

Logistics
Databank
Analytics
Report







Section 1

# Report Inference

This sections depicts the inference and major highlights of the report

- 1. Pan India Performance
- 2. <u>Port Dwell Time Performance Corridor & Terminal wise</u> <u>Performance</u>
- 3. Critical Incident Summary
- 4. COVID-19 impact
- Pan India Port Performance Benchmarking & Performance Index
- Pan India CFS Performance Benchmarking & Performance Index
- Region wise segmentation, Western Region ICD performance and region-wise CFS performance

Section 02

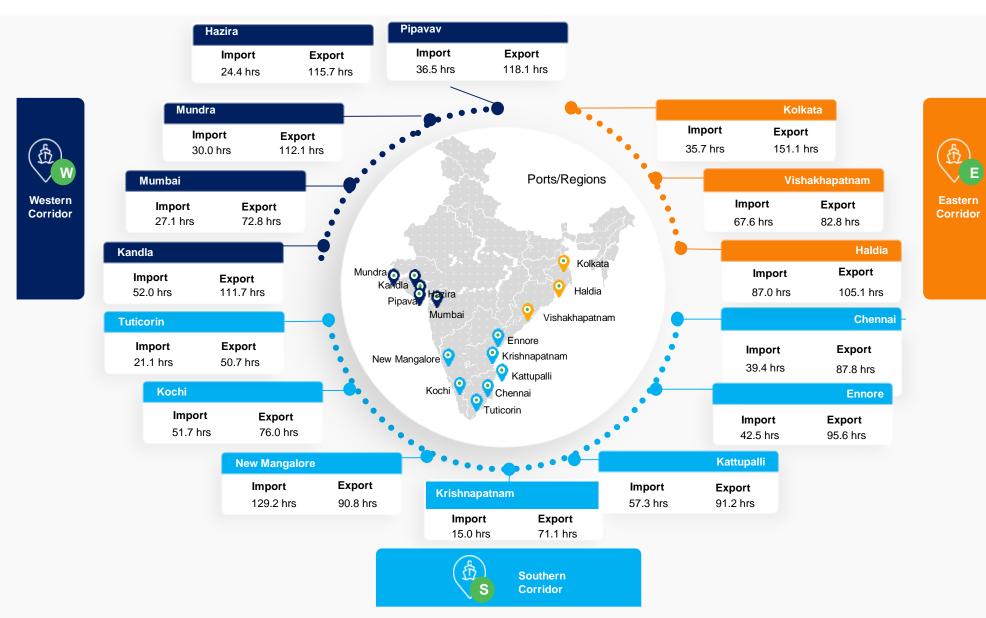
## Annexure

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: July 2022 (Dwell Time)





Page

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



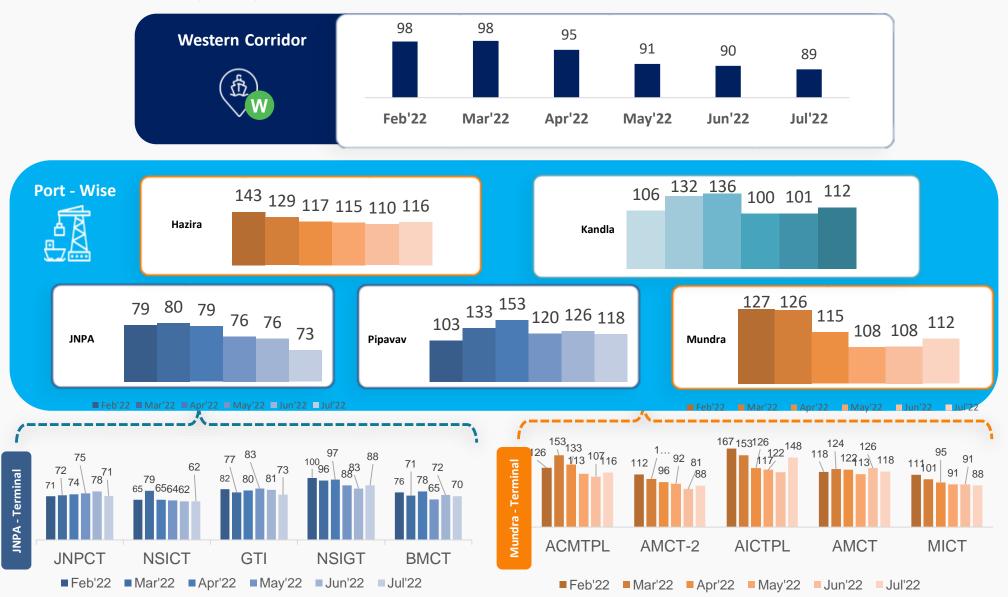
Import Cycle – Dwell Time Performance – Western Corridor (in hrs)



