



# Logistics Databank Analytics Report

April 2022



## Section 01

### Report Inference

This sections depicts the inference and major highlights of the report

1. Pan India Performance
2. Port Dwell Time Performance – Corridor & Terminal wise Performance
3. Critical Incident Summary
4. Pan India - Port Performance Benchmarking & Performance Index
5. Pan India - CFS Performance Benchmarking & Performance Index
6. Region wise segmentation, Western Region ICD performance and region-wise CFS performance

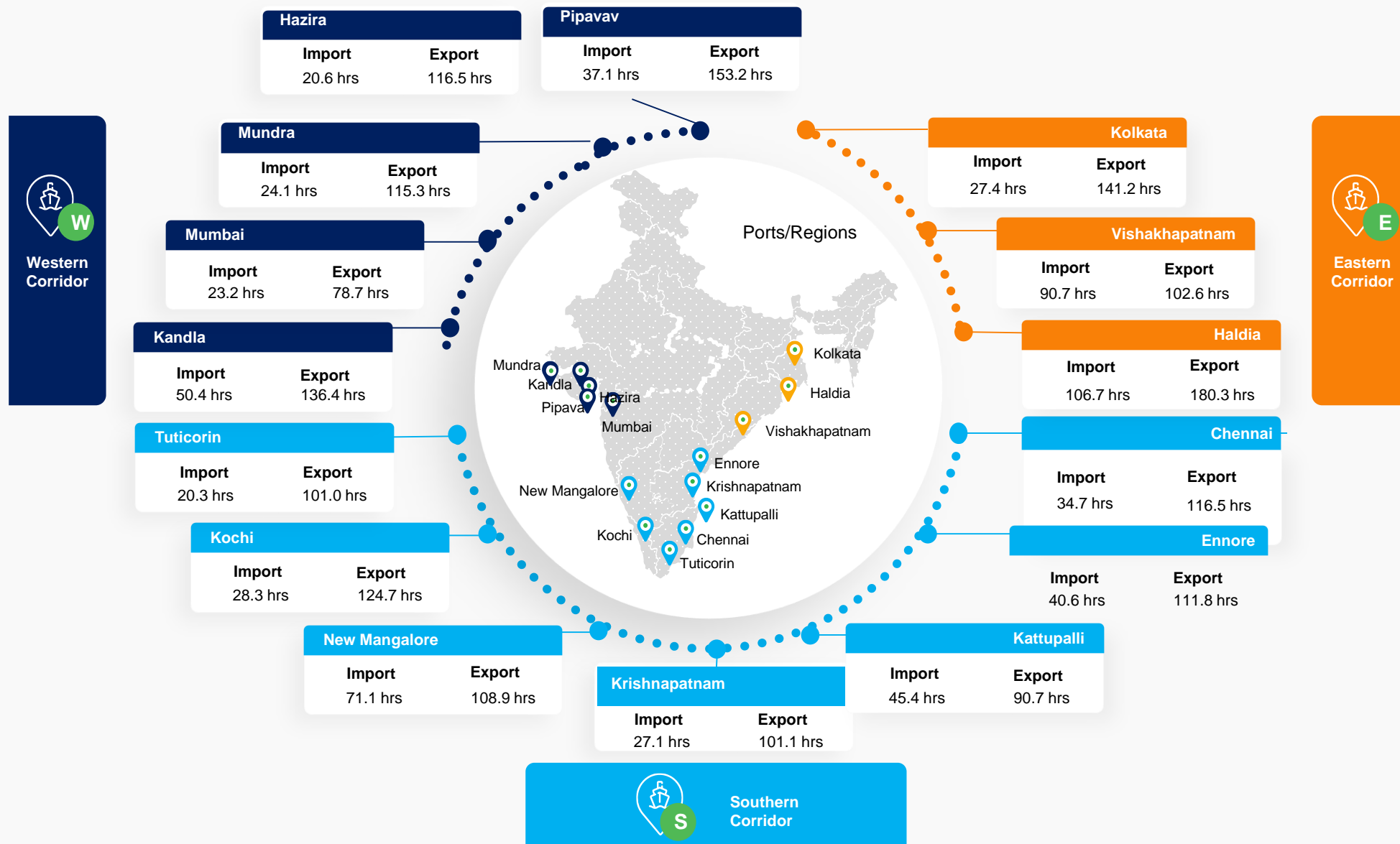
## Section 02

### Annexure

This sections depicts the analysis of Individual Port Terminals region-wise

1. Individual Terminal Performance In Southern Corridor
2. Individual Terminal Performance In Eastern Corridor
3. Individual Terminal Performance In Western Corridor
4. Congestion Analysis
5. Analysis of Container Movement across India

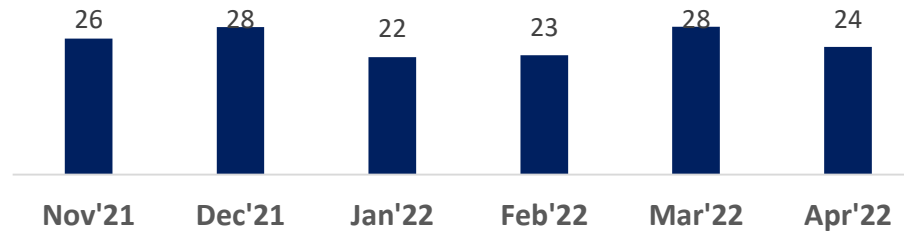
# PAN INDIA Performance Snapshot: April 2022 (Dwell Time)



# Port Dwell Time Performance – Western Corridor (Import Cycle)

## Import Cycle – Dwell Time Performance – Western Corridor (in hrs)

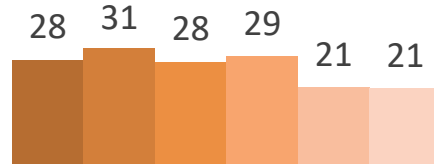
### Western Corridor



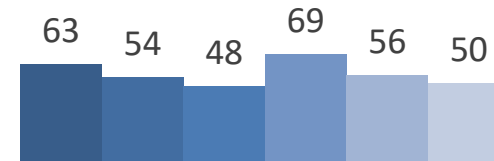
### Port - Wise



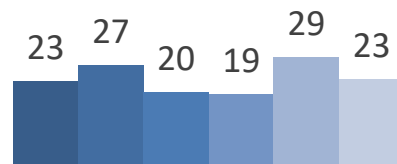
#### Hazira



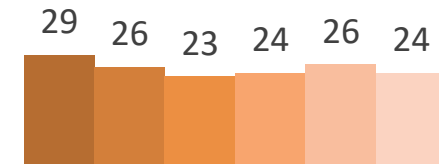
#### Kandla



#### JNPT



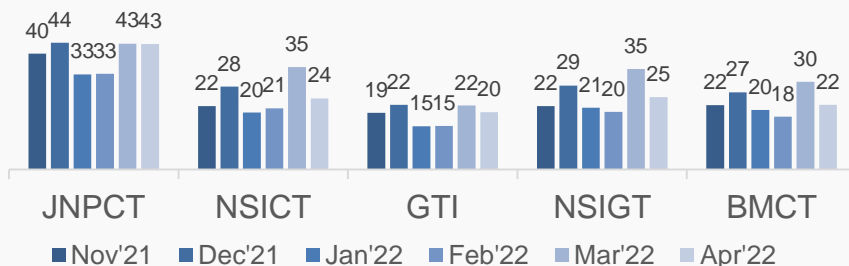
#### Mundra



■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

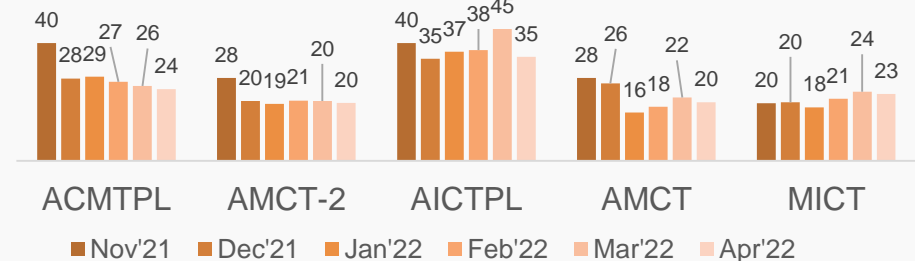
■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

### JNPT - Terminal



■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

### Mundra - Terminal

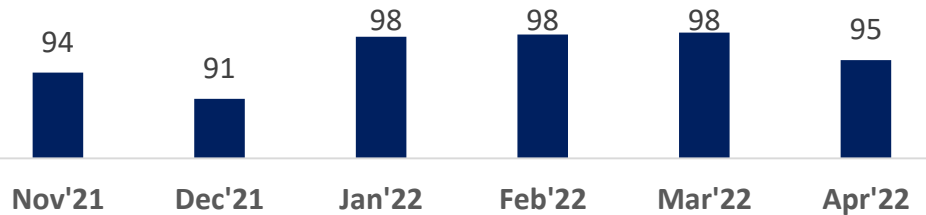


■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

# Port Dwell Time Performance – Western Corridor (Export Cycle)

## Export Cycle – Dwell Time Performance – Western Corridor (in hrs)

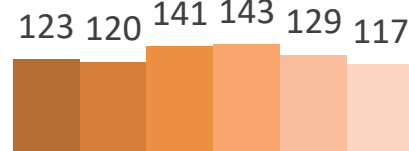
### Western Corridor



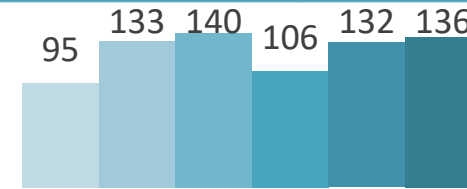
### Port - Wise



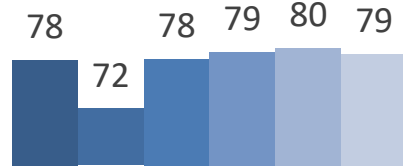
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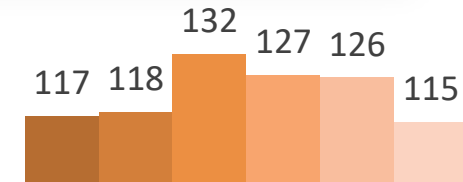
#### Kandla



#### JNPT



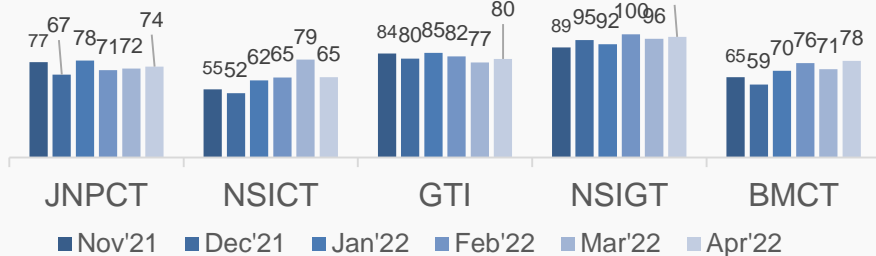
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■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

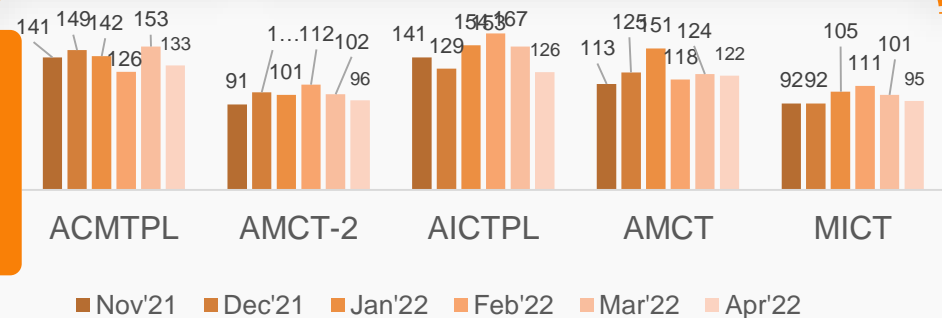
■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

### JNPT - Terminal



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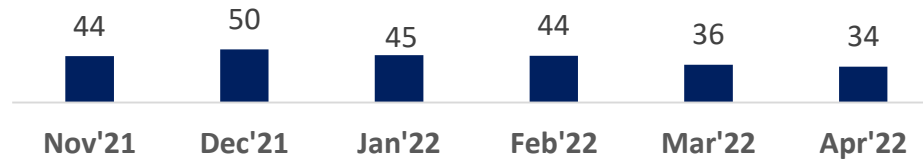


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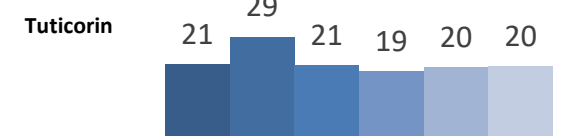
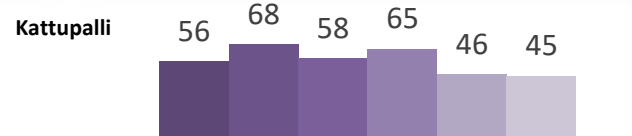
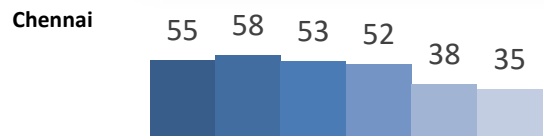
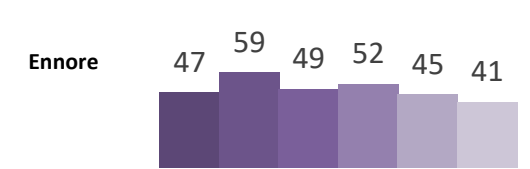
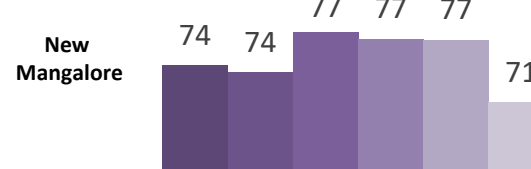
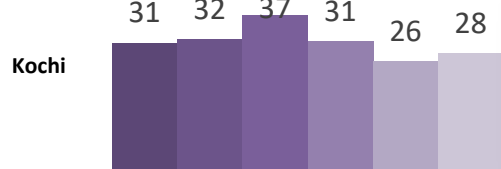
# Port Dwell Time Performance – Southern Corridor (Import Cycle)

## Import Cycle – Dwell Time Performance – Southern Corridor (in hrs)

### Southern Corridor



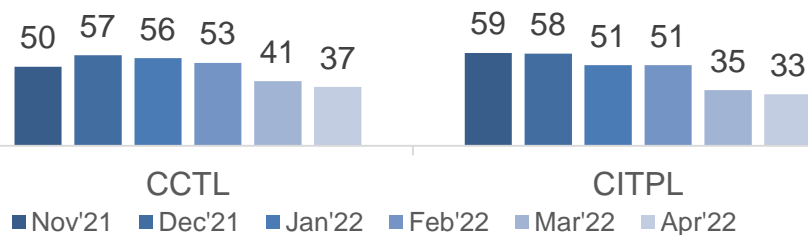
### Port - Wise



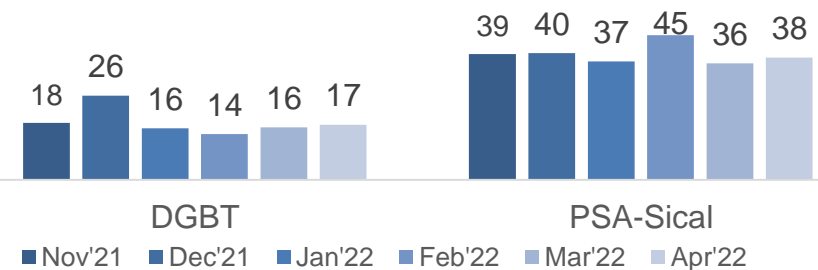
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■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

### Chennai - Terminal



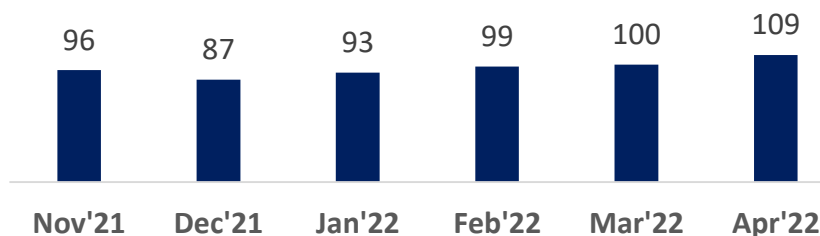
### Tuticorin - Terminal



# Port Dwell Time Performance – Southern Corridor (Export Cycle)

## Export Cycle – Dwell Time Performance – Southern Corridor (in hrs)

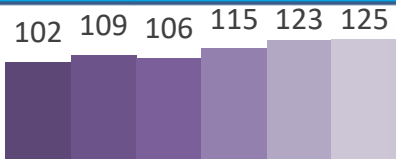
### Southern Corridor



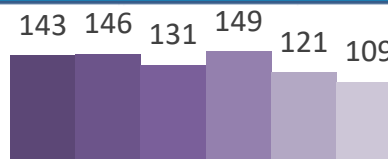
### Port - Wise



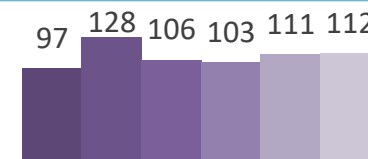
#### Kochi



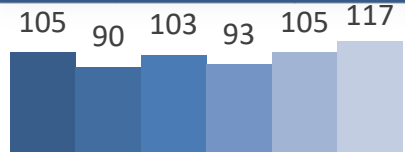
#### New Mangalore



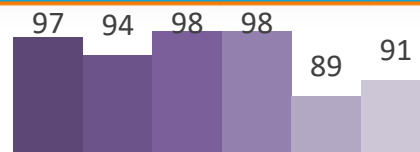
#### Ennore



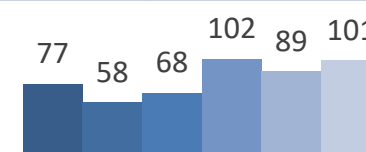
#### Chennai



#### Kattupalli



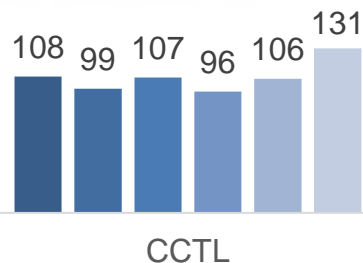
#### Tuticorin



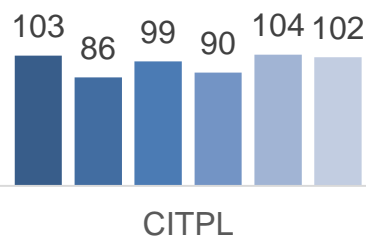
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■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

### Chennai - Terminal



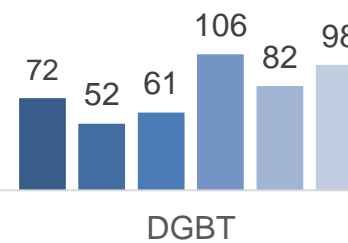
#### CCTL



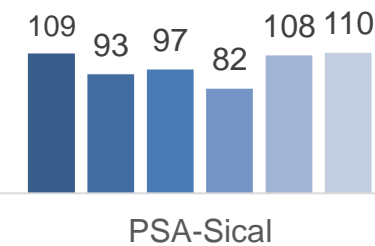
#### CITPL

■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

### Tuticorin - Terminal



#### DGBT



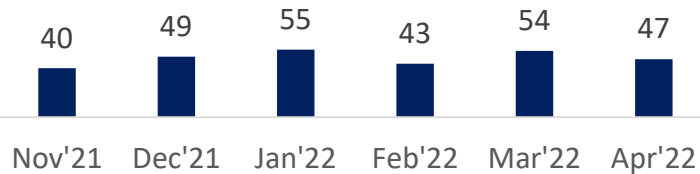
#### PSA-Sical

■ Nov'21 ■ Dec'21 ■ Jan'22 ■ Feb'22 ■ Mar'22 ■ Apr'22

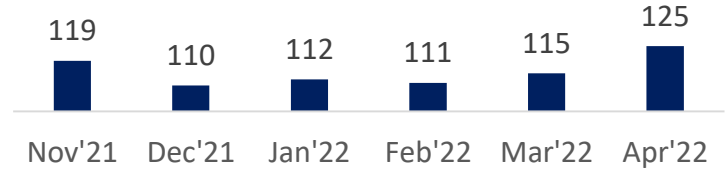
# Port Dwell Time Performance – Eastern Corridor

## Import Cycle (in hrs)

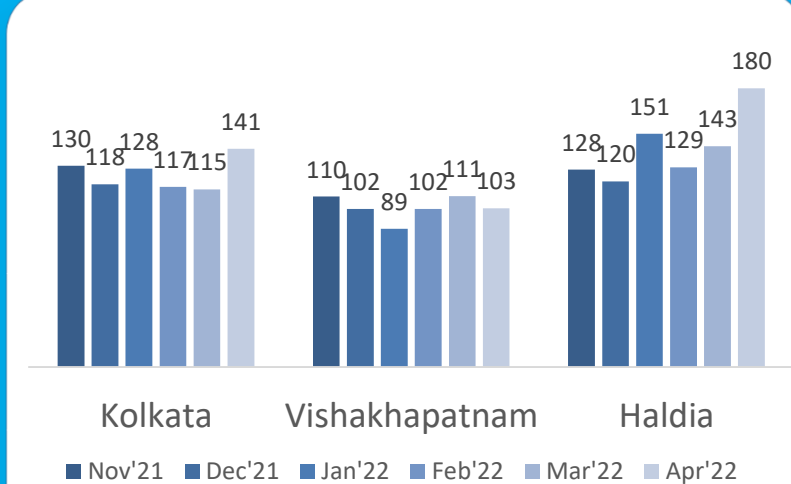
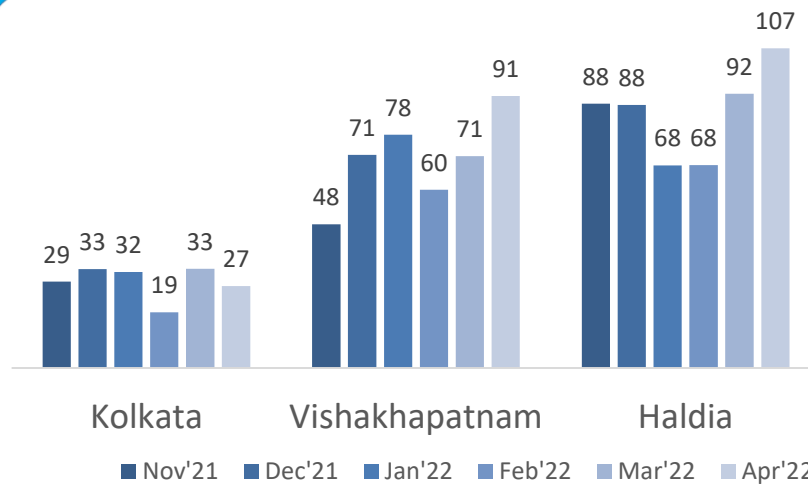
### Eastern Corridor



## Export Cycle (in hrs)



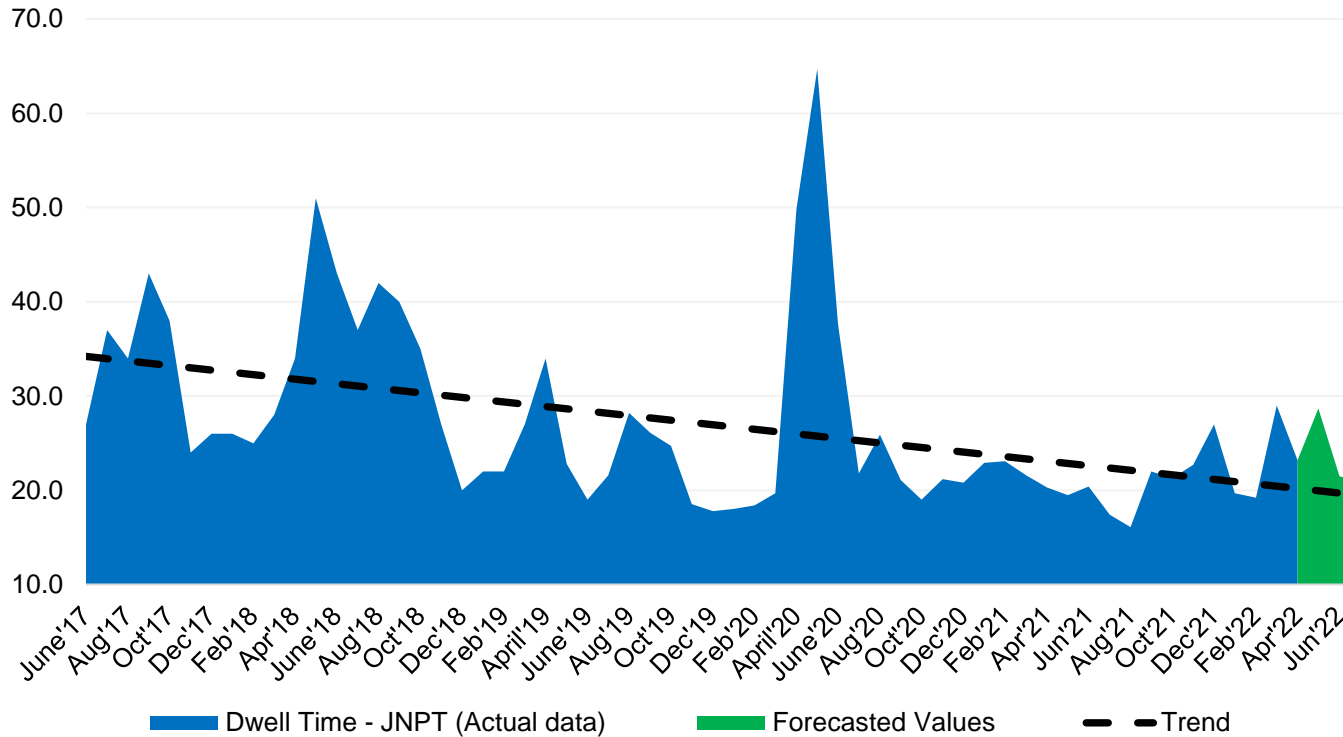
### Port - Wise





# Predictive Analysis : JNPT Port

JNPT Port – Import Cycle



## Observation

### Import Cycle

- It has been observed that the overall trend of dwell time is decreasing.
- Due to the cyclic variations in the monthly data it is expected to reach a local maxima in May'22 and decrease from there on till Jul'22.



