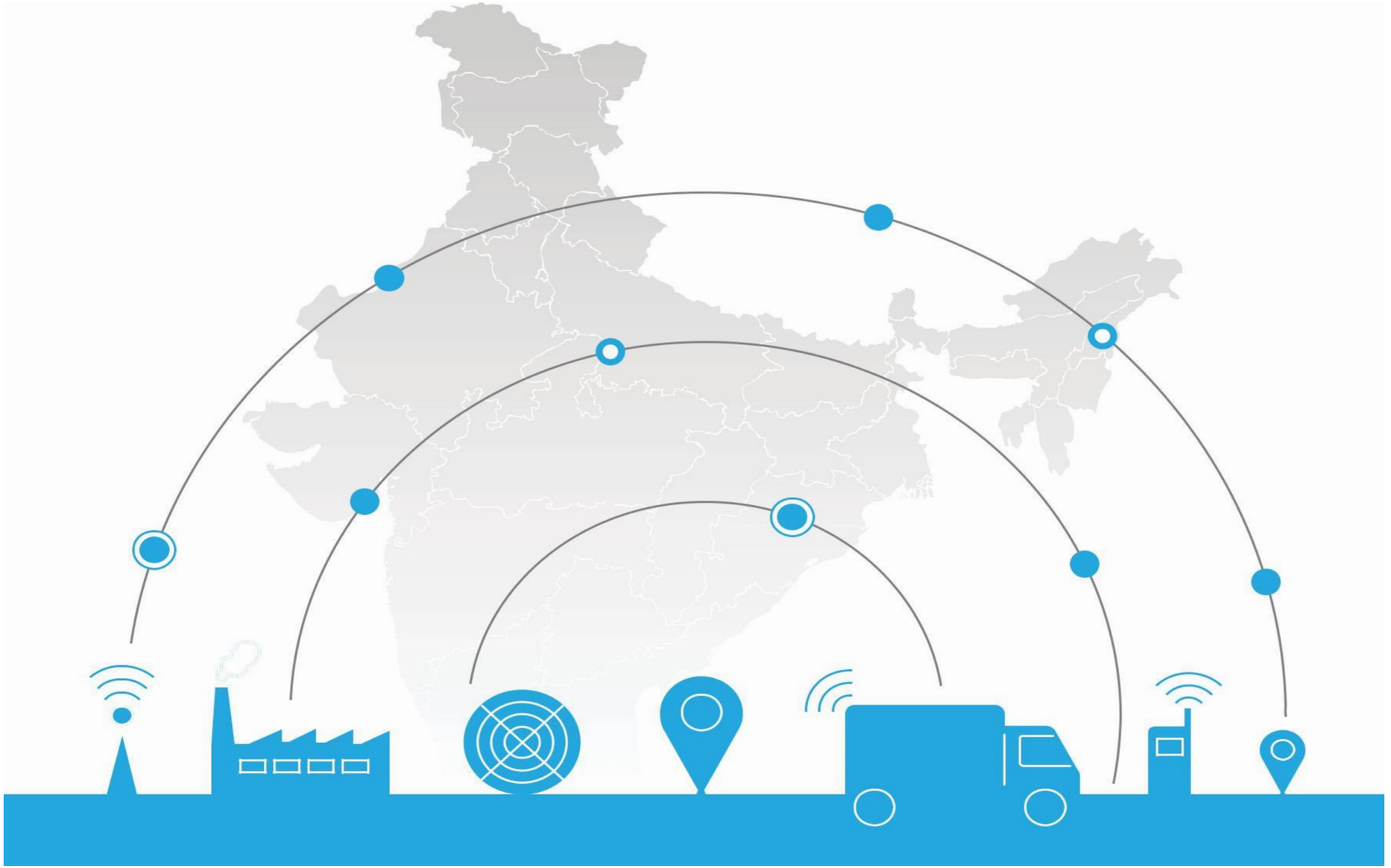
Logistics Databank Analytics Report – Sep 2023



Executive Summary

Terminal wise Dwell Time Performance – Snapshot

Import Cycle		
Port	Aug'23 (in hrs)	Sep'23 (in hrs)
NSFT	20.4	16.7
NSICT	20.3	16.8
GTI	16.4	14.5
NSIGT	20.4	19.2
BMCT	21.2	19.2

Export Cycle		
Port	Aug'23 (in hrs)	Sep'23 (in hrs)
NSFT	69.0	75.6
NSICT	58.5	57.2
GTI	74.8	77.1
NSIGT	85.2	80.0
BMCT	66.2	70.8

Critical Incident Summary

Jawaharlal Nehru Port Authority

- Overall container handling performance in Import Cycle has improved and Export Cycle has deteriorated from the previous month.
- Overall container handling performance at CFS has improved and ICD has deteriorated from the previous month.

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time	ICD
Sep'23	17.1 hrs ▲ 13.6%	71.9 hrs ▼ 1.8%	80.8 hrs ▲ 4.4%	131.5 hrs ▼ 0.8%
Aug'23	19.8 hrs	70.6 hrs	84.5 hrs	130.4 hrs

Container Transportation Performance - Western Corridor

Port Dwell Time

IMPORT

Mode	Aug'23 (in hrs)	Sep'23 (in hrs)
Overall	25.7	21.3
Truck	21.6	17.1
Train	61.3	59.2

EXPORT

Mode	Aug'23 (in hrs)	Sep'23 (in hrs)
Overall	85.7	86.8
Truck	80.7	81.9
Train	118.0	112.7

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

Inland Container Depot (ICD)

Container Freight Stations (CFS)

Entity	Aug'23 (in hrs)	Sep'23 (in hrs)
CFS	91.4	86.0
ICD	130.4	131.5

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

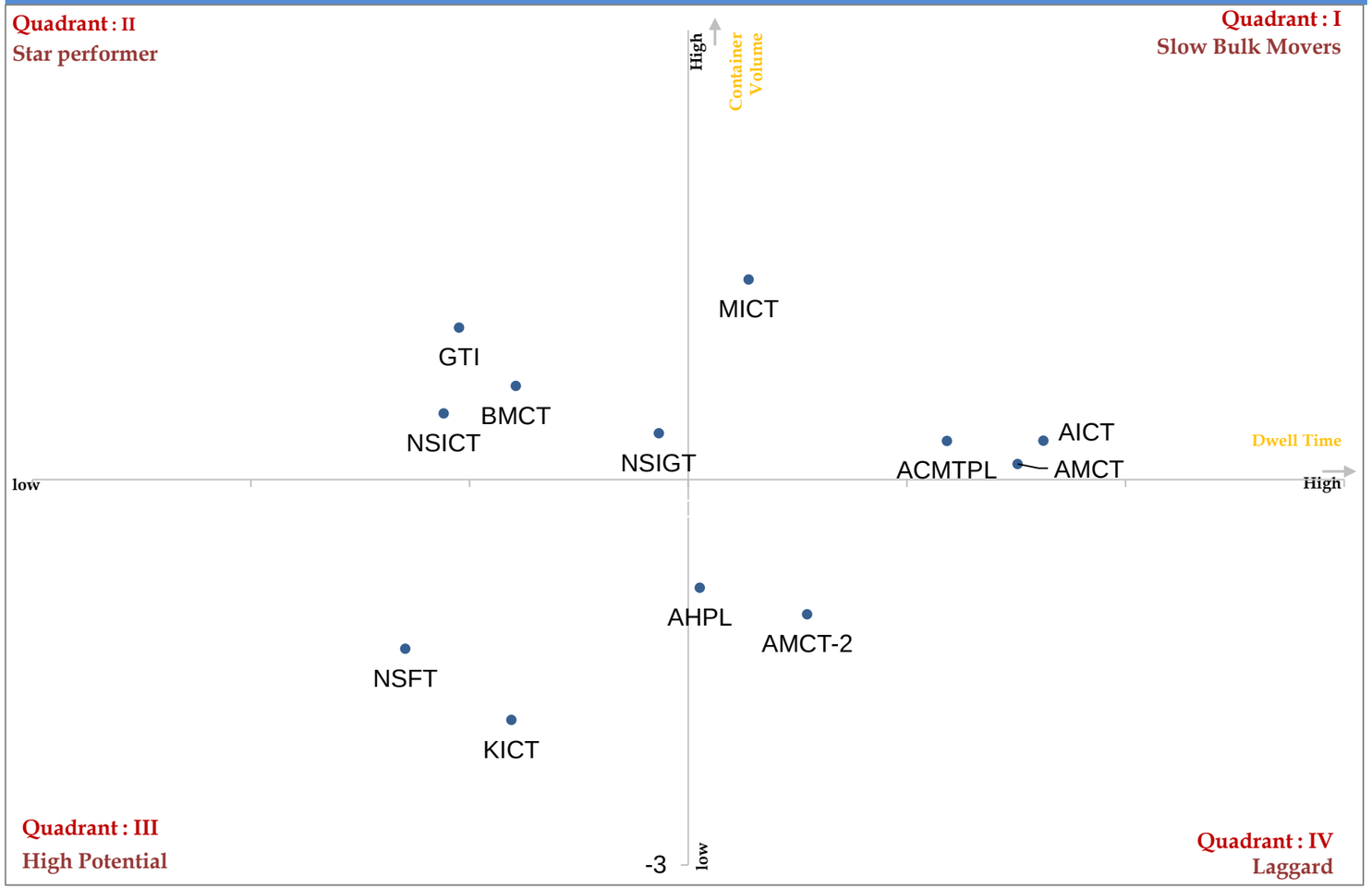
The marked entries showcase Decrease in performance in comparison to Aug'23

Port Performance Benchmarking & Performance Index - Western Corridor

Performance Benchmarking - Port Terminals

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

Performance Index – Sep'23



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

Top Performing Terminal

Gateway Terminals India (GTI)	
Aug'23	Sep'23
34.9 hrs	32.3 hrs

Low Performing Terminal

Adani Mundra Container Terminal-2 (AMCT-2)	
Aug'23	Sep'23
68.4 hrs	62.4 hrs

Note: The performance benchmarking is based on performance index

The arrows depict increase/Decrease in overall performance of the stakeholders in comparison to Aug'23

Performance Index- Summary

In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume

Star Performer: consist of entities which have catered relatively high container volume in lower dwell time

Slow Bulk Movers : consist of entities which have catered higher container volume at higher dwell time

High Potential : consist of entities which have catered relatively lower container volume in lower dwell time

Laggard : consist of entities which have catered relatively lower container volume at higher dwell time

Container Transportation- JNPA Port Terminals

Container Lifecycle (Import Cycle)

Port Dwell Time

IMPORT

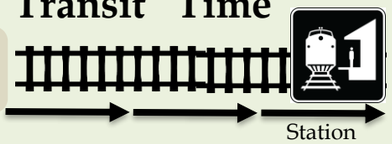
Mode	Aug'23 (in hrs)	Sep'23 (in hrs)
Overall	19.8	17.1
Truck	17.5	14.7
Train	44.1	44.2

EXPORT

Mode	Aug'23 (in hrs)	Sep'23 (in hrs)
Overall	70.6	71.9
Truck	69.3	70.4
Train	80.4	82.3

Transit Time

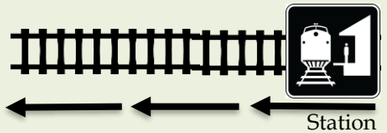
Towards ICD



Transit Cycle	Aug'23 (in hrs)	Sep'23 (in hrs)
Port to ICD	111.1	101.9
Port to CFS	2.54	2.46

Towards CFS

From ICD



Transit Cycle	Aug'23 (in hrs)	Sep'23 (in hrs)
ICD to Port	103.2	106.1
CFS to Port	4.22	3.78