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



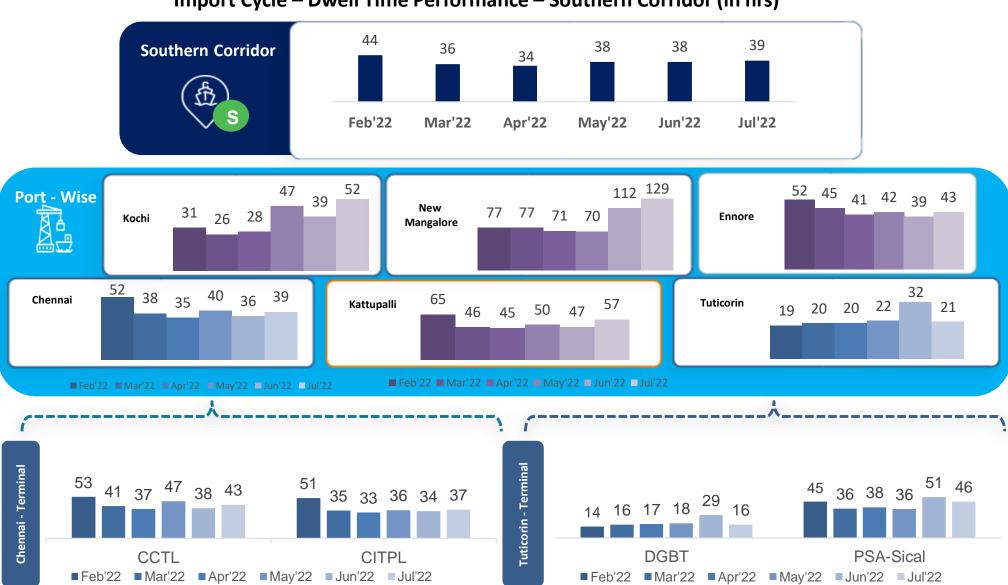
## **Export Cycle – Dwell Time Performance – Western Corridor (in hrs)**



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



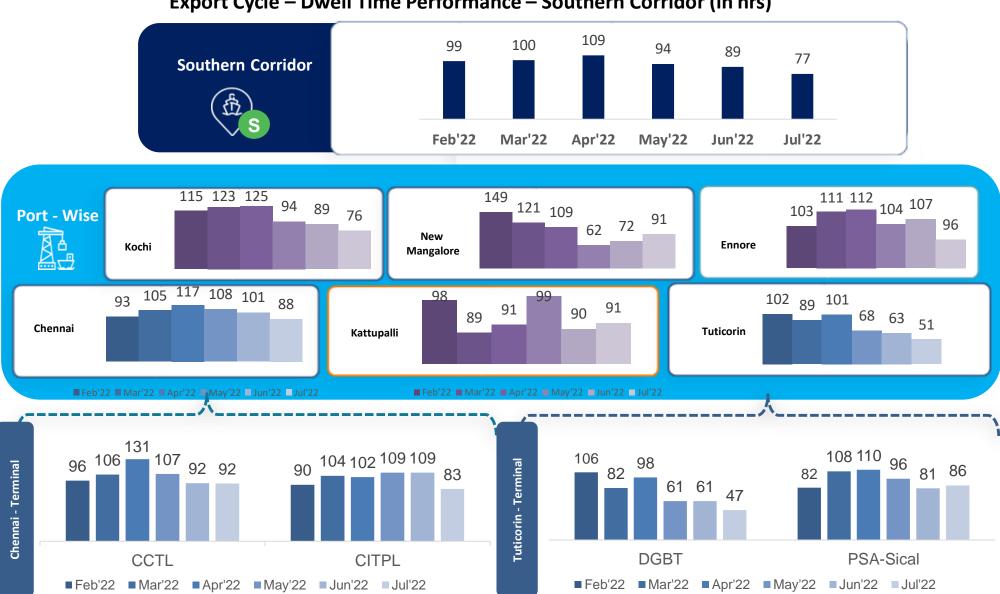
Import Cycle – Dwell Time Performance – Southern Corridor (in hrs)