Predicted  
Dwell Time (in hrs)

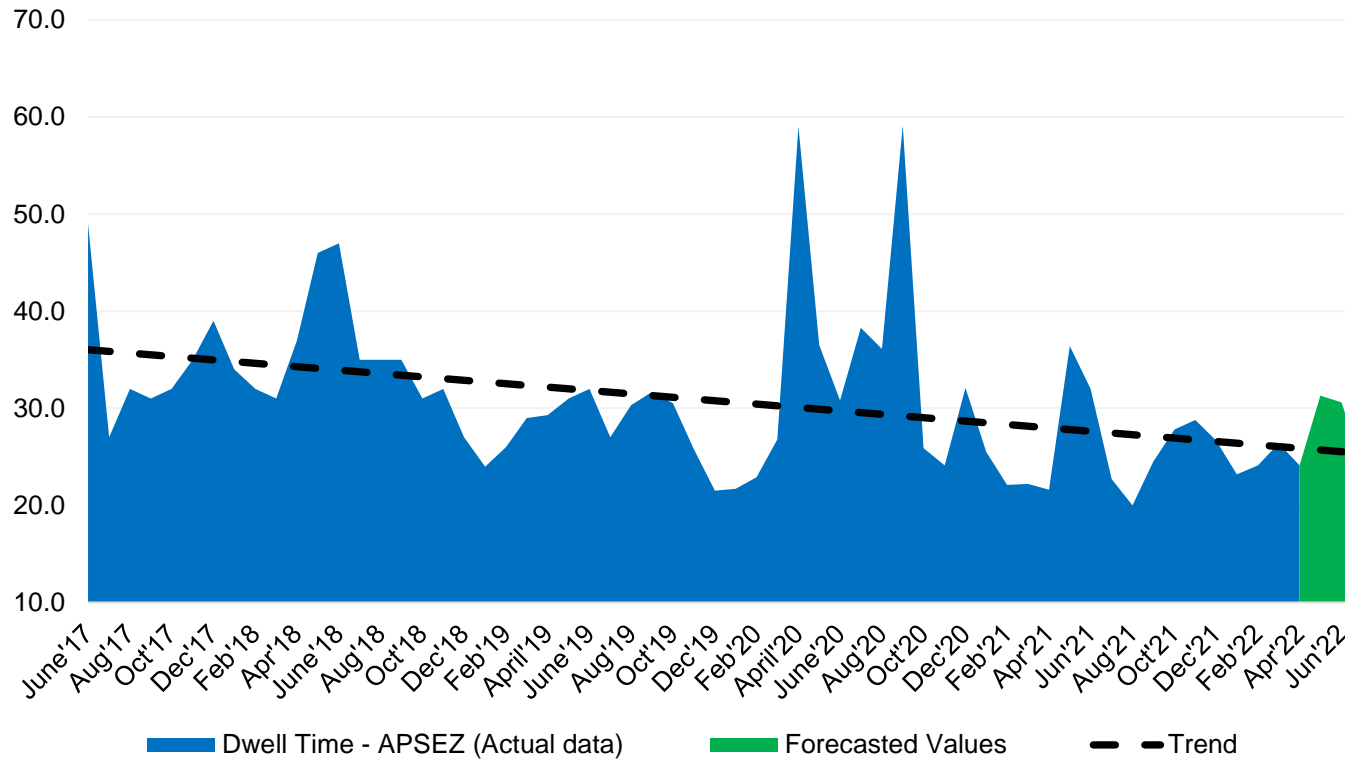
May'22  
28.7

Jun'22  
21.4

Jul'22  
20.9

# Predictive Analysis : Mundra Port

Mundra Port – Import Cycle



## 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 minima in Mar'22 and increase from there on to reach a maxima in the month of May'22.



Predicted  
Dwell Time (in hrs)

May'22

31.3

Jun'22





30.5

Jul'22

24.3

## Western Corridor

- The Overall container handling performance in Western Corridor in Import Cycle has improved by 14% & Export Cycle improved by 3%.
- The container handling performance at CFS has deteriorated by 2%. Also, ICD performance has deteriorated by 1%.

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time	ICD Dwell Time
Apr'22	24.4 hrs 	95.2 hrs 	87.3 hrs 	121.2 hrs 
Mar'22	28.3 hrs	98.1 hrs	85.9 hrs	120.1 hrs

## Southern Corridor

- The Overall container handling performance in Southern Corridor in Import Cycle has improved by 5% & in Export Cycle has deteriorated by 8%.
- The container handling performance at CFS has deteriorated by 7%

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time
Apr'22	34.1 hrs 	108.6 hrs 	106.4 hrs 
Mar'22	35.8 hrs	100.3 hrs	99.4 hrs

## Eastern Corridor

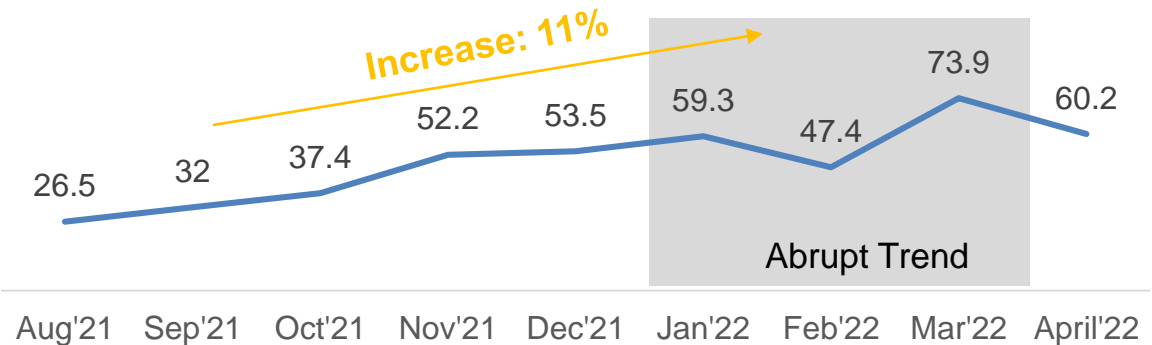
- The Overall container handling performance in Eastern Corridor for Import Cycle has improved by 12% and Export Cycle has deteriorated by 9%.
- The container handling performance at CFS has deteriorated by 10%.

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time
Apr'22	47.0 hrs 	124.9 hrs 	137.4 hrs 
Mar'22	53.6 hrs	114.6 hrs	124.4 hrs

## Observations

- JNPT Rail bound dwell time has been continuously increasing from Aug'21 with the rate of 11% in the import cycle
- In JFM'22 quarter abrupt trend i.e. sudden spike in data was observed

## JNPT Import Cycle Rail Bound Container Dwell Time (in Hrs)



## Further Investigation

Analyzed the Handling time of containers based on their destination. Container handling time of key destinations were analysed to understand due to which region's containers the handling time is increasing

### Rail Bound Dwell time (in hrs.) based of Major Import Destination

Destination City	Jan'22	Feb'22	Mar'22
Nagpur	67.9	66.0	78.5
Hyderabad	100.7	53.2	37.2
Gurugram	94.1	42.5	60.1
Kanpur	75.8	66.5	140.7
Ankleshwar	55.4	53.9	68.8
Tumb	41.7	38.4	56.6
Navi Mumbai	31.3	29.8	42.2
Tughlakabad	41.2	33.9	32.5
Dadri	50.0	34.1	32.3

Containers with these import destinations are taking comparatively higher time to handle

Containers with these import destinations are taking the usually observed time to handle

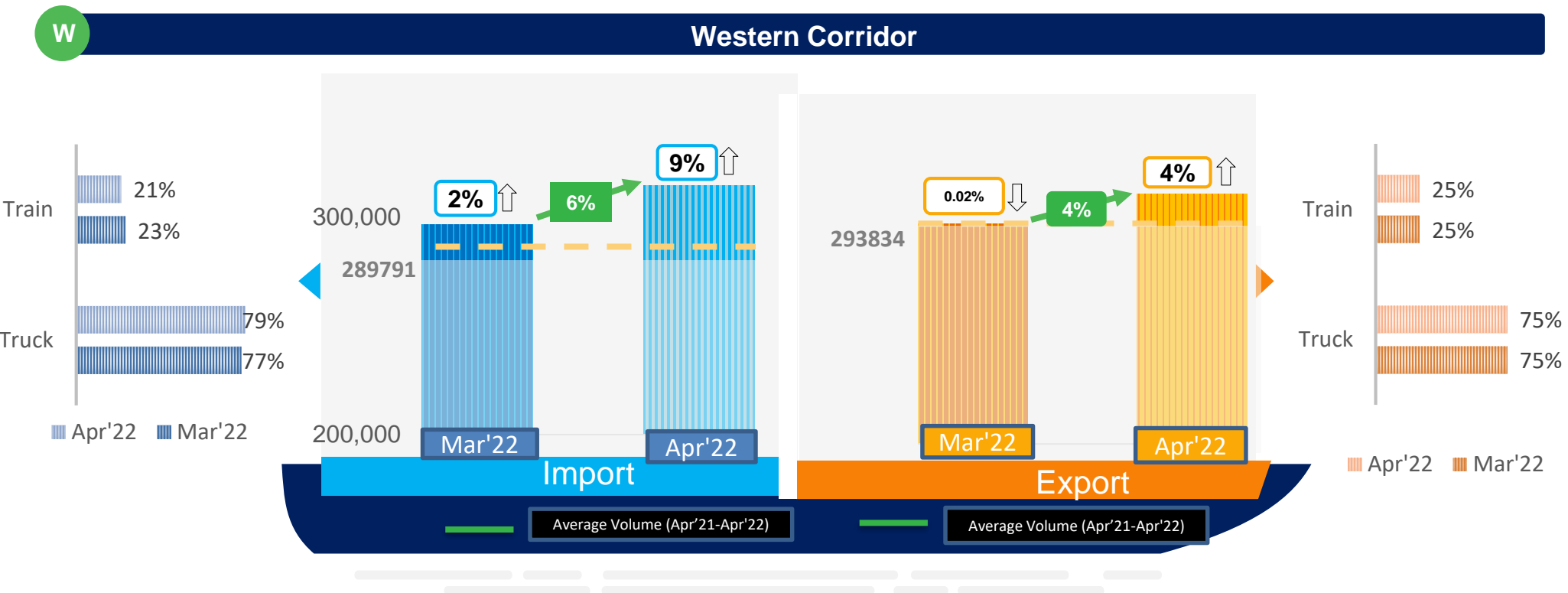


CORONA VIRUS  
ALERT

# COVID – 19 Impact

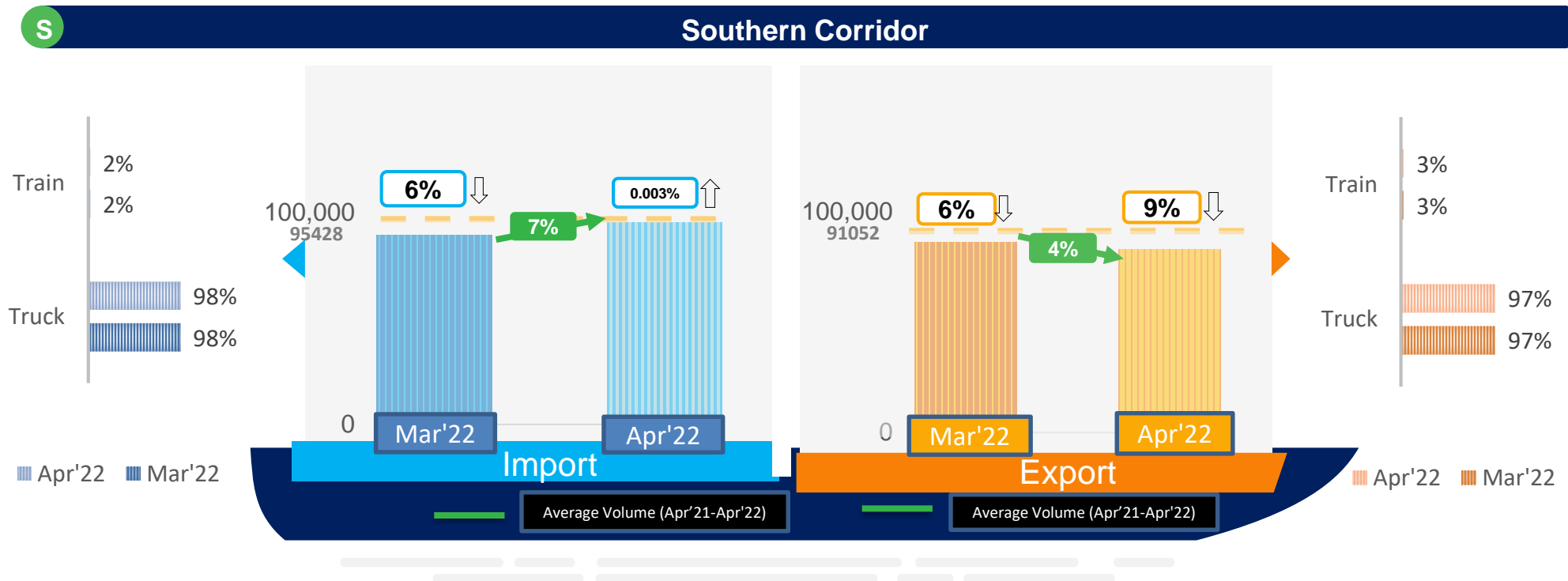
# Covid-19 Impact – Western Corridor

Below graphs depicts the change in volume percentage during the month of Apr'22 w.r.t the last month i.e., Mar'22 and the average EXIM corridor wise volume.



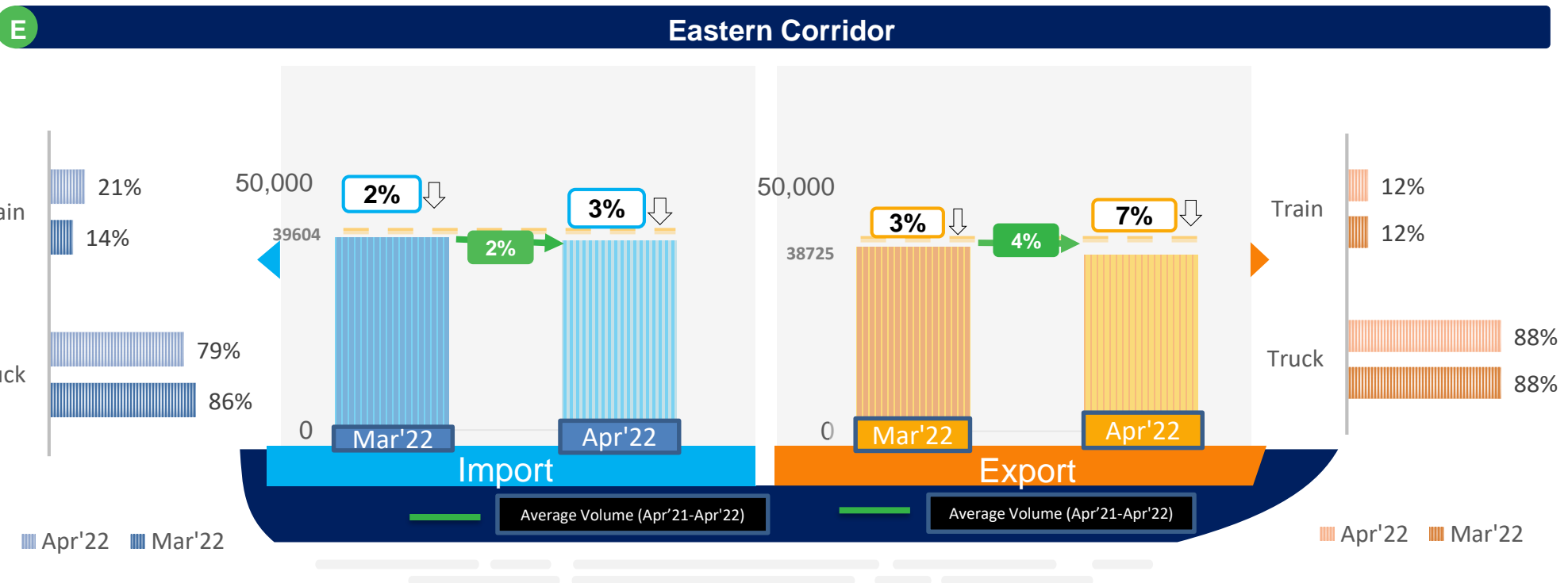
# Covid-19 Impact – Southern Corridor

Below graphs depicts the change in volume percentage during the month of Apr'22 w.r.t the last month i.e., Mar'22 and the average EXIM corridor wise volume.



# Covid-19 Impact – Eastern Corridor

Below graphs depicts the change in volume percentage during the month of Apr'22 w.r.t the last month i.e., Mar'22 and the average EXIM corridor wise volume.

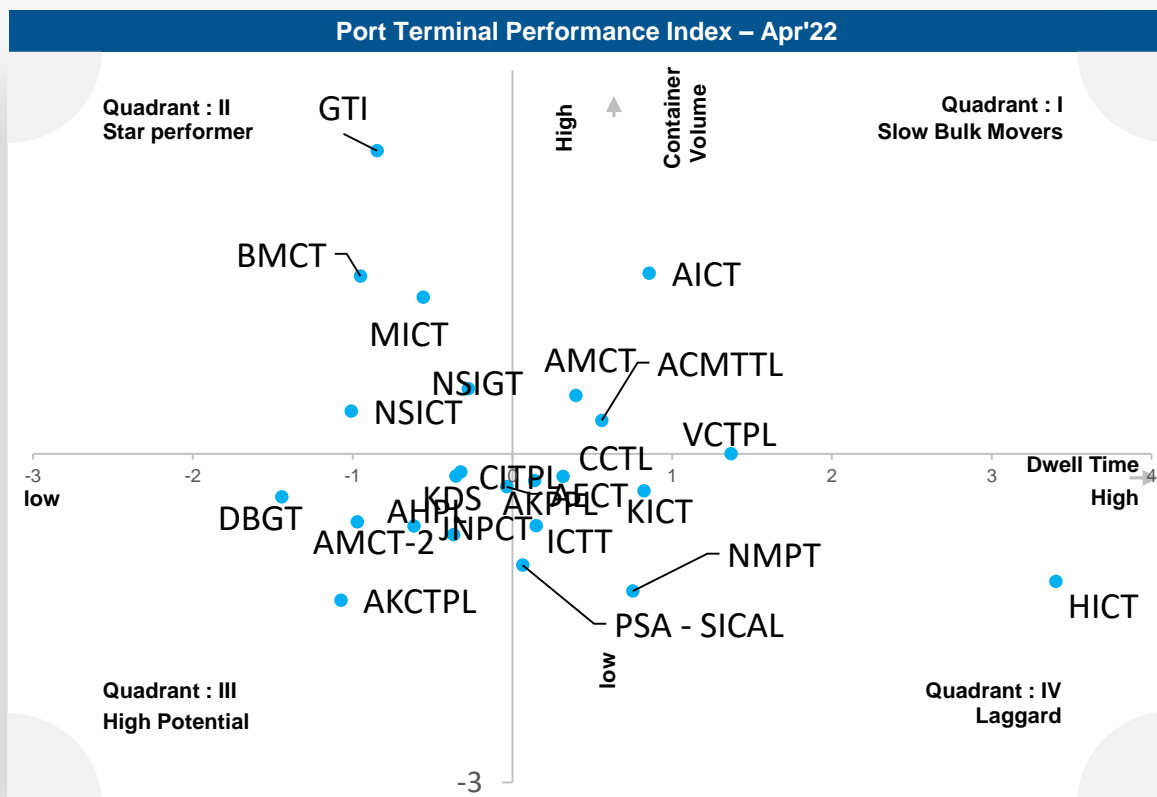




# Pan India - Port Performance Benchmarking & Performance Index

## Performance Benchmarking - Port Terminals

The benchmarking showcase the individual terminal's performance w.r.t Pan India



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

Top Performing Terminal	
Gateway Terminals India (GTI)	
Mar'22	Apr'22
49.2 Hrs	45.6 Hrs.
Low Performing Terminal	
Haldia International Container Terminal (HICT)	
Mar'22	Apr'22
109.3 Hrs	144.0 Hrs