From CFS

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

Entity	Aug'23 (in hrs)	Sep'23 (in hrs)
CFS	84.5	80.8
ICD	130.4	131.5

Volume distribution at port terminal – Truck/Rail

	Truck	Rail
Import	81%	19%
Export	80%	20%

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

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

Container Lifecycle (Export Cycle)

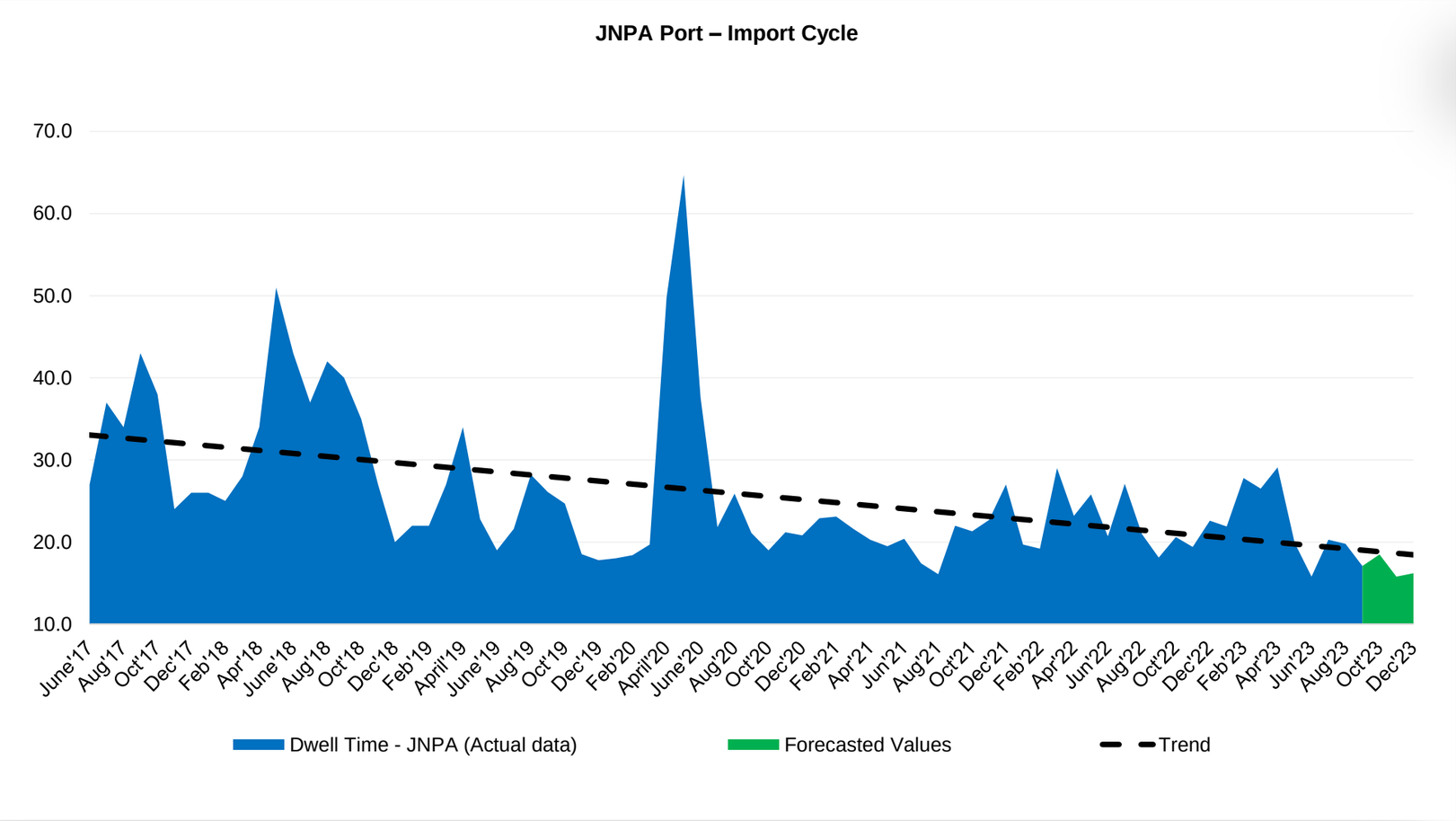
Container Transportation- JNPA Port Terminals

IMPORT CYCLE DWELL TIME (Sep'23 – in hrs)			Compared to Aug'23
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	17.1	13.6% ↑
	Port Dwell Time for Truck Bound Containers	14.7	16.0% ↑
	Port Dwell time for Train Bound Containers	44.2	0.2% ↓
	Port Dwell time Direct Port Delivery (DPD) containers	19.7	14.7% ↑
	Port Dwell time Containers bound for CFS	14.5	13.2% ↑
	Port Dwell for Empty Containers	21.3	28.0% ↑
	Port Dwell for Laden Containers	16.6	11.2% ↑
TRANSIT TIME	Port to ICD	101.9	8.3% ↑
	Port to CFS	2.46	3.1% ↑

EXPORT CYCLE DWELL TIME (Sep'23– in hrs)			Compared to Aug'23
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	71.9	1.8% ↓
	Port Dwell Time for Truck Bound Containers	70.4	1.6% ↓
	Port Dwell time for Train Bound Containers	82.3	2.4% ↓
	Port Dwell time Direct Port Entry (DPE) containers	75.8	1.5% ↓
	Port Dwell time Containers bound from CFS	71.5	0.6% ↓
	Port Dwell for Empty Containers	65.3	6.9% ↓
	Port Dwell for Laden Containers	73.9	0.4% ↑
TRANSIT TIME	ICD to Port	106.1	2.8% ↓
	CFS to Port	3.78	10.4% ↑

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

Container Transportation- JNPA Port Terminals



Observation

Import Cycle

- JNPA dwell time prediction is based on import dwell time i.e. for import bound containers.
- 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 Dec'23.

	Jul'23	Aug'23	**Sep'23**	Oct'23	Nov'23	Dec'23
Actual Dwell Time (in hours)	**20.3**	**19.8**	**17.1**	-	-	-
Forecasted Dwell Time (in hours)	**18.8**	**19.1**	**19.2**	**18.5**	**15.8**	**16.2**

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	Aug'23 (in hrs)	Sep'23 (in hrs)
Overall Parking Plaza	5.26	5.25

Container Handled: Day wise (Sep'23)

Port Terminals	Within 0-2 hrs	Within 2-4 hrs	Within 4-8 hrs	Within 8-16 hrs	Within 16-24 hrs	More than 24 hrs
Parking Plaza	10%	26%	34%	20%	6%	4%

Parking Plaza Gate Out – Terminal In

Mode	Aug'23 (in hrs)	Sep'23 (in hrs)
Overall Parking Plaza to JNPA Port	1.62	1.70

Port	Aug'23 (in hrs)	Sep'23 (in hrs)
NSFT	1.5	1.3
NSICT	1.4	1.2
GTI	1.1	0.5
NSIGT	1.2	1.6
BMCT	7.2	6.6

Container Handled: Day wise (Sep'23)

Port Terminals	Within 0-2 hrs	Within 2-4 hrs	Within 4-8 hrs	Within 8-16 hrs	Within 16-24 hrs	More than 24 hrs
NSFT	62%	9%	21%	3%	2%	3%
NSICT	65%	28%	5%	1%	0%	2%
GTI	88%	9%	2%	2%	0%	0%
NSIGT	65%	30%	2%	2%	0%	1%
BMCT	11%	18%	35%	27%	9%	0%

