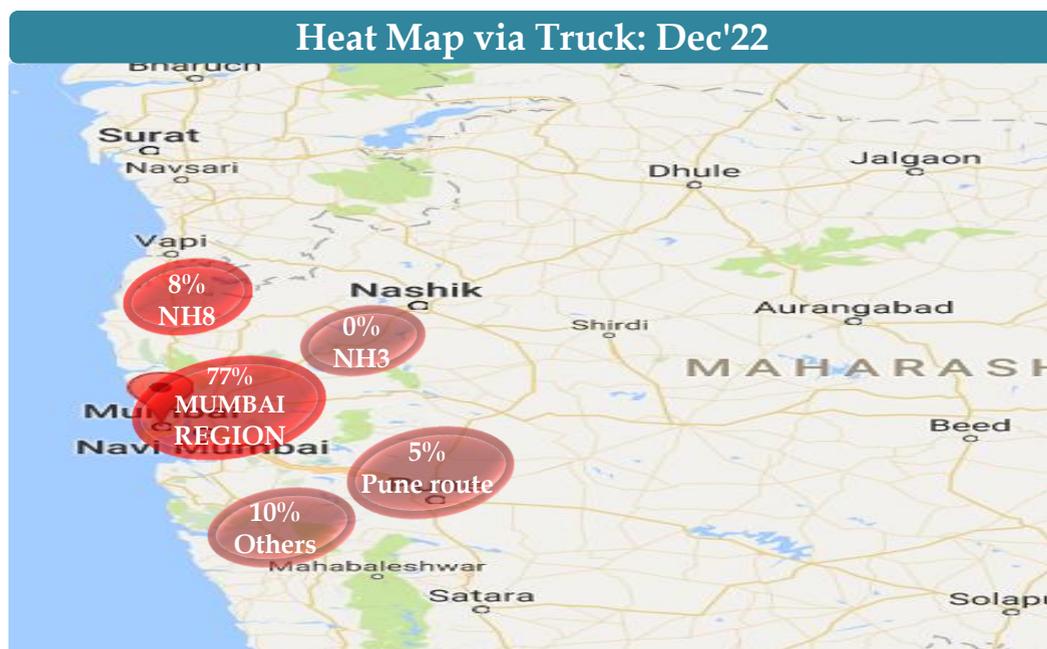
Train
VOLUME WISE CONTAINER MOVEMENT

Region	Dec'22
Vadodra Route	37%
Ratlam Route	19%
Wardha Route	11%
Kota Route	11%
Bhopal Route	22%

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

Container movement via Rail – Dec'22

Western Corridor Toll Plaza Analysis
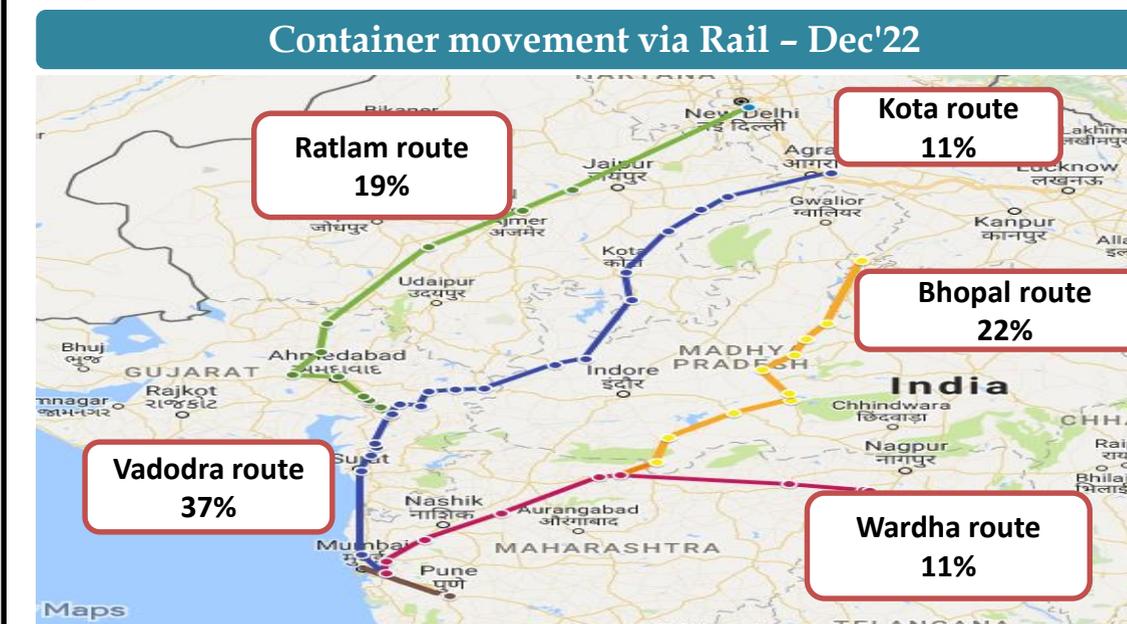
Avg. Speed between Toll to Toll Plazas

Source		Destination Toll Plaza	Inter Distance (Km)	Nov'22 (in km/hrs)	Dec'22 (in km/hrs)
JNPA	JNPA	Khaniwade	94	-	-
	JNPA	Khalapur	60	17.5	15.1
	Khaniwade	Charoti	50	35.7	36.9
	Charoti	Boriach	126	24.7	25.3
	Boriach	Bharthan	142	31.4	31.3
	Bharthan	Vasad	60	38.2	37.3
	Khalalpur	Khedshivpur	105	33.3	31.3
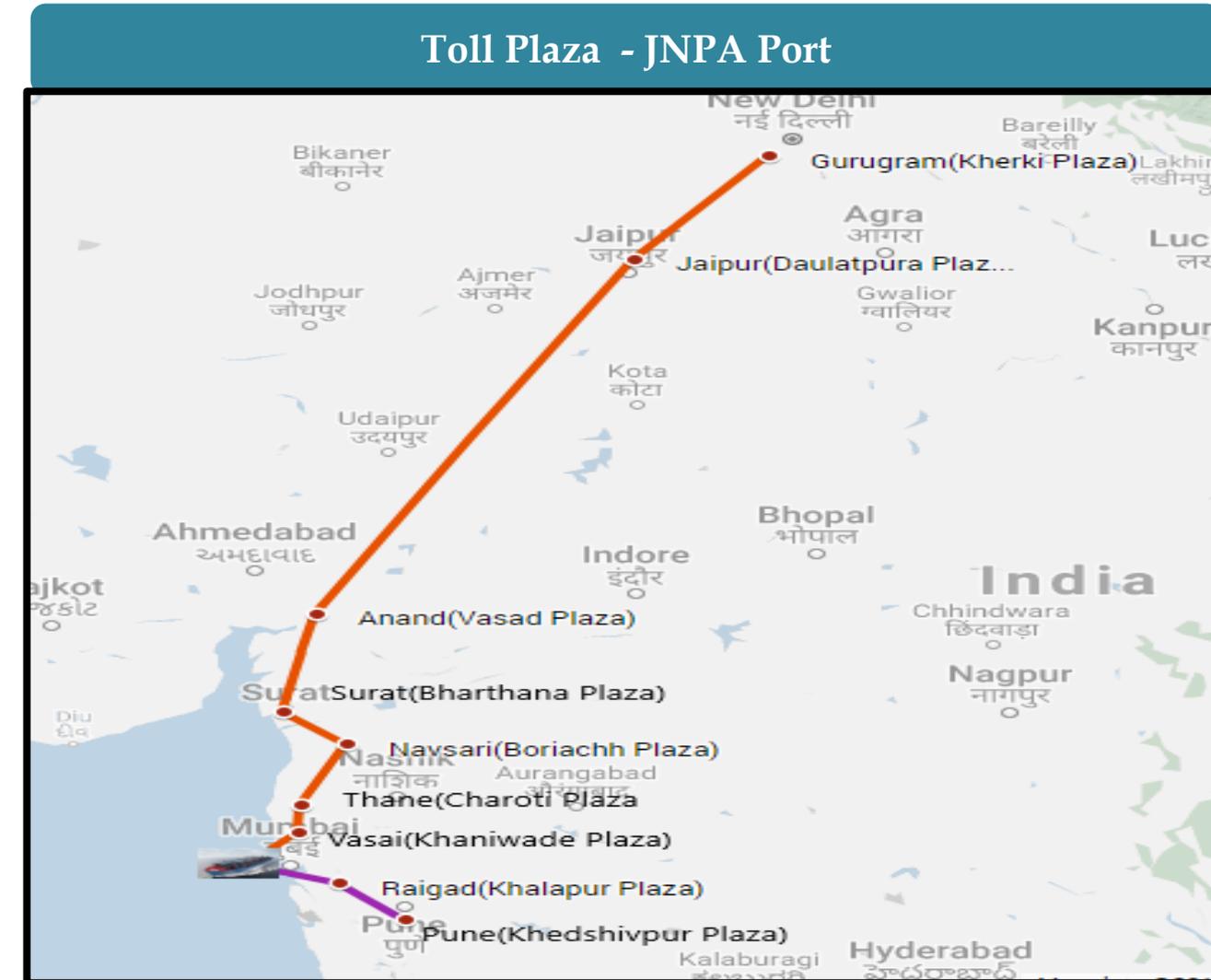
Toll Plaza - JNPA Port