Note: The performance benchmarking is based on performance index

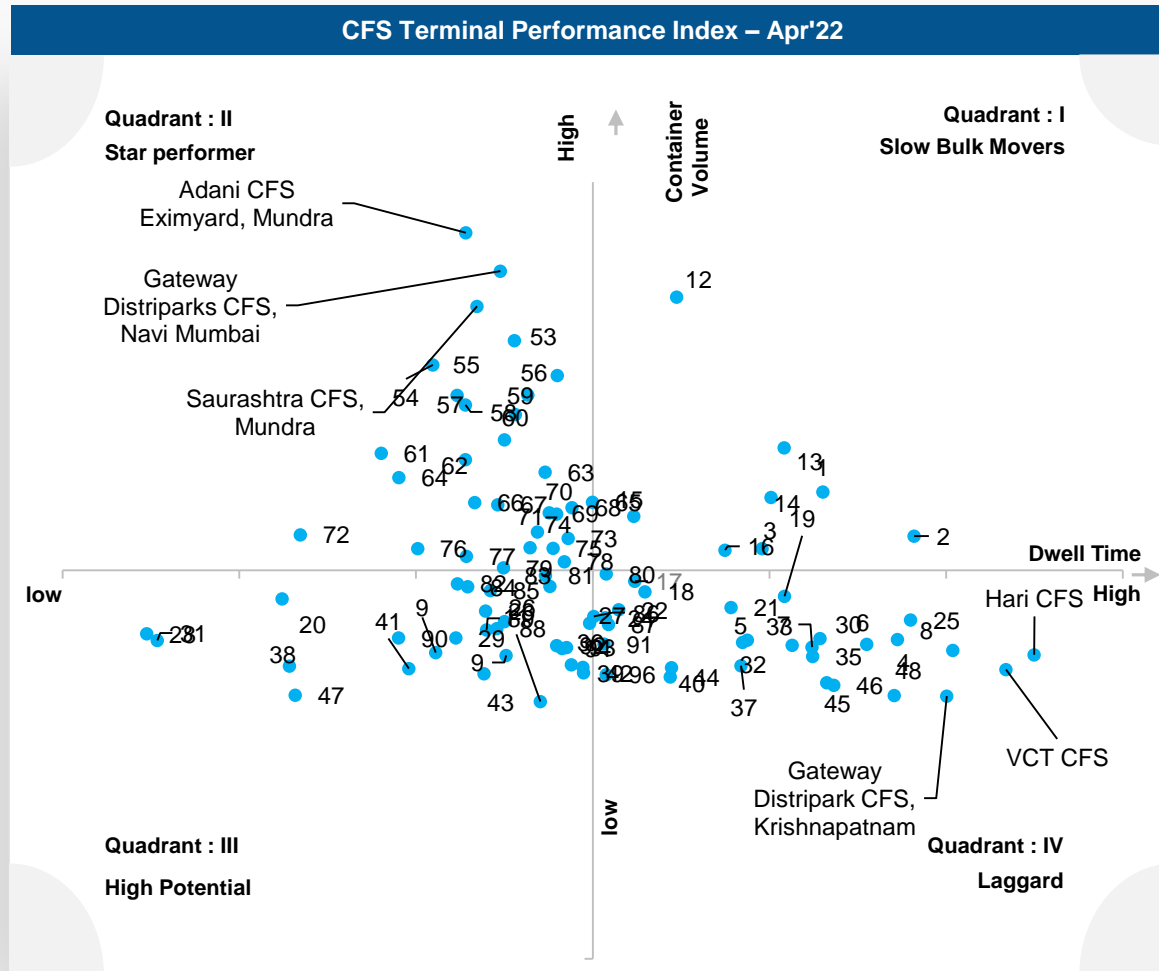
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Mar'22

Performance Index - Summary	
In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume	
<b>Star Performer</b> Consist of entities which have catered relatively high container volume in lower dwell time	<b>Slow Bulk Movers</b> Consist of entities which have catered higher container volume in higher dwell time
<b>High Potential</b> Consist of entities which have catered relatively lower container volume in lower dwell time	<b>Laggard</b> Consist of entities which have catered relatively lower container volume at higher dwell time

# Pan India - CFS Performance Benchmarking & Performance Index

## Performance Benchmarking - CFSs

The benchmarking showcase the individual CFS's performance w.r.t Pan India



Performance benchmarking for CFSs covered under LDB project for Apr'22

Top Three Performing CFSs			
CFS Name	Mar'22	Apr'22	
Adani CFS Eximyard, Mundra	64.6 hrs	82.4 hrs	↓
Gateway Distriparks CFS, Navi Mumbai	90.5 hrs	87.7 hrs	↑
Saurashtra CFS, Mundra	93.1 hrs	84.1 hrs	↑

Bottom Three Performing CFSs			
CFS Name	Mar'22	Apr'22	
Hari CFS	135.3 hrs	168.9 hrs	↓
VCT CFS	127.9 hrs	164.6 hrs	↓
Gateway Distripark CFS, Krishnapatnam	124.0 hrs	155.6 hrs	↓

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

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## Port Dwell Time

IMPORT		Mar'22 (in hrs)	Apr'22 (in hrs)	
	<b>Train</b>	70.6	60.4	↑
	<b>Truck</b>	21.9	20.0	↑
<b>Overall</b>		<b>28.3</b>	<b>24.4</b>	<b>↑</b>

EXPORT		Mar'22 (in hrs)	Apr'22 (in hrs)	
	<b>Train</b>	153.0	146.7	↑
	<b>Truck</b>	89.1	87.1	↑
<b>Overall</b>		<b>98.1</b>	<b>95.2</b>	<b>↑</b>

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

ENTITY		Mar'22 (in hrs)	Apr'22 (in hrs)	
	<b>Inland Container Depot (ICD)</b>	120.1	121.2	↓
	<b>Container Freight Stations (CFS)</b>	85.9	87.3	↓



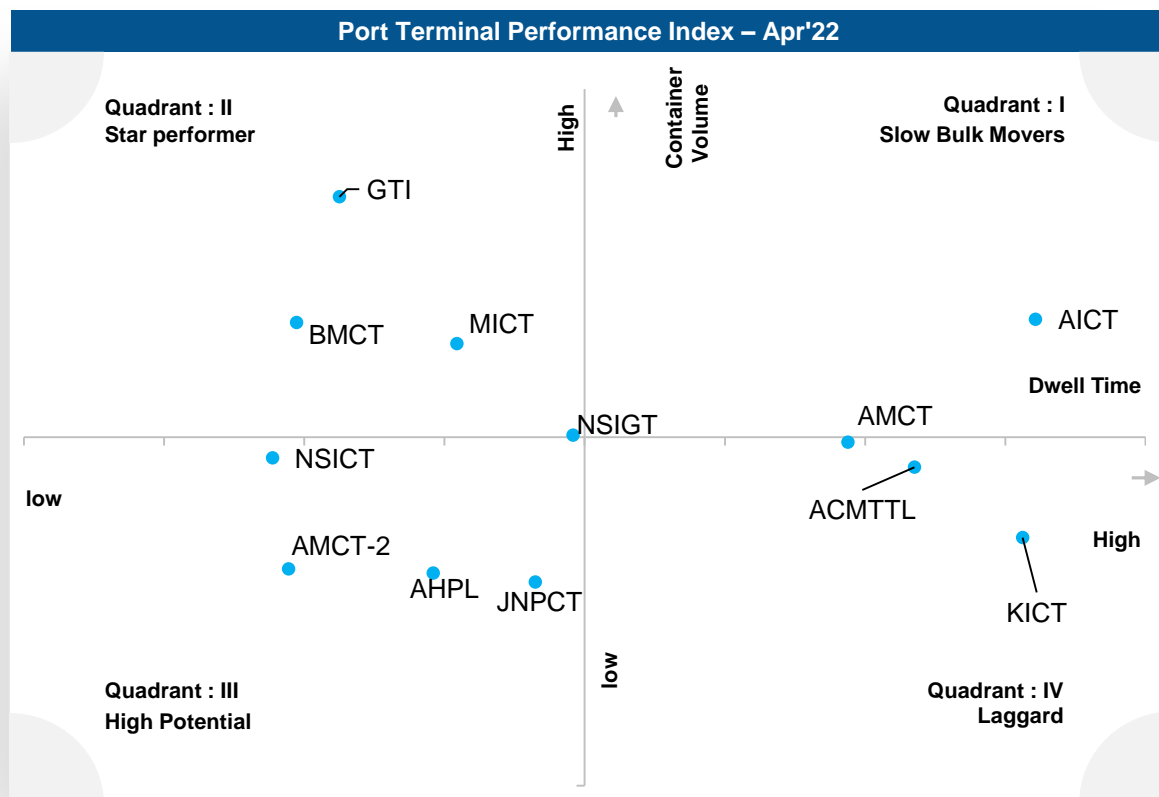
The marked entries showcase increase in performance in comparison to Mar'22



The marked entries showcase decrease in performance in comparison to Mar'22

## Performance Benchmarking - Port Terminals

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



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

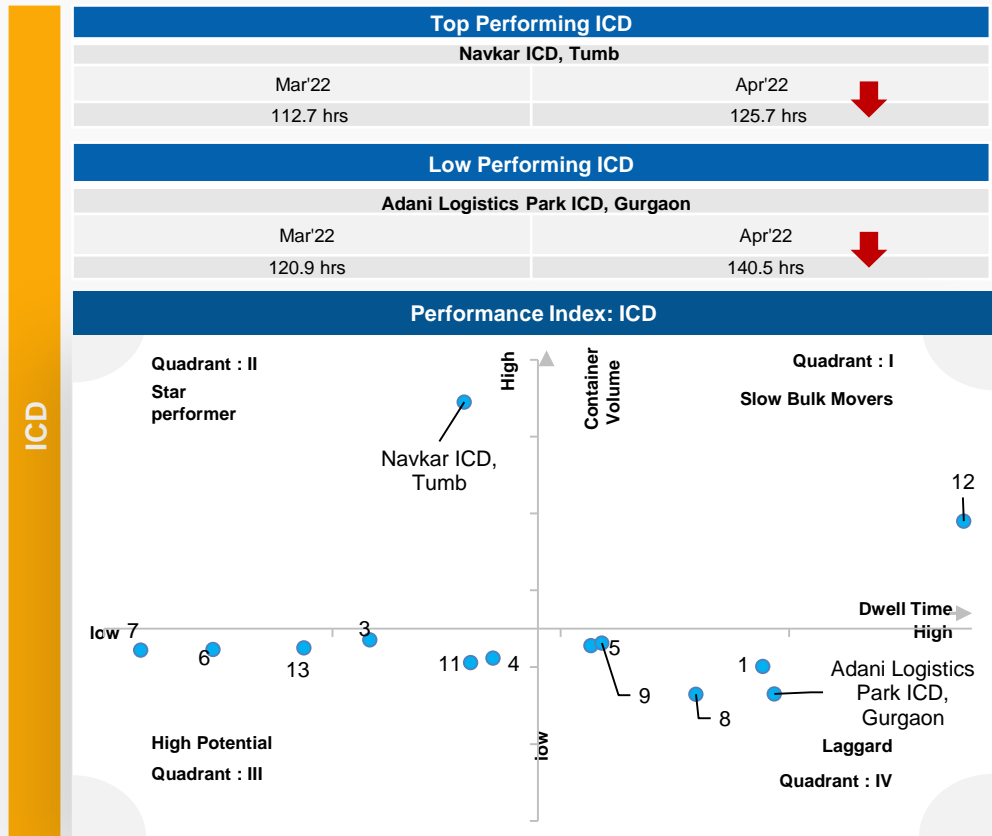
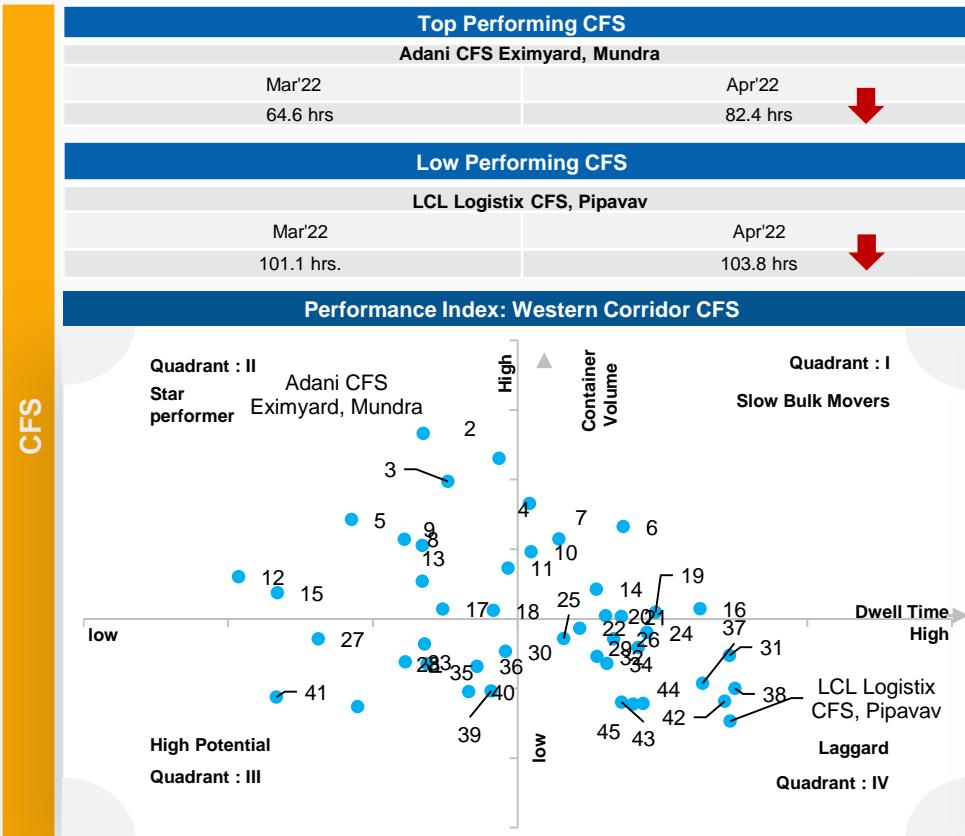
Top Performing Terminal	
Gateway Terminals India (GTI)	
Mar'22	Apr'22
49.2 Hrs	45.6 Hrs.
	↑
Low Performing Terminal	
Kandla International Container Terminal (KICT)	
Mar'22	Apr'22
97.9 Hrs	84.3 Hrs.
	↑

Note: The performance benchmarking is based on performance index

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

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

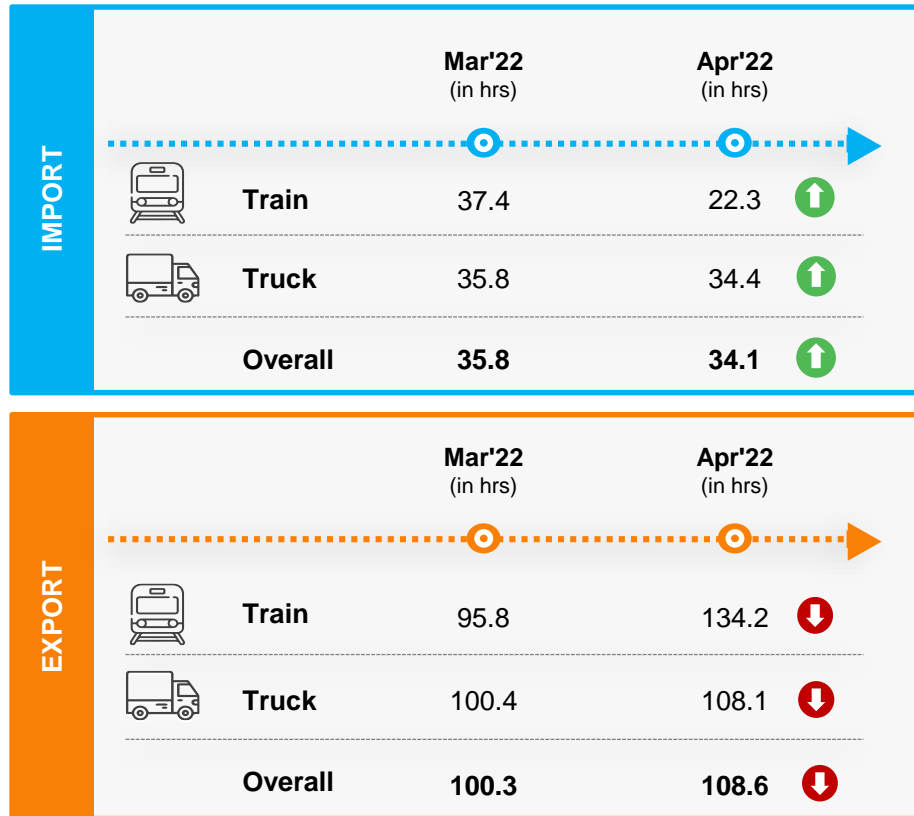


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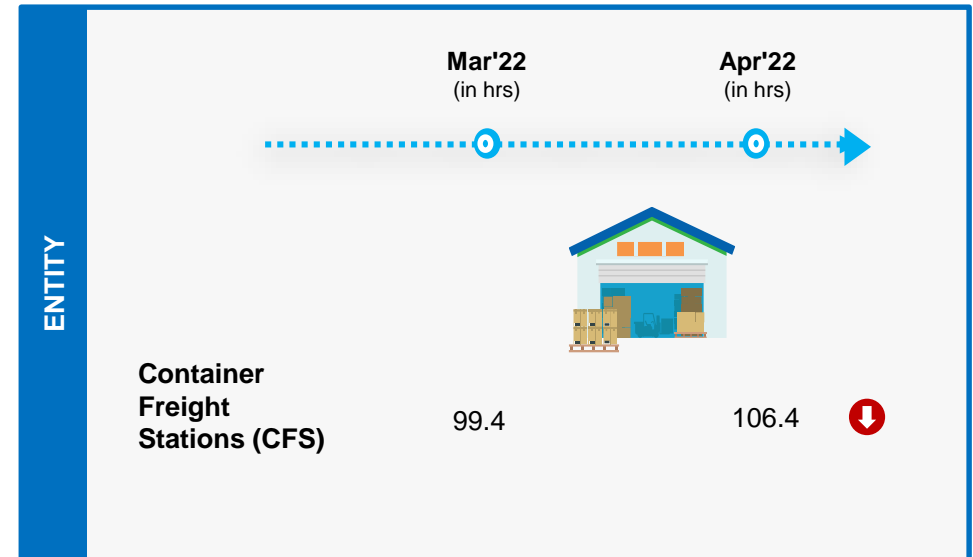
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Mar'22

Kindly refer to Annexure section for the names of CFS

## Port Dwell Time



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



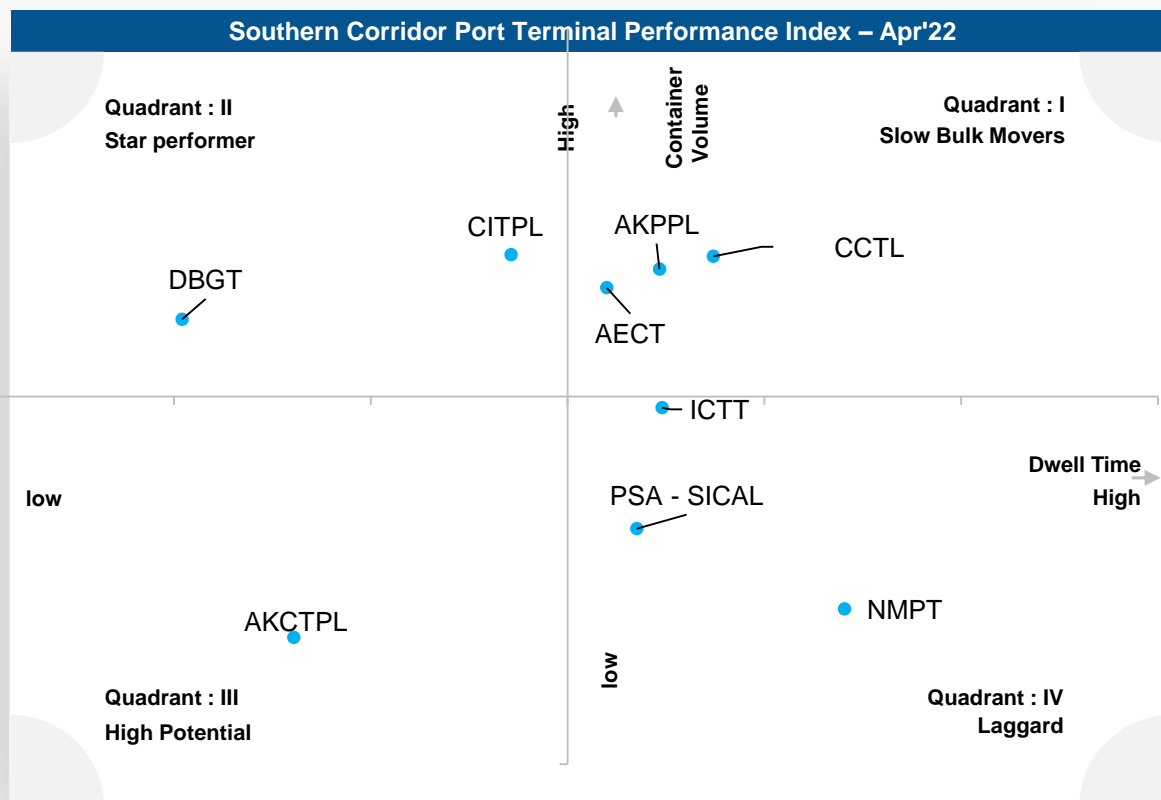
The marked entries showcase increase in performance in comparison to Mar'22



The marked entries showcase decrease in performance in comparison to Mar'22

## Performance Benchmarking – Port Terminals

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



Performance benchmarking for CFSs covered under LDB project for Apr'22

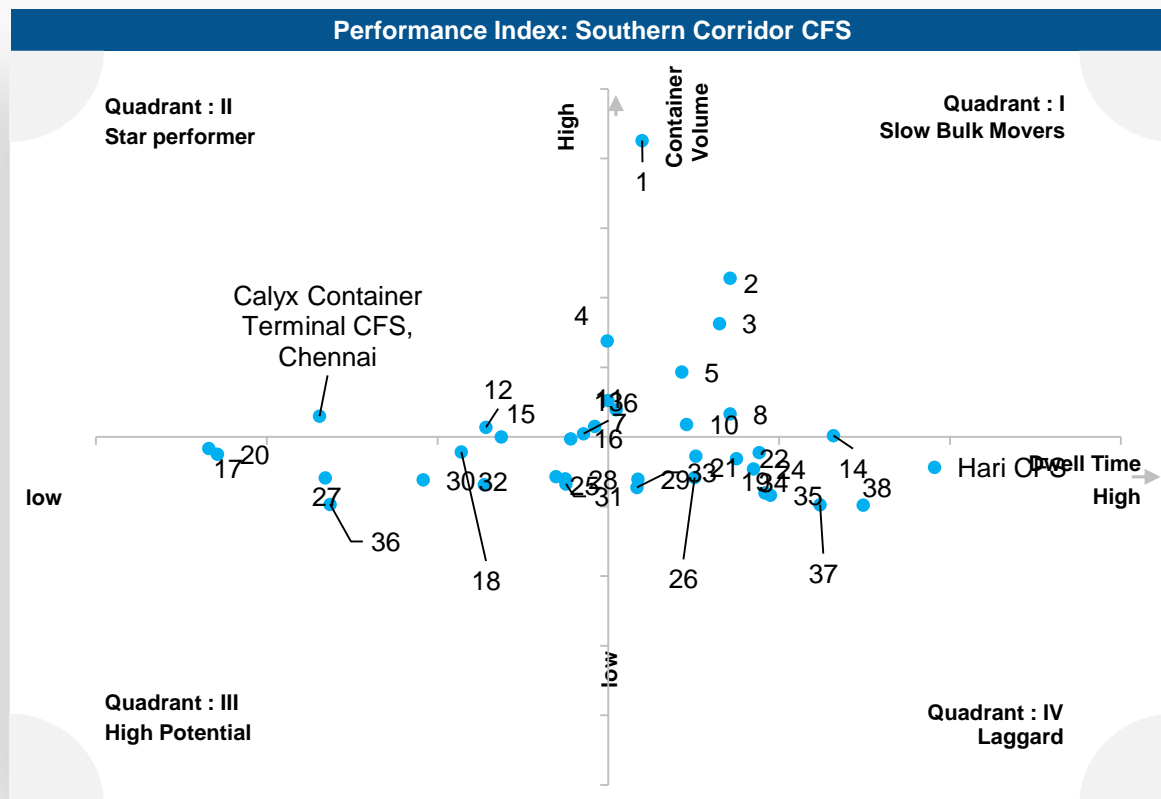
Top Performing Terminal	
Dakshin Bharat Gateway Terminal (DGBT)	
Mar'22	Apr'22
38.8 hrs	31.8 hrs
Low Performing Terminal	
New Mangalore Port Trust	
Mar'22	Apr'22
89.9 hrs	82.7 hrs