CFS/ICD Performance Benchmarking & Performance Index - Western Corridor

CFS

Performance Benchmarking

ICD

Top Performing CFS

Adani CFS Eximyard, Mundra	
Aug'23	Sep'23
88.5 hrs	76.8 hrs

Low Performing CFS

Rishi CFS, Mundra	
Aug'23	Sep'23
104.5 hrs	106.1 hrs

Top Performing ICD

Adani ICD, Tumb	
Aug'23	Sep'23
121.9 hrs	125.1 hrs

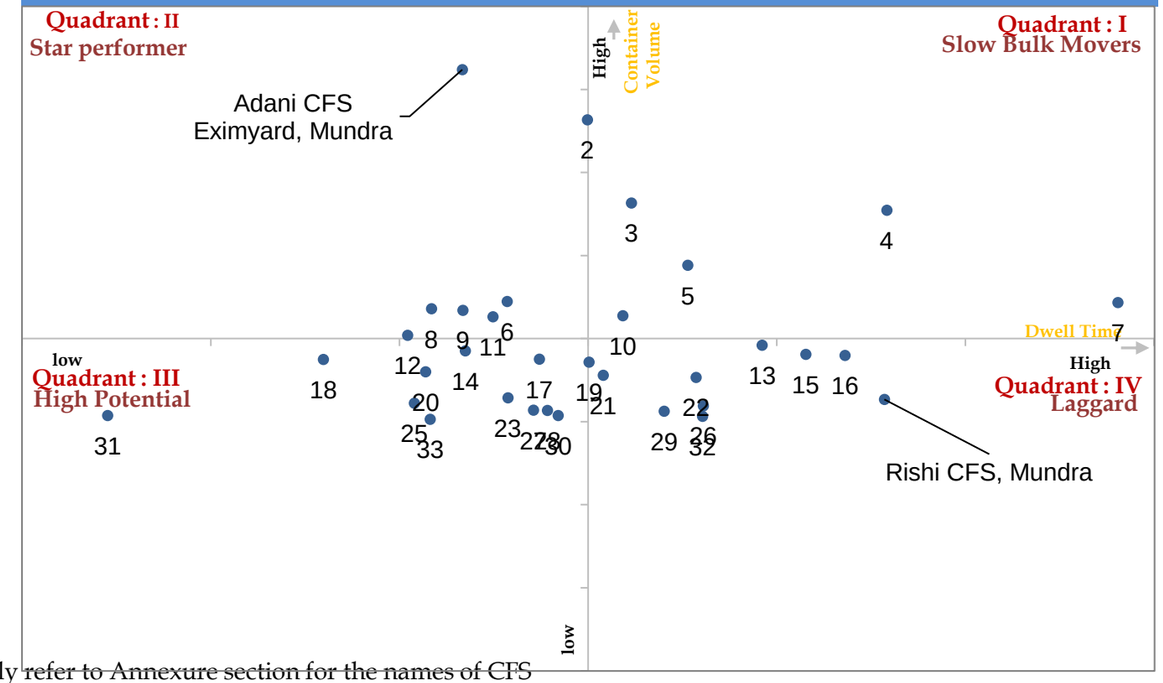
Low Performing ICD

Gateway Rail Freight ICD, Pyala	
Aug'23	Sep'23
169.6 hrs	177.7 hrs

Note: The performance benchmarking is based on performance index

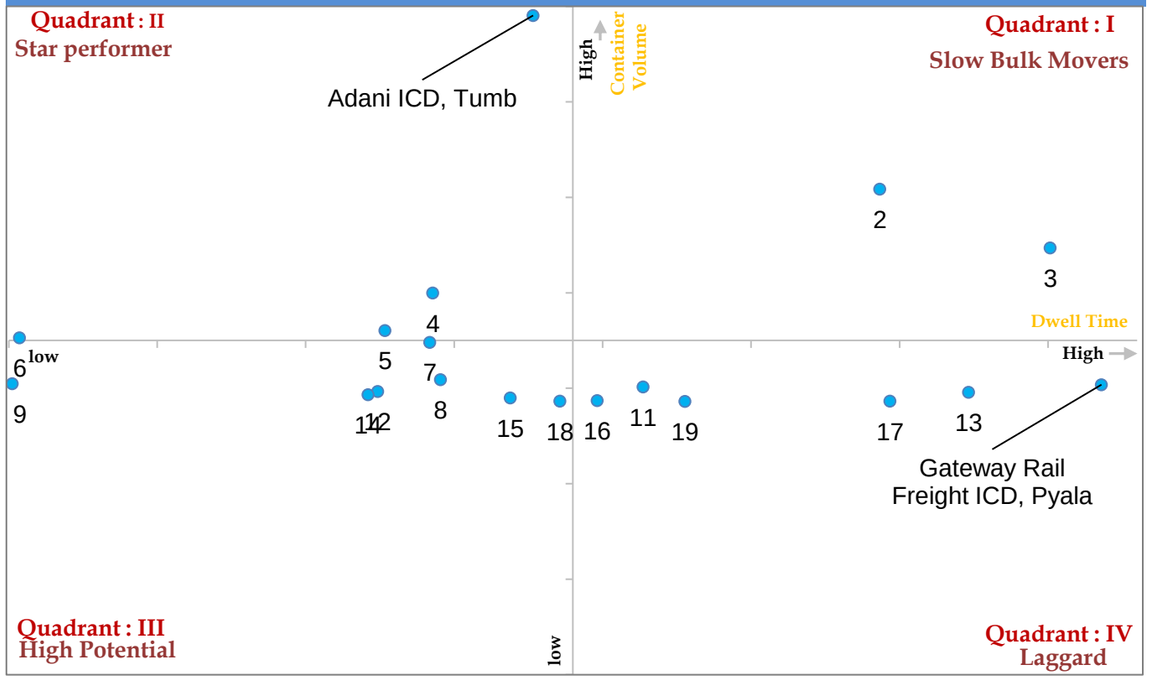
The arrows depict increase/decrease in overall performance of the stakeholders as compared to Aug'23.

Performance Index: Western Corridor CFS



Kindly refer to Annexure section for the names of CFS

Performance Index: ICD



Import Cycle Analysis

JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

PORT IMPORT via TRAIN
(19% 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

Port	Aug'23 (in hrs)	Sep'23 (in hrs)
NSFT	36.4	47.0
NSICT	39.9	48.5
GTI	41.1	34.5
NSIGT	46.6	47.7
BMCT	47.4	52.7

Container Handled: Day wise (Sep'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	29%	23%	19%	12%	8%	9%
NSICT	26%	23%	16%	12%	15%	8%
GTI	31%	34%	17%	8%	4%	6%
NSIGT	22%	29%	18%	11%	9%	11%
BMCT	23%	24%	18%	14%	15%	6%

PORT IMPORT via TRUCK
(81% 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

Port	Aug'23 (in hrs)	Sep'23 (in hrs)
NSFT	19.5	15.2
NSICT	18.5	14.9
GTI	14.3	12.6
NSIGT	17.1	15.0
BMCT	18.9	16.8

Container Handled: Day wise (Sep'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	75%	19%	5%	2%	0%	0%
NSICT	75%	19%	3%	1%	1%	0%
GTI	80%	16%	3%	1%	0%	0%
NSIGT	71%	19%	6%	2%	1%	1%
BMCT	69%	24%	5%	1%	0%	0%

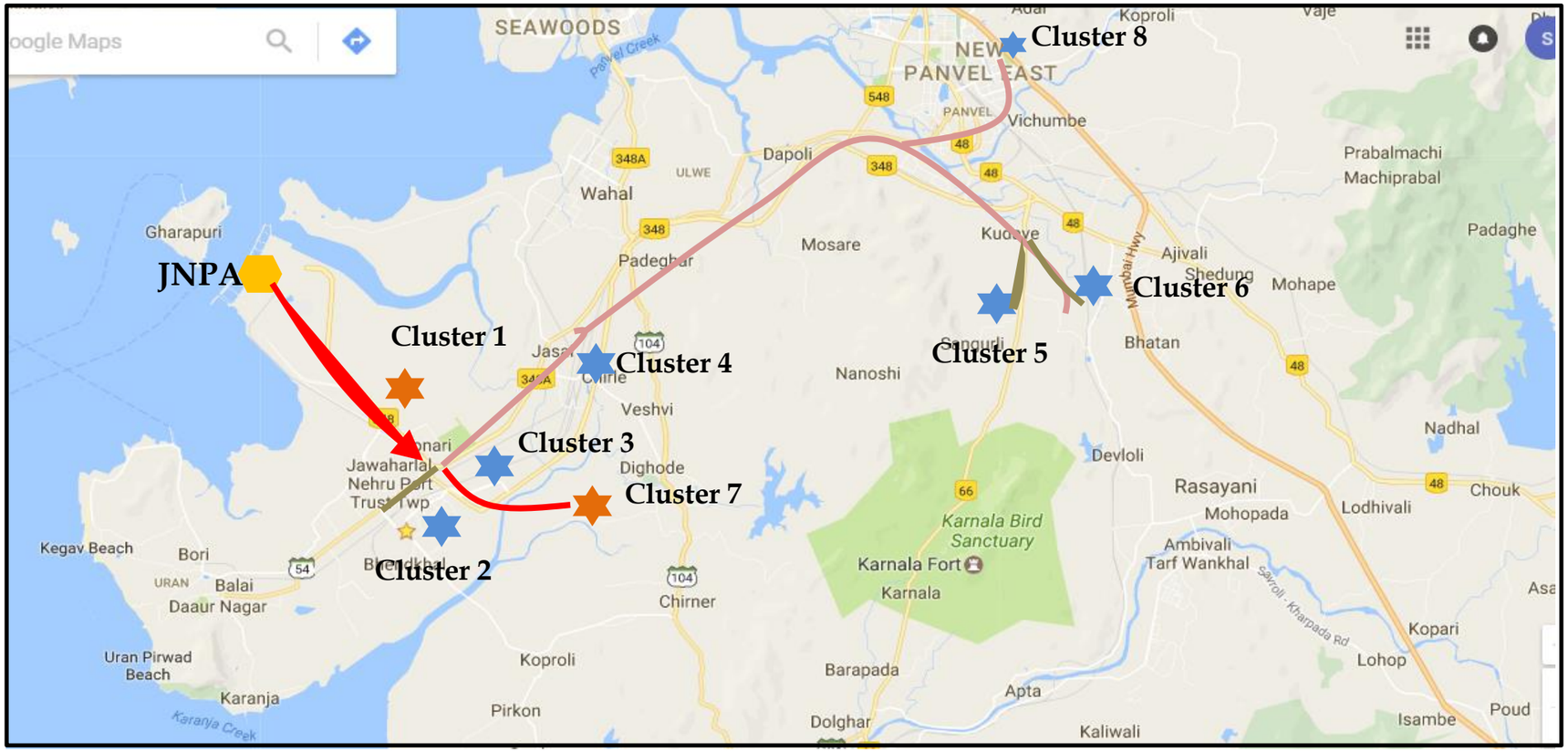
JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

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	16.6	15.6	25.0	15.9
NSICT	40.0	15.1	16.2	17.0
GTI	26.2	12.6	26.4	14.2
NSIGT	44.7	14.0	24.2	17.9
BMCT	32.2	17.5	23.0	18.9

JNPA Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPA region in Import Cycle in month of Sep'23



Clusters with bottleneck	
CLUSTER 1	JNPA Area
CLUSTER 7	Patilpada area, Khopate JNPA road

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 8	Taloja, Navi Mumbai

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

GTI Terminal	NSFT Terminal	NSICT Terminal	NSIGT Terminal	BMCT Terminal
Congestion Level	Congestion Level	Congestion Level	Congestion Level	Congestion Level
Import Cycle :-	Import Cycle :-	Import Cycle :-	Import Cycle :-	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

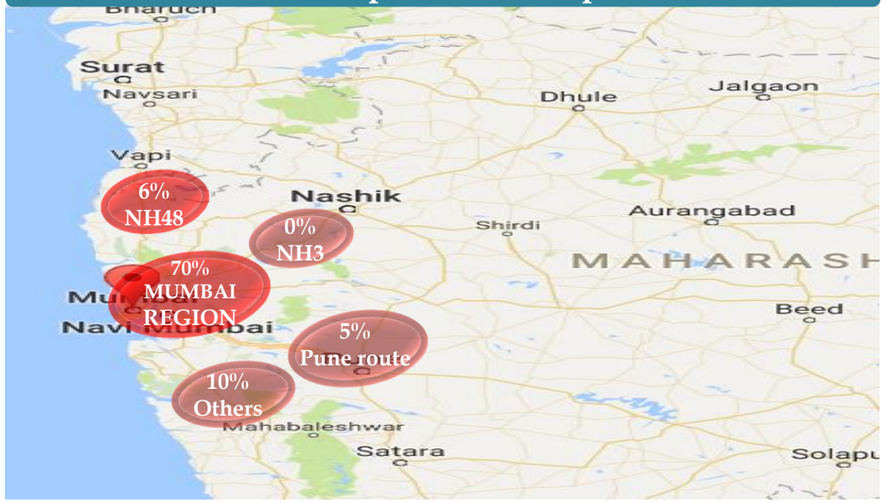
Truck

HEAT MAP : OVERALL MUMBAI REGION

Region	Sep'23
Mumbai region	70%
NH3	0%
Pune	5%
NH48	6%
Others	10%

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

Heat Map via Truck: Sep'23



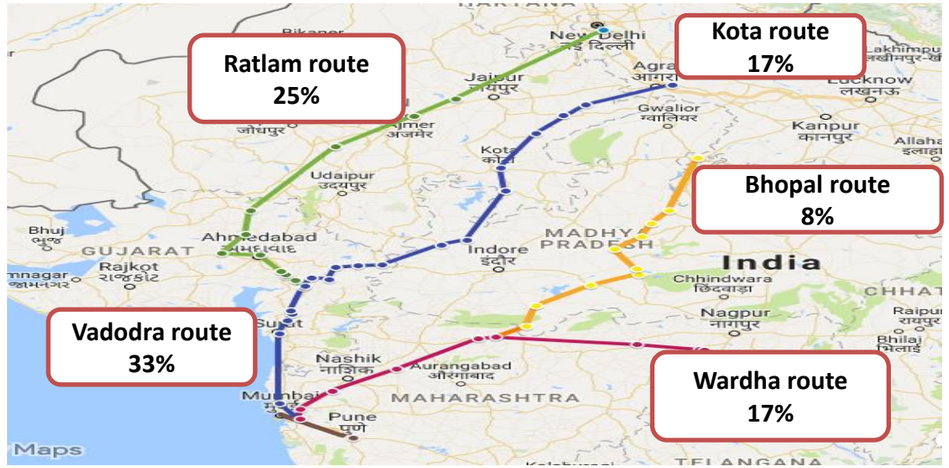
Train

VOLUME WISE CONTAINER MOVEMENT

Region	Sep'23
Vadodra Route	33%
Ratlam Route	25%
Wardha Route	17%
Kota Route	17%
Bhopal Route	8%