Export Cycle Analysis

JNPA Region: Dwell Time Performance (Export Cycle)

NLDS — NICDC LOGISTICS DATA SERVICES LTD — *Logistics Redefined*

The below tables depict the port dwell time performance at JNPA port for truck and train bound containers in export cycle
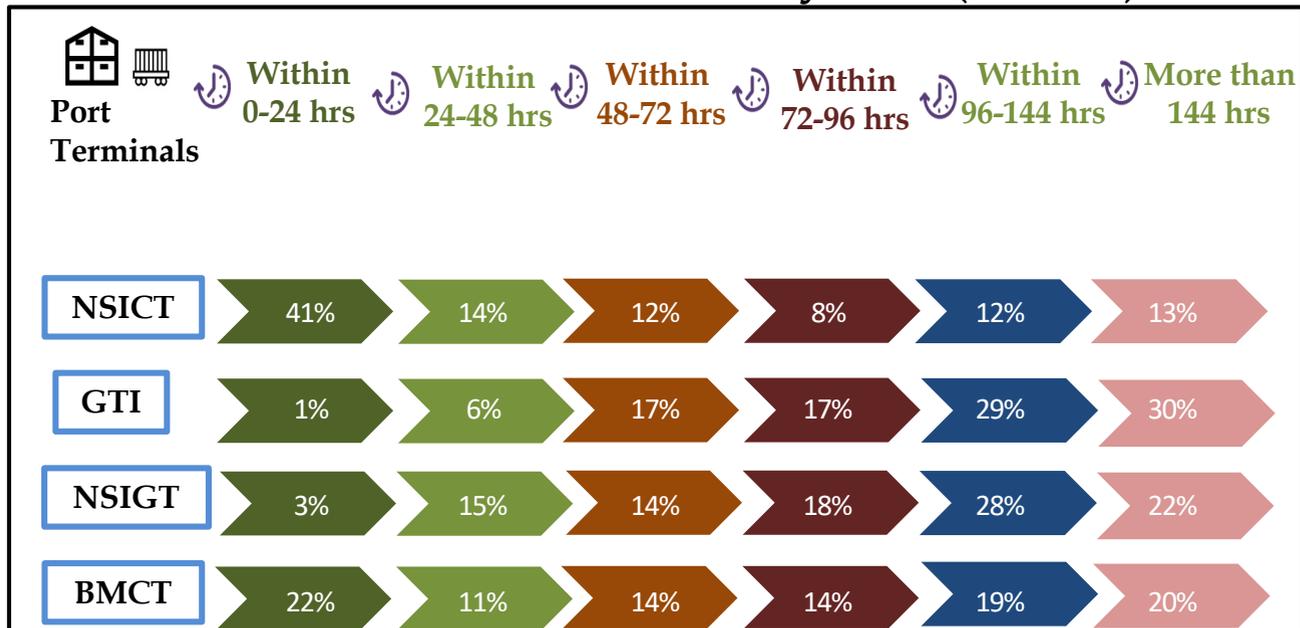
PORT EXPORT via TRAIN
(21% of total export volume at JNPA Port)

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	Nov'22 (in hrs)	Dec'22 (in hrs)
NSICT	26.6	38.0
GTI	112.7	108.5
NSIGT	104.5	95.3
BMCT	78.0	76.3

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

Container Handled: Day wise (Dec'22)

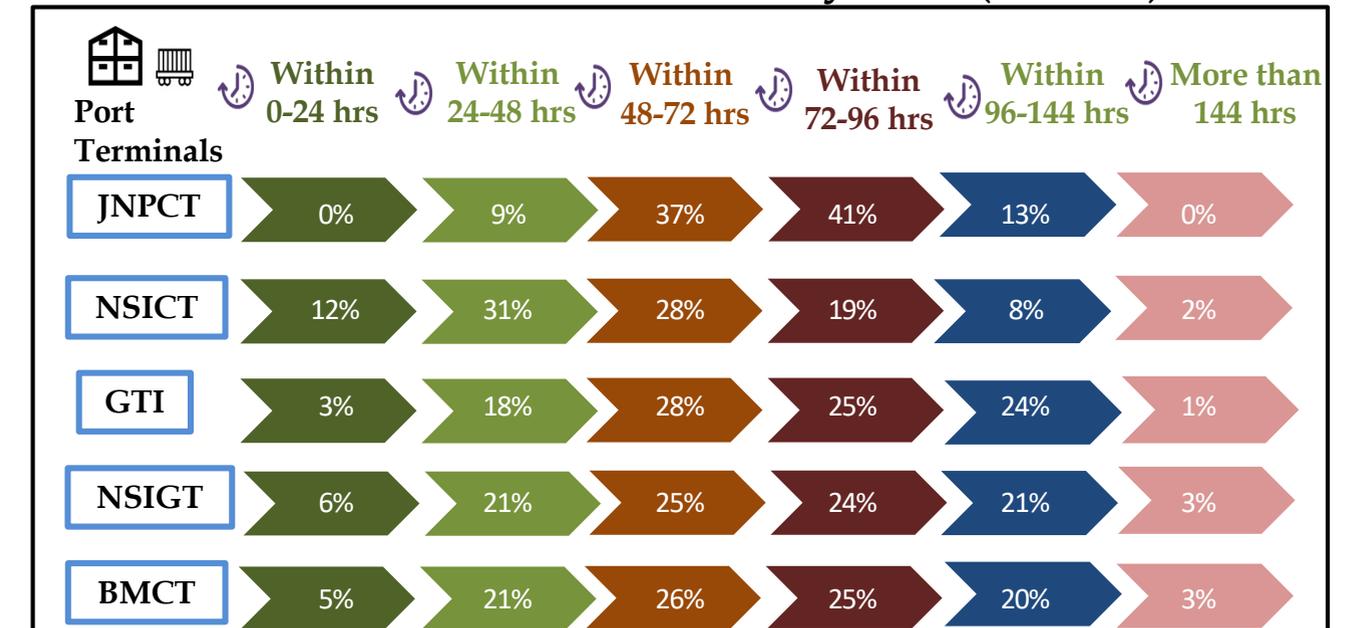| Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSICT	41%	14%	12%	8%	12%	13%
GTI	1%	6%	17%	17%	29%	30%
NSIGT	3%	15%	14%	18%	28%	22%
BMCT	22%	11%	14%	14%	19%	20%

PORT EXPORT via TRUCK
(79% 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	Nov'22 (in hrs)	Dec'22 (in hrs)
JNPCT	63.4	73.8
NSICT	54.8	53.9
GTI	66.4	72.6
NSIGT	79.8	70.4
BMCT	71.4	70.0

Container Handled: Day wise (Dec'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	0%	9%	37%	41%	13%	0%
NSICT	12%	31%	28%	19%	8%	2%
GTI	3%	18%	28%	25%	24%	1%
NSIGT	6%	21%	25%	24%	21%	3%
BMCT	5%	21%	26%	25%	20%	3%

JNPA Region: Dwell Time Performance (Export Cycle)

NLDS
NICDC LOGISTICS DATA SERVICES LTD
Logistics Redefined

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPA port for Dec'22

JNPCT

Port Dwell time based on transit type		
Nov'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	73.8 hrs	52.2 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	74.2 hrs	74.5 hrs

GTI

Port Dwell time based on transit type		
Nov'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	77.0 hrs	70.1 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	77.2 hrs	74.8 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 Dec'22

NSICT

Port Dwell time based on transit type		
Nov'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	111.5 hrs	52.9 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	53.8 hrs	43.1 hrs

NSIGT

Port Dwell time based on transit type		
Nov'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	-	69.6 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	75.0 hrs	42.2 hrs

BMCT

Port Dwell time based on transit type		
Nov'22	Direct Port Exports containers	Containers bound for CFS
Dwell time (in hrs)	84.2 hrs	68.2 hrs

Port Dwell time based on container type		
Nov'22	Laden Containers	Empty Containers
Dwell time (in hrs)	71.8 hrs	67.9 hrs