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



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



## Port Dwell Time Performance – Eastern Corridor





## **Export Cycle (in hrs)**

**Eastern Corridor** 

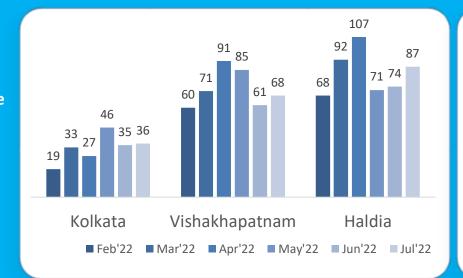


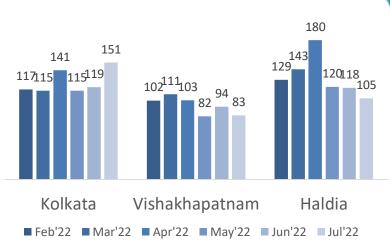




Port - Wise

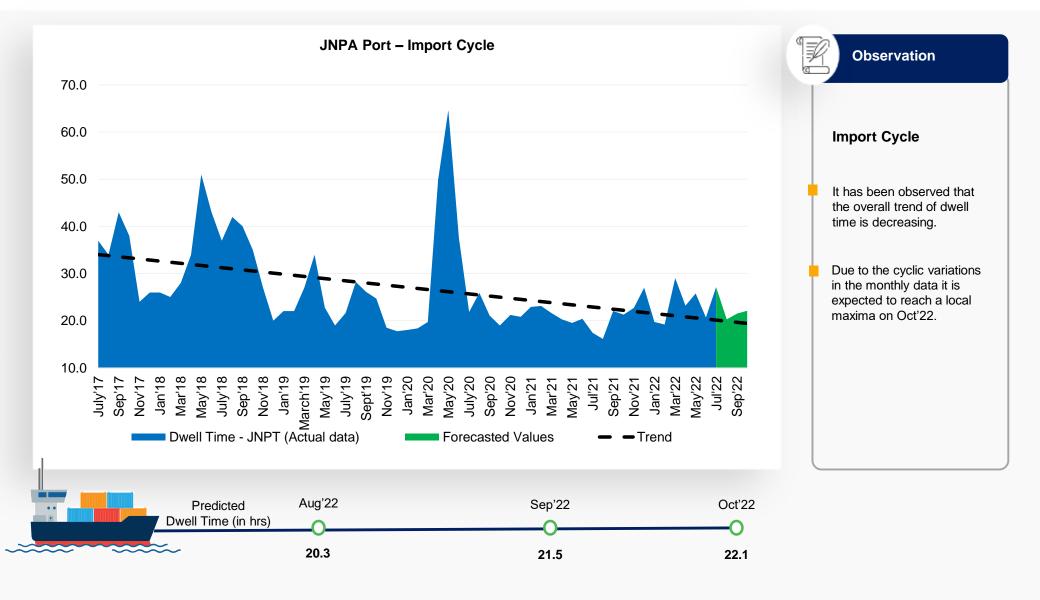






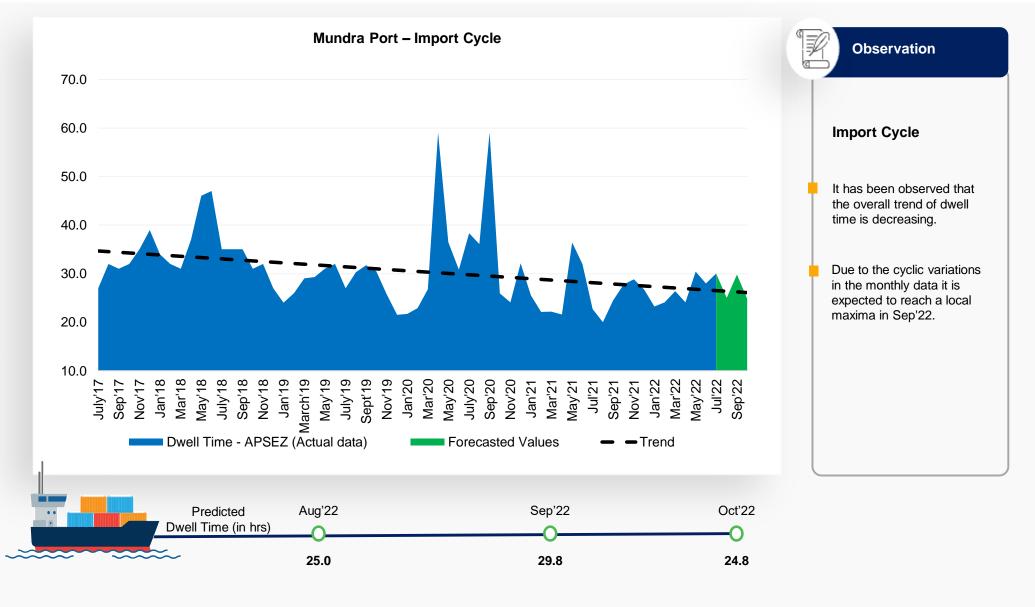
# Predictive Analysis: JNPA Port





# Predictive Analysis: Mundra Port





# **Critical Incident Summary**



## Western Corridor

- The Overall container handling performance in Western Corridor in Import Cycle has deteriorated by 14.9% & Export Cycle improved by 1.2%.
- The container handling performance at CFS has deteriorated by 1.7%. Also, ICD performance has deteriorated by 0.1%.

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time	ICD Dwell Time
Jul'22	28.6 hrs	89.0 hrs	84.9 hrs	117.0 hrs