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

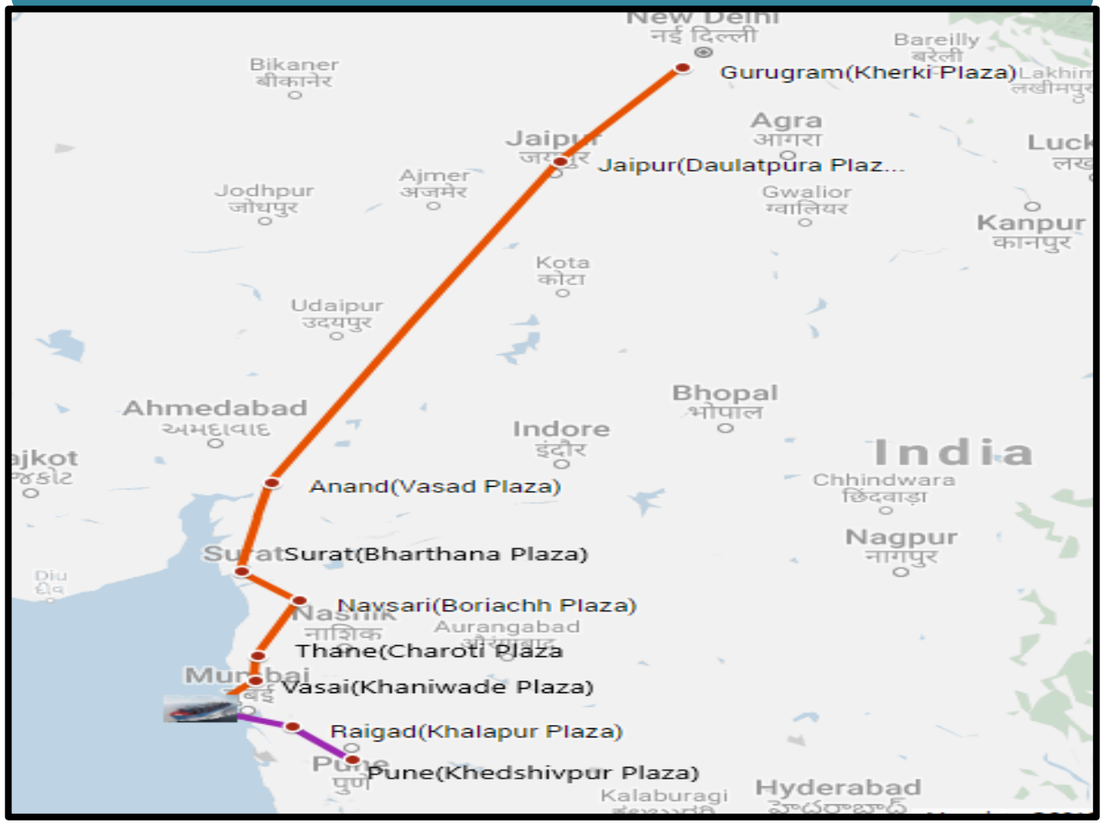
Container movement via Rail – Sep'23



Western Corridor Toll Plaza Analysis

Avg. Speed between Toll to Toll Plazas					
	Source	Destination Toll Plaza	Inter Distance (Km)	Aug'23 (in km/hrs)	Sep'23 (in km/hrs)
JNPA	JNPA	Khaniwade	94	10.5	11.2
	JNPA	Khalapur	60	5.6	5.6
	Khaniwade	Charoti	50	39.1	37.0
	Charoti	Boriach	126	21.6	31.9
	Boriach	Bharthan	142	30.9	31.9
	Bharthan	Vasad	60	35.3	35.7
	Khalalpur	Khedshivpur	105	22.5	31.3

Toll Plaza - JNPA Port



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
(20% 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

Port	Aug'23 (in hrs)	Sep'23 (in hrs)
NSFT	102.1	116.4
NSICT	36.2	27.3
GTI	96.4	93.7
NSIGT	105.7	104.1
BMCT	88.2	115.0

Container Handled: Day wise (Sep'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	1%	15%	19%	7%	23%	35%
NSICT	46%	13%	10%	9%	11%	10%
GTI	3%	12%	17%	19%	25%	25%
NSIGT	2%	11%	14%	18%	30%	26%
BMCT	4%	8%	13%	14%	23%	38%

PORT EXPORT via TRUCK
(80% 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

Port	Aug'23 (in hrs)	Sep'23 (in hrs)
NSFT	68.5	75.1
NSICT	62.8	62.3
GTI	72.1	74.9
NSIGT	81.5	76.1
BMCT	63.3	65.9

Container Handled: Day wise (Sep'23)

Port Terminals	Within 0-24 hrs	Within 24-48 hrs	Within 48-72 hrs	Within 72-96 hrs	Within 96-144 hrs	More than 144 hrs
NSFT	7%	19%	20%	31%	21%	1%
NSICT	7%	25%	28%	25%	14%	1%
GTI	2%	18%	26%	25%	26%	3%
NSIGT	7%	15%	24%	25%	27%	2%
BMCT	6%	23%	28%	25%	17%	1%

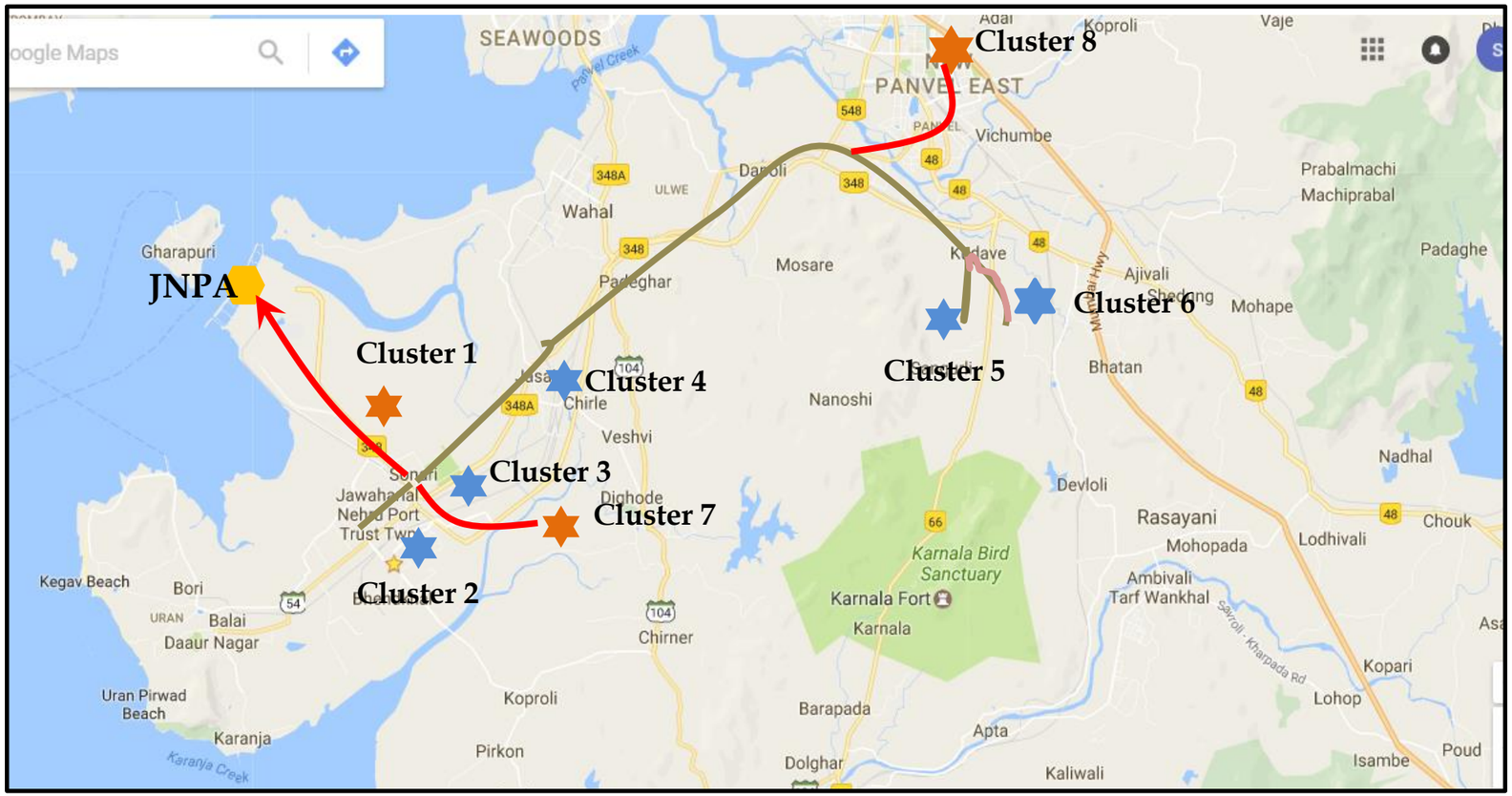
JNPA Port Terminal: Dwell Time Performance (Import Cycle)

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

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	76.6	78.1	82.5	72.8
NSICT	67.4	66.7	49.0	59.9
GTI	77.2	71.6	76.3	77.5
NSIGT	80.8	76.2	56.1	80.2
BMCT	-	69.9	62.9	76.7

JNPA Region: Congestion Analysis (Export Cycle)

The Below map indicate congestion around JNPA region in Export Cycle in month of Sep'23



Clusters with bottleneck	
CLUSTER 1	JNPA Area
CLUSTER 7	Patilpada area, Khopate JNPA road
CLUSTER 8	Taloja, Navi Mumbai

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

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

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

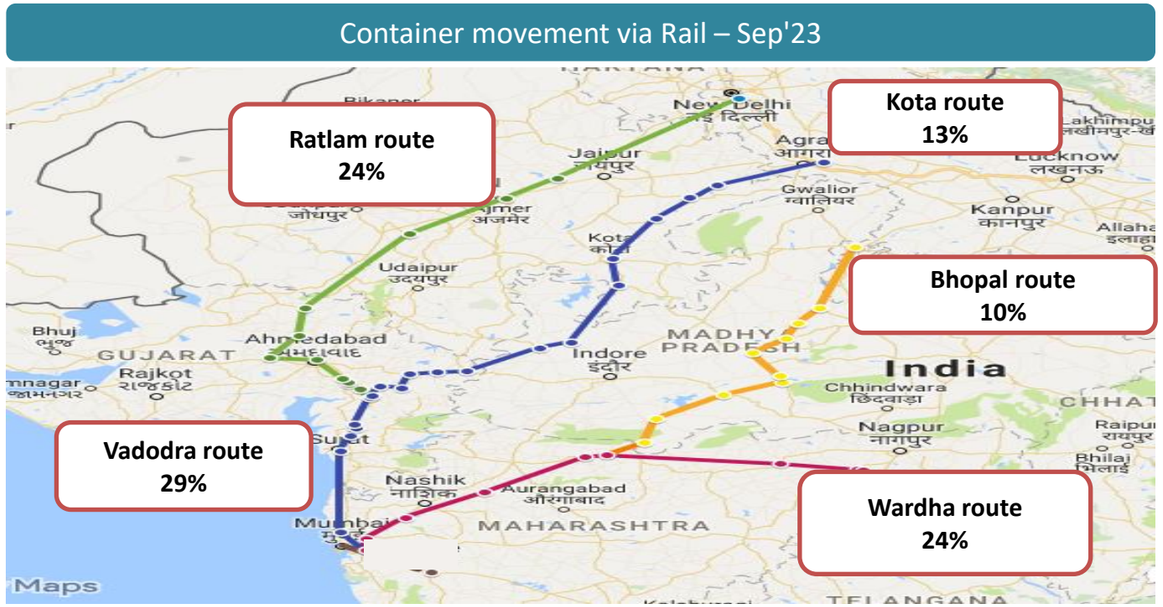
Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals

2) Analysis consist of CFS covered under LDB project

JNPA Region: Container Movement via Train

JNPA Port	
Route	**Percentage of Container Movement**
Vadodra Route	29%
Ratlam Route	24%
Wardha Route	24%
Kota Route	13%
Bhopal Route	10%

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



CFS and ICD Performance

JNPA region CFS : CFS DWELL TIME ANALYSIS

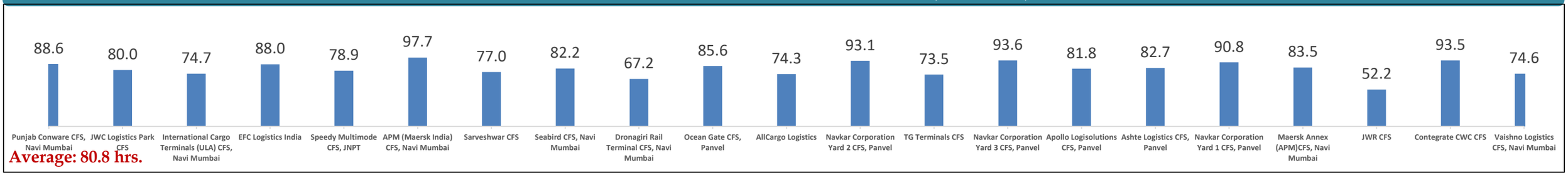
Below table and graphs show the dwell time of the respective CFSs for the month of Sep'23

CFS Dwell Time (in hrs.)