JNPA Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPA region in Export Cycle in month of Dec'22
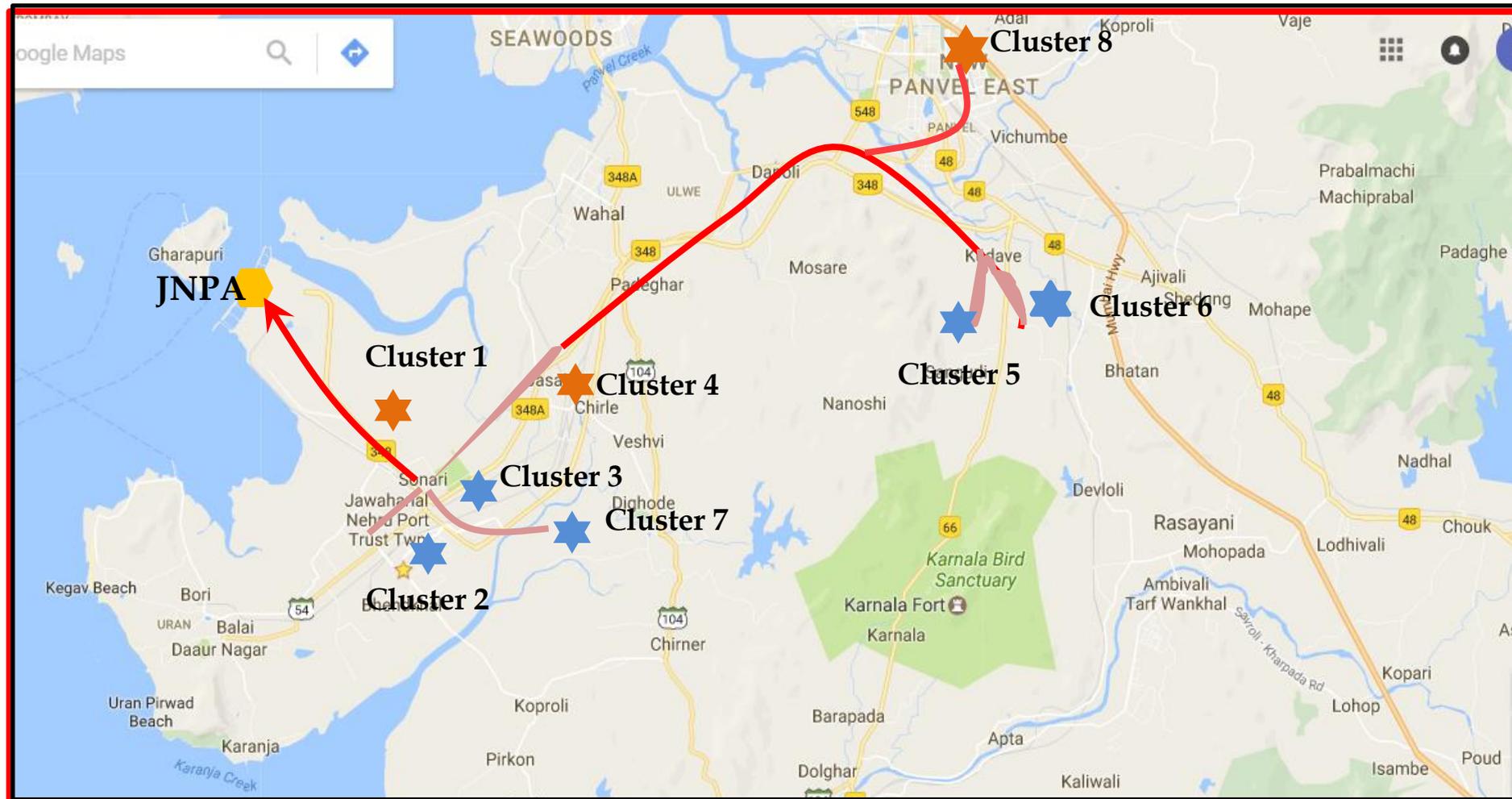
Clusters with bottleneck	
CLUSTER 1	JNPA Area
CLUSTER 4	Chirle area, JNPA road
CLUSTER 8	Taloja, Navi Mumbai

Clusters without bottleneck	
CLUSTER 2	Bhendkhal area, khopate road
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

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

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 :-

JNPA Region: Container Movement via Train

JNPA Port	
Route	**Percentage of Container Movement**
Vadodra Route	28%
Ratlam Route	22%
Wardha Route	21%
Kota Route	16%
Bhopal Route	14%

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

Container movement via Rail – Dec'22
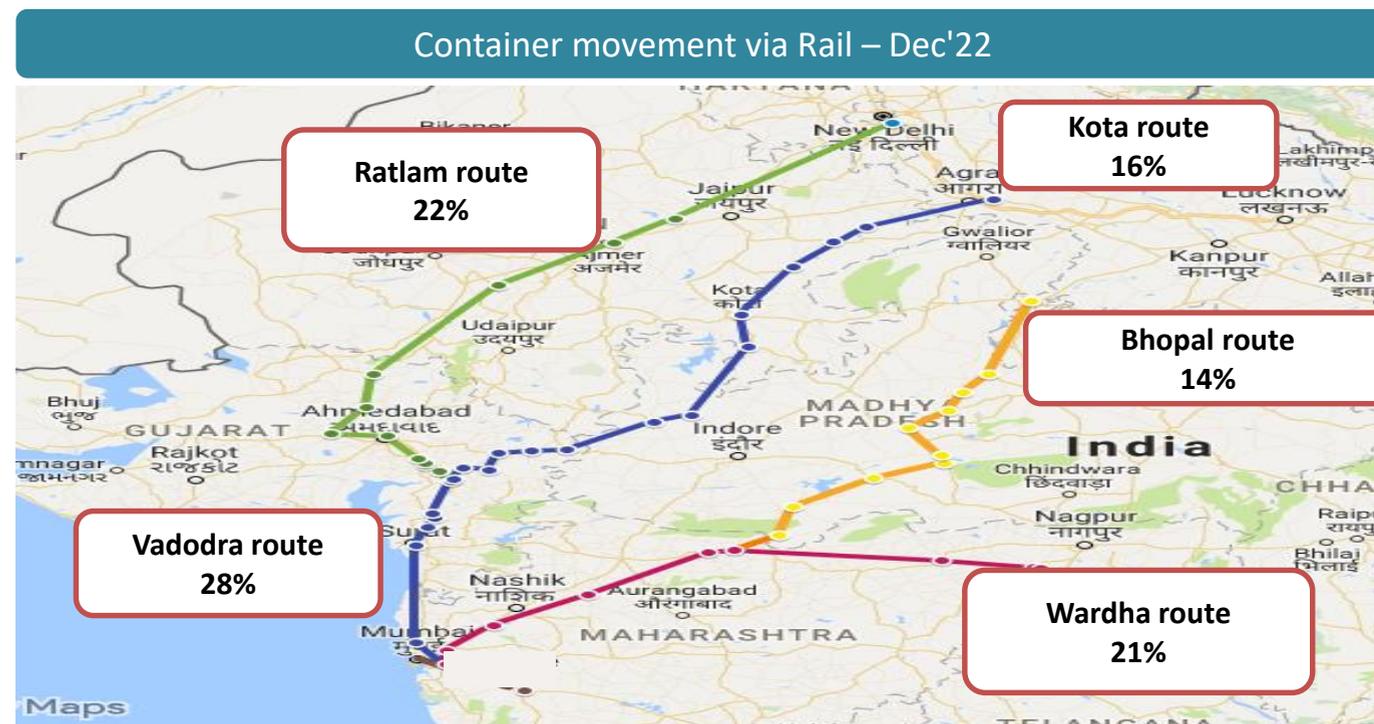
CFS and ICD Performance

JNPA region CFS : CFS DWELL TIME ANALYSIS

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

CFS Dwell Time (in hrs.)

CFS	Nov'22 (in hrs)	Dec'22 (in hrs)	CFS	Nov'22 (in hrs)	Dec'22 (in hrs)
Ameya Logistics CFS, Navi Mumbai	89.4	82.1	Punjab Conware CFS, Navi Mumbai	75.5	78.3
Gateway Distriparks CFS, Navi Mumbai	82.4	73.1	Navkar Corporation Yard 2 CFS, Panvel	93.3	92.8
AllCargo Logistics	75.0	68.1	Ocean Gate CFS, Panvel	91.9	101.1
Navkar Corporation Yard 3 CFS, Panvel	44.4	53.2	Dronagiri Rail Terminal CFS, Navi Mumbai	62.4	72.4
JWC Logistics Park CFS	92.4	77.4	International Cargo Terminal CFS	71.2	58.9
Speedy Multimode CFS, JNPT	82.3	71.4	APM (Maersk India) CFS, Navi Mumbai	96.1	76.9
Continental Warehousing CFS, Navi Mumbai	70.0	63.5	Take Care Logistics CFS	104.4	102.7
EFC Logistics India	83.4	72.2	TG Terminals CFS	97.0	74.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	74.8	63.6	Vaishno Logistics CFS, Navi Mumbai	81.6	67.8
Apollo Logisolutions CFS, Panvel	99.3	93.0	Navkar Corporation Yard 1 CFS, Panvel	107.6	94.6
Sarveshwar CFS	109.3	104.0	Maersk Annex (APM)CFS, Navi Mumbai	105.4	95.3
Ashte Logistics CFS, Panvel	88.4	91.1	Maharashtra State Corp CFS	78.0	74.6
CWC Impex Park CFS, Navi Mumbai	54.3	57.1	JWR CFS	65.5	57.3

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

Average: 77.1 hrs.
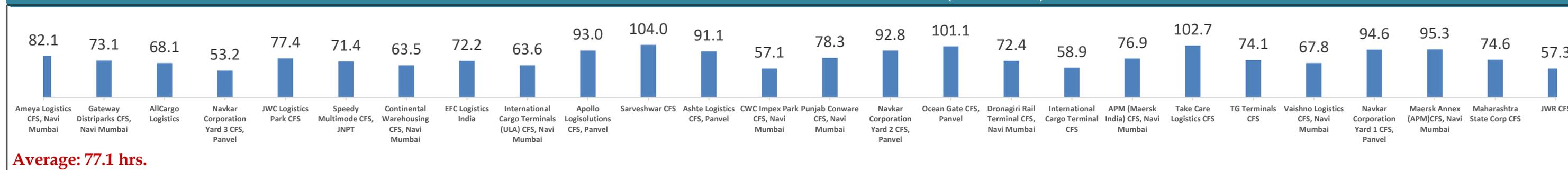
ICD DWELL TIME ANALYSIS