Note: The performance benchmarking is based on performance index

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

Performance Index - Summary	
In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume	
<b>Star Performer</b> Consist of entities which have catered relatively high container volume in lower dwell time	<b>Slow Bulk Movers</b> Consist of entities which have catered higher container volume in higher dwell time
<b>High Potential</b> Consist of entities which have catered relatively lower container volume in lower dwell time	<b>Laggard</b> Consist of entities which have catered relatively lower container volume at higher dwell time

## Performance Benchmarking - CFSs



Kindly refer to Annexure section for the names of CFS

Performance benchmarking for CFS covered under LDB project in Southern Corridor for Apr'22

Top Performing Terminal	
Calyx Container Terminal CFS, Chennai	
Mar'22	Apr'22
56.5 hrs	54.5 hrs
Low Performing Terminal	
Hari CFS	
Mar'22	Apr'22
135.3 hrs	168.9 hrs

Note: The performance benchmarking is based on performance index

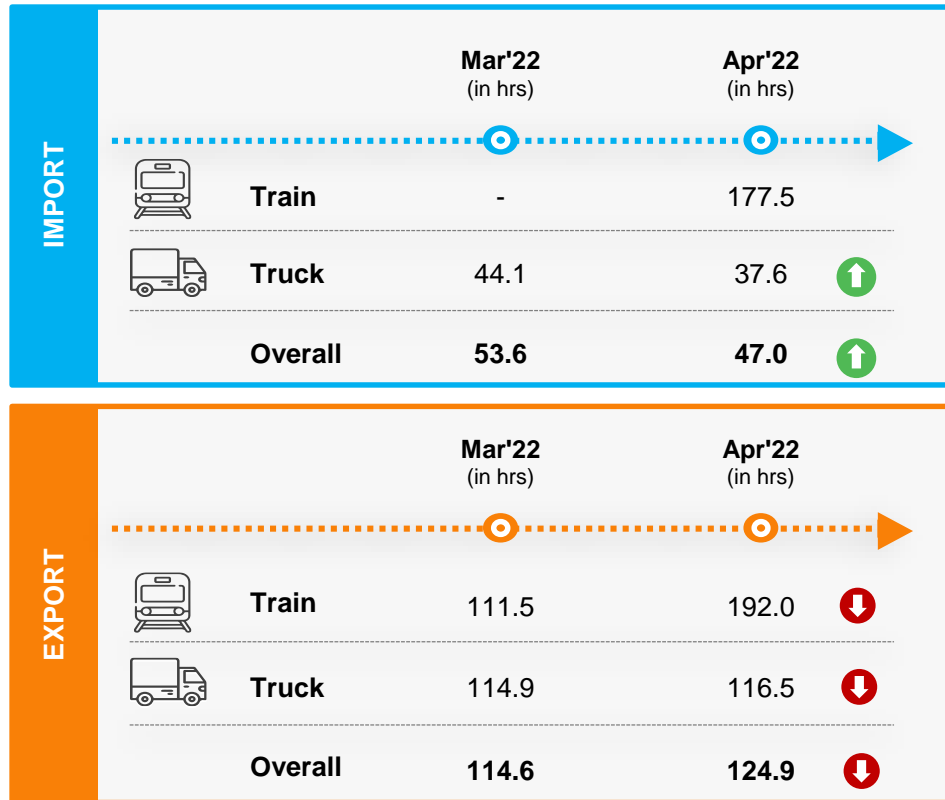
↑ ↓ The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Mar'22

Performance Index - Summary	
In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume	
<b>Star Performer</b> Consist of entities which have catered relatively high container volume in lower dwell time	<b>Slow Bulk Movers</b> Consist of entities which have catered higher container volume in higher dwell time
<b>High Potential</b> Consist of entities which have catered relatively lower container volume in lower dwell time	<b>Laggard</b> Consist of entities which have catered relatively lower container volume at higher dwell time

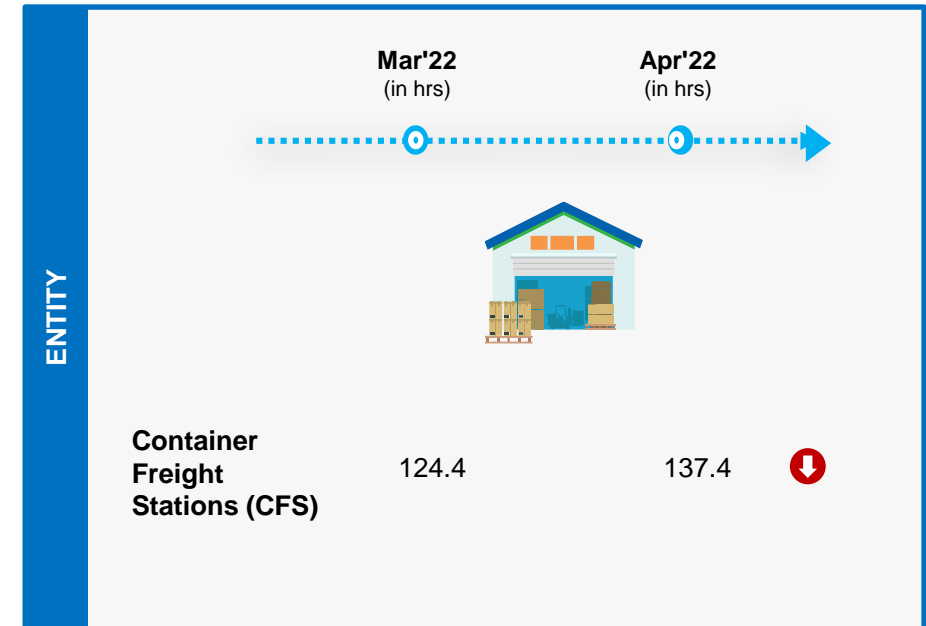


# Container Transportation Performance - Eastern Corridor

## Port Dwell Time



## Container Freight Stations(CFS)– Dwell Time

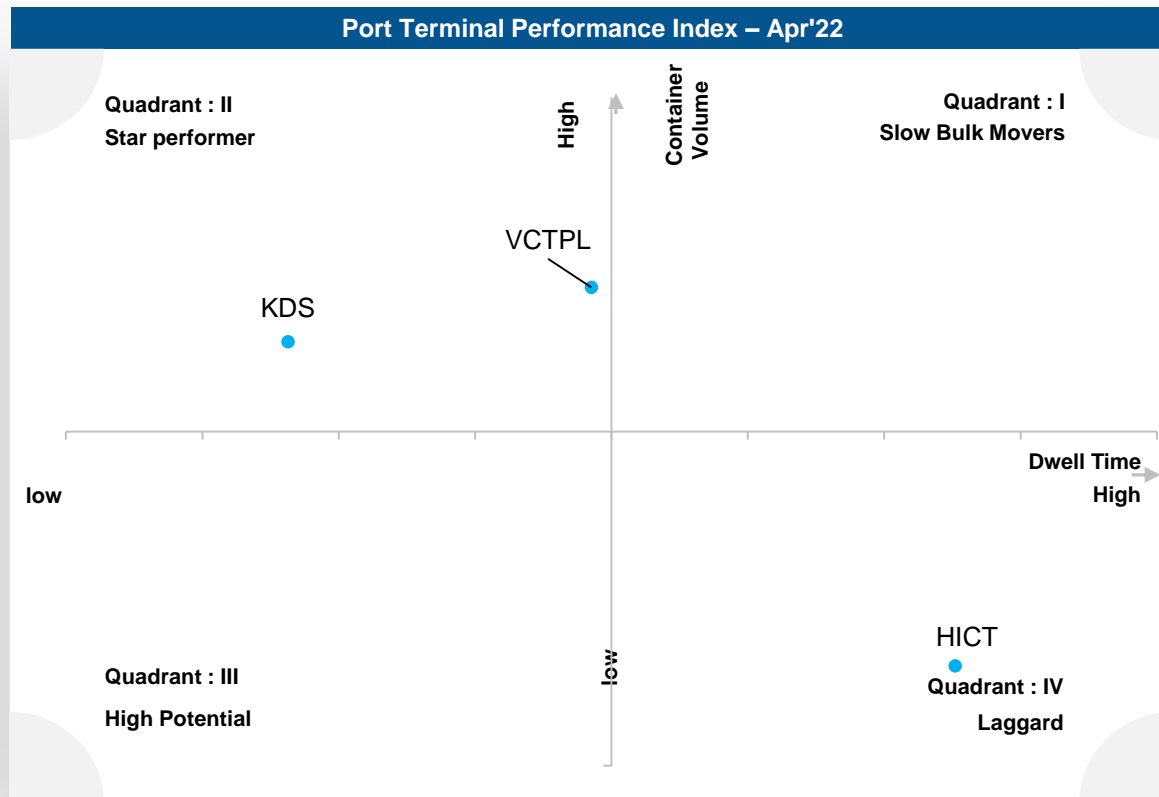


↑ The marked entries showcase increase in performance in comparison to Mar'22

↓ The marked entries showcase decrease in performance in comparison to Mar'22

## Performance Benchmarking - Port Terminals

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



Performance benchmarking for CFS covered under LDB project in Eastern Corridor for Apr'22

Top Performing Terminal		
Kolkata Dock System (KDS)		
Mar'22	Apr'22	↑
61.7 hrs	57.7 hrs	

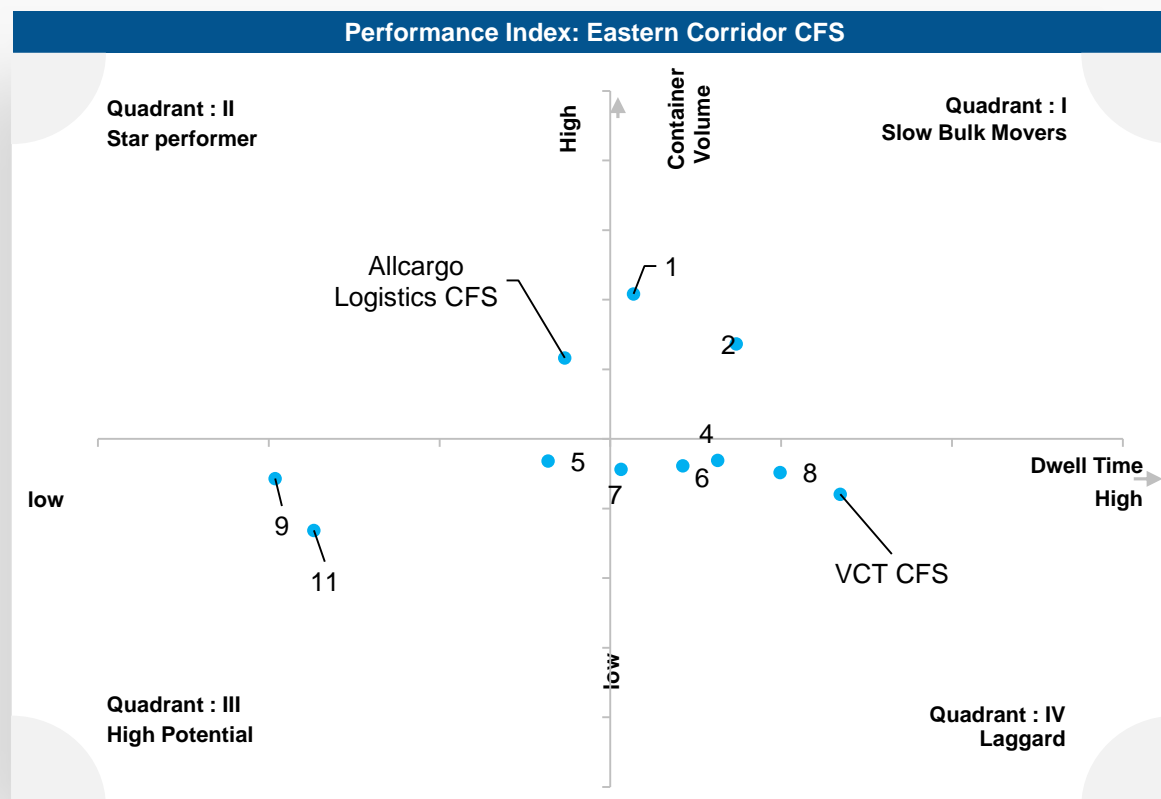
Low Performing Terminal		
Haldia International Container Terminal (HICT)		
Mar'22	Apr'22	↓
109.3 hrs	144.0 hrs	

Note: The performance benchmarking is based on performance index

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

Performance Index - Summary	
In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume	
<b>Star Performer</b> Consist of entities which have catered relatively high container volume in lower dwell time	<b>Slow Bulk Movers</b> Consist of entities which have catered higher container volume in higher dwell time
<b>High Potential</b> Consist of entities which have catered relatively lower container volume in lower dwell time	<b>Laggard</b> Consist of entities which have catered relatively lower container volume at higher dwell time

## Performance Benchmarking - CFSs



Kindly refer to Annexure section for the names of CFS

Performance benchmarking for CFS covered under LDB project in Eastern Corridor for Apr'22

Top Performing Terminal	
Allcargo Logistics CFS	
Mar'22	Apr'22
107.4 hrs	127.5 hrs
Low Performing Terminal	
VCT CFS	
Mar'22	Apr'22
127.9 hrs	164.6 hrs

Note: The performance benchmarking is based on performance index

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

Performance Index - Summary	
In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time and Volume	
<b>Star Performer</b> Consist of entities which have catered relatively high container volume in lower dwell time	<b>Slow Bulk Movers</b> Consist of entities which have catered higher container volume in higher dwell time
<b>High Potential</b> Consist of entities which have catered relatively lower container volume in lower dwell time	<b>Laggard</b> Consist of entities which have catered relatively lower container volume at higher dwell time

# Annexure

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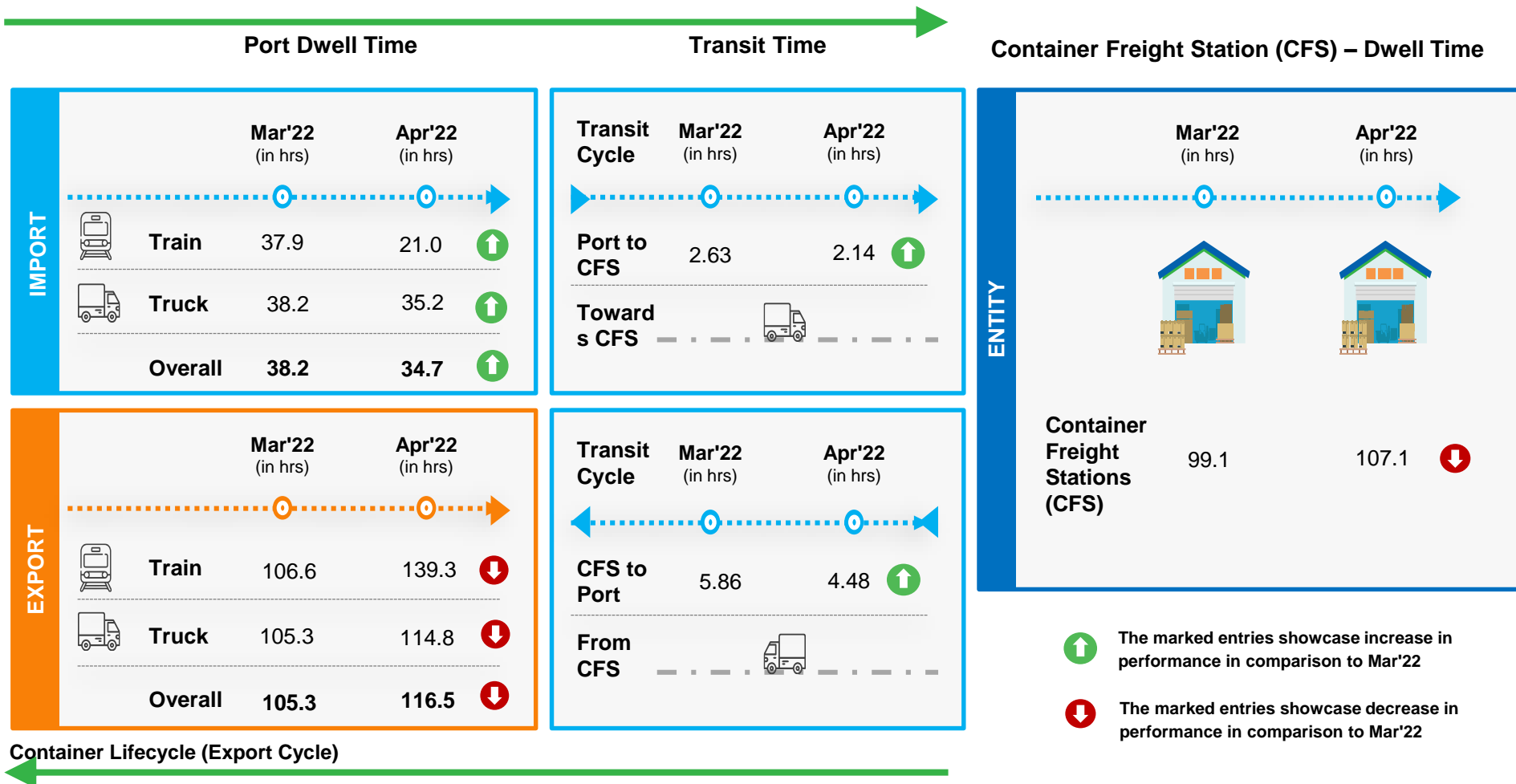
# Individual Terminal Performance In

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# Southern Corridor

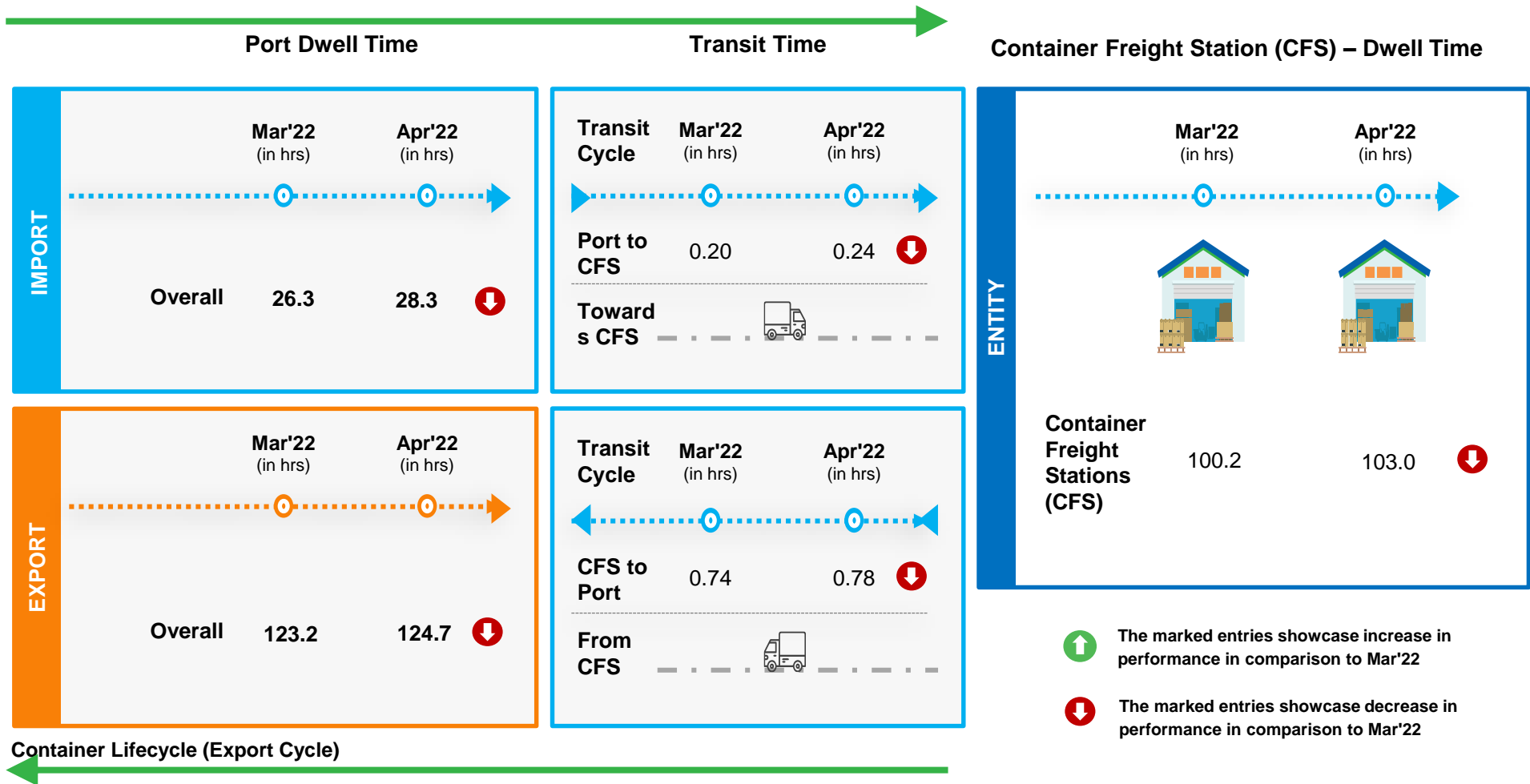
# Chennai Port Terminals: Container Transportation

## Container Lifecycle (Import Cycle)



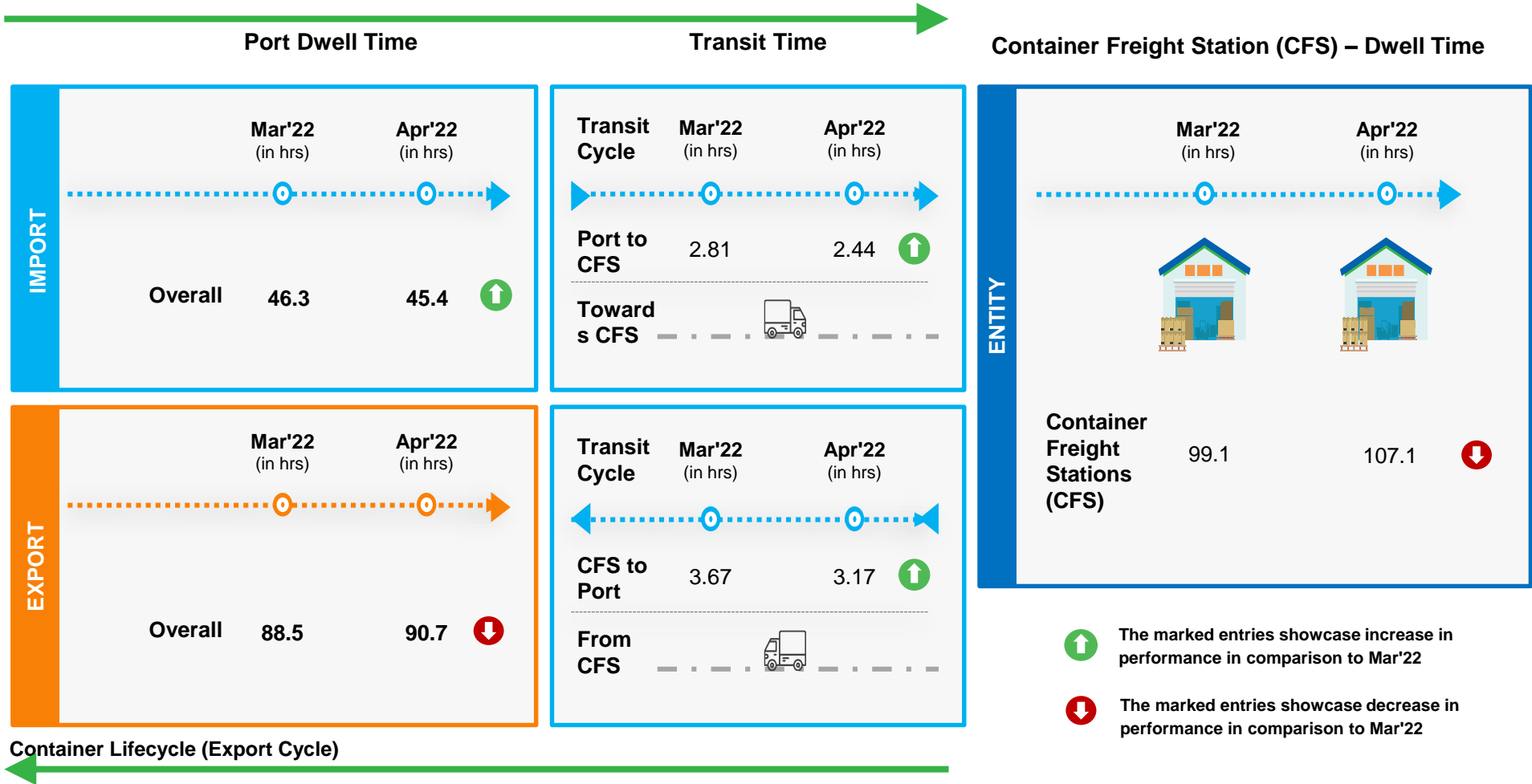
# Kochi Port Terminal: Container Transportation