Jun'22	24.9 hrs	90.1 hrs	83.5 hrs	116.9 hrs

# Southern Corridor

- The Overall container handling performance in Southern Corridor in Import Cycle has deteriorated by 3.4% & in Export Cycle has improved by 13.6%.
- The container handling performance at CFS has deteriorated by 1.1%

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time
Jul'22	39.1 hrs	77.1 hrs	104.2 hrs
Jun'22	37.8 hrs	89.2 hrs	103.1 hrs

# **Eastern Corridor**

- The Overall container handling performance in Eastern Corridor for Import Cycle has deteriorated by 6.6% and Export Cycle has deteriorated by 4.5%.
- The container handling performance at CFS has improved by 4.1%.

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time
Jul'22	51.5 hrs	110.6 hrs	121.6 hrs
Jun'22	48.3 hrs	105.8 hrs	126.8 hrs

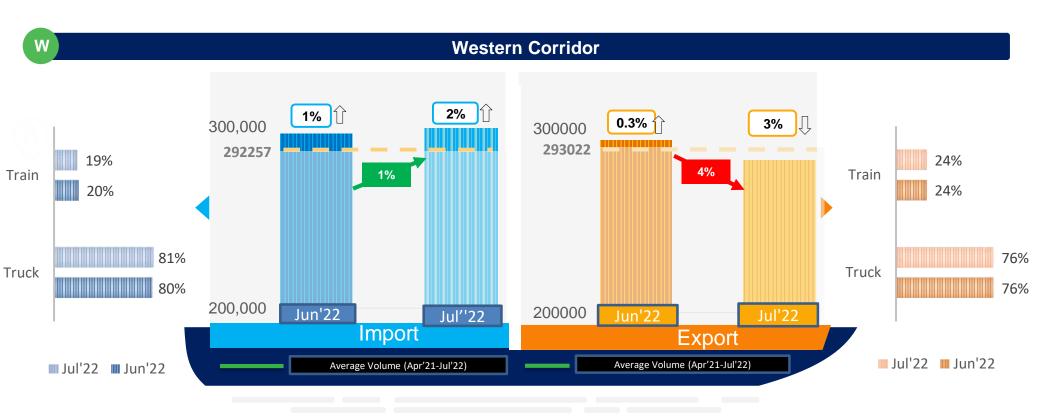
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# Covid-19 Impact – Western Corridor