The table below depicts the dwell time of all ICDs

ICD Dwell Time (in Hrs)		
ICD	**Nov'22 (in hrs)**	**Dec'22 (in hrs)**
ACTL ICD, Faridabad	126.9	108.7
Adani Logistics Park ICD, Gurgaon	125.8	139.2
Albatross Inland Ports ICD, Dadri	149.9	95.0
Allcargo Logistics Park ICD, Dadri	123.5	113.7
APM Terminals ICD, Dadri	127.5	123.8
CMA CGM Logistics Park, Dadri	99.8	86.5
Gateway Rail Freight ICD, Gurgaon	88.0	91.5
GatewayRail Freight ICD, Pyala	156.0	170.6
Hind Terminals Logistics Park ICD, Palwal	122.3	123.1
Navkar ICD, Tumb	120.7	105.0
Pristine ICD Chawapail	102.8	95.4
THE THAR DRY PORT	145.0	137.7

ICD – DWELL OVERVIEW (DEC'22)   (In Hrs)

| ACTL ICD, Faridabad	Adani Logistics Park ICD, Gurgaon	Albatross Inland Ports ICD, Dadri	Allcargo Logistics Park ICD, Dadri	APM Terminals ICD, Dadri	CMA CGM Logistics Park, Dadri	Gateway Rail Freight ICD, Gurgaon	GatewayRail Freight ICD, Pyala	Hind Terminals Logistics Park ICD, Palwal	Navkar ICD, Tumb	Pristine ICD Chawapail	THE THAR DRY PORT
108.7	139.2	95.0	113.7	123.8	86.5	91.5	170.6	123.1	105.0	95.4	137.7

Avg. 110.3 hrs.

Trend Analysis

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

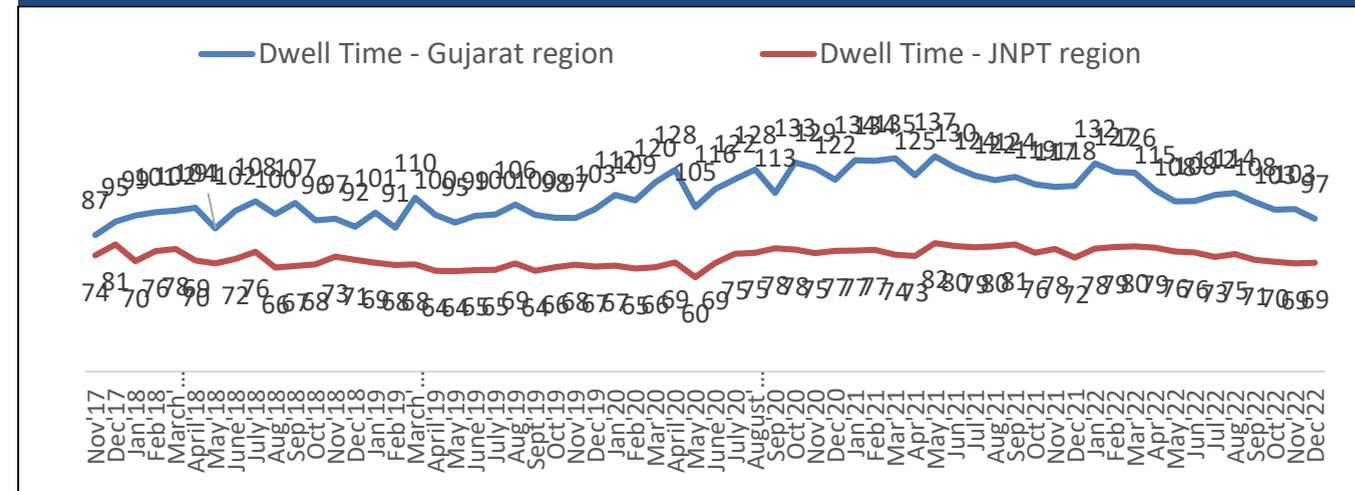## Import Cycle

Dwell Time – Mundra Region Vs JNPA Region

Volume – Mundra Region Vs JNPA Region

in '000

Export Cycle

Dwell Time – Mundra Region Vs JNPA Region

Volume – Mundra Region Vs JNPA Region
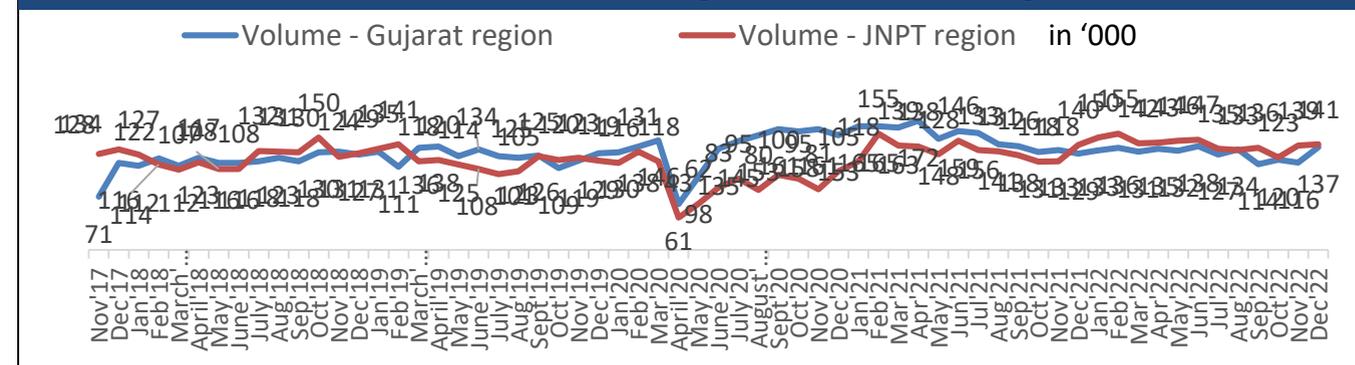
in '000
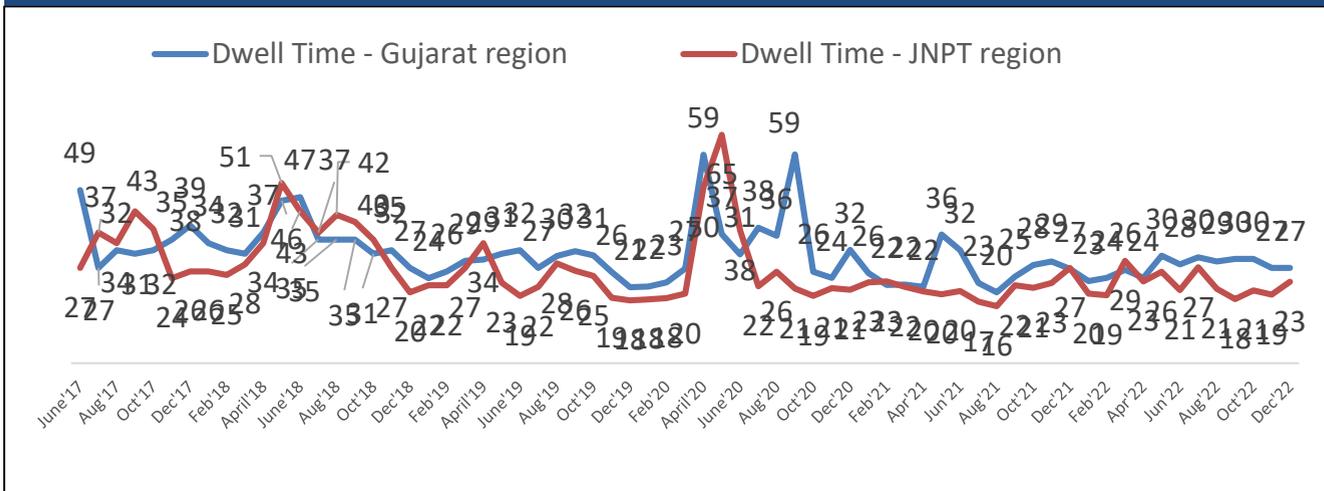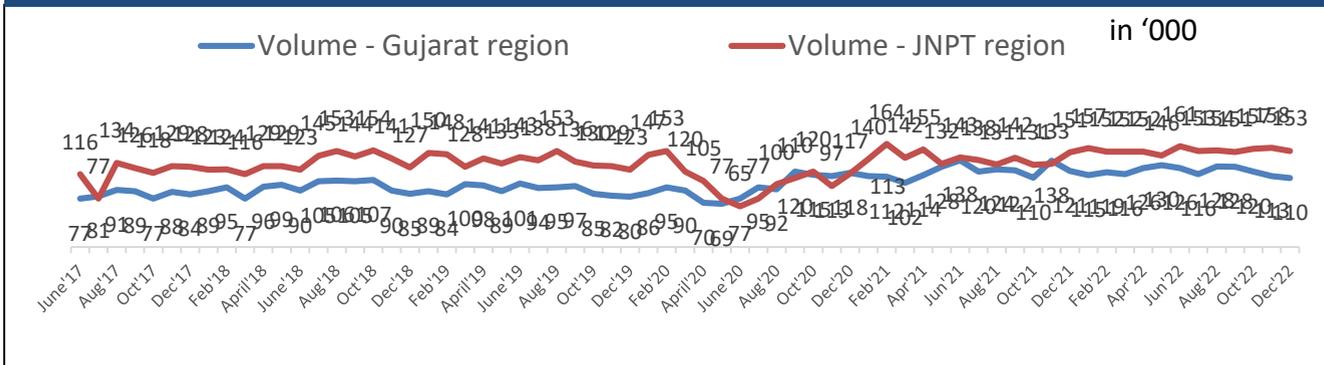
In Import cycle, for the month of Dec'22 Mundra port has catered 27.7% **less volume** than JNPA Port, and has performed with 20.2% **higher dwell time** than JNPA Port.
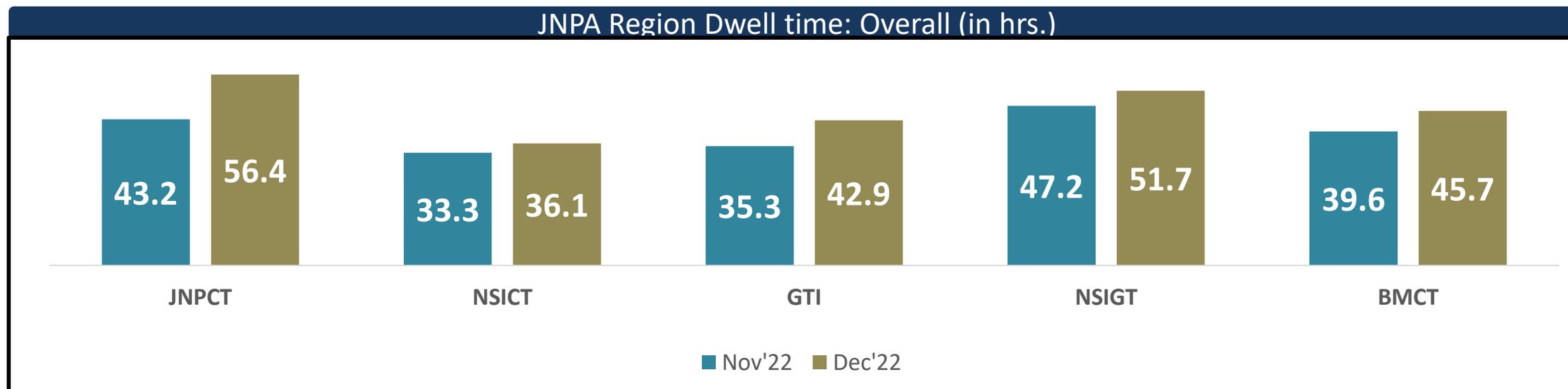
In Export cycle, for the month Dec'22 JNPA port catered 2.9% **high volume** than Mundra Port, and has maintained 28.8% **lower dwell time** than Mundra Port