## Container Lifecycle (Import Cycle)



# Kattupalli Port Terminal: Container Transportation

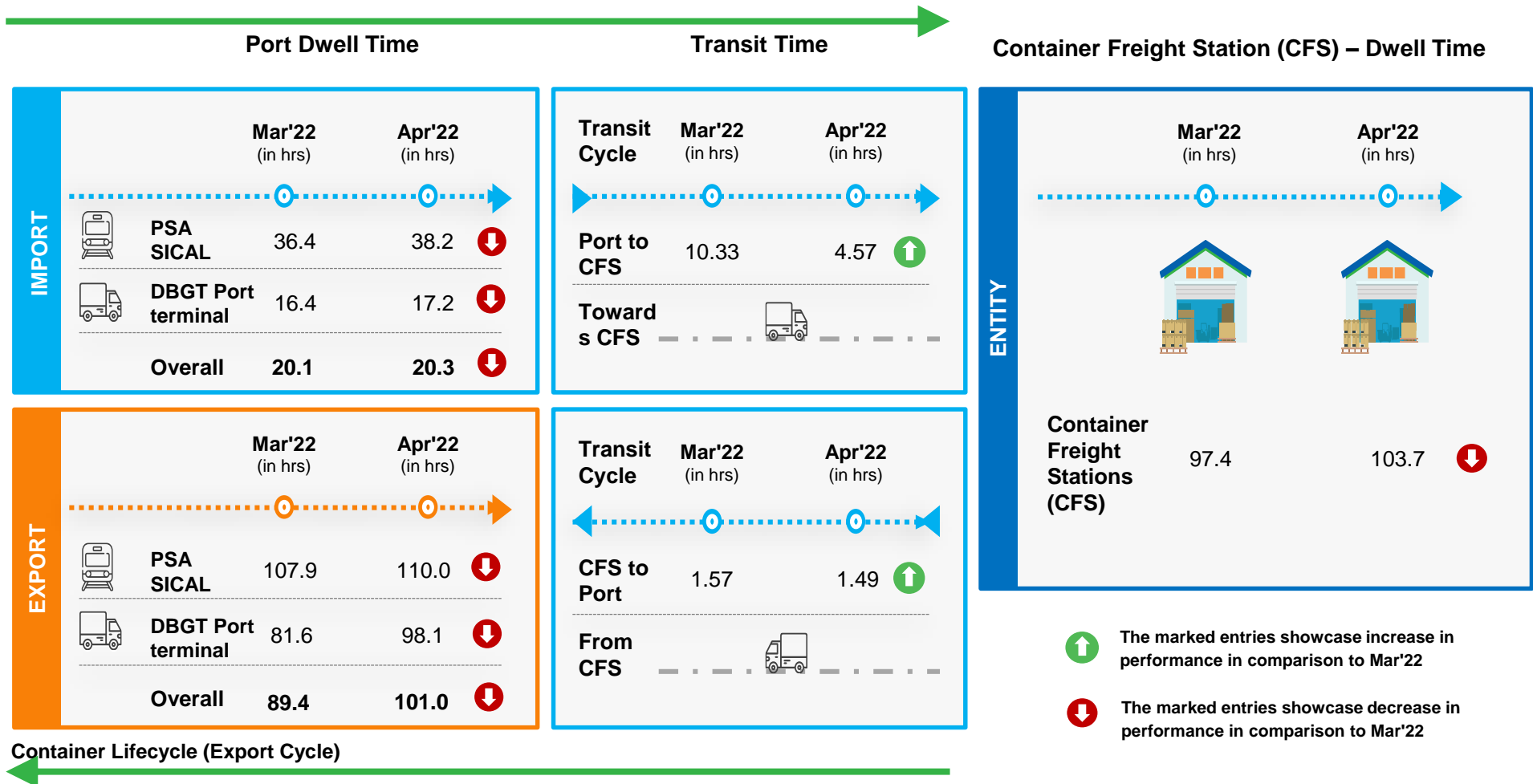
## Container Lifecycle (Import Cycle)





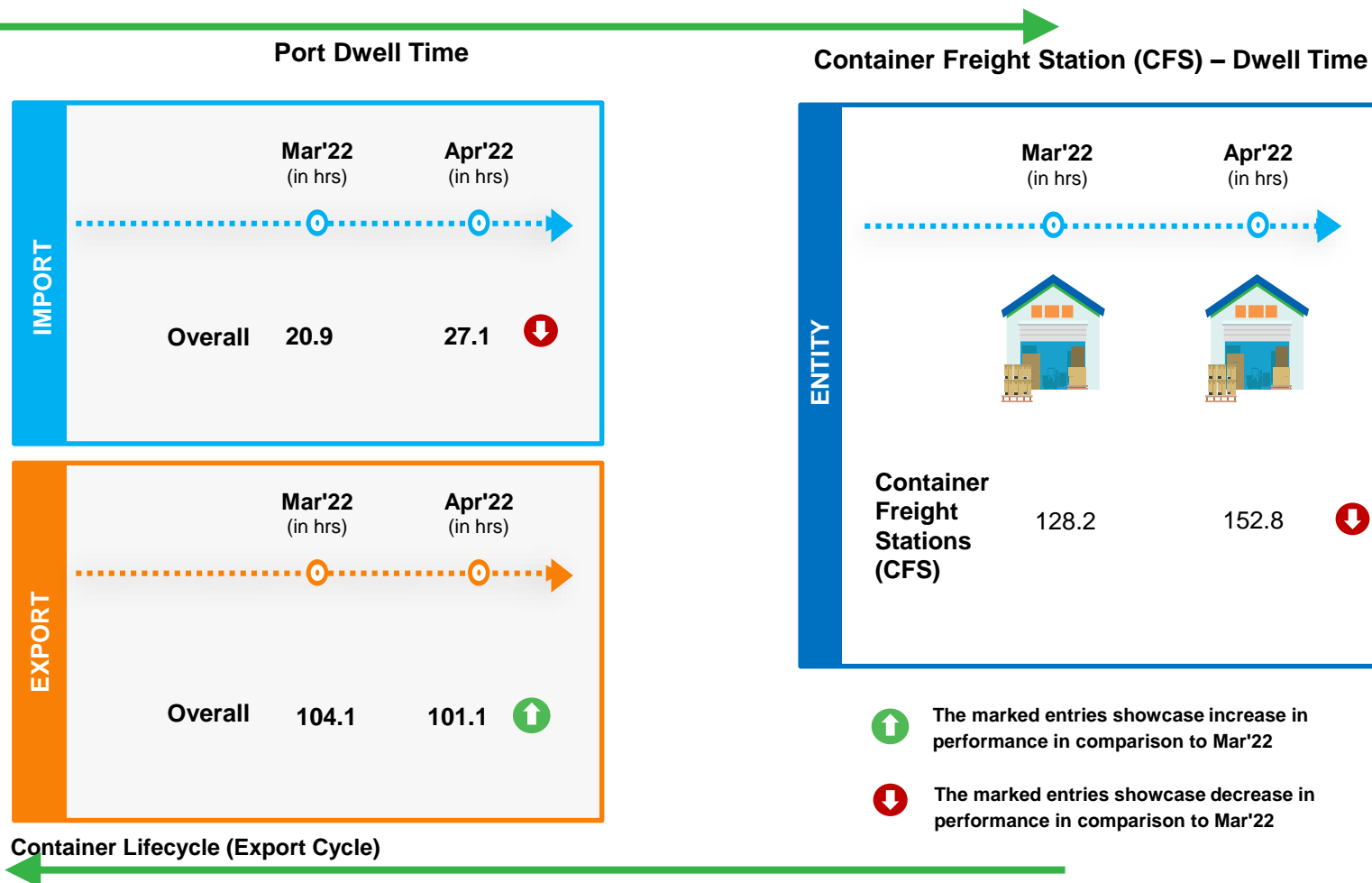
# Tuticorin Port Terminal: Container Transportation

## Container Lifecycle (Import Cycle)



# Krishnapatnam Port Terminal: Container Transportation

## Container Lifecycle (Import Cycle)



## Container Lifecycle (Import Cycle)

Port Dwell Time

IMPORT		Mar'22 (in hrs)	Apr'22 (in hrs)	
	<b>Train</b>	38.1	24.7	↑
	<b>Truck</b>	45.5	41.0	↑
<b>Overall</b>		<b>45.3</b>	<b>40.6</b>	↑

EXPORT		Mar'22 (in hrs)	Apr'22 (in hrs)	
	<b>Train</b>	84.7	105.2	↓
	<b>Truck</b>	112.8	111.9	↑
<b>Overall</b>		<b>110.8</b>	<b>111.8</b>	↓

## Container Lifecycle (Export Cycle)

## Container Freight Stations(CFS)– Dwell Time

	Mar'22 (in hrs)	Apr'22 (in hrs)	
<b>Container Freight Stations (CFS)</b>	99.1	107.1	↓

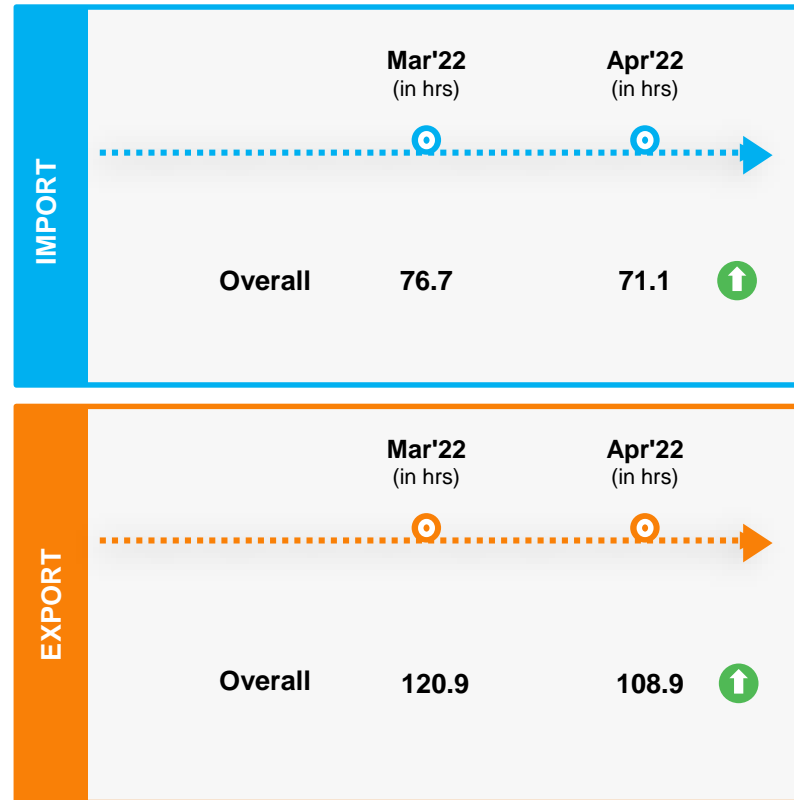


The marked entries showcase increase in performance in comparison to Mar'22



The marked entries showcase decrease in performance in comparison to Mar'22

## Port Dwell Time



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



The marked entries showcase decrease in performance in comparison to Mar'22



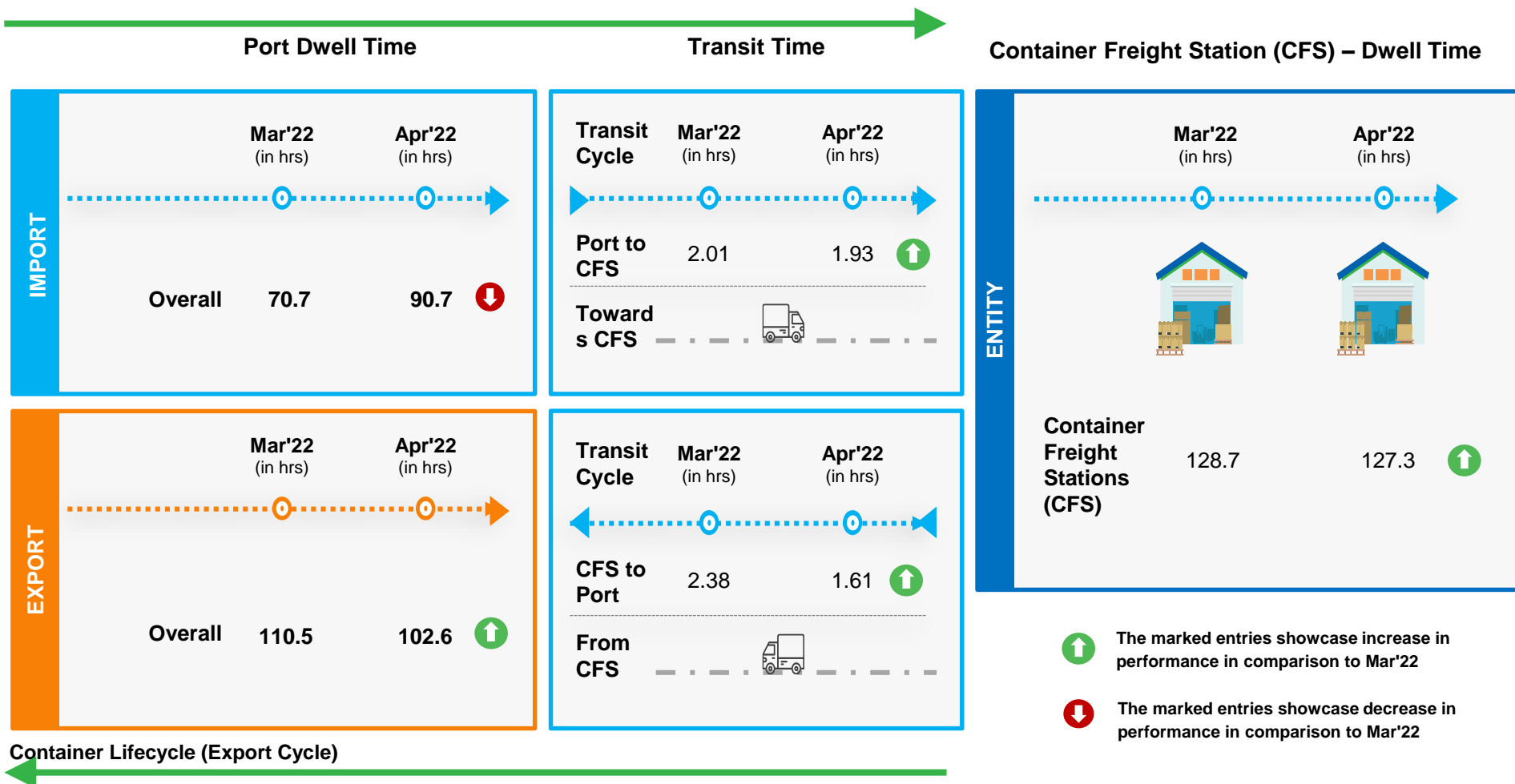
# Individual Terminal Performance In Eastern Corridor

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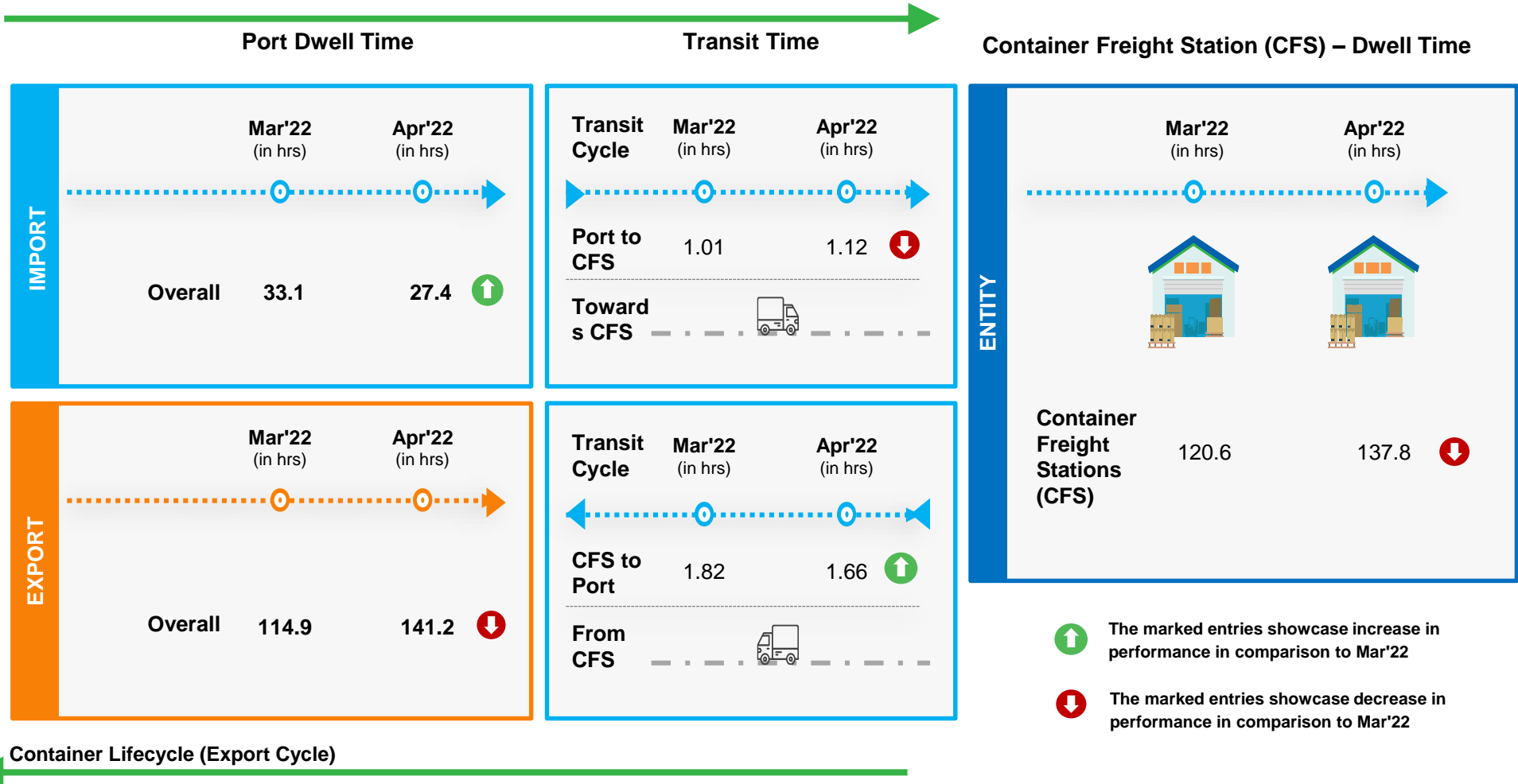
# Vishakhapatnam Port Terminal: Container Transportation

## Container Lifecycle (Import Cycle)



# Kolkata Port Terminal: Container Transportation

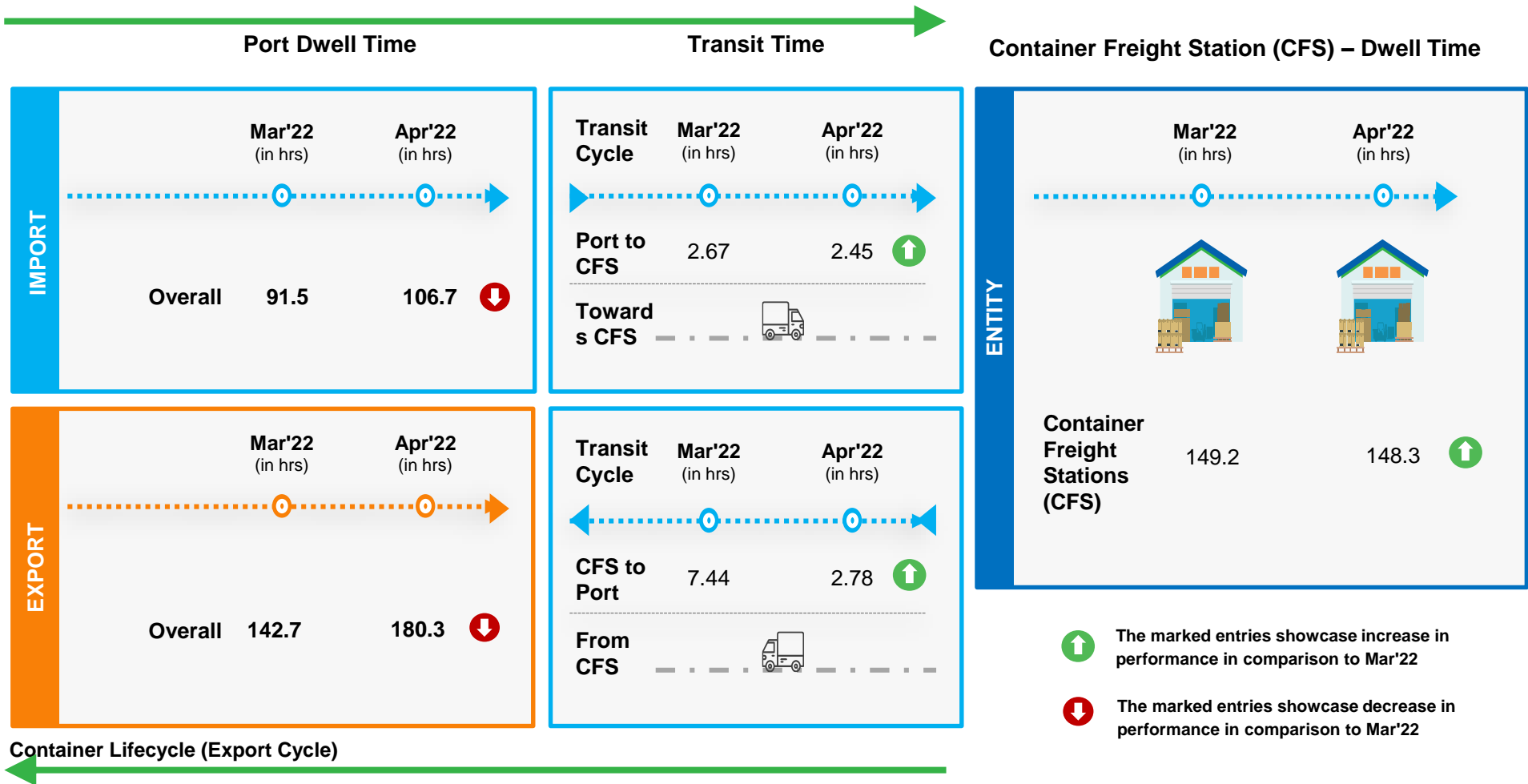
## Container Lifecycle (Import Cycle)