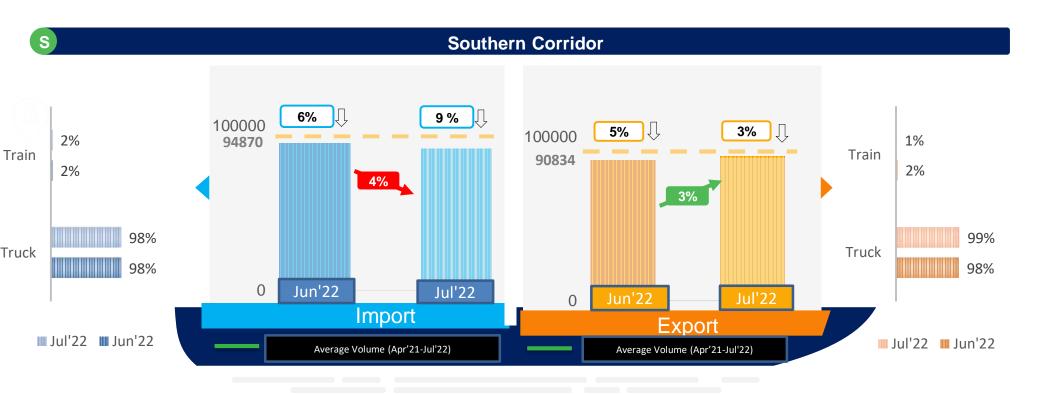
Below graphs depicts the change in volume percentage during the month of July'22 w.r.t the last month i.e., June'22 and the average EXIM corridor wise volume.



# Covid-19 Impact – Southern Corridor



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

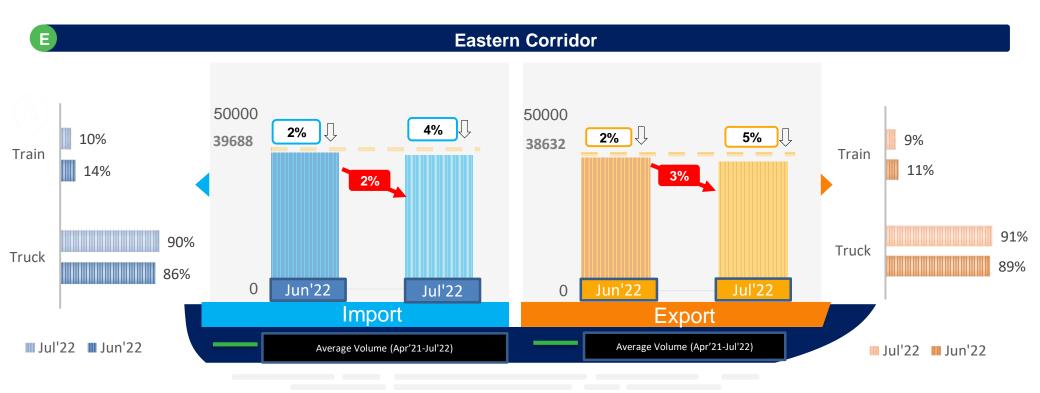


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# Covid-19 Impact – Eastern Corridor



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

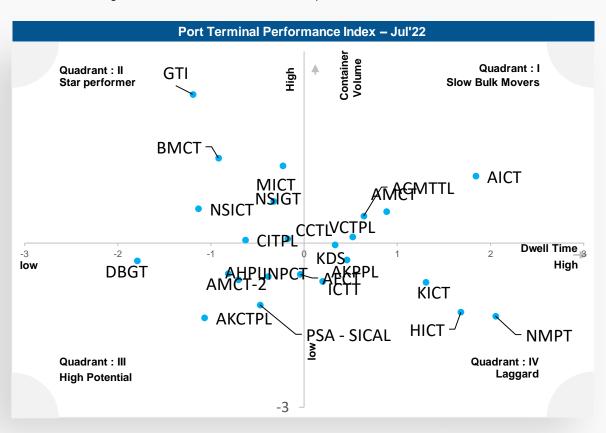


# Pan India - Port Performance Benchmarking & Performance Index



### **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 Jul'22		
Top Performing Terminal		
Gateway Terminals India (GTI)		
Jun'22	Jul'22	
40.1 Hrs	42.9 Hrs.	
Low Perfori	ning Terminal	
New Manglore Port Trust (NMPT)		
Jun'22	Jul'22	
97.9 Hrs	103.7 Hrs	
Note: The performance benchmarking is based on performance index  The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Jun'22		
Performance Index - Summary		