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

JNPA Region Dwell time: Overall (in hrs.)

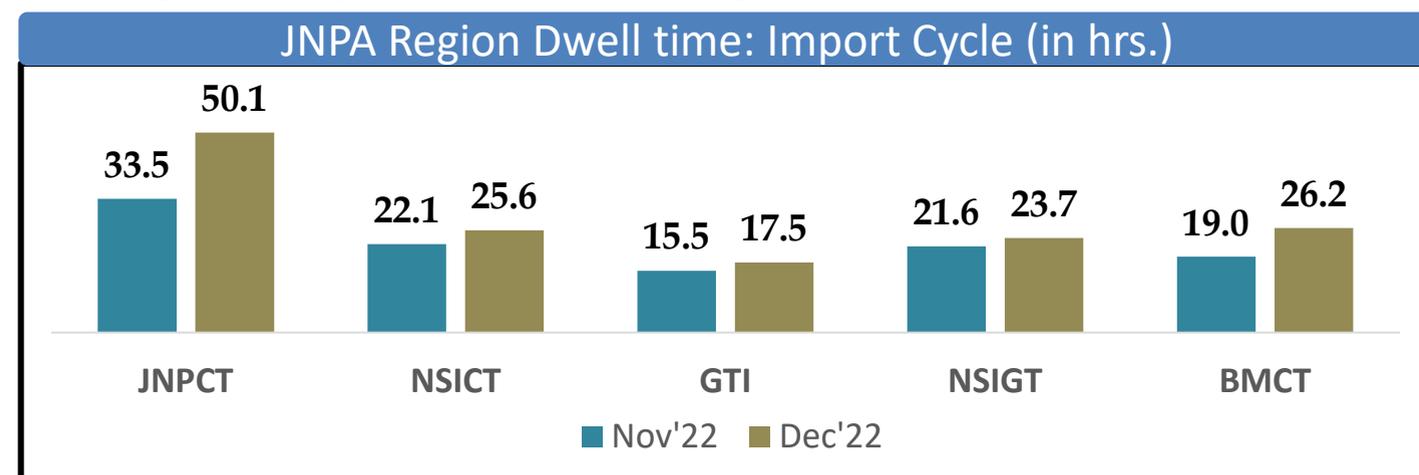|	JNPCT	NSICT	GTI	NSIGT	BMCT
Nov'22	43.2	33.3	35.3	47.2	39.6
Dec'22	56.4	36.1	42.9	51.7	45.7

■ Nov'22   ■ Dec'22

> The overall JNPA region average dwell time for Dec'22 is **43.2 hrs** as compared to **38.1 hrs** in Nov'22

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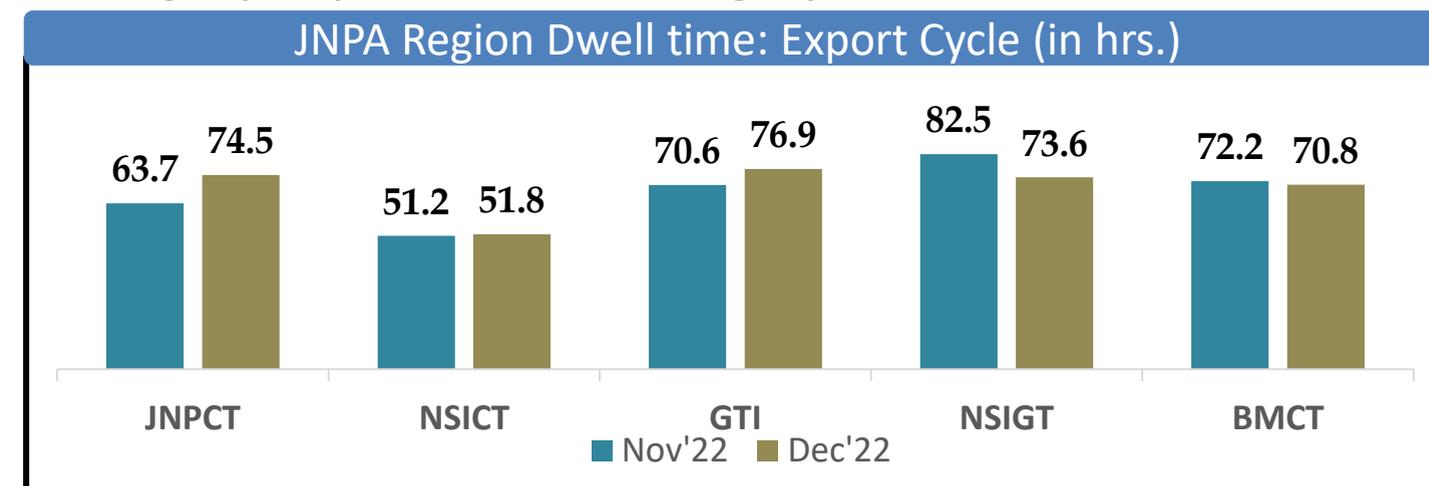
JNPA Import cycle Trend

The average import cycle dwell time of JNPA region port terminals for Dec'22 is **19.4 hrs.**

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

	JNPCT	NSICT	GTI	NSIGT	BMCT
Nov'22	33.5	22.1	15.5	21.6	19.0
Dec'22	50.1	25.6	17.5	23.7	26.2

■ Nov'22   ■ Dec'22

JNPA Export cycle Trend

The average export cycle dwell time of JNPA region port terminals for Dec'22 is **68.7 hrs.**