CFS	Aug'23 (in hrs)	Sep'23 (in hrs)
Punjab Conware CFS, Navi Mumbai	86.4	88.6
JWC Logistics Park CFS	82.4	80.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	89.9	74.7
EFC Logistics India	84.8	88.0
Speedy Multimode CFS, JNPT	84.7	78.9
APM (Maersk India) CFS, Navi Mumbai	96.7	97.7
Sarveshwar CFS	86.7	77.0
Seabird CFS, Navi Mumbai	71.0	82.2
Dronagiri Rail Terminal CFS, Navi Mumbai	68.9	67.2
Ocean Gate CFS, Panvel	97.6	85.6
AllCargo Logistics	88.6	74.3

CFS	Aug'23 (in hrs)	Sep'23 (in hrs)
Navkar Corporation Yard 2 CFS, Panvel	87.6	93.1
TG Terminals CFS	85.9	73.5
Navkar Corporation Yard 3 CFS, Panvel	83.7	93.6
Apollo Logisolutions CFS, Panvel	73.8	81.8
Ashte Logistics CFS, Panvel	87.9	82.7
Navkar Corporation Yard 1 CFS, Panvel	100.8	90.8
Maersk Annex (APM)CFS, Navi Mumbai	89.6	83.5
JWR CFS	53.5	52.2
Contegrate CWC CFS	69.5	93.5
Vaishno Logistics CFS, Navi Mumbai	80.9	74.6

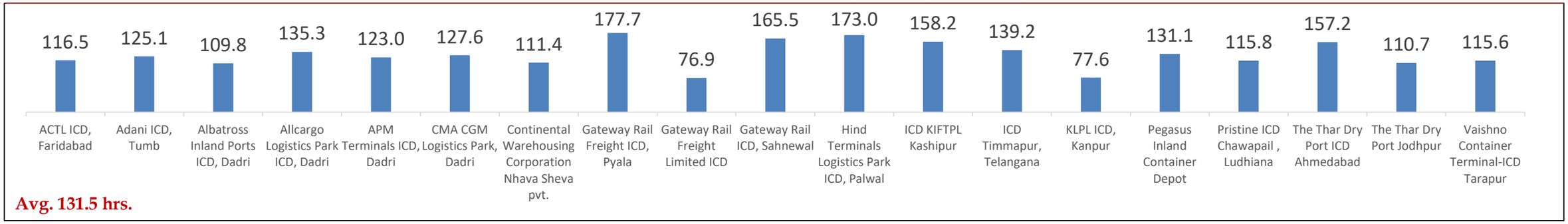
CFS – DWELL OVERVIEW – SEP'23 (IN HRS)



ICD Performance

ICD	Aug'23 (in hrs)	Sep'23 (in hrs)
ACTL ICD, Faridabad	112.3	116.5
Adani ICD, Tumb	121.9	125.1
Albatross Inland Ports ICD, Dadri	139.1	109.8
Allcargo Logistics Park ICD, Dadri	112.1	135.3
APM Terminals ICD, Dadri	119.8	123.0
CMA CGM Logistics Park, Dadri	119.8	127.6
Continental Warehousing Corporation Nhava Sheva pvt.	102.5	111.4
Gateway Rail Freight ICD, Pyala	169.6	177.7
Gateway Rail Freight Limited ICD	109.7	76.9
Gateway Rail ICD, Sahnewal	215.1	165.5
Hind Terminals Logistics Park ICD, Palwal	164.6	173.0
ICD KIFTPL Kashipur	153.8	158.2
ICD Timmapur, Telangana	145.9	139.2
KLPL ICD, Kanpur	103.3	77.6
Pegasus Inland Container Depot	139.5	131.1
Pristine ICD Chawapail , Ludhiana	117.9	115.8
The Thar Dry Port ICD Ahmedabad	141.3	157.2
The Thar Dry Port Jodhpur	131.7	110.7
Vaishno Container Terminal-ICD Tarapur	124.3	115.6

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



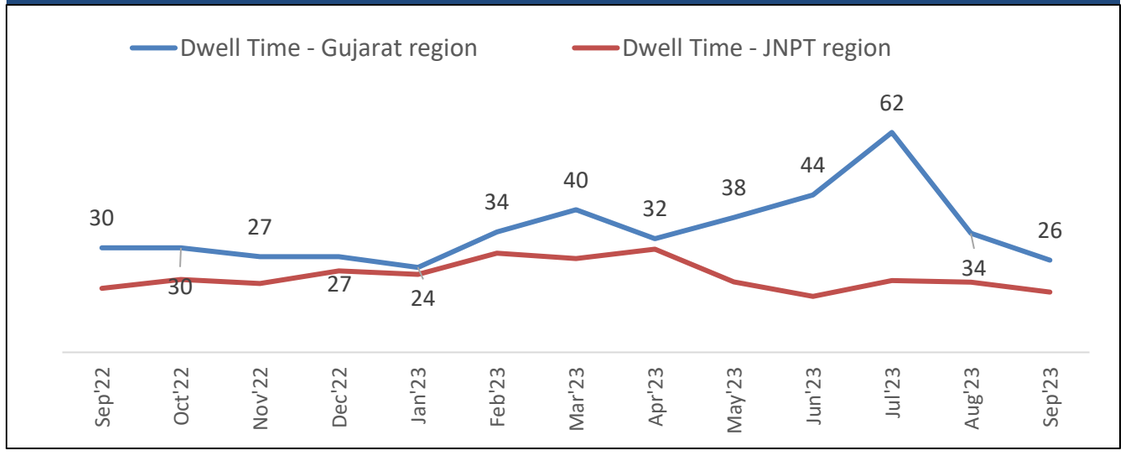
Avg. 131.5 hrs.

Trend Analysis

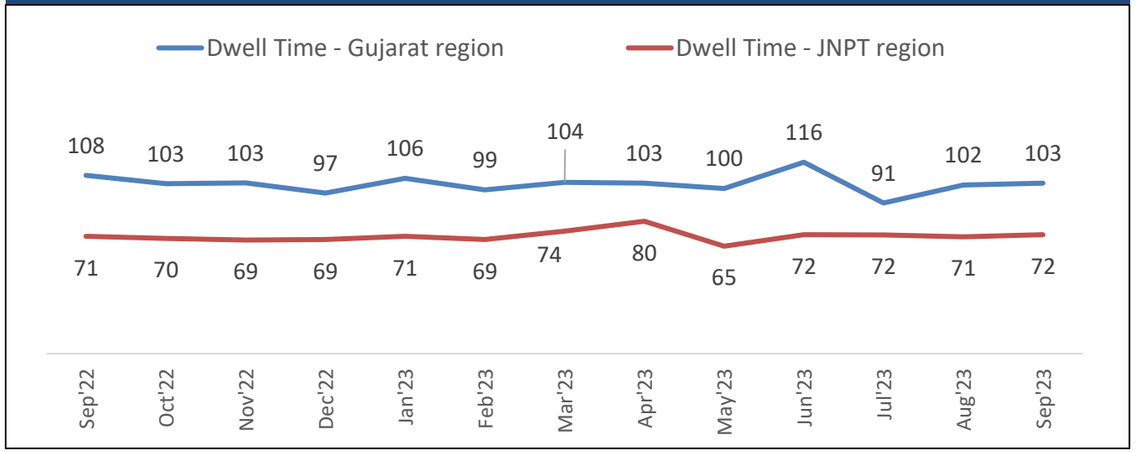
Western Corridor Port – Yearly Analysis

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

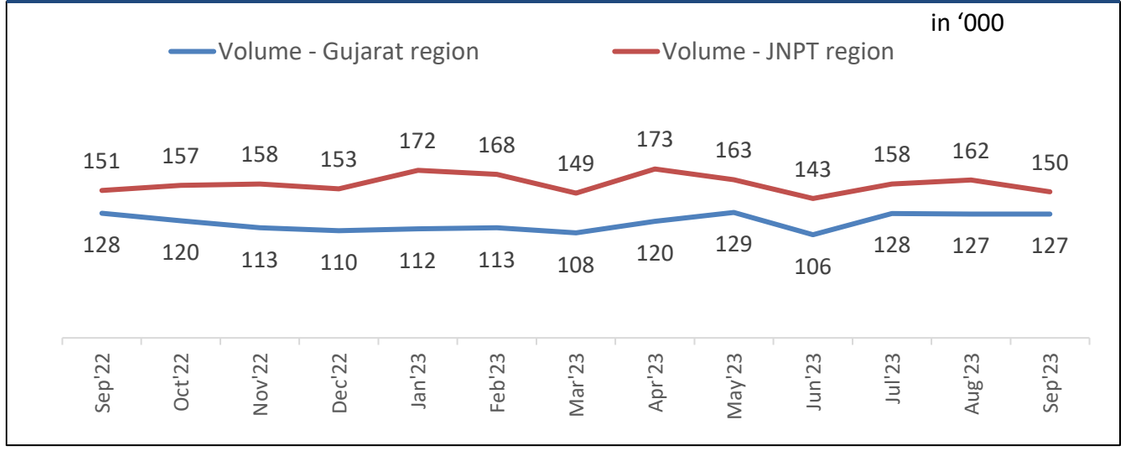
Dwell Time – Mundra Region Vs JNPA Region



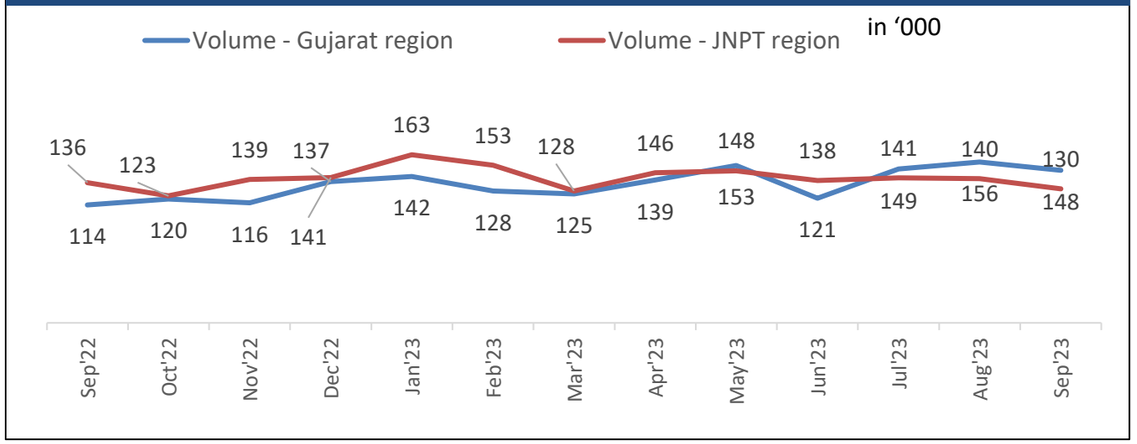
Dwell Time – Mundra Region Vs JNPA Region