In order to assess the relative performance of various entitled 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

**High Potential** 

Consist of entities which have catered relatively high container volume in lower dwell time

### Consist of entities which have catered relatively lower container volume in lower dwell time

### Slow Bulk Movers

Consist of entities which have catered higher container volume in higher dwell time

### Laggard

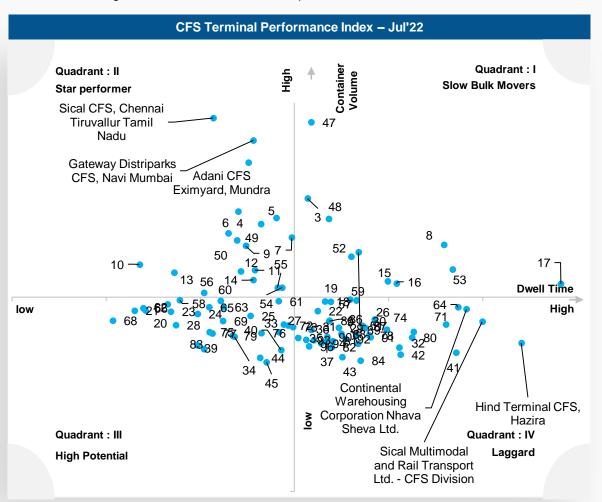
Consist of entities which have catered relatively lower container volume at higher dwell time

# 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 Jul'22

Top Three Performing CFSs		
CFS Name	Jun'22	Jul'22
Sical CFS, Chennai Tiruvallur Tamil Nadu	89.9 hrs	78.4 hrs 👚
Gateway Distriparks CFS, Navi Mumbai	80.0 hrs	82.2 hrs 👢
Adani CFS Eximyard, Mundra	73.4 hrs	81.7 hrs 👢
Bottom Three Performing CFSs		
CFS Name	Jun'22	Jul'22
CFS Name Hind Terminal CFS, Hazira	Jun'22 110.0 hrs	Jul'22 112.2 hrs

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

### Performance Index - Summary

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

### Star Performer

Consist of entities which have catered relatively high container volume in lower dwell time

### **High Potential**

Consist of entities which have catered relatively lower container volume in lower dwell time

### Slow Bulk Movers

Consist of entities which have catered higher container volume in higher dwell time

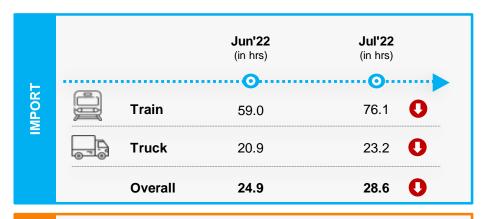
### Laggard

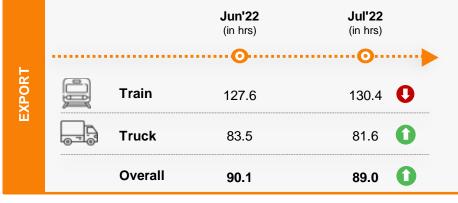
Consist of entities which have catered relatively lower container volume at higher dwell time