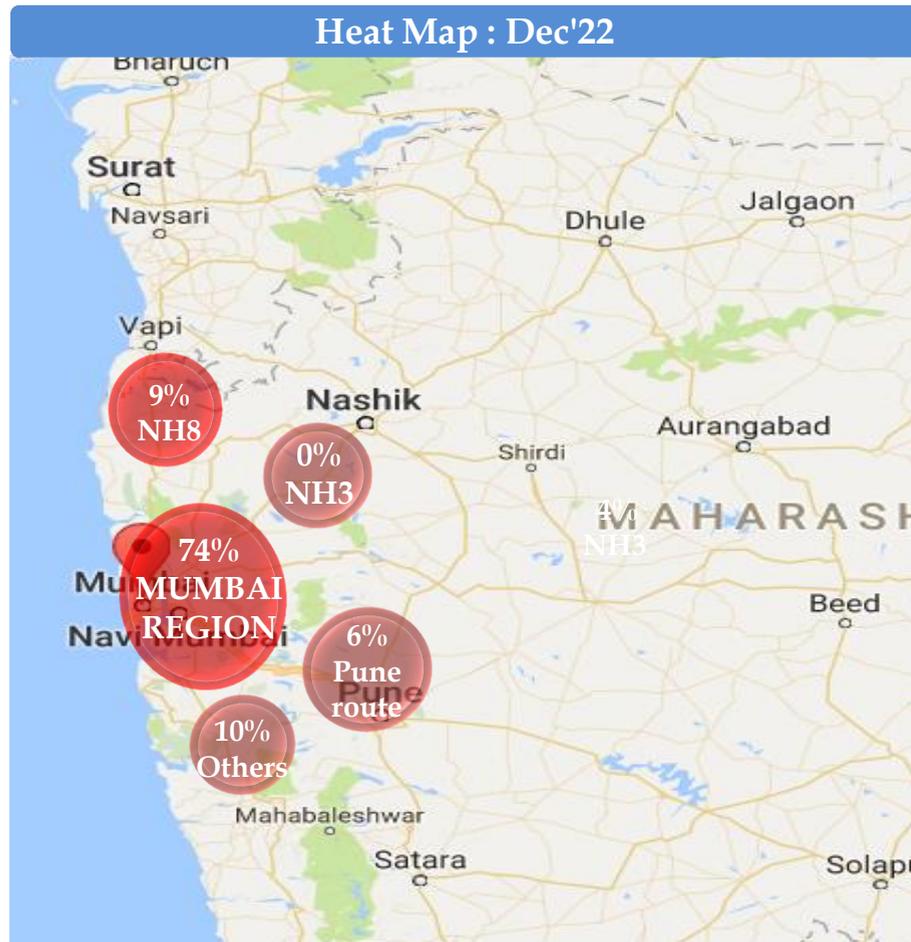### JNPA Region Dwell time: Export Cycle (in hrs.)

	JNPCT	NSICT	GTI	NSIGT	BMCT
Nov'22	63.7	51.2	70.6	82.5	72.2
Dec'22	74.5	51.8	76.9	73.6	70.8

■ Nov'22   ■ Dec'22

ANNEXURE

Container movement around JNPA Port terminal region via Truck

HEAT MAP : GTI Port Terminal

Heat Map : Dec'22

Region	Nov'22	Dec'22
Mumbai region	79%	74%
NH3	0%	1%
Pune	4%	6%
NH8	7%	9%
others	10%	10%

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

HEAT MAP : JNPCT Port Terminal
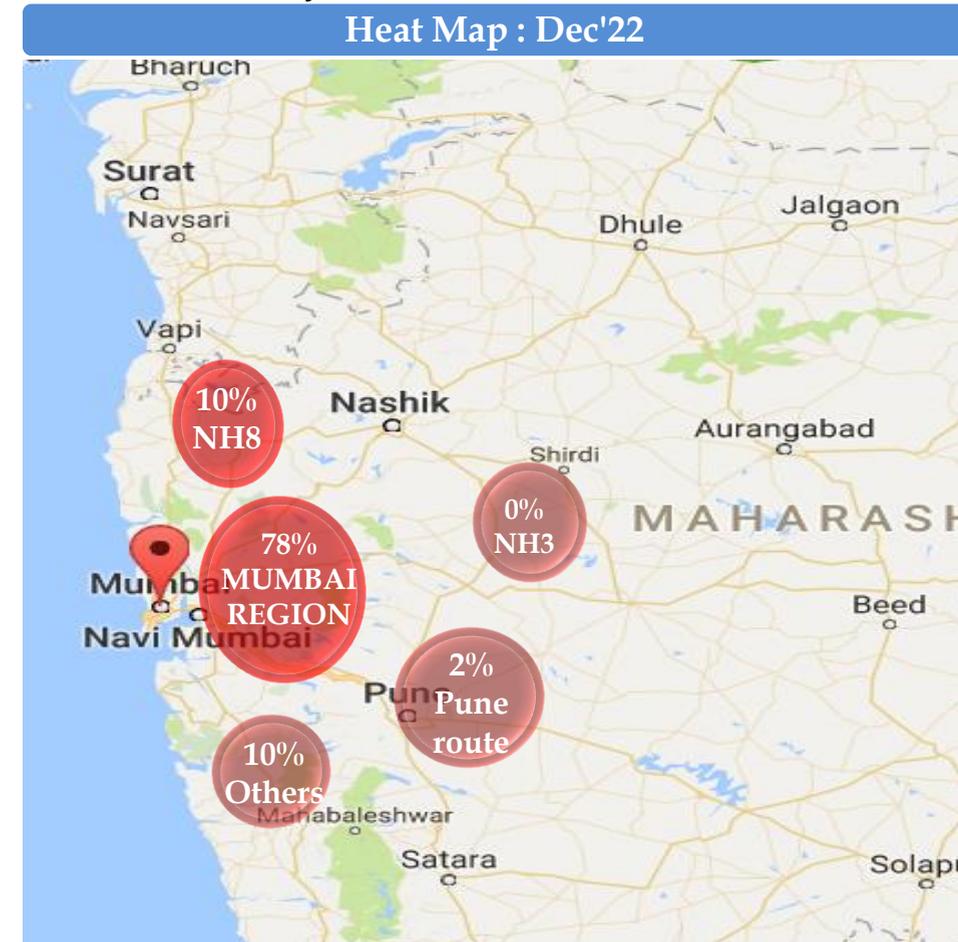
Heat Map : Dec'22

Region	Nov'22	Dec'22
Mumbai region	82%	78%
NH3	0%	0%
Pune	1%	2%
NH8	7%	10%
others	10%	10%

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

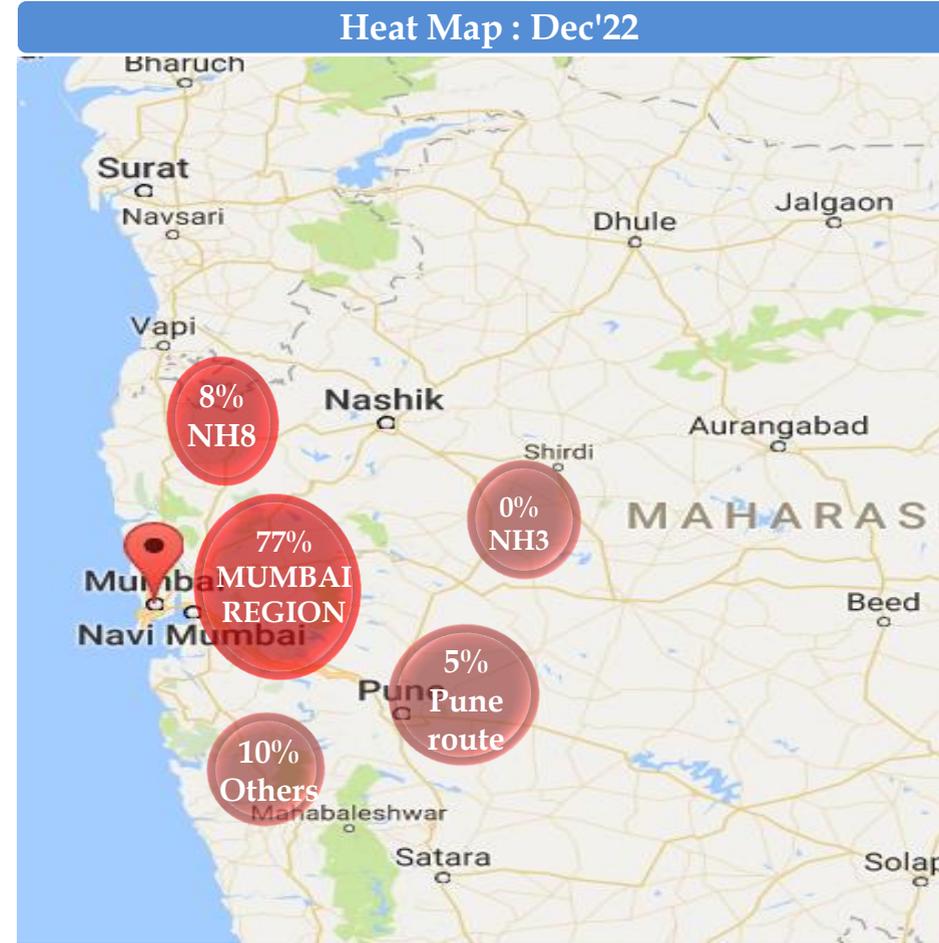# Container movement around JNPA Port terminal region via Truck

HEAT MAP : NSIGT Port Terminal

Heat Map : Dec'22

Region	Nov'22	Dec'22
Mumbai region	83%	78%
NH3	0%	0%
Pune	2%	5%
NH8	5%	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 : Dec'22

Region	Nov'22	Dec'22
Mumbai region	83%	77%
NH3	0%	0%
Pune	2%	5%
NH8	5%	8%
others	10%	10%