Volume – Mundra Region Vs JNPA Region



Volume – Mundra Region Vs JNPA Region



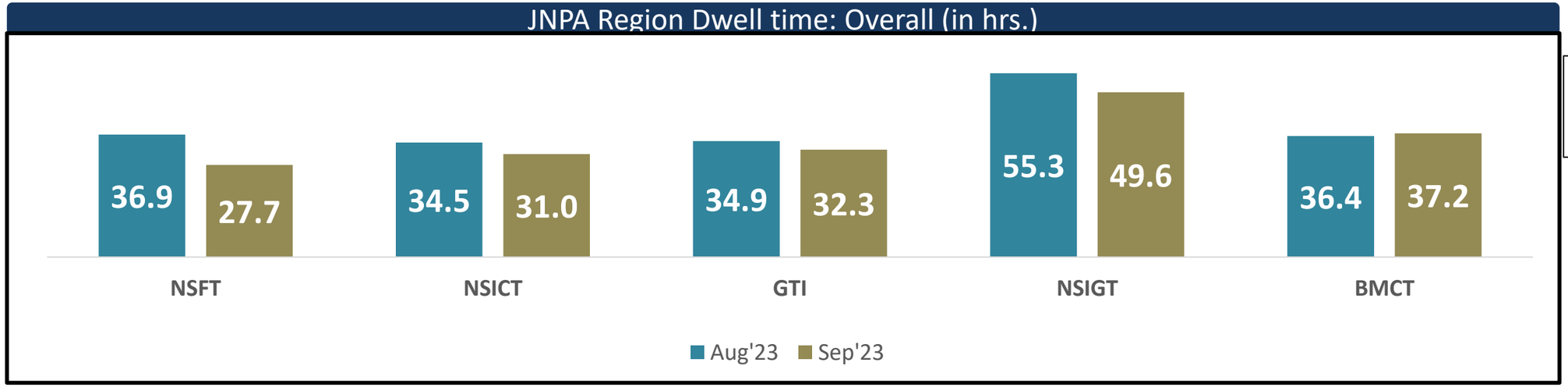
In Import cycle, for the month of Sep'23 Mundra port has catered 15.7% **less volume** than JNPA Port, and has performed with 54.0% **higher dwell time** than JNPA Port.

In Export cycle, for the month Sep'23 JNPA port catered 12.2**% lower volume** than Mundra Port, and has maintained 30.1% **lower dwell time** than Mundra Port

JNPA PORT DWELL TIME TREND: Month on Month

JNPA port dwell time trend :

The below table shows the overall port dwell time (i.e. import and export cycle combined) trend (Month of Month) of all the JNPA Port terminals. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

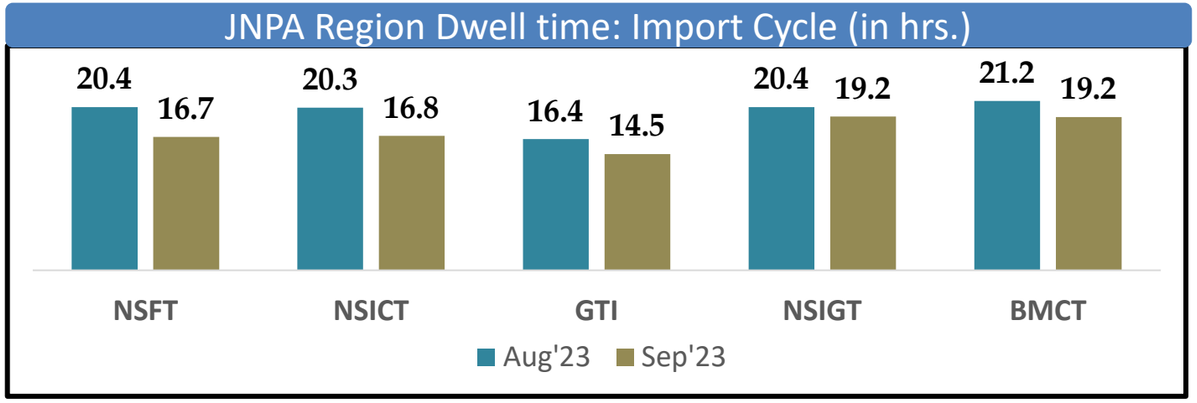


The overall JNPA region average dwell time for Sep'23 is 35.9 hrs

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

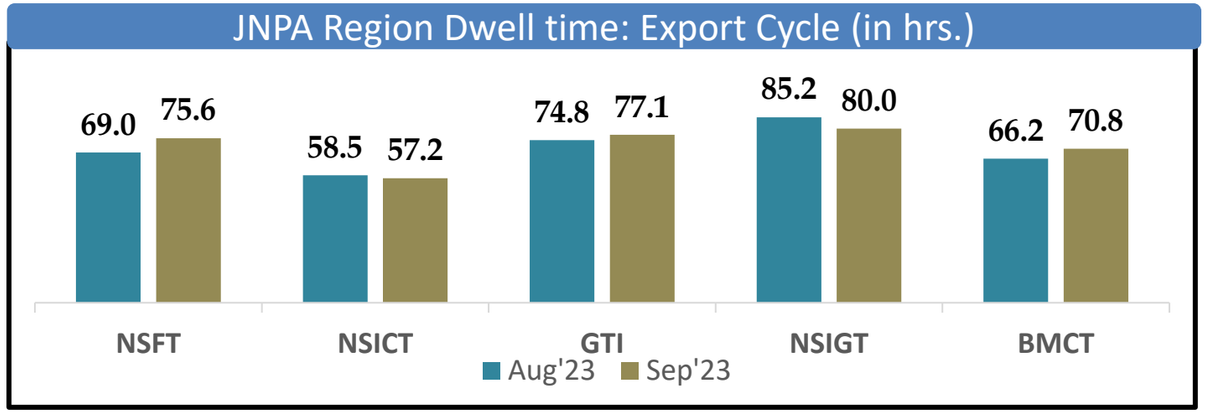
JNPA Import cycle Trend

The average import cycle dwell time of JNPA region port terminals for Sep'23 is 17.1 hrs



JNPA Export cycle Trend

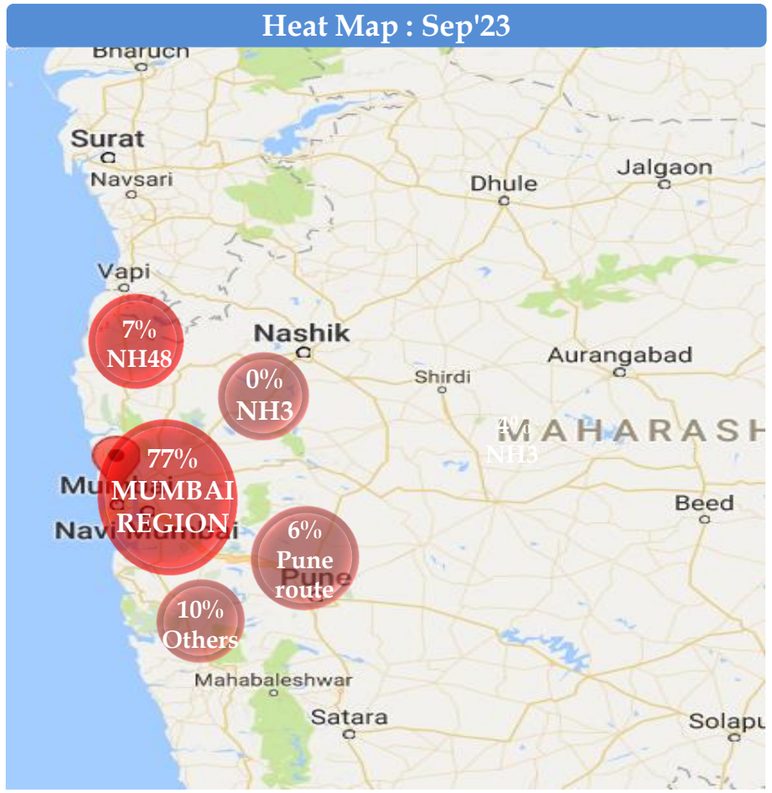
The average export cycle dwell time of JNPA region port terminals for Sep'23 is 71.9 hrs



ANNEXURE

Container movement around JNPA Port terminal region via Truck

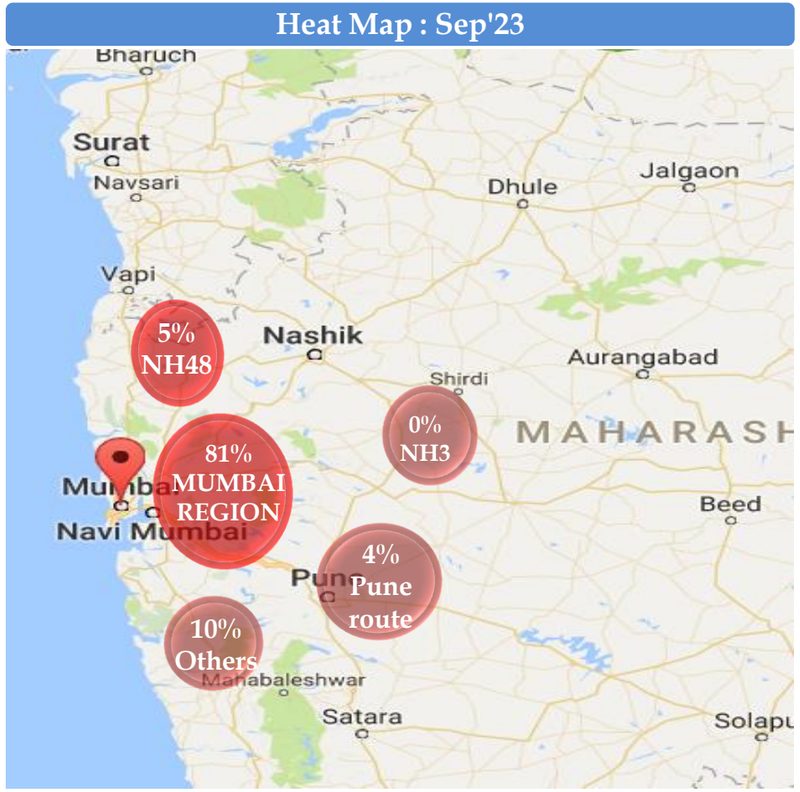
HEAT MAP : GTI Port Terminal



Region	Aug'23	Sep'23
Mumbai region	84%	77%
NH3	0%	0%
Pune	2%	6%
NH48	4%	7%
others	10%	10%