# Container Transportation Performance - Western Corridor

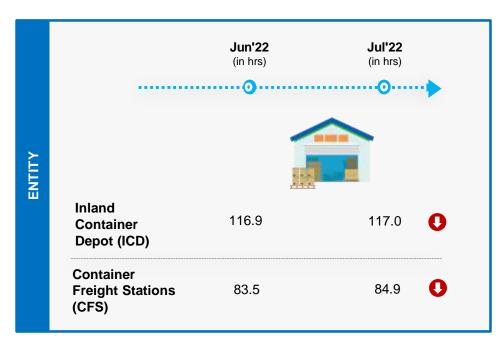


### **Port Dwell Time**





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



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

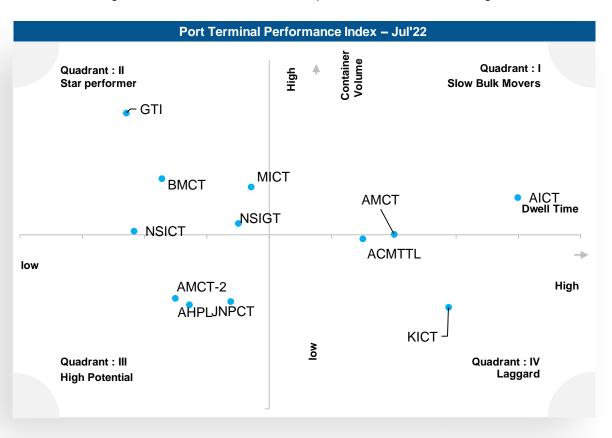
The marked entries showcase decrease in performance in comparison to Jun'22

## 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 benchmarking for Port Terminals covered under LDB project for Jul'22

Top Performing Terminal			
Gateway Terminals India (GTI)			
Jun'22	Jul'22		
40.2 Hrs	42.9 Hrs.		
Low Performing Terminal			
Kandla International Container Terminal (KICT)			
Jun'22	Jul'22		
69.0 Hrs	89.7 Hrs.		

Note: The performance benchmarking is based on performance index



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

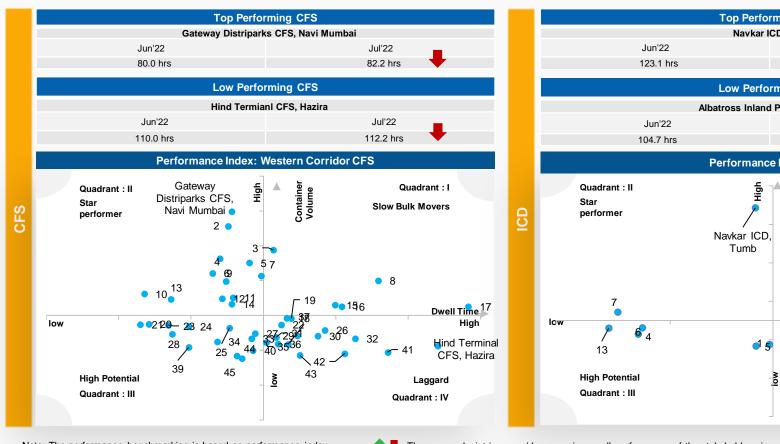
Performance Index - Summary		lex - Summary	
In order to assess the relative performance of various entitied like Port terminals, CFS ICD(s), the relative Dwell time as well as the volume of containers handled by them are graphically in the form of an index to portray the performance of a particular organisation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

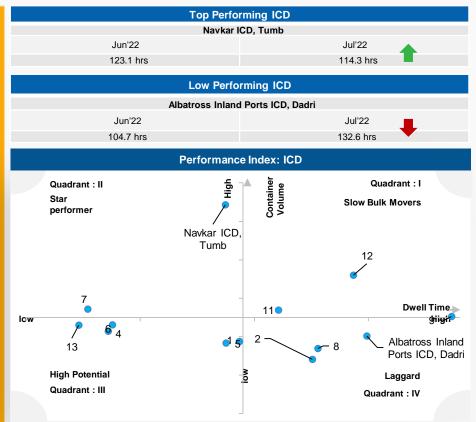
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# CFS/ICD Performance Benchmarking & Performance Index - Western Corridor



## **Performance Benchmarking**





Note: The performance benchmarking is based on performance index

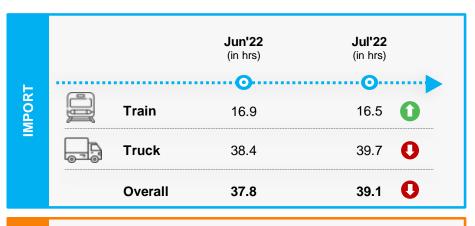
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Jun'22

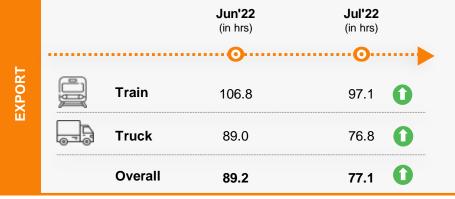
Kindly refer to Annexure section for the names of CFS and ICD