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

HEAT MAP : BMCT Port Terminal
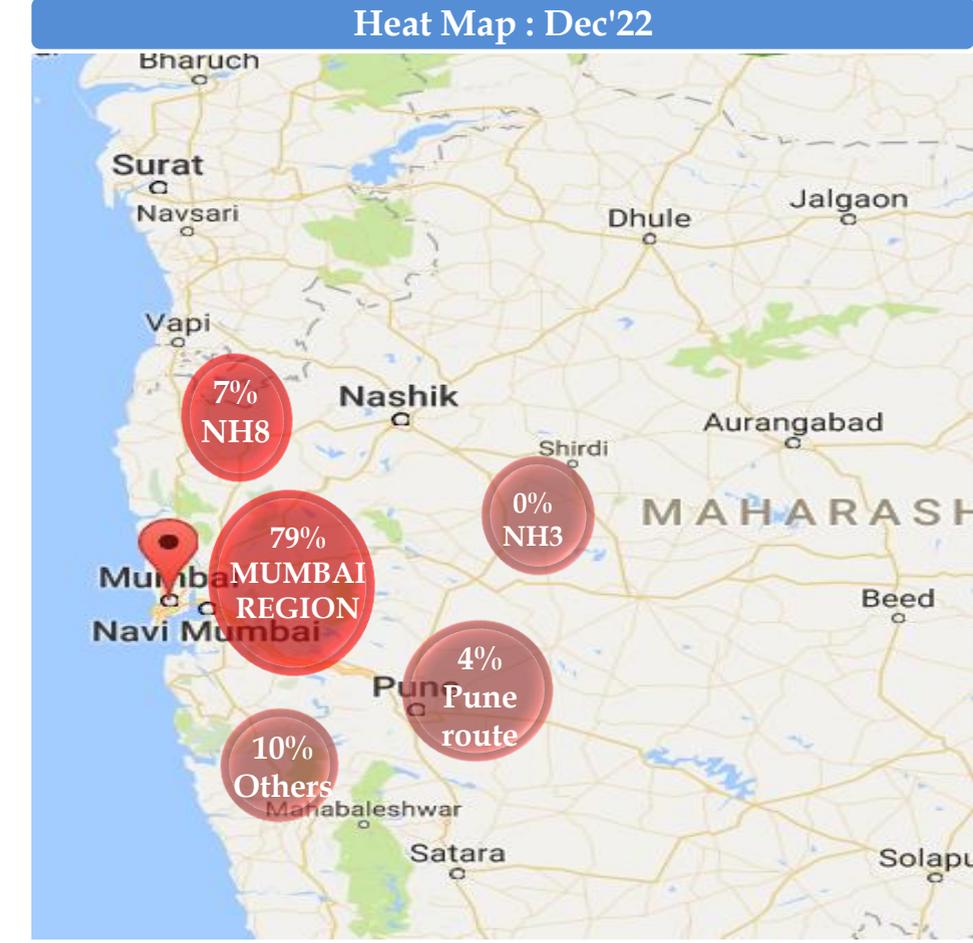
Heat Map : Dec'22

Region	Nov'22	Dec'22
Mumbai region	84%	79%
NH3	0%	0%
Pune	1%	4%
NH8	5%	7%
others	10%	10%

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

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

CFS Out – Port In (Export Cycle) – Dec'22 (in hrs)

CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Punjab Conware CFS, Navi Mumbai	-	3.0	1.9	2.3	5.6
JWC Logistics Park CFS	2.9	4.2	4.4	2.5	6.5
CWC Hind Terminal CFS, Navi Mumbai	-	-	-	-	-
Dronagiri Rail Terminal CFS, Navi Mumbai	-	2.8	3.4	1.8	5.8
Navkar Corporation Yard 2 CFS, Panvel	-	5.9	4.9	4.0	7.5
Vaishno Logistics CFS, Navi Mumbai	-	4.1	3.3	2.2	6.8
Speedy Multimode CFS, JNPT	-	2.5	3.1	2.0	5.3
Balmer & Lawrie CFS, Navi Mumbai	-	-	-	-	-
Navkar Corporation Yard 3 CFS, Panvel	-	5.4	4.3	3.8	5.6
Ashte Logistics CFS, Panvel	3.0	4.0	4.7	3.2	7.0
Continental Warehousing CFS, Navi Mumbai	-	2.2	2.1	1.8	6.8
SBW Logistics CFS, Navi Mumbai	-	6.1	5.5	-	10.1
Maharashtra State Corp CFS	-	2.4	3.4	2.0	4.0
International Cargo Terminal CFS	-	3.4	3.6	1.8	6.4
Seabird CFS, Navi Mumbai	-	2.9	3.1	2.1	6.8
Apollo Logisolutions CFS, Panvel	-	3.4	2.9	3.4	6.6
Ameya Logistics CFS, Navi Mumbai	-	2.9	3.6	2.3	4.6
AllCargo Logistics	-	3.1	4.0	2.2	5.9
Ocean Gate CFS, Panvel	-	3.9	4.1	4.1	7.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	2.0	2.5	2.3	5.0
Kerry Indev Logistics Pvt Ltd CFS	3.1	3.3	3.3	2.7	7.2
APM (Maersk India) CFS, Navi Mumbai	-	3.1	2.6	2.6	5.2

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) – Dec'22 (in hrs)

CFS	JNPCT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	2.7	2.4	2.2	2.1	2.2
APM (Maersk India) CFS, Navi Mumbai	2.1	2.9	1.9	2.7	2.4
International Cargo Terminal CFS	2.3	2.6	1.5	1.6	1.8
Ameya Logistics CFS, Navi Mumbai	1.8	2.3	2.1	2.2	2.2
AllCargo Logistics	1.7	2.5	2.5	2.2	2.2
Kerry Indev Logistics Pvt Ltd CFS	3.4	5.5	3.5	2.5	3.3
Navkar Corporation Yard 3 CFS, Panvel	8.8	4.8	3.3	4.2	4.7
Seabird CFS, Navi Mumbai	3.8	2.3	2.9	2.4	3.0
Ashte Logistics CFS, Panvel	6.9	2.9	3.0	3.1	2.9
Continental Warehousing CFS, Navi Mumbai	1.7	1.6	1.7	1.5	1.7
CWC Hind Terminal CFS, Navi Mumbai	-	-	-	-	-
Dronagiri Rail Terminal CFS, Navi Mumbai	1.6	2.0	3.1	2.4	7.9
Navkar Corporation Yard 1 CFS, Panvel	7.0	4.8	3.8	3.9	4.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.4	3.5	2.9	2.3	3.1
Maersk Annex (APM)CFS, Navi Mumbai	-	2.6	1.9	2.5	2.3
Speedy Multimode CFS, JNPT	1.7	2.2	2.0	1.7	2.0
Apollo Logisolutions CFS, Panvel	5.5	4.2	5.0	6.5	4.2
Navkar Corporation Yard 2 CFS, Panvel	-	4.1	3.9	4.1	4.0
Punjab Conware CFS, Navi Mumbai	1.2	2.4	2.1	1.9	1.8
Vaishno Logistics CFS, Navi Mumbai	-	2.7	1.8	2.0	1.7
JWC Logistics Park CFS	2.3	3.2	2.9	2.5	3.4
SBW Logistics CFS, Navi Mumbai	8.6	4.8	4.9	2.7	3.5
Ocean Gate CFS, Panvel	2.6	4.8	4.3	4.3	4.4
Maharashtra State Corp CFS	-	2.5	2.2	1.5	2.5

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 Dec'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	2.5
Cluster 2	6	13	-	-
Cluster 3	6	11	2.3	2.9
Cluster 4	1	13	2.7	4.1
Cluster 5	2	25	4.0	4.1
Cluster 6	6	25	4.5	4.0
Cluster 7	4	12	2.3	2.9
Cluster 8	1	34	4.8	6.1

CFS Cluster : JNPCT Terminal

JNPCT terminal for month of Dec'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	1.7	-
Cluster 2	6	13	-	-
Cluster 3	6	11	-	-
Cluster 4	1	13	-	-
Cluster 5	2	25	2.5	-
Cluster 6	6	25	-	-
Cluster 7	4	12	1.7	-
Cluster 8	1	34	8.6	-

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

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

CFS Cluster : NSICT Terminal

NSICT terminal for month of Dec'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	3.1
Cluster 2	6	13	-	-
Cluster 3	6	11	2.5	3.2
Cluster 4	1	13	1.8	3.3
Cluster 5	2	25	3.6	4.2
Cluster 6	6	25	3.6	4.3
Cluster 7	4	12	2.1	3.6
Cluster 8	1	34	4.9	5.5

CFS Cluster : NSIGT Terminal

NSIGT terminal for month of Dec'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	1.7	2.0
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	2.0
Cluster 4	1	13	2.0	2.2
Cluster 5	2	25	3.4	3.3
Cluster 6	6	25	4.0	3.4
Cluster 7	4	12	2.2	2.2
Cluster 8	1	34	2.7	-

CFS Cluster : BMCT Terminal

BMCT terminal for month of Dec'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	5.3
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	5.7
Cluster 4	1	13	1.7	6.8
Cluster 5	2	25	3.9	6.7
Cluster 6	6	25	4.1	7.0
Cluster 7	4	12	2.2	5.9
Cluster 8	1	34	3.5	10.1

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

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	-	48.6	-	-	-	48.6
Baroda	-	50.8	-	35.6	43.7	50.7
Boisar	31.1	14.0	-	39.2	99.0	31.1
Dadri	26.7	63.3	-	-	-	26.7
Daulatabad	38.1	63.8	202.3	178.5	189.4	169.3
Faridabad	81.4	179.1	-	272.9	-	179.9
Indore	-	77.2	-	36.1	66.0	73.3
Jaipur	-	16.2	-	-	-	16.2
Kanpur	123.7	142.0	-	168.6	150.5	151.5
Khodiyar	-	90.3	-	-	87.8	90.2
Khopate	52.1	-	-	-	-	52.1
Ludhiana	54.1	39.1	-	-	-	42.0
Moradabad	-	17.7	-	-	-	17.7
Nagpur	37.5	39.4	-	160.6	72.3	69.6
Navi Mumbai	48.5	39.3	-	103.1	152.1	48.2
Sanatnagar	89.6	80.3	-	-	50.0	85.1
Thimmapur	-	-	-	81.7	153.8	153.4
Tughlakabad	54.5	28.8	-	-	-	29.6
Umbergaon	95.5	46.1	-	82.1	65.6	86.2
Wardha	547.1	-	-	739.8	-	673.5