# Haldia Port Terminal: Container Transportation

## Container Lifecycle (Import Cycle)



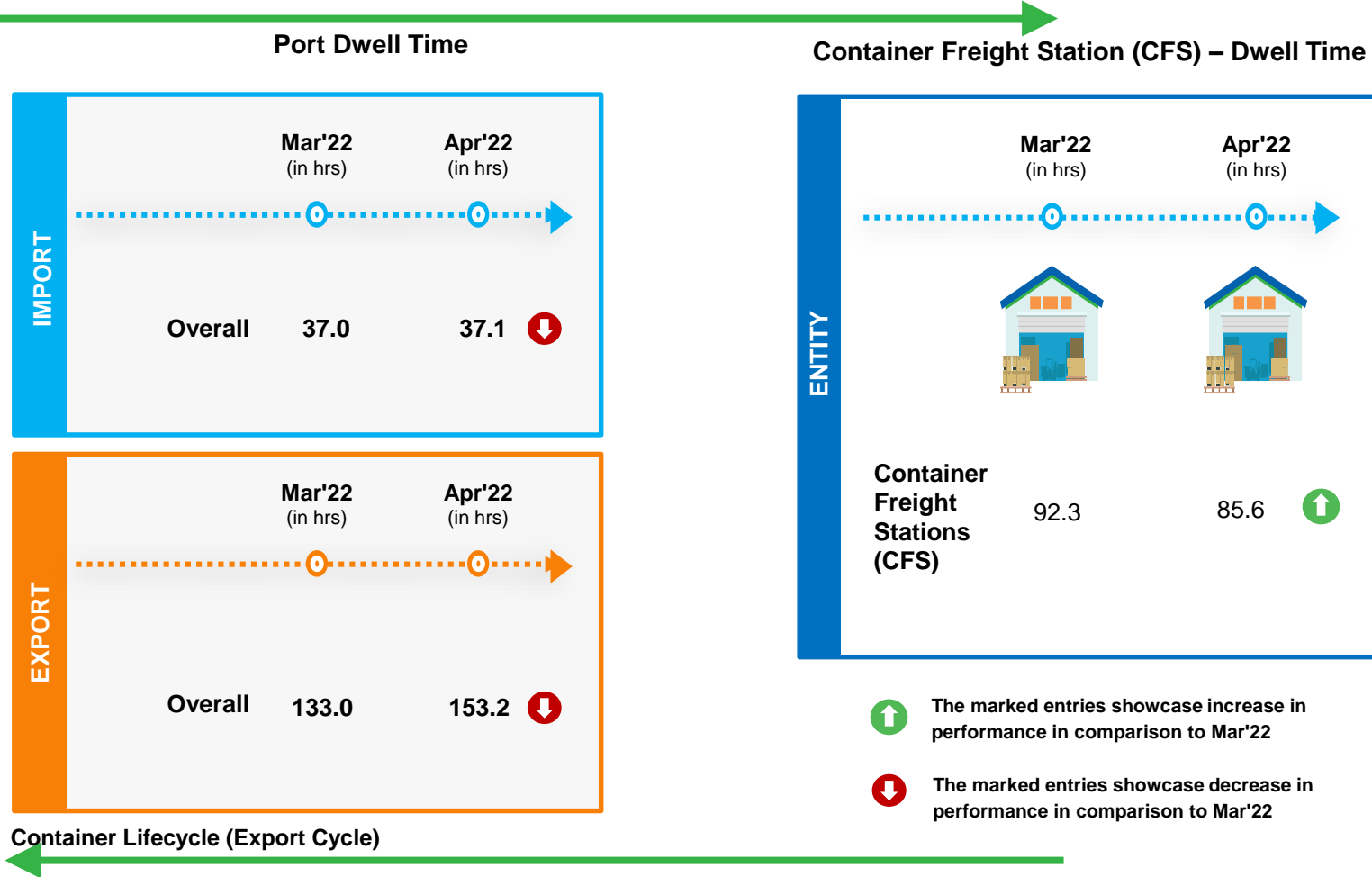




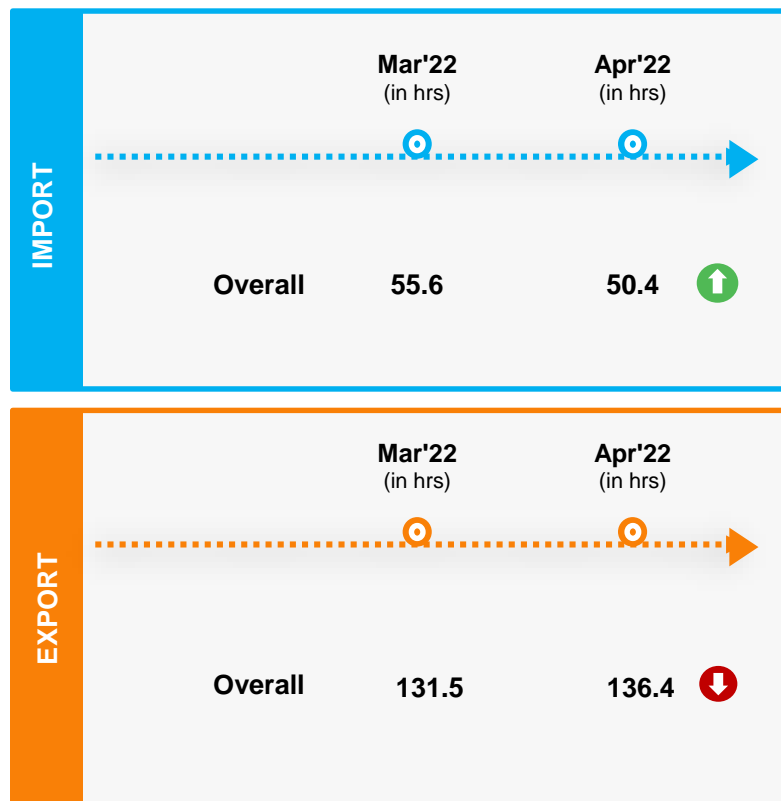
# Individual Terminal Performance In Western Corridor

# Pipavav Port Terminal: Container Transportation

## Container Lifecycle (Import Cycle)



## Port Dwell Time

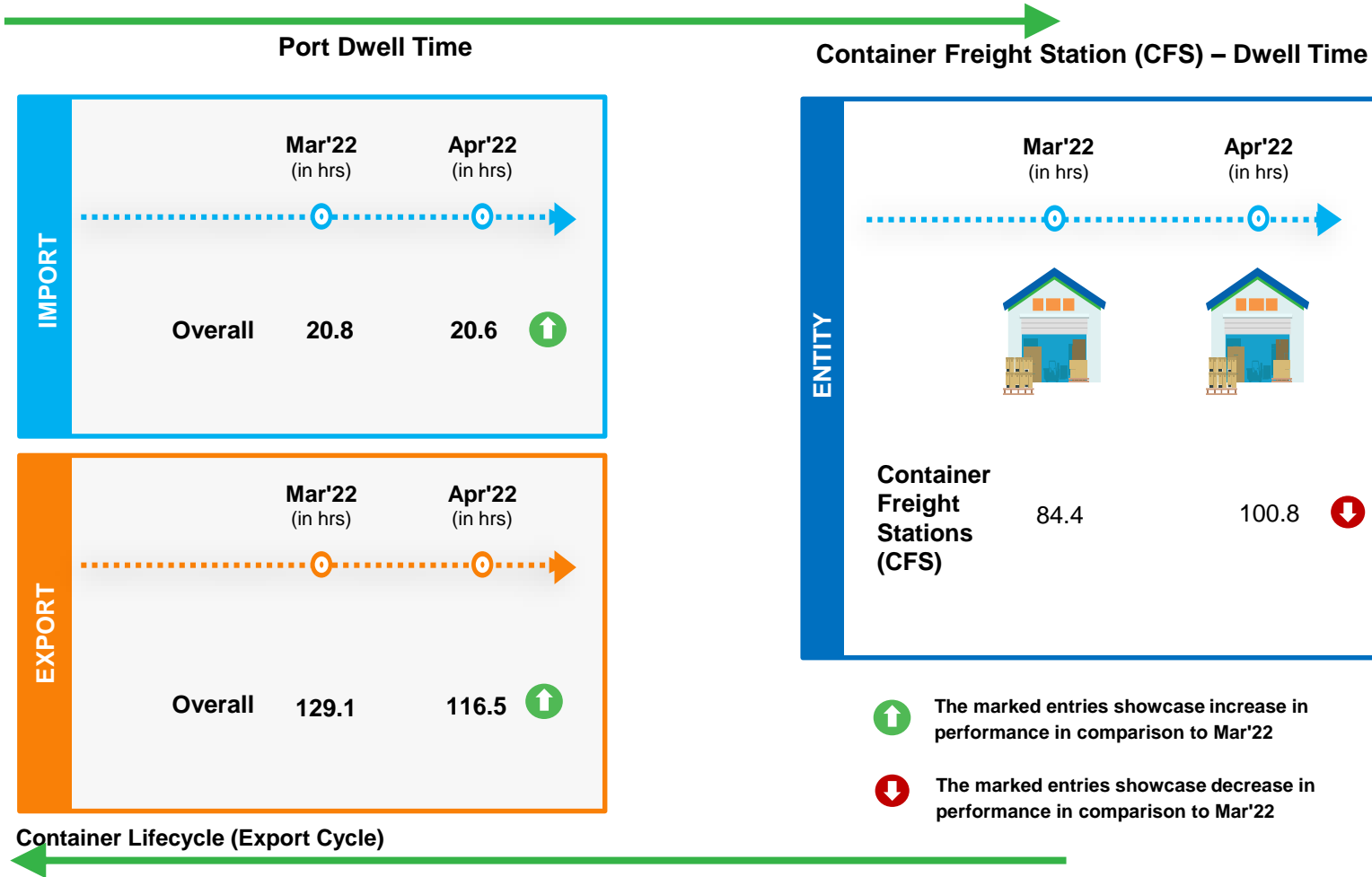


↑ The marked entries showcase increase in performance in comparison to Mar'22

↓ The marked entries showcase decrease in performance in comparison to Mar'22

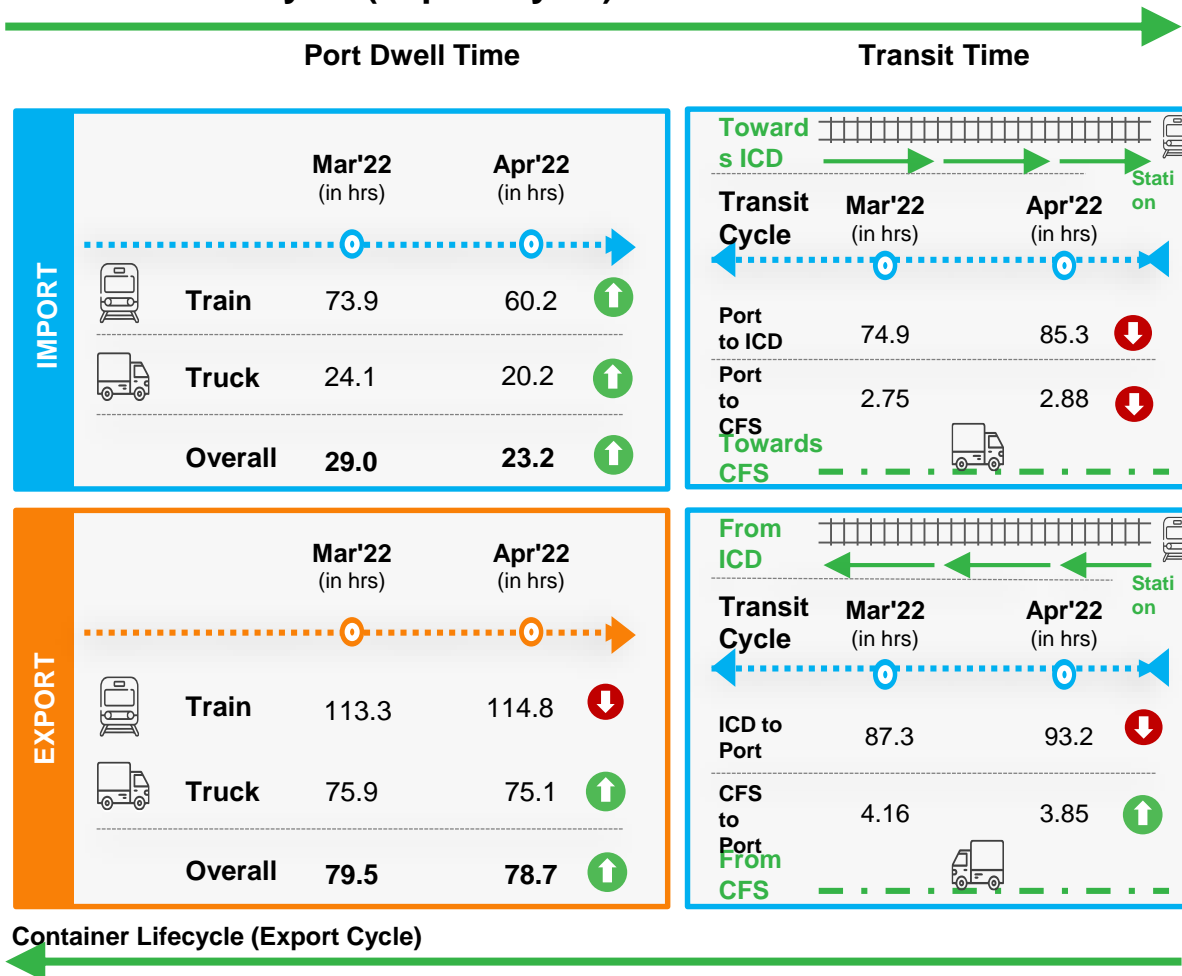
# Hazira Port Terminal: Container Transportation

## Container Lifecycle (Import Cycle)

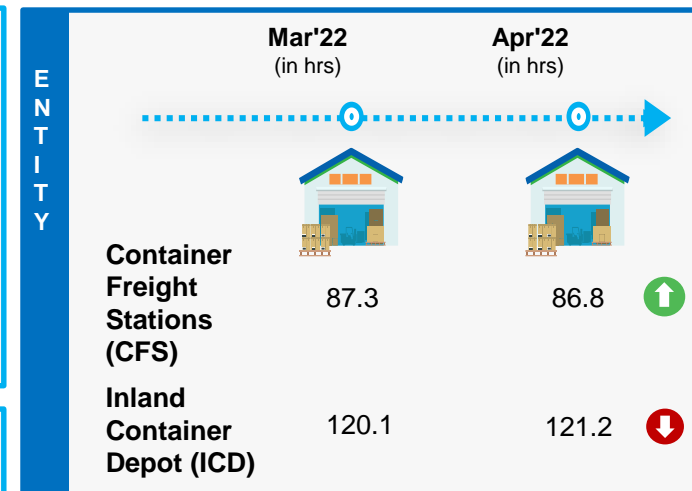


# Container Transportation- JNPT Port Terminals

## Container Lifecycle (Import Cycle)



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



## Volume distribution at port terminal – Truck/Rail

	Import	Export
<b>Rail</b>	17%	18%
<b>Truck</b>	83%	82%



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



The marked entries showcase decrease in performance in comparison to Mar'22

# Container Transportation- JNPT Port Terminals

IMPORT CYCLE DWELL TIME (Apr'22 – in hrs)				
Port dwell time	Overall Dwell Time of Truck and Train Bound Containers	23.2	20%	↑
	Port Dwell Time for Truck Bound Containers	20.2	16%	↑
	Port Dwell time for Train Bound Containers	60.2	19%	↑
	Port Dwell time Direct Port Delivery (DPD) containers	34.1	4%	↓
	Port Dwell time Containers bound for CFS	17.5	20%	↑
	Port Dwell for Empty Containers	28.6	42%	↑
	Port Dwell for Laden Containers	21.5	8%	↑
Transit time	Port to ICD	85.3	14%	↓
	Port to CFS	2.88	5%	↓
EXPORT CYCLE DWELL TIME (Apr'22– in hrs)				
Port dwell time	Overall Dwell Time of Truck and Train Bound Containers	78.7	1%	↑
	Port Dwell Time for Truck Bound Containers	75.1	1%	↑
	Port Dwell time for Train Bound Containers	114.8	1%	↓
	Port Dwell time Direct Port Entry (DPE) containers	78.4	6%	↑
	Port Dwell time Containers bound from CFS	72.0	2%	↓
	Port Dwell for Empty Containers	68.6	4%	↓
	Port Dwell for Laden Containers	80.5	1%	↑
Transit time	ICD to Port	93.2	7%	↓
	CFS to Port	3.85	7%	↑

Compared  
to Mar'22

Compared  
to Mar'22

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

# JNPT Region: Parking Plaza Dwell Time Analysis

The below table depicts the Parking Plaza & Parking Plaza to Port Transit Performance at JNPT Port Terminals and their volume bifurcation in export cycle

## Parking Plaza Gate In – Gate Out

Mode	Mar'22 (in hrs)	Apr'22 (in hrs)
Overall Parking Plaza	6.20	5.30

## Container Handled: Day wise (Apr'22 )

Parking Plaza	Within 6 hrs	Within 6- 24 hrs	More than 24 hrs
JNPT Central Parking Plaza	57%	39%	4%

## Parking Plaza Gate Out – Terminal In

Mode	Mar'22 (in hrs)	Apr'22 (in hrs)
Overall Parking Plaza to JNPT Port	1.87	1.45

Port	Mar'22 (in hrs)	Apr'22 (in hrs)
JNPCT	1.9	0.5
NSICT	1.9	0.8
GTI	1.8	1.5
NSIGT	1.7	0.9
BMCT	2.1	3.8

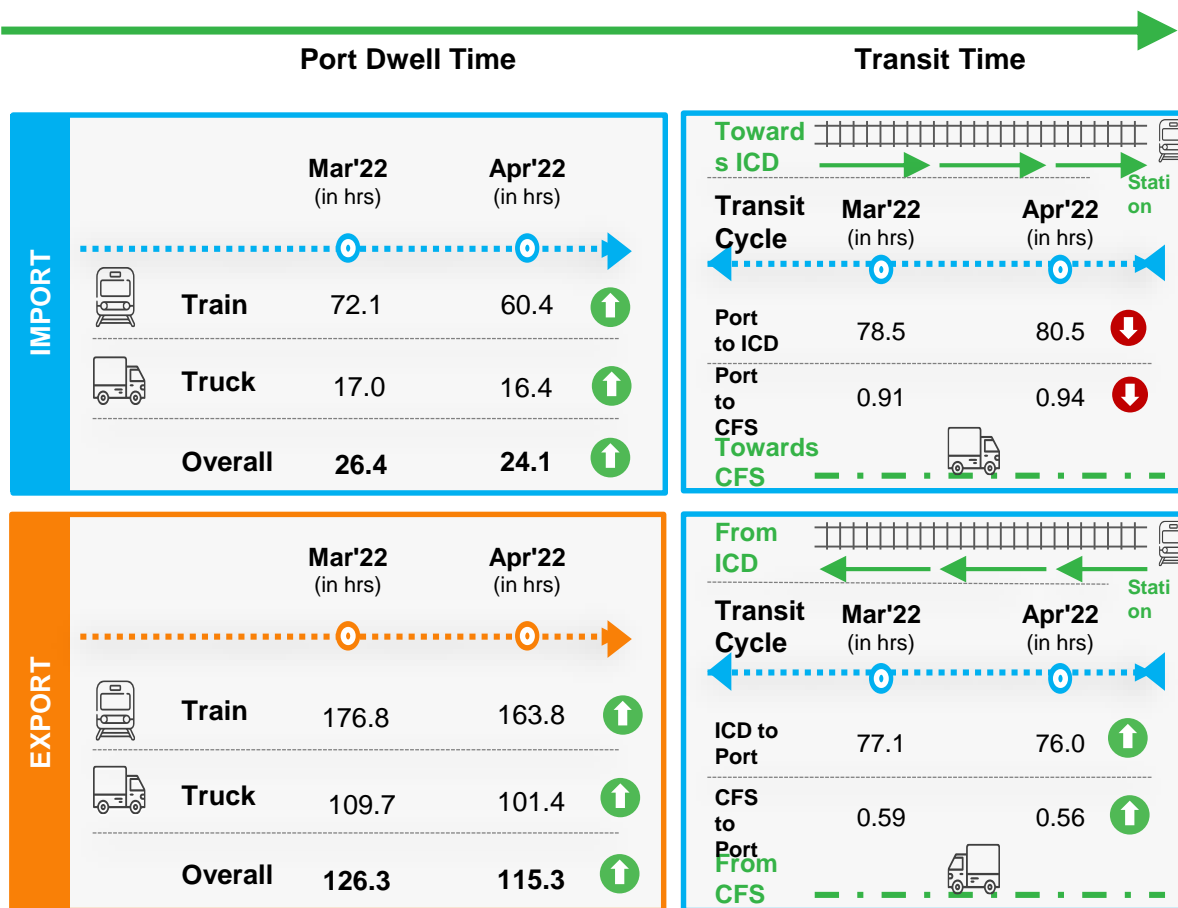
## Container Handled: Day wise (Apr'22 )

Port Terminals	Within 6 hrs	Within 6- 24 hrs	More than 24 hrs
JNPCT	97%	3%	0%
NSICT	97%	3%	0%
GTI	97%	3%	0%
NSIGT	98%	2%	0%
BMCT	76%	24%	0%



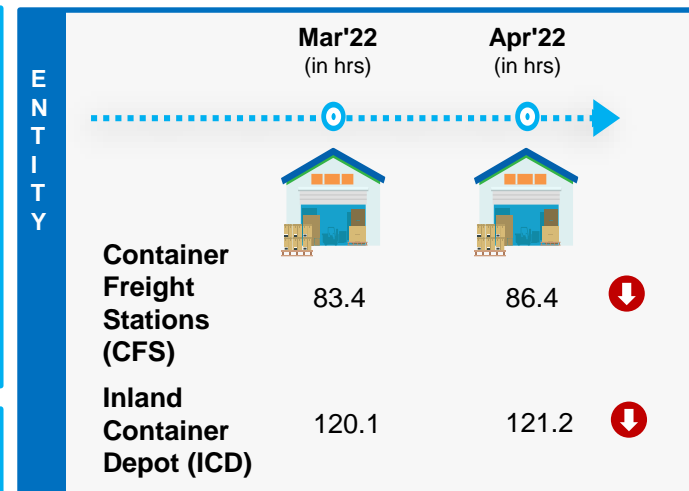
# Mundra Port Terminal : Container Transportation

## Container Lifecycle (Import Cycle)



## Container Lifecycle (Export Cycle)

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



## Volume distribution at port terminal – Truck/Rail

	Import	Export
<b>Rail</b>	31%	34%
<b>Truck</b>	69%	66%

- ↑ The marked entries showcase increase in performance in comparison to Mar'22
- ↓ The marked entries showcase decrease in performance in comparison to Mar'22



# Container Transportation- Mundra Port Terminal

IMPORT CYCLE DWELL TIME (Apr'22– in hrs)				
Port dwell time	Overall Dwell Time of Truck and Train Bound Containers	24.1	9%	↑
	Port Dwell Time for Truck Bound Containers	16.4	4%	↑
	Port Dwell time for Train Bound Containers	60.4	16%	↑
Transit time	Port to ICD	80.5	3%	↓
	Port to CFS	0.94	3%	↓
EXPORT CYCLE DWELL TIME (Apr'22– in hrs)				
Port dwell time	Overall Dwell Time of Truck and Train Bound Containers	115.3	9%	↑
	Port Dwell Time for Truck Bound Containers	101.4	8%	↑
	Port Dwell time for Train Bound Containers	163.8	7%	↑
Transit time	ICD to Port	76.0	1%	↑
	CFS to Port	0.56	5%	↑