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

HEAT MAP : NSFT Port Terminal

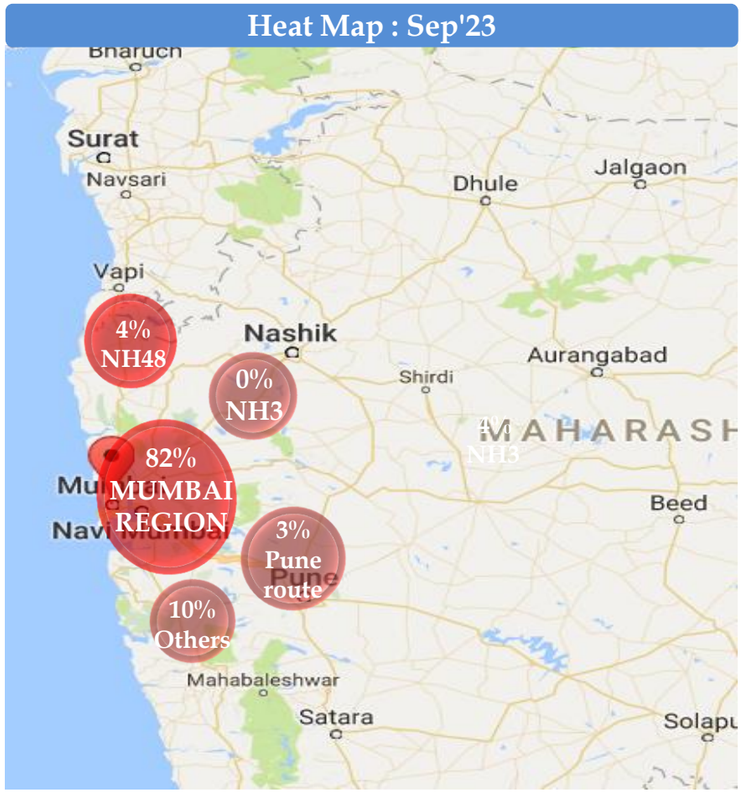


Region	Aug'23	Sep'23
Mumbai region	86%	81%
NH3	0%	0%
Pune	2%	4%
NH48	2%	5%
others	10%	10%

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

Container movement around JNPA Port terminal region via Truck

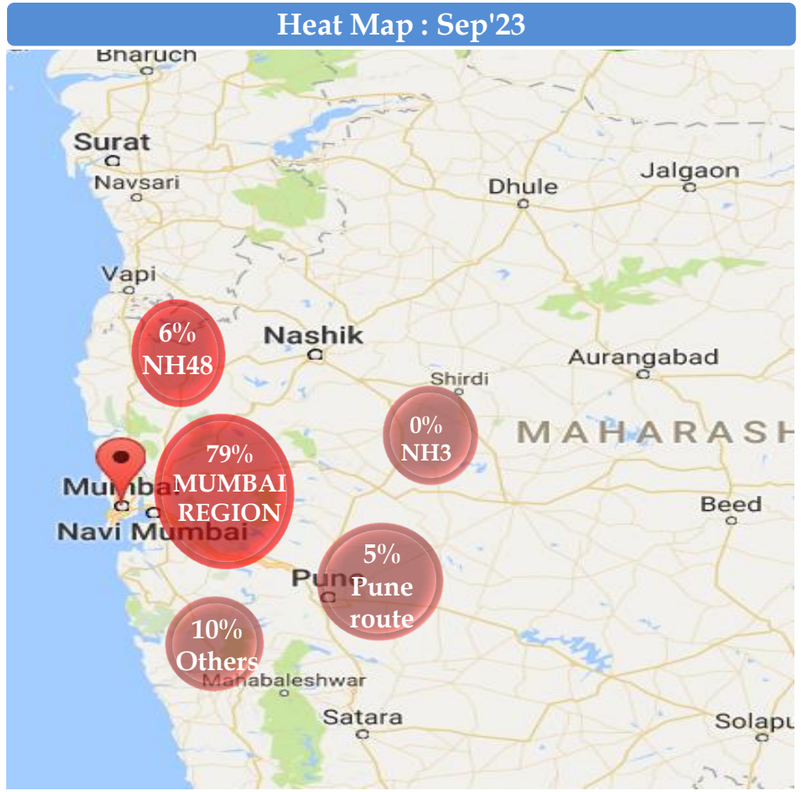
HEAT MAP : NSIGT Port Terminal



Region	Aug'23	Sep'23
Mumbai region	85%	82%
NH3	0%	0%
Pune	2%	3%
NH48	3%	4%
others	10%	10%

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

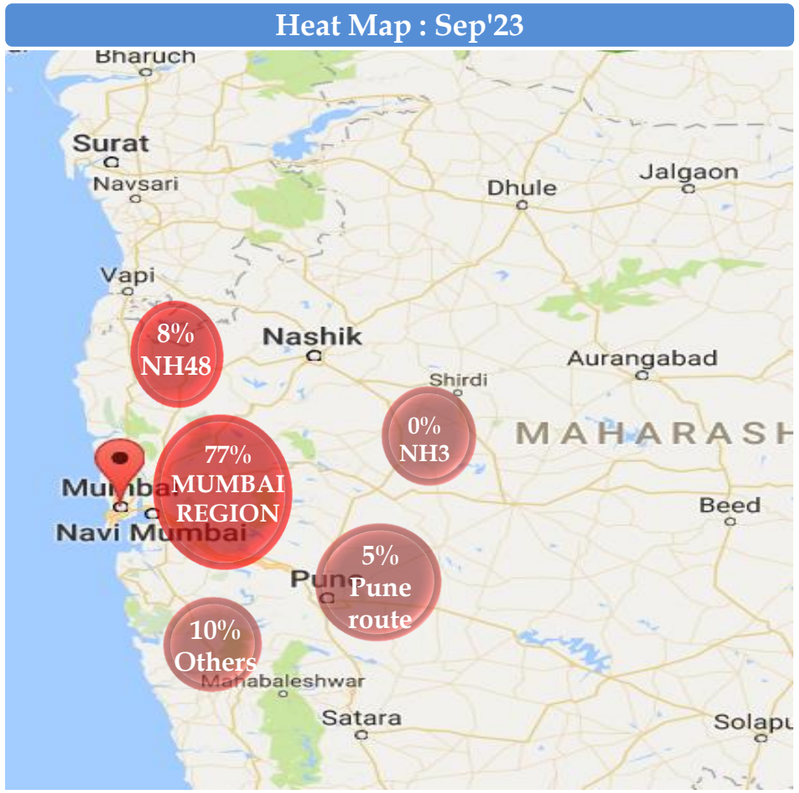
HEAT MAP : NSICT Port Terminal



Region	Aug'23	Sep'23
Mumbai region	83%	79%
NH3	0%	0%
Pune	2%	5%
NH48	3%	6%
others	12%	10%

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

HEAT MAP : BMCT Port Terminal



Region	Aug'23	Sep'23
Mumbai region	84%	77%
NH3	0%	0%
Pune	3%	5%
NH48	3%	8%
others	10%	10%

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

CFS Delivery Time Analysis – All CFS in Mumbai to JNPA Port

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

CFS Out – Port In (Export Cycle) – Sep'23 (in hrs)

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
Gateway Distriparks CFS, Navi Mumbai	3.5	3.8	2.5	3.3	8.0
Punjab Conware CFS, Navi Mumbai	3.9	2.3	2.8	2.8	7.2
JWC Logistics Park CFS	4.8	3.4	3.1	3.7	8.8
Dronagiri Rail Terminal CFS, Navi Mumbai	2.6	2.1	2.3	2.7	7.8
Navkar Corporation Yard 2 CFS, Panvel	3.6	6.5	4.1	3.8	8.8
Vaishno Logistics CFS, Navi Mumbai	7.4	18.6	3.8	3.9	10.0
Speedy Multimode CFS, JNPT	2.8	3.3	2.6	2.4	7.4
Navkar Corporation Yard 3 CFS, Panvel	2.6	4.9	3.3	3.5	10.3
Ashte Logistics CFS, Panvel	3.9	3.9	2.4	4.1	10.7
SBW Logistics CFS, Navi Mumbai	-	7.3	5.1	-	14.1
Maharashtra State Corp CFS	3.5	14.8	2.3	2.8	9.0
International Cargo Terminal CFS	4.5	2.8	3.1	2.9	9.4
Seabird CFS, Navi Mumbai	3.1	3.8	2.9	2.7	9.8
Apollo Logisolutions CFS, Panvel	2.9	3.7	3.6	3.0	6.8
Ameya Logistics CFS, Navi Mumbai	3.2	6.0	2.5	3.8	9.7
AllCargo Logistics	3.1	3.5	2.8	2.8	6.8
Ocean Gate CFS, Panvel	4.6	2.8	3.4	4.0	9.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	4.7	2.2	2.8	3.1	8.0
Kerry Indev Logistics Pvt Ltd CFS	2.9	4.7	3.1	4.4	10.5
APM (Maersk India) CFS, Navi Mumbai	3.1	4.4	4.7	7.9	4.4

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) – Sep'23 (in hrs)

CFS	NSFT	GTI	NSICT	NSIGT	BMCT
APM (Maersk India) CFS, Navi Mumbai	2.8	2.5	2.0	2.1	2.3
International Cargo Terminal CFS	1.5	1.8	1.6	1.6	1.7
Ameya Logistics CFS, Navi Mumbai	2.0	5.1	2.4	2.4	2.6
AllCargo Logistics	2.6	3.2	3.4	2.8	3.4
Kerry Indev Logistics Pvt Ltd CFS	1.7	2.4	3.0	2.3	2.6
Navkar Corporation Yard 3 CFS, Panvel	3.9	2.9	2.7	2.9	3.4
Seabird CFS, Navi Mumbai	3.3	3.9	2.9	3.5	2.9
Ashte Logistics CFS, Panvel	2.5	2.3	2.2	2.2	2.2
Dronagiri Rail Terminal CFS, Navi Mumbai	13.5	3.1	21.5	2.6	1.9
Navkar Corporation Yard 1 CFS, Panvel	3.1	3.6	2.6	2.9	3.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0	2.3	2.1	2.2	2.1
Maersk Annex (APM)CFS, Navi Mumbai	2.4	1.9	2.1	2.2	2.0
Speedy Multimode CFS, JNPT	1.6	1.7	1.6	1.8	1.5
Apollo Logisolutions CFS, Panvel	3.0	9.0	4.2	3.4	4.4
Navkar Corporation Yard 2 CFS, Panvel	2.9	3.0	3.2	2.8	3.6
Punjab Conware CFS, Navi Mumbai	1.7	1.9	1.8	2.2	1.8
Vaishno Logistics CFS, Navi Mumbai	2.0	3.2	2.6	2.1	2.0
JWC Logistics Park CFS	2.2	2.2	2.3	2.2	2.7
SBW Logistics CFS, Navi Mumbai	3.3	8.7	4.2	3.5	5.0
Ocean Gate CFS, Panvel	2.5	3.2	2.8	2.8	3.0

JNPA Region : Cluster Analysis

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

CFS Cluster : GTI Terminal

GTI terminal for month of Sep'23				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	3.3
Cluster 2	6	13	-	-
Cluster 3	6	11	-	3.0
Cluster 4	1	13	3.2	18.6
Cluster 5	2	25	2.7	3.1
Cluster 6	6	25	2.9	4.7
Cluster 7	4	12	-	-
Cluster 8	1	34	8.7	7.3

CFS Cluster : NSFT Terminal

NSFT terminal for month of Sep'23				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.6	2.8
Cluster 2	6	13	-	-
Cluster 3	6	11	-	3.3
Cluster 4	1	13	2.0	7.4
Cluster 5	2	25	2.3	4.7
Cluster 6	6	25	3.0	2.9
Cluster 7	4	12	-	-
Cluster 8	1	34	3.3	-

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**

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 Sep'23				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.6	2.6
Cluster 2	6	13	-	-
Cluster 3	6	11	-	2.5
Cluster 4	1	13	2.6	3.8
Cluster 5	2	25	2.6	3.2
Cluster 6	6	25	2.8	3.3
Cluster 7	4	12	-	-
Cluster 8	1	34	4.2	5.1

CFS Cluster : NSIGT Terminal

NSIGT terminal for month of Sep'23				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.8	2.4
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	2.7
Cluster 4	1	13	2.1	3.9
Cluster 5	2	25	2.5	3.9
Cluster 6	6	25	2.8	3.8
Cluster 7	4	12	-	-
Cluster 8	1	34	3.5	-