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:
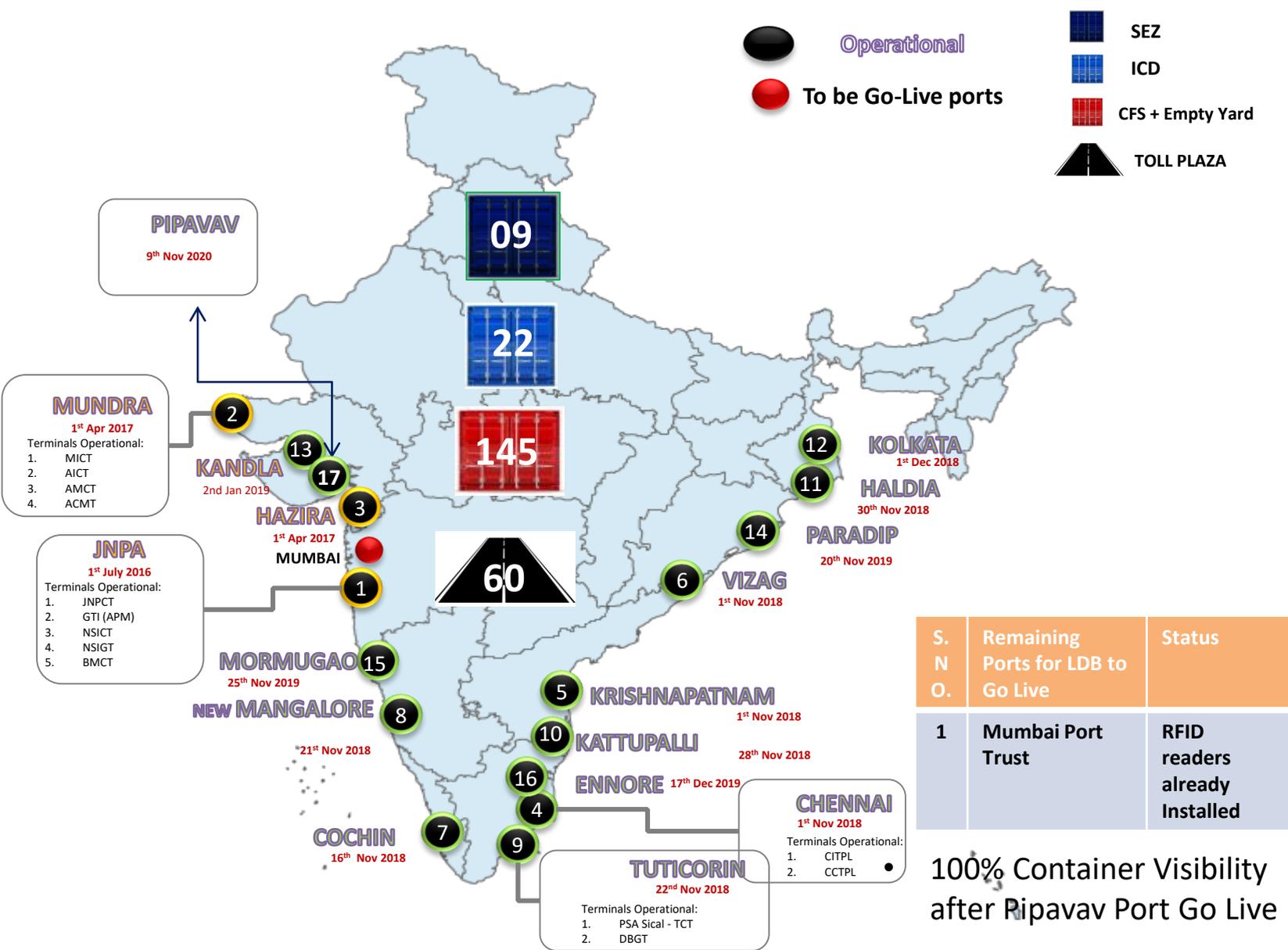
Destination-wise Dwell Time (in hrs) – Truck

CFS	BMCT	GTI	JNPCT	NSIGT	NSICT	Overall
AllCargo Logistics	14.5	11.0	-	12.3	18.0	13.7
Ameya Logistics CFS, Navi Mumbai	19.6	-	60.3	17.5	26.4	20.2
APM (Maersk India) CFS, Navi Mumbai	23.9	21.0	25.0	16.5	26.6	23.6
Apollo Logisolutions CFS, Panvel	22.9	16.8	61.1	19.5	26.9	20.9
Ashte Logistics CFS, Panvel	17.0	12.4	-	12.6	17.2	14.8
Balmer & Lawrie CFS, Navi Mumbai	21.5	19.0	-	19.9	23.2	20.2
Continental Warehousing CFS, Navi Mumbai	14.3	11.5	48.0	14.9	17.7	13.7
CWC Impex Park	17.1	14.3	46.4	17.5	19.9	17.0
Dronagiri Rail Terminal CFS, Navi Mumbai	62.0	40.9	61.0	34.0	55.1	47.7
EFC Logistics	17.4	14.3	36.7	18.6	18.9	16.5
Gateway Distriparks CFS, Navi Mumbai	17.8	14.1	43.4	16.7	19.7	16.8
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	-	-	10.0	16.9	13.1
JWC Logistics Park CFS	17.3	13.7	42.0	17.5	20.7	16.5
Kerry Indev Logistics Pvt Ltd CFS	24.6	17.3	53.6	24.6	28.6	24.2
Maharashtra State Corp CFS	21.7	16.0	32.0	22.7	25.3	22.2
Navkar Corporation	19.9	10.5	55.1	12.2	16.3	13.8
Ocean Gate CFS, Panvel	19.8	14.6	66.9	17.2	22.4	18.0
Sarveshwar Logistics	11.8	8.2	-	14.4	15.0	12.2
SBW Logistics CFS, Navi Mumbai	61.8	-	31.3	25.9	-	59.9
Seabird CFS, Navi Mumbai	16.9	12.3	45.4	16.2	19.7	16.3
Speedy Multimode CFS, JNPT	17.0	-	-	19.0	24.4	19.4
Take Care Logistics	24.7	15.5	56.1	18.3	22.2	20.2
TG Terminals	22.8	21.8	56.4	15.7	24.5	21.7
Vaishno Logistics CFS, Navi Mumbai	23.3	19.6	-	23.6	32.5	24.0

LDB Operations Snapshot

Legend:
- ⬤ Operational
- 🔴 To be Go-Live ports
- 🟦 SEZ
- 🟦 ICD
- 🟥 CFS + Empty Yard
- ◣ TOLL PLAZA

Map markers:

PIPAVAV — 9th Nov 2020

09 (SEZ)
22 (ICD)
145 (CFS + Empty Yard)
60 (TOLL PLAZA)

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

- 100% Container Visibility after Pipavav Port Go Live
- More than about 42 million EXIM containers covered till date.(2021.11.28)

Below mentioned are all the CFS in the respective Clusters :

Cluster 1
(JNPA Area)
- Speedy Multimode CFS, JNPA

Cluster 2
(Bhendkhal area, Khopate road)
- APM (Maersk India) CFS, Navi Mumbai
- Maersk Annex (APM)CFS, Navi Mumbai
- Balmer & Lawrie CFS, Navi Mumbai
- CWC Hind Terminal CFS, Navi Mumbai
- International Cargo Terminals (ULA) CFS, Navi Mumbai & Infrastructure Private Limited
- Gateway Distriparks CFS, Navi Mumbai
- International Cargo Terminal CFS

Cluster 3
Sonari area, JNPA road
- Punjab Conware CFS, Navi Mumbai
- Dronogiri Rail Terminal CFS, Navi Mumbai
- CWC Impex Park CFS, Navi Mumbai
- CWC Dronagiri CFS, Navi Mumbai
- Maharashtra State Corp CFS
- Seabird CFS, Navi Mumbai

Cluster 4
(Chirle area , JNPA road)
- Vaishno Logistics CFS, Navi Mumbai

Cluster 5
(Plaspa area, Coachi kanyakumari Highway)
- JWC Logistics Park CFS
- Ocean Gate CFS, Panvel

Cluster 6
(Salva apta rd area, Bangalore highway)
- Ashte Logistics CFS, Panvel
- Apollo Logisolutions CFS, Panvel
- Indev Logistics CFS, Panvel
- Navkar Corporation Yrd 1 CFS, Panvel
- Navkar Corporation Yard 2 CFS, Panvel
- Navkar Corporation Yard 3 CFS, Panvel

Cluster 7
(Patilpada area, Khopate JNPA road)
- All Cargo Logistics CFS, Navi Mumbai
- Transindia Logistics Park, Navi Mumbai
- Ameya Logistics CFS, Navi Mumbai
- Continental Warehousing CFS, Navi Mumbai

Cluster 8
SBW

List of CFS name used in CFS Performance Index

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

THANK YOU