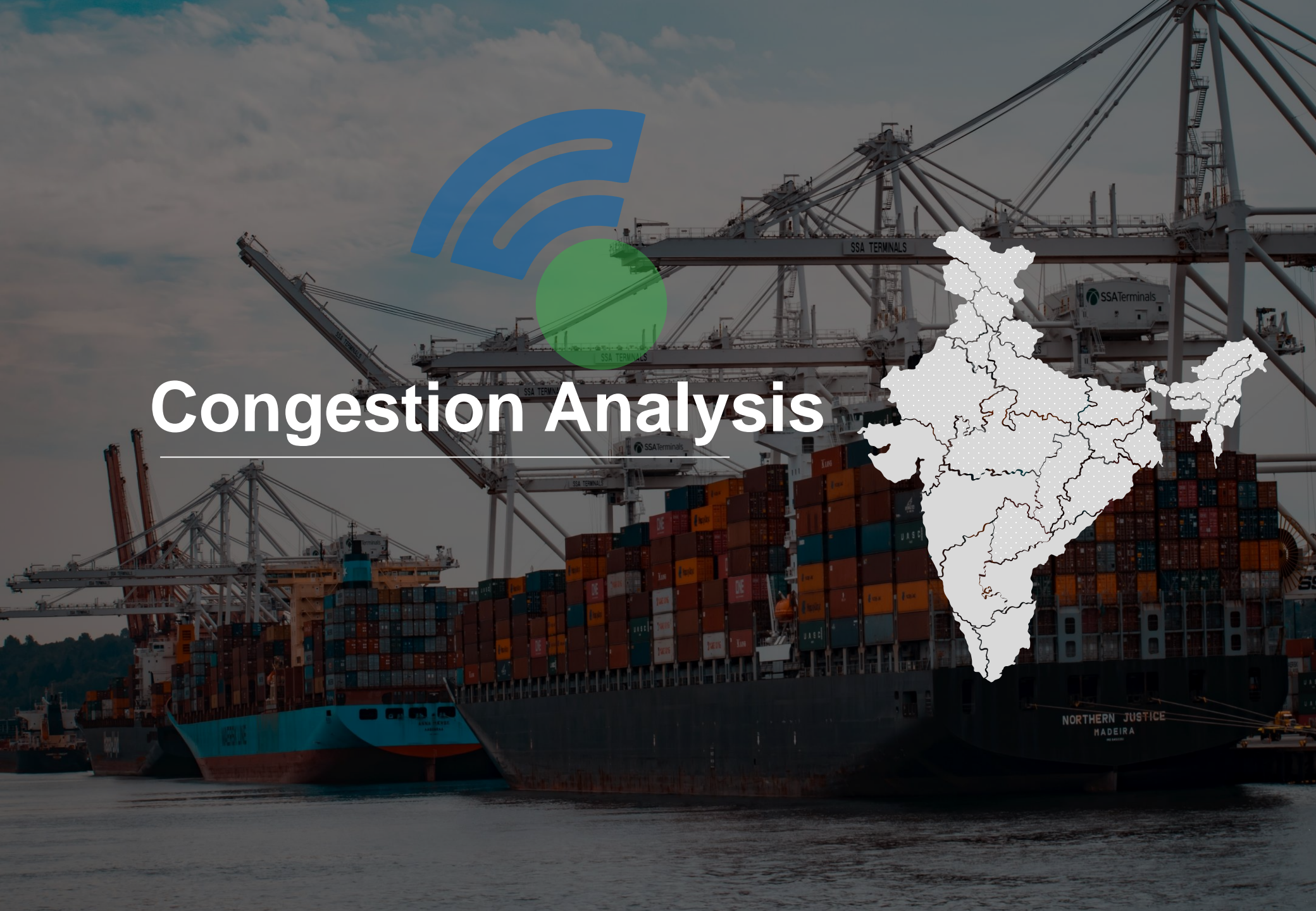
Compared to Mar'22



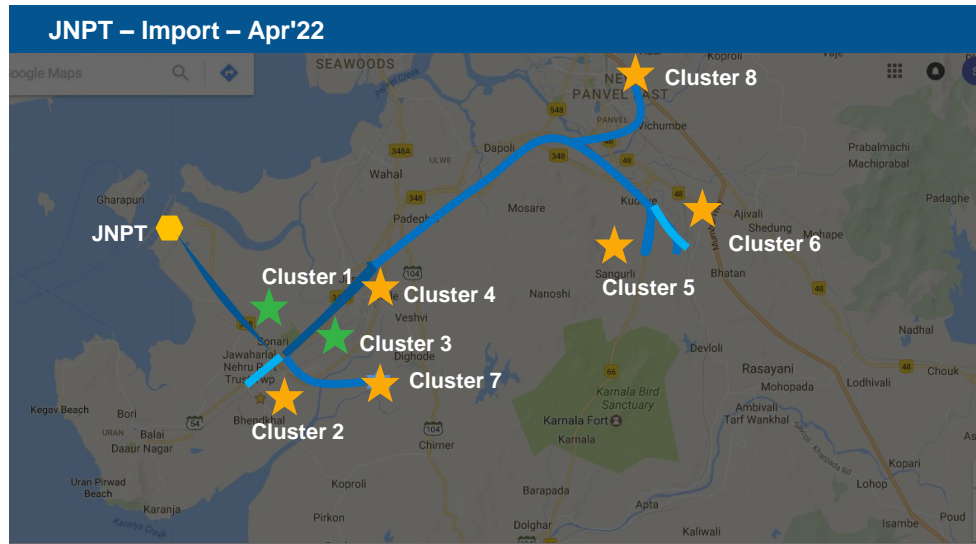
The arrows depict increase/decrease in performance of the stakeholders in comparison to Mar'22

# Congestion Analysis

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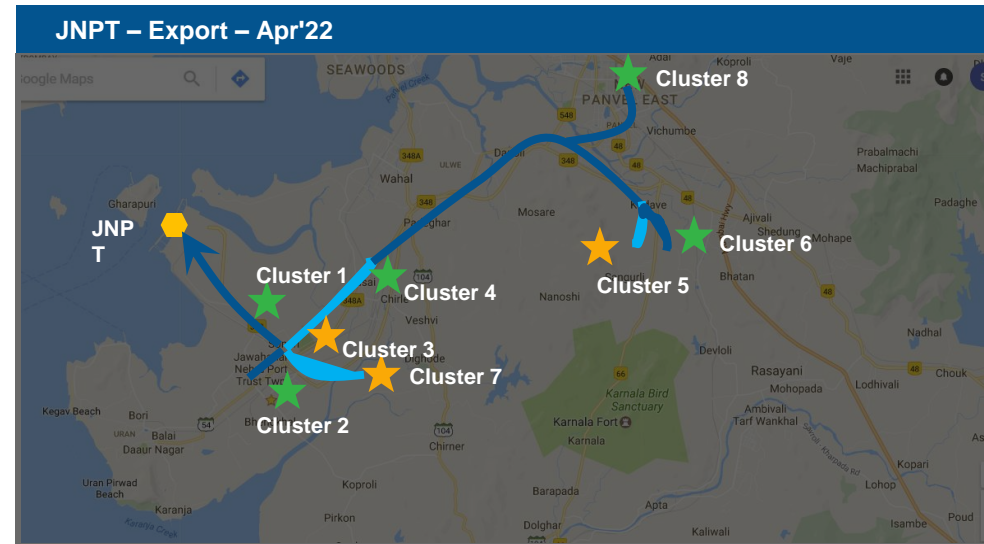
# JNPT Region: Congestion Analysis



Clusters with bottleneck	
Cluster 1	JNPT area
Cluster 3	Sonari area,jnpt road
Clusters without bottleneck	
Cluster 2	Bhendkhal area, khopate road
Cluster 4	Chirle area, JNPT road
Cluster 5	Plaspa area, coach kanyakumari highway
Cluster 6	Salva apta rd area, bangalore highway
Cluster 7	Patilpada area, khopate JNPT road
Cluster 8	Taloja, navi mumbai

**Legends**

- High Congestion (dark blue line)
- Medium Congestion (medium blue line)
- Low Congestion (light blue line)
- Cluster with bottleneck (green star)
- Cluster without bottleneck (yellow star)



Clusters with bottleneck	
Cluster 1	JNPT area
Cluster 2	Bhendkhal area, khopate road
Cluster 4	Chirle area, JNPT road
Cluster 6	Salva apta rd area, bangalore highway
Cluster 8	Taloja, navi mumbai
Clusters without bottleneck	
Cluster 3	Sonari area,jnpt road
Cluster 5	Plaspa area, coach kanyakumari highway
Cluster 7	Patilpada area, khopate JNPT road

# Mundra Region: Congestion Analysis



Clusters with bottleneck	
Clusters without bottleneck	
Cluster 1	APSEZ area
Cluster 2	Hind circle
Cluster 3	Motakapaya



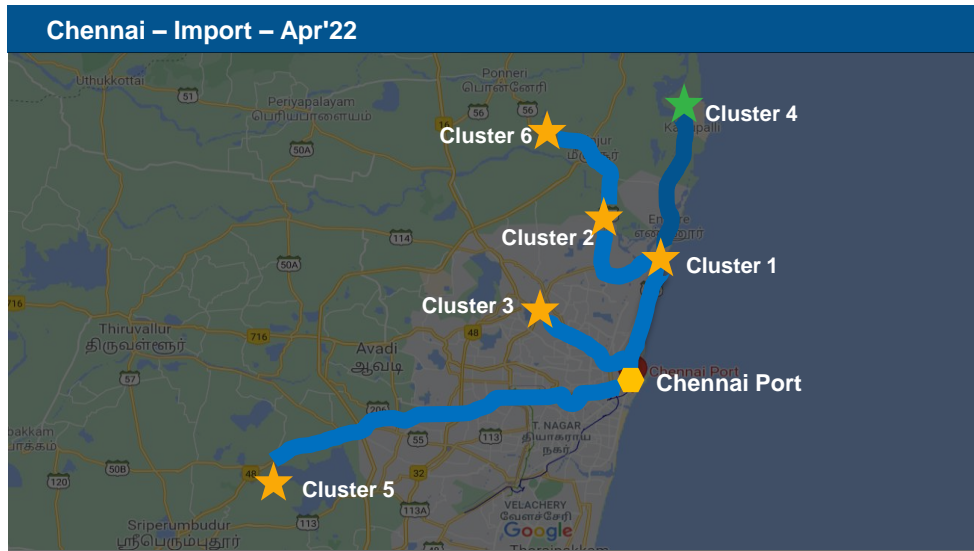
Clusters with bottleneck	
Clusters without bottleneck	
Cluster 1	APSEZ area
Cluster 2	Hind circle
Cluster 3	Motakapaya

## Legends

■ High Congestion   
 ■ Medium Congestion   
 ■ Low Congestion   
 ★ Cluster with bottleneck   
 ★ Cluster without bottleneck



# Chennai Region: Congestion Analysis

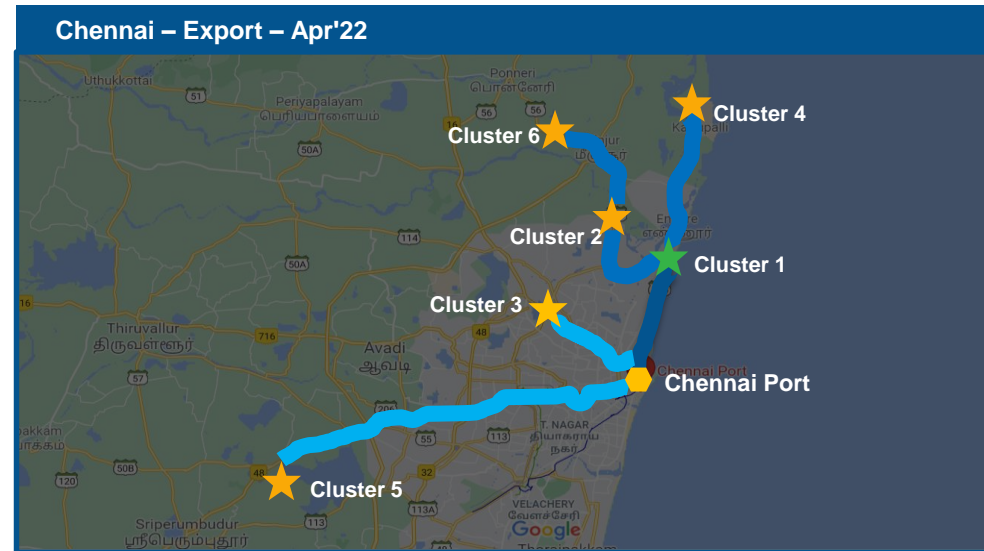


## Clusters with bottleneck

Cluster 4	Kattupalli port bound area
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## Clusters without bottleneck

Cluster 1	Chennai port bound area
Cluster 2	Ennore port bound area
Cluster 3	Chennai central area
Cluster 5	Chennai automotive industry area (Irungatukottai)
Cluster 6	Thiruvallur Outer city bound area



## Clusters with bottleneck

Cluster 1	Chennai port bound area
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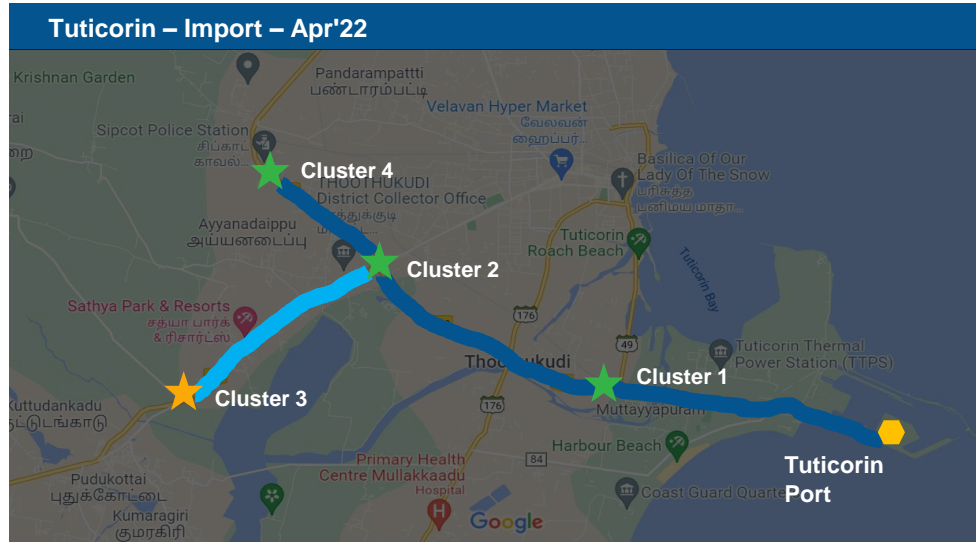
## Clusters without bottleneck

Cluster 2	Ennore port bound area
Cluster 3	Chennai central area
Cluster 4	Kattupalli port bound area
Cluster 5	Chennai automotive industry area (Irungatukottai)
Cluster 6	Thiruvallur Outer city bound area

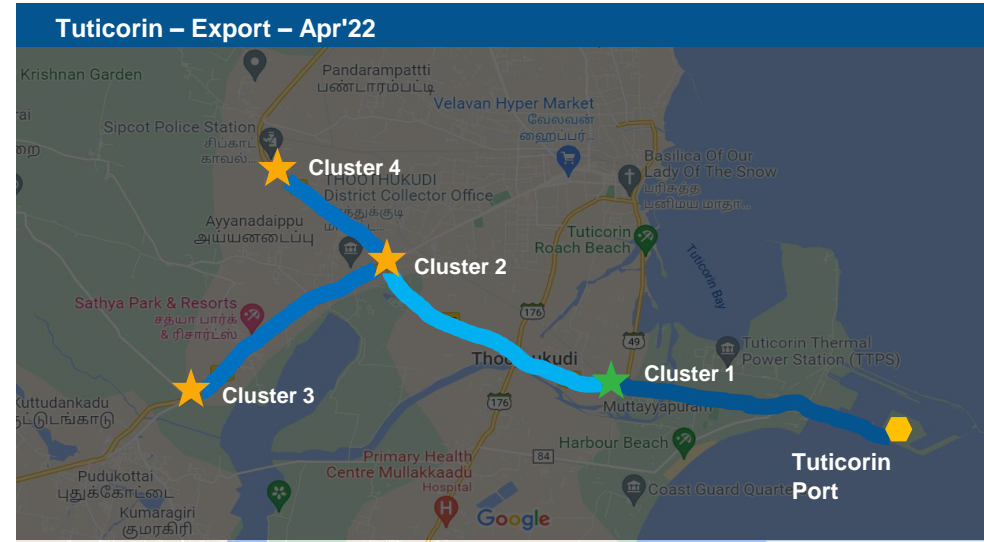
## Legends

■ High Congestion   
 ■ Medium Congestion   
 ■ Low Congestion   
 ★ Cluster with bottleneck   
 ★ Cluster without bottleneck

# Tuticorin Region: Congestion Analysis



Clusters with bottleneck	
Cluster 1	Near by VOC road
Cluster 2	Periyanayagapuram, Thoothukudi near by Madurai road
Cluster 4	Sipcot area near by Madurai road
Clusters without bottleneck	
Cluster 3	Tirunelveli road near by Podukottai

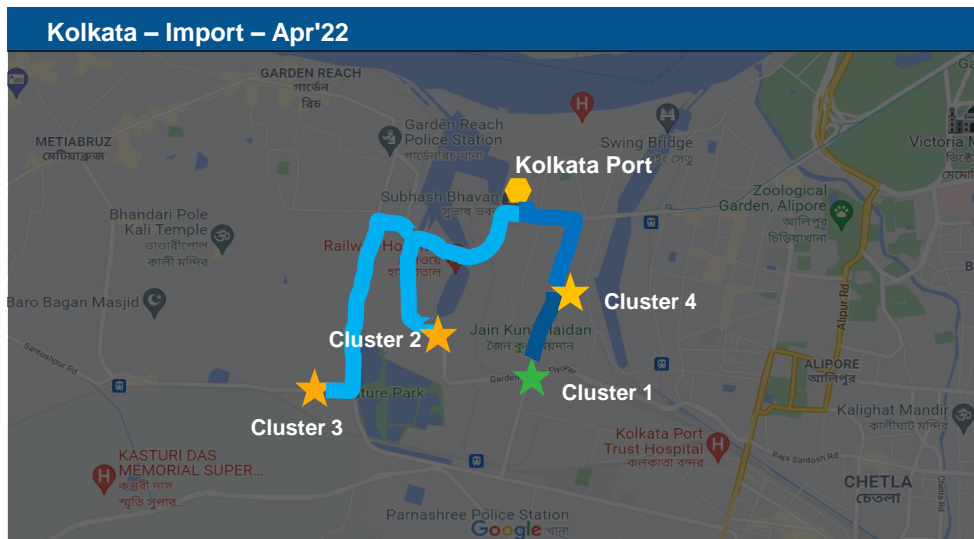


Clusters with bottleneck	
Cluster 1	Near by VOC road
Clusters without bottleneck	
Cluster 2	Periyanayagapuram, Thoothukudi near by Madurai road
Cluster 3	Tirunelveli road near by Podukottai
Cluster 4	Sipcot area near by Madurai road

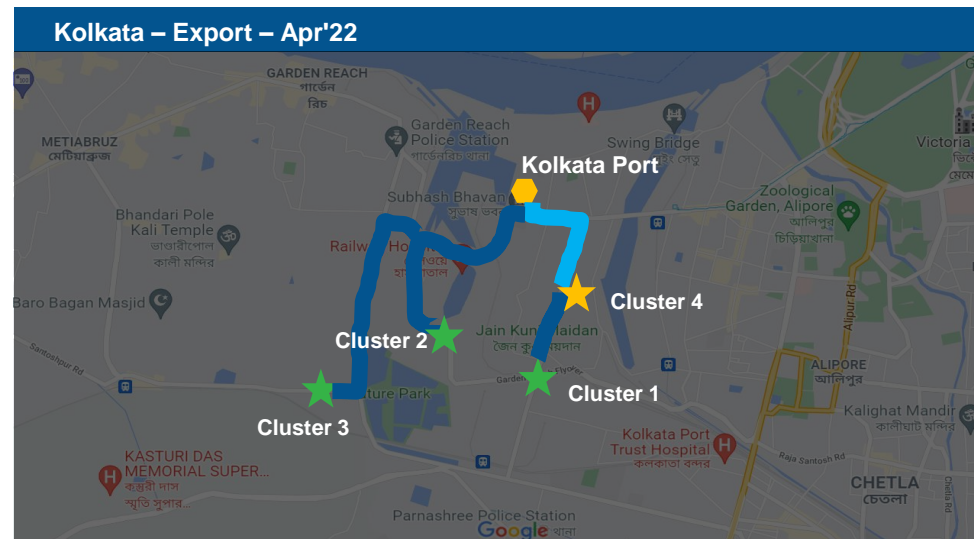
**Legends**

- High Congestion (Dark Blue line)
- Medium Congestion (Medium Blue line)
- Low Congestion (Light Blue line)
- Cluster with bottleneck (Green Star)
- Cluster without bottleneck (Yellow Star)

# Kolkata Region: Congestion Analysis



Clusters with bottleneck	
Cluster 1	Base bridge area
Clusters without bottleneck	
Cluster 2	Sonapur road area
Cluster 3	Nature park area
Cluster 4	Babu bazar area

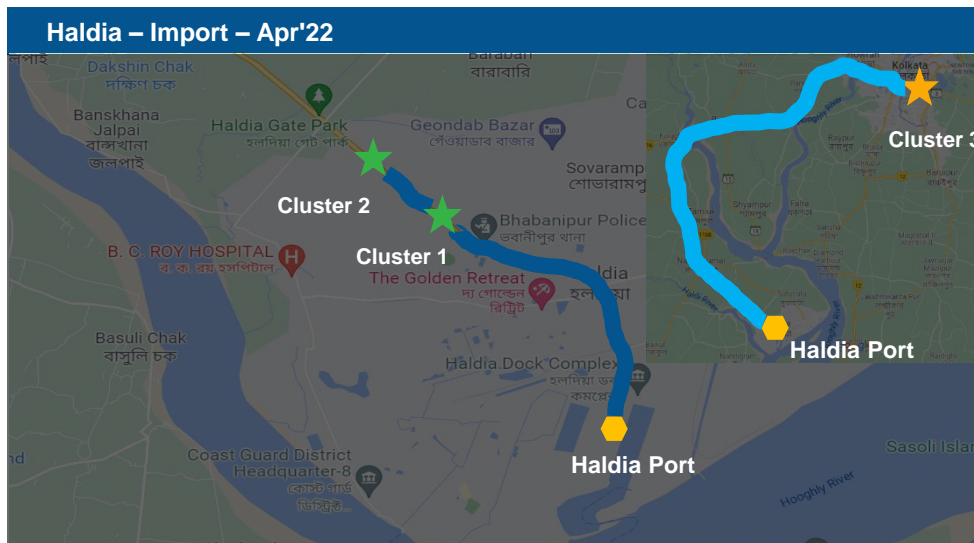


Clusters with bottleneck	
Cluster 1	Base bridge area
Cluster 2	Sonapur road area
Cluster 3	Nature park area
Clusters without bottleneck	
Cluster 4	Babu bazar area

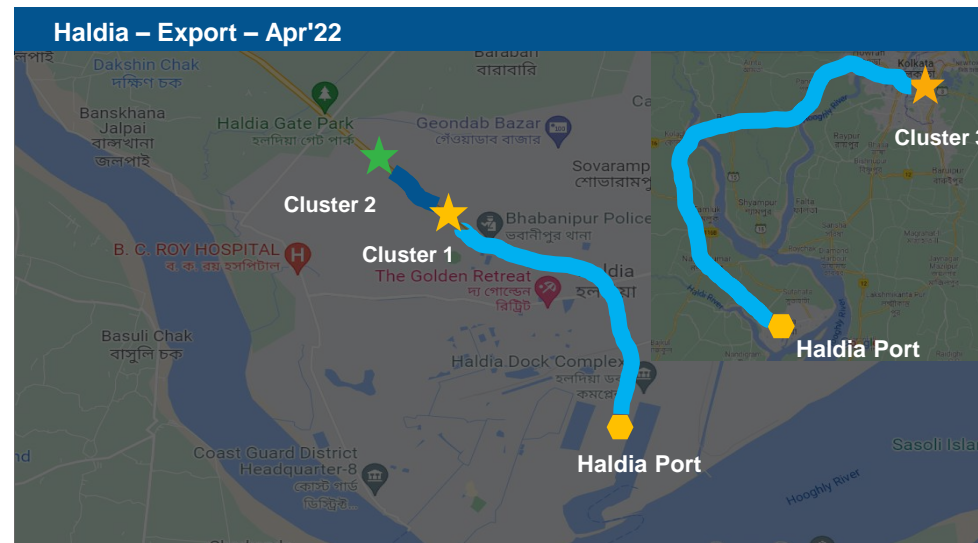
**Legends**

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

# Haldia Region: Congestion Analysis



Clusters with bottleneck	
Cluster 1	Talpukur area, Kolkata highway
Cluster 2	City centre area, Kolkata highway
Clusters without bottleneck	
Cluster 3	Silpodanga area