CFS Cluster : BMCT Terminal

BMCT terminal for month of Sep'23				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.5	7.4
Cluster 2	6	13	-	-
Cluster 3	6	11	2.0	8.4
Cluster 4	1	13	2.0	10.0
Cluster 5	2	25	2.9	8.9
Cluster 6	6	25	3.2	10.3
Cluster 7	4	12	-	-
Cluster 8	1	34	5.0	14.1

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	NSFT	NSIGT	NSICT	Overall
Agra	23.0	18.4	60.7	60.7	-	36.9
Ankaleshwar	42.0	27.1	57.2	57.2	-	34.5
Ballabhgarh	336.0	246.9	-	-	-	314.0
Bangalore	-	20.3	-	-	-	20.3
Baroda	-	-	42.0	42.0	-	42.0
Boisar	49.3	21.8	67.7	67.7	46.0	61.9
Dadri	27.8	-	40.0	40.0	32.2	31.5
Daulatabad	34.7	38.0	16.7	16.7	22.2	25.6
Faridabad	192.4	210.9	131.3	131.3	199.8	199.8
Guhati	387.5	316.1	460.6	460.6	145.2	320.4
Indore	124.8	16.2	51.6	51.6	51.3	52.6
Jaipur	35.8	15.4	69.4	69.4	-	36.7
Kanpur	46.4	34.4	108.2	108.2	60.6	68.4
Khodiyar	70.7	30.6	41.5	41.5	63.7	42.0
Ludhiana	64.0	39.1	422.1	422.1	31.7	34.3
Malanpur	89.4	36.5	43.9	43.9	28.3	31.3
Mandideep	77.5	-	32.1	32.1	12.7	27.8
Moradabad	7.1	17.3	22.4	22.4	62.6	20.2
Nagpur	56.7	13.5	37.4	37.4	38.1	42.6
Navi Mumbai	13.9	23.4	14.8	14.8	15.0	14.5
Pantnagar	-	-	18.2	18.2	-	18.2
Patparganj	46.5	37.5	-	-	-	41.4
Raipur	-	-	44.8	44.8	-	44.8
Sanatnagar	27.5	-	28.2	28.2	-	27.8
Thimmapur	164.5	-	206.9	206.9	194.8	199.5
Tughlakabad	34.3	-	32.4	32.4	36.9	32.7

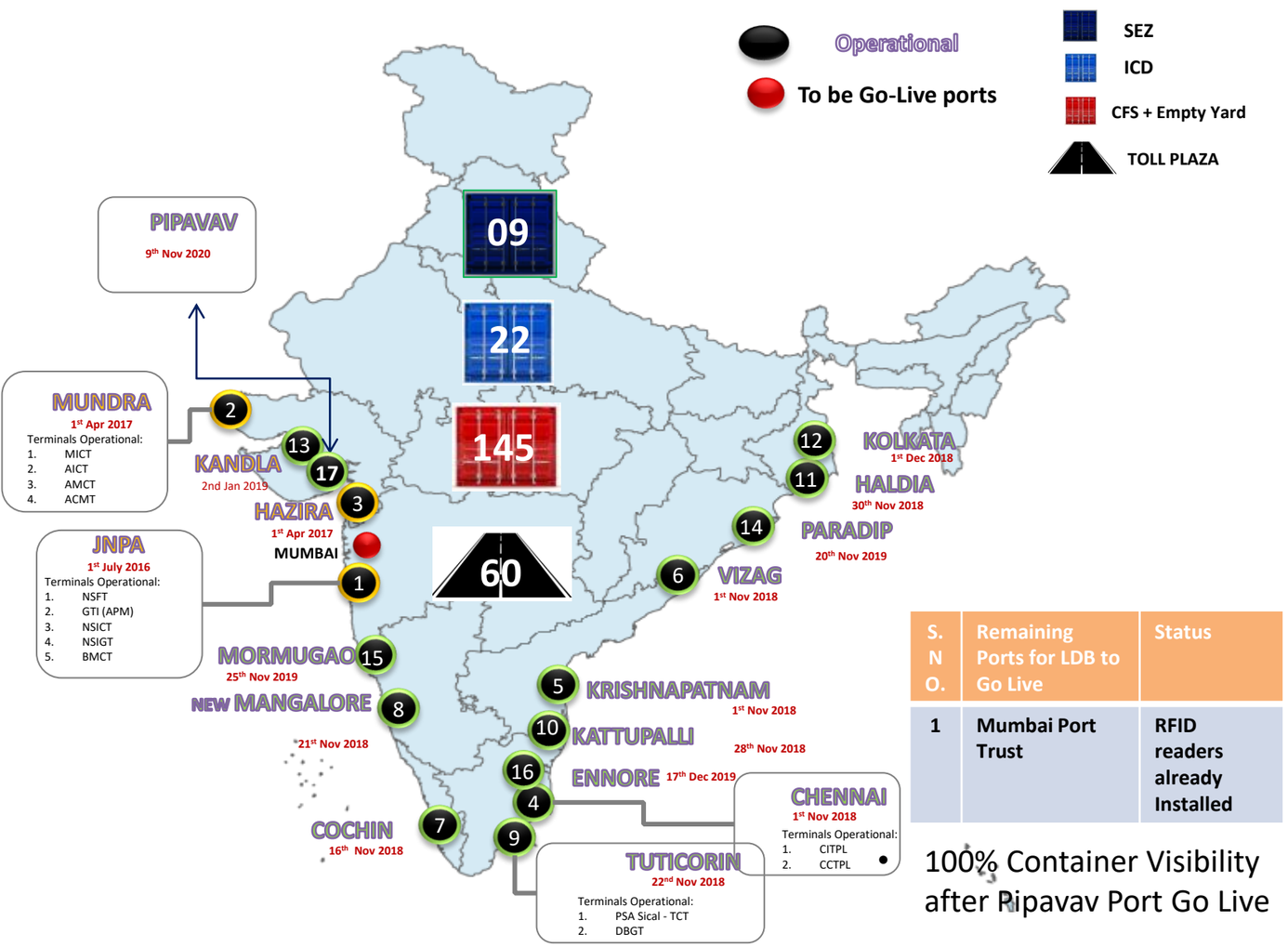
JNPA Region : Destination-wise Dwell Time – Import

The below tables depict the Port Dwell Time Performance at JNPA Port for Truck bound containers in Import Cycle based on the next destination CFS:

Destination-wise Dwell Time (in hrs) – Truck

CFS	BMCT	GTI	NSFT	NSIGT	NSICT	Overall
AllCargo Logistics	13.0	-	7.8	7.8	8.4	10.4
Ameya Logistics CFS, Navi Mumbai	16.7	-	14.0	14.0	15.1	15.2
APM (Maersk India) CFS, Navi Mumbai	15.2	10.1	10.6	10.6	12.1	11.9
Apollo Logisolutions CFS, Panvel	12.9	12.3	15.1	15.1	20.7	14.6
Ashte Logistics CFS, Panvel	13.2	10.5	12.1	12.1	12.9	12.2
Balmer & Lawrie CFS, Navi Mumbai	19.6	13.2	10.2	10.2	11.4	14.0
Continental Warehousing CFS, Navi Mumbai	15.1	13.6	17.5	17.5	16.7	15.9
CWC Impex Park	14.6	11.6	13.2	13.2	16.6	13.4
Dronagiri Rail Terminal CFS, Navi Mumbai	19.6	23.4	22.1	22.1	-	20.8
EFC Logistics	15.3	12.4	14.5	14.5	15.8	14.3
Gateway Distriparks CFS, Navi Mumbai	15.7	13.4	13.8	13.8	17.0	14.7
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	-	12.5	12.5	15.0	13.4
JWC Logistics Park CFS	15.4	10.4	11.2	11.2	13.1	12.2
Kerry Indev Logistics Pvt Ltd CFS	22.5	16.2	19.2	19.2	19.3	18.1
Maharashtra State Corp CFS	21.3	13.7	46.0	46.0	19.2	21.7
Navkar Corporation	18.0	14.9	9.4	9.4	13.7	14.8
Ocean Gate CFS, Panvel	22.8	11.9	12.8	12.8	14.3	15.3
Sarveshwar Logistics	14.8	11.1	11.4	11.4	13.3	12.5
SBW Logistics CFS, Navi Mumbai	32.3	-	22.0	22.0	-	30.3
Seabird CFS, Navi Mumbai	15.8	-	15.4	15.4	19.2	17.3
Speedy Multimode CFS, JNPT	14.7	-	12.6	12.6	12.9	13.6
Take Care Logistics	12.3	10.0	14.0	14.0	14.5	12.9
TG Terminals	17.0	-	15.7	15.7	14.6	16.4
Vaishno Logistics CFS, Navi Mumbai	25.1	18.1	17.3	17.3	16.6	18.3

LDB Operations Snapshot



S. NO.	Remaining Ports for LDB to Go Live	Status
1	Mumbai Port Trust	RFID readers already Installed

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

Below mentioned are all the CFS in the respective Clusters :

Cluster 1
(JNPA Area)

- Speedy Multimode CFS,JNPA

Cluster 2
(Bhendkhal area, Khopate road)

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

Cluster 3
Sonari area,JNPA road

- Punjab Conware CFS, Navi Mumbai
- Dronogiri Rail Terminal CFS, Navi Mumbai
- CWC Impex Park CFS, Navi Mumbai
- CWC Dronagiri CFS, Navi Mumbai
- Maharashtra State Corp CFS
- Seabird CFS, Navi Mumbai

Cluster 4
(Chirle area , JNPA road)

- Vaishno Logistics CFS, Navi Mumbai

Cluster 5
(Plaspa area, Coachi kanyakumari Highway)

- JWC Logistics Park CFS
- Ocean Gate CFS, Panvel

Cluster 8
SBW

Cluster 6
(Salva apta rd area, Bangalore highway)

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

Cluster 7
(Patilpada area, Khopate JNPA road)

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

Annexure – Western Region CFS

List of CFS name used in CFS Performance Index

1	Adani CFS Eximyard, Mundra	18	Dronagiri Rail Terminal CFS, Navi Mumbai
2	Saurashtra CFS, Mundra	19	Ocean Gate CFS, Panvel
3	Punjab Conware CFS, Navi Mumbai	20	AllCargo Logistics
4	Hind Terminals Pvt. Ltd. CFS, Mundra	21	LCL Logistics CFS, Pipavav
5	Seabird CFS, Mundra	22	Navkar Corporation Yard 2 CFS, Panvel
6	JWC Logistics Park CFS	23	Contrans Logistic CFS, Pipavav
7	Honey Comb CFS, Mundra	24	Rishi CFS, Mundra
8	International Cargo Terminals (ULA) CFS, Navi Mumbai	25	TG Terminals CFS
9	CWC CFS, Mundra	26	Navkar Corporation Yard 3 CFS, Panvel
10	EFC Logistics India	27	Apollo Logisolutions CFS, Panvel
11	Speedy Multimode CFS, JNPT	28	Ashte Logistics CFS, Panvel
12	MICT CFS, Mundra	29	Navkar Corporation Yard 1 CFS, Panvel
13	APM (Maersk India) CFS, Navi Mumbai	30	Maersk Annex (APM)CFS, Navi Mumbai
14	Sarveshwar CFS	31	JWR CFS
15	Seabird CFS, Hazira	32	Contegrate CWC CFS
16	Landmark CFS, Mundra	33	Vaishno Logistics CFS, Navi Mumbai
17	Seabird CFS, Navi Mumbai		

THANK YOU