Clusters with bottleneck	
Cluster 2	City centre area, Kolkata highway
Clusters without bottleneck	
Cluster 1	Talpukur area, Kolkata highway
Cluster 3	Silpodanga area

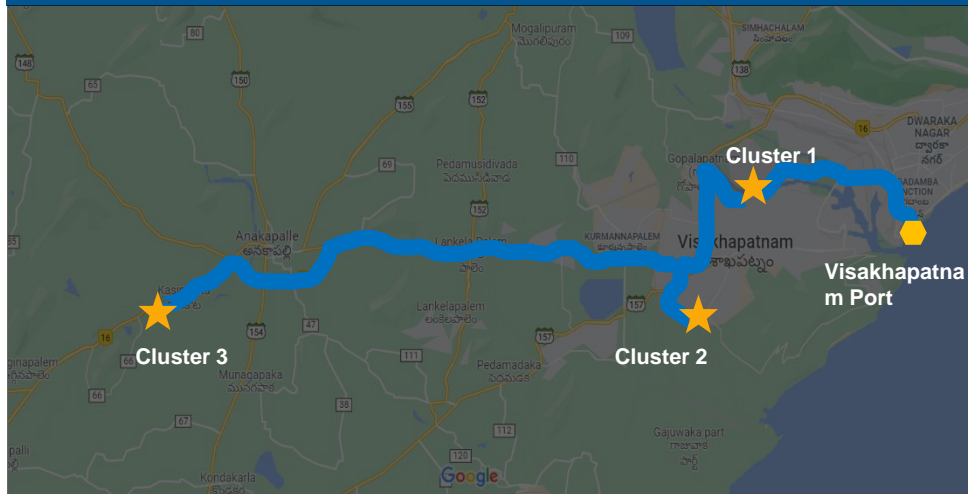
**Legends**

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



# Visakhapatnam Region: Congestion Analysis

Visakhapatnam – Import – Apr'22

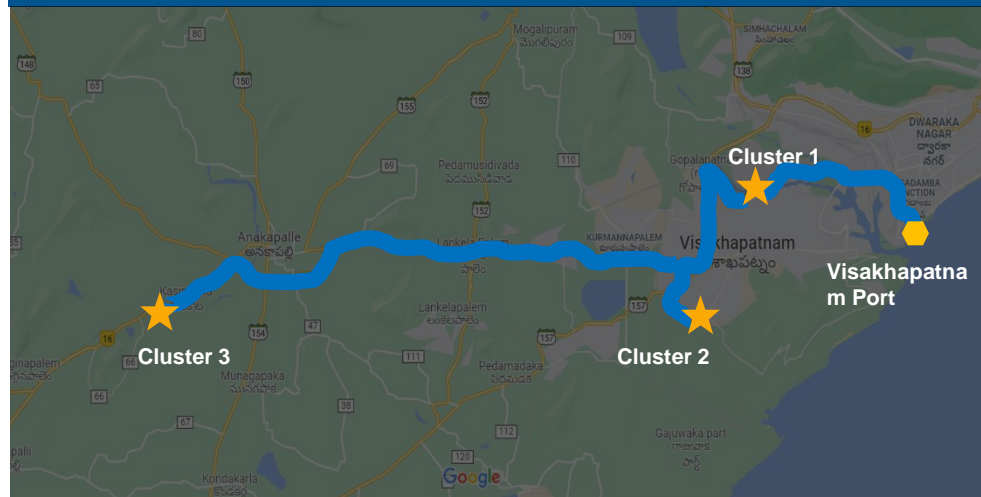


Clusters with bottleneck

Clusters without bottleneck

Cluster 1	Port road, Gopalapatnam area
Cluster 2	Autonagar, Gajuwaka area
Cluster 3	Chennai – Kolkata highway, Bayyavaram area

Visakhapatnam – Export – Apr'22



Clusters with bottleneck

Clusters without bottleneck

Cluster 1	Port road, Gopalapatnam area
Cluster 2	Autonagar, Gajuwaka area
Cluster 3	Chennai – Kolkata highway, Bayyavaram area

## Legends

High Congestion

Medium Congestion

Low Congestion



Cluster with bottleneck



Cluster without bottleneck

# Container Movement across India

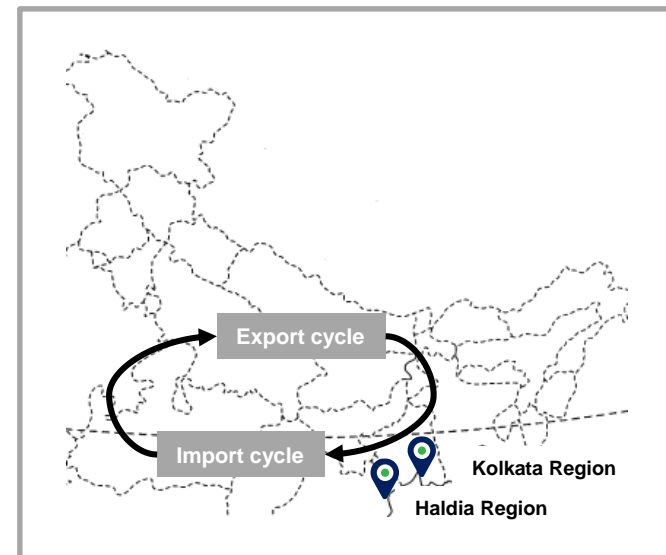


# Transit movement across ICPs

Below is the analysis of the transit movement across ICPs from Kolkata Port Terminal or Haldia Port Terminal both Import and Export cycle

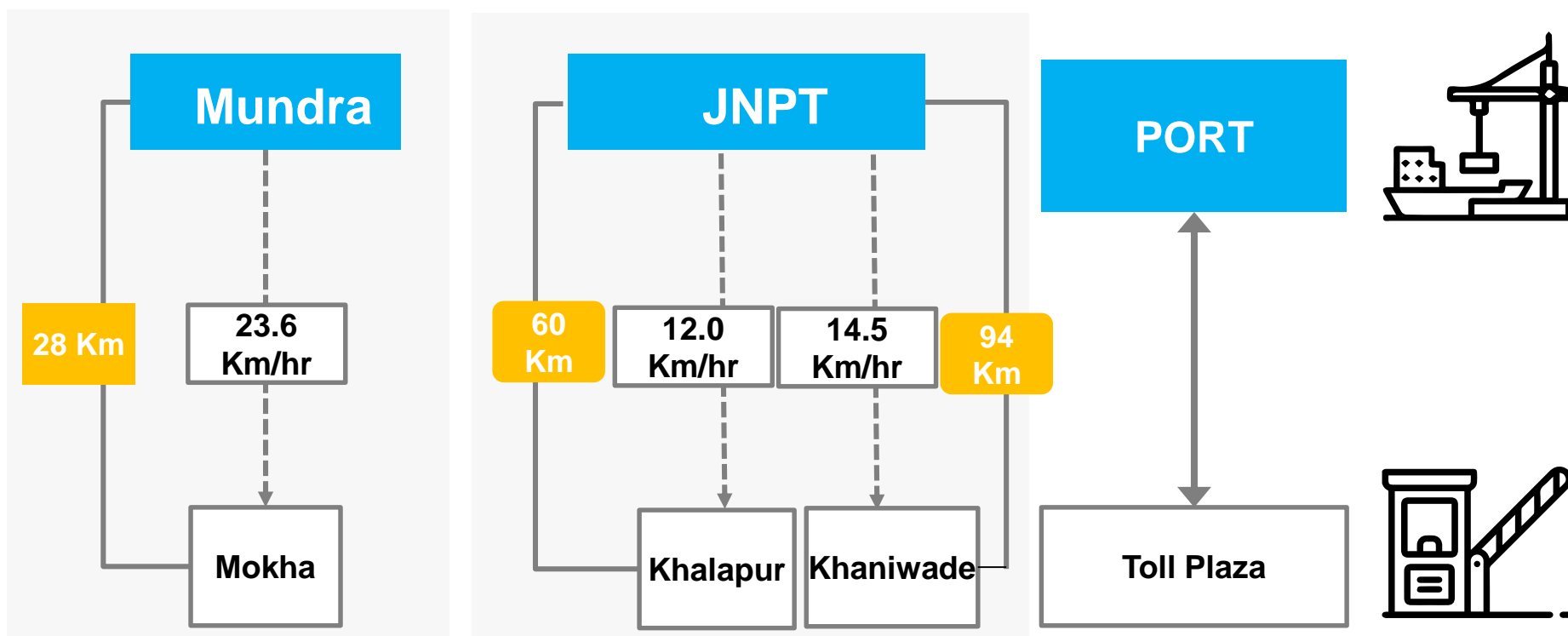
Import Cycle	Kolkata Port Terminal	
	Mode	ICP Raxaul
	Overall	81.4 hrs
	Road	118.9 hrs
	Rail	70.3 hrs
	Haldia Port Terminal	
	Mode	ICP Raxaul
	Overall	113.2

Export Cycle	Kolkata Port Terminal	
	Mode	ICP Raxaul
	Overall	491.7 hrs
	Road	505.0 hrs
	Rail	491.2 hrs
	Haldia Port Terminal	
	Mode	ICP Raxaul
	Overall	319.3 hrs



# Evacuation Efficiency Analysis

Below Table depicts the average speed taken by a truck to cover the distance between a Port terminal to the nearest Toll Plaza



# Evacuation Efficiency Analysis: Other Major Ports

Below Table depicts the average speed taken by a truck to cover the distance between a Port terminal to the nearest Toll Plaza

Region	Port	Adjacent Toll plaza	Distance (in KM)	Average Speed (in Km/h)		
				Feb'22	Mar'22	Apr'22
Western	Hazira	Boriach	77	4.7	7.5	5.1
Eastern	KOPT(Kolkata)	Dankuni	24	2.3	2.5	2.6
	HICT(Haldia)	Debra	100	7.2	8.2	6.6
		Jaladhulagori	101	9.2	8.1	8.1
Southern	Chennai	Surapattu	18	-	-	-
		Nallur	23	1.6	1.5	2.0
	Kochi	Kumbalam	13	0.6	0.7	0.7
		GIPL Palayekara	71	13.5	11.4	10.7
	NMPT (New Manglore)	Brahamarakotlu	25	2.5	1.5	1.6
		Talapady	22.5	2.0	1.3	2.9
		Gundmi	68	5.6	5.6	4.9
	Kattupalli	Surapattu	36	-	-	-
		Nallur	33	2.7	3.1	3.6
	Ennore	Surapattu	35	-	-	-
	Tuticron	VoCPT CheckPost1	4.3	13.1	13.9	14.3

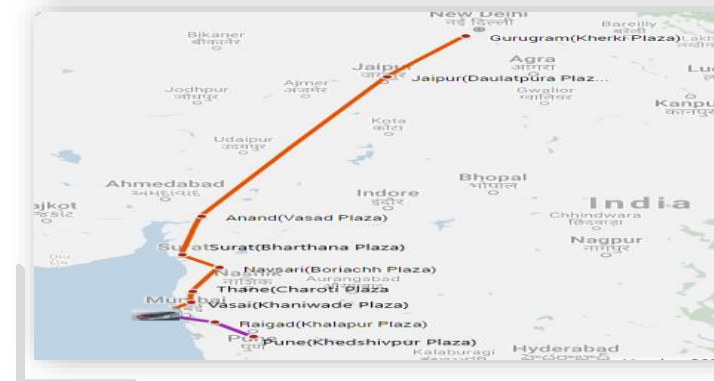
The analysis is based on the container travelling direct from port to toll, i.e. defined by the containers travelling from port to corresponding toll plaza with 2 days



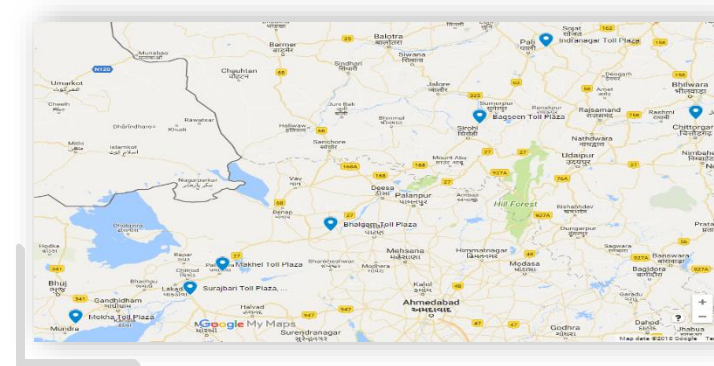
### Avg. Speed between Toll to Toll Plazas

	Source	Destination Toll Plaza	Inter Distance (Km)	Mar'22 (in km/hrs)	Apr'22 (in km/hrs)
JNPT	JNPT	Khaniwade	94	15.2	14.5
	JNPT	Khalapur	60	9.2	12.0
	Khaniwade	Charoti	50	37.9	37.7
	Charoti	Boriach	126	28.9	28.3
	Boriach	Bharthan	142	33.6	31.5
	Bharthan	Vasad	60	38.2	38.6
	Khalalpur	Khedshivpur	105	33.9	33.2
MUNDRA	Mundra	Mokha	28	23.4	23.6
	Mokha	Makhel	150	21.5	18.9
	Mokha	Surajbari	115	26.0	26.6
	Makhel	Bhalgam	108	34.3	34.8

### Toll Plaza - JNPT Port



### Toll Plaza – Mundra Port



# Annexure – Name of the Ports

Terminal Name	Name of the Port
ACMTTL	Adani CMA Mundra Terminal (ACMTTL)
AHPL	Adani Hazira Port Limited (AHPL)
AICT	Adani International Container Terminal (AICT)
AMCT	Adani Mundra Container Terminal (AMCT)
AMCT-2	Adani Mundra Container Terminal-2 (AMCT-2)
BMCT	Bharat Mumbai Container Terminal(PSA)
CCTL	Chennai Container Terminal Pvt. Ltd. (CCTL)
CITPL	Chennai International Terminals Pvt Ltd (CITPL)
DBGT	Dakshin Bharat Gateway Terminal (DBGT)
GTI	Gateway Terminals India (GTI)
HICT	Haldia International Container Terminal (HICT)
AKCTPL	Adani Krishnapatna Container Terminal Pvt. Ltd.

Terminal Name	Name of the Port
KICT	Kandla International Container Terminal (KICT)
ICTT	International Container Transshipment Terminal, Kochi
JNPCT	Jawaharlal Nehru Port Container Terminal (JNPCT)
AKPPL	Kattupalli International Container Terminal (KICT)
KDS	Kolkata Dock System (KDS)
MICT	Mundra International Container Terminal (MICT)
NSIGT	Nhava Sheva India Gateway Terminal (NSIGT)
NSICT	Nhava Sheva International Container Terminal (NSICT)
PSA - SICAL	PSA SICAL Terminals
VCTPL	Visakha Container Terminal
NMPT	New Mangalore Port Trust Terminal
AECT	Adani Ennore Container Terminal (AECT)

1 Century Plyboards CFS, JJP	KOLKATA
2 Phonex CFS	KOLKATA
3 Allcargo Logistics CFS	KOLKATA
4 A L Logistics CFS	HALDIA
5 VPL Integral CFS	VISAKHAPATNAM
6 Century Plyboards CFS, Sonai	KOLKATA
7 Balmer Lawrie CFS	KOLKATA
8 Gateway East India CFS	VISAKHAPATNAM
9 Sravan CFS-1	VISAKHAPATNAM
10 VCT CFS	VISAKHAPATNAM
11 SICAL CFS	VISAKHAPATNAM
12 Sical CFS, Chennai Tiruvallur Tamil Nadu	Chennai
13 Allcargo Global Logistics CFS, Chennai	Chennai
14 Continental Warehousing Corporation CFS (Nhava Seva), Chennai	Chennai
15 Gateway Distriparks CFS, Chennai	Chennai
16 Kerry Indev Logistics ICD, Kanchipuram	Chennai
17 Kailash Shipping Services CFS, Chennai	Chennai
18 ALS Tuticorin Terminal Private Limited	TUTICORIN
19 Ennore Cargo Container Terminal CFS, Chennai	Chennai
20 Calyx Container Terminal CFS, Chennai	Chennai
21 MIV CFS	KOCHI
22 Sattva Hi-Tech And Conware CFS, Chennai	Chennai
23 Triway CFS, Chennai	Chennai
24 Sattva Cfs And Logistics CFS, Chennai	Chennai
25 Balmer Lawrie CFS, Chennai	Chennai
26 Adani CFS, Kattupalli Tiruvallur Tamil Nadu	Chennai
27 Sudharsan Logistics CFS, Chennai	Chennai
28 Chandra CFS, Tiruvallur	Chennai
29 Raja Agencies CFS	TUTICORIN
30 Sanco Trans CFS, Chennai	Chennai
31 A S Shipping Agencies CFS, Tiruvallur	Chennai
32 Hind Terminals CFS, Chennai	Chennai
33 Apm Terminals India CFS, Tiruvallur	Chennai
34 Hari CFS	TUTICORIN
35 Sical Multimodal and Rail Transport Ltd. - CFS Division	TUTICORIN
36 GDKL CFS	KOCHI

37	STP Services CFS, Chennai	Chennai
38	Vilsons CFS	TUTICORIN
39	Thiru Rani Logistics CFS, Tiruvallur	Chennai
40	Diamond CFS Park	TUTICORIN
41	St. John Freight Systems Ltd. - ICD Division	TUTICORIN
42	Glovis India CFS, Kanchipuram	Chennai
43	Continental Warehousing Corporation CFS (Nhava Seva), Tiruvallur	Chennai
44	Chola Logistiks Pvt Ltd	TUTICORIN
45	Continental Warehousing Corporation Nhava Sheva Ltd.	TUTICORIN
46	A.S.Shipping Agencies Pvt Ltd	TUTICORIN
47	Viking Warehousing CFS, Chennai	Chennai
48	Kerry Indev Logistics Private Limited / Continental Container Freight Station	TUTICORIN
49	Gateway Distripark CFS, Krishnapatnam	KRISHNAPATNAM
50	Adani CFS Eximyard, Mundra	Gujarat
51	Gateway Distriparks CFS, Navi Mumbai	Mumbai
52	Saurashtra CFS, Mundra	Gujarat
53	Ameya Logistics CFS, Navi Mumbai	Mumbai
54	Continental Warehousing CFS, Navi Mumbai	Mumbai
55	Navkar Corporation Yard 3 CFS, Panvel	Mumbai
56	Speedy Multimode CFS, JNPT	Mumbai
57	JWC Logistics Park CFS	Mumbai
58	AllCargo Logistics	Mumbai
59	International Cargo Terminal CFS	Mumbai
60	CWC CFS, Mundra	Gujarat
61	International Cargo Terminals (ULA) CFS, Navi Mumbai	Mumbai
62	Seabird CFS, Navi Mumbai	Mumbai
63	Hind Terminals Pvt. Ltd. CFS, Mundra	Gujarat
64	Ashtosh CFS, Mundra	Gujarat
65	Honey Comb CFS, Mundra	Gujarat
66	MICT CFS, Mundra	Gujarat
67	TG Terminals CFS, Mundra	Gujarat
68	Sarveshwar CFS	Mumbai
69	Landmark CFS, Mundra	Gujarat
70	Ashte Logistics CFS, Panvel	Mumbai
71	AllCargo CFS, Mundra	Gujarat
72	Mundhra CFS, Mundra	Gujarat

73	Seabird CFS, Mundra	Gujarat
74	Apollo Logisolutions CFS, Panvel	Mumbai
75	Ocean Gate CFS, Panvel	Mumbai
76	EFC Logistics India	Mumbai
77	Rishi CFS, Mundra	Gujarat
78	Seabird CFS, Hazira	Gujarat
79	Navkar Corporation Yard 2 CFS, Panvel	Mumbai
80	Take Care Logistics CFS	Mumbai
81	Dronagiri Rail Terminal CFS, Navi Mumbai	Mumbai
82	TG Terminals CFS	Mumbai
83	Vaishno Logistics CFS, Navi Mumbai	Mumbai
84	Maharashtra State Corp CFS	Mumbai
85	Balmer & Lawrie CFS, Navi Mumbai	Mumbai
86	Adani CFS, Hazira	Gujarat
87	Hind Terminal CFS, Hazira	Gujarat
88	Transworld CFS, Mundra	Gujarat
89	Kerry Indev Logistics Pvt Ltd CFS	Mumbai
90	Punjab Conware CFS, Navi Mumbai	Mumbai
91	A V Joshi CFS	Gujarat
92	APM (Maersk India) CFS, Navi Mumbai	Mumbai
93	Navkar Corporation Yard 1 CFS, Panvel	Mumbai
94	Empezar Logistics CFS	Gujarat
95	Maersk Annex (APM)CFS, Navi Mumbai	Mumbai
96	LCL Logistix CFS, Pipavav	Gujarat



# Annexure – Western Region

## List of CFS name used in CFS Performance Index

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

## List of ICD name used in ICD Performance Index

1	ACTL ICD, Faridabad
2	Adani Logistics Park ICD, Gurgaon
3	Albatross Inland Ports ICD, Dadri
4	Allcargo Logistics Park ICD, Dadri
5	APM Terminals ICD, Dadri
6	CMA CGM Logistics Park, Dadri
7	Gateway Rail Freight ICD, Gurgaon
8	GatewayRail Freight ICD, Pyala
9	Hind Terminals Logistics Park ICD, Palwal
10	Navkar ICD, Tumb
11	Pristine ICD Chawapail
12	The Thar Dry Port
13	Continental Warehousing Corporation Nhava Sheva pvt.

# Annexure – Southern & Eastern Region

## List of CFS name used in Southern CFS Performance Index

1	Sical CFS, Chennai Tiruvallur Tamil Nadu	20	A S Shipping Agencies CFS, Tiruvallur
2	Allcargo Global Logistics CFS, Chennai	21	Hind Terminals CFS, Chennai
3	Continental Warehousing Corporation CFS (Nhava Seva), Chennai	22	Apm Terminals India CFS, Tiruvallur
4	Gateway Distriparks CFS, Chennai	23	Hari CFS
5	Kerry Indev Logistics ICD, Kanchipuram	24	Sical Multimodal and Rail Transport Ltd. - CFS Division
6	Kailash Shipping Services CFS, Chennai	25	GDKL CFS
7	ALS Tuticorin Terminal Private Limited	26	STP Services CFS, Chennai
8	Ennore Cargo Container Terminal CFS, Chennai	27	Vilsons CFS
9	Calyx Container Terminal CFS, Chennai	28	Thiru Rani Logistics CFS, Tiruvallur
10	MIV CFS	29	Diamond CFS Park
11	Sattva Hi-Tech And Conware CFS, Chennai	30	St. John Freight Systems Ltd. - ICD Division
12	Triway CFS, Chennai	31	Glovis India CFS, Kanchipuram
13	Sattva Cfs And Logistics CFS, Chennai	32	Continental Warehousing Corporation CFS (Nhava Seva), Tiruvallur
14	Balmer Lawrie CFS, Chennai	33	Chola Logistiks Pvt Ltd
15	Adani CFS, Kattupalli Tiruvallur Tamil Nadu	34	Continental Warehousing Corporation Nhava Sheva Ltd.
16	Sudharsan Logistics CFS, Chennai	35	A.S.Shipping Agencies Pvt Ltd
17	Chandra CFS, Tiruvallur	36	Viking Warehousing CFS, Chennai
18	Raja Agencies CFS	37	Kerry Indev Logistics Private Limited / Continental Container Freight Station
19	Sanco Trans CFS, Chennai	38	Gateway Distripark CFS, Krishnapatnam

## List of CFS name used in Eastern CFS Performance Index

1	Century Plyboards CFS, JJP
2	Phonex CFS
3	Allcargo Logistics CFS
4	A L Logistics CFS
5	VPL Integral CFS
6	Century Plyboards CFS, Sonai
7	Balmer Lawrie CFS
8	Gateway East India CFS
9	Sravan CFS-1
10	VCT CFS
11	SICAL CFS

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