# Container Transportation Performance - Southern Corridor

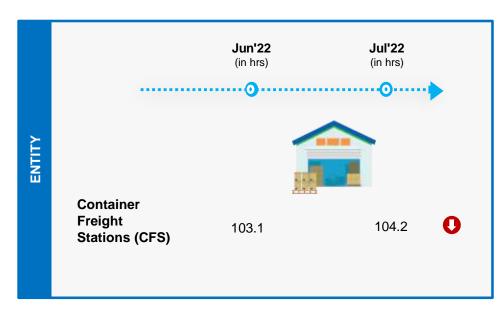


### **Port Dwell Time**





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



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

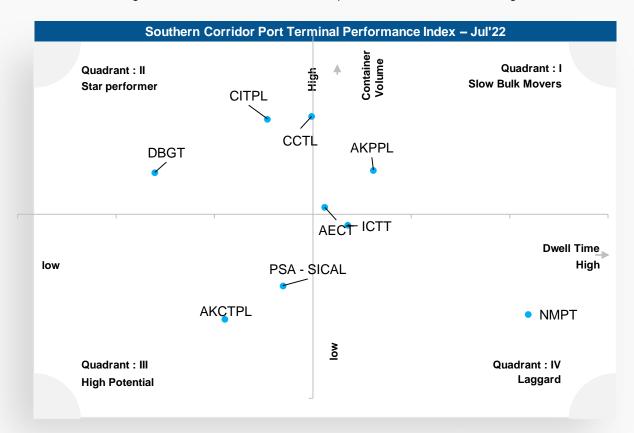
The marked entries showcase decrease in performance in comparison to Jun'22

# Port Performance Benchmarking & Performance Index - Southern Corridor



### **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 Jul'22

project for Jul'22		
Top Performing Terminal		
Chennai International Terminals Pvt Ltd (CITPL)		
Jun'22	Jul'22	
58.8 hrs	53.5 hrs	
Low Performing Terminal		
New Mangalore Port Trust		
Jun'22	Jul'22	
97.9 hrs	103.7 hrs	
Note: The performance benchmarking is based on performance index		
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Jun'22		
Performance Index - Summary		
In order to assess the relative performance of various entitited 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 Slow Bulk Movers		
Consist of entities which have catered relatively	Consist of entities which have catered	

time

Laggard

higher container volume in higher dwell

Consist of entities which have catered relatively

lower container volume at higher dwell time

high container volume in lower dwell time

lower container volume in lower dwell time

Consist of entities which have catered relatively

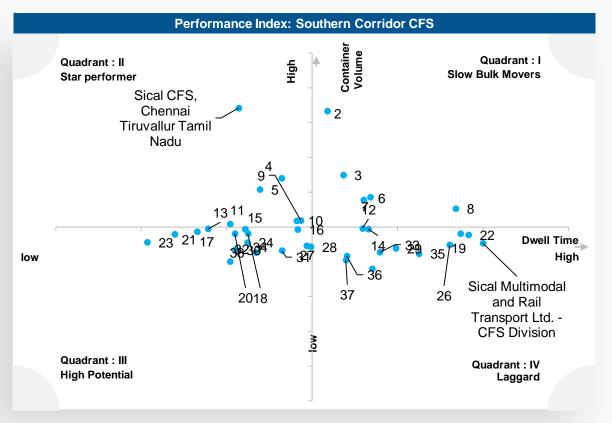
**High Potential** 

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# CFS Performance Benchmarking & Performance Index - Southern Corridor



### **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 Jul'22

project in Southern Corridor for Jul 22		
Top Performing Terminal		
Sical CFS, Chennai Tiruvallur Tamil Nadu		
Jun'22	Jul'22	
90.0 hrs	78.4 hrs	
Low Performing Terminal		
Sical Multimodal and Rail Transport Ltd. CFS Division		
Jun'22	Jul'22	
178.8 hrs	184.7 hrs	
Note: The performance benchmarking is based on performance index		
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Jun'22		
Performance Index - Summary		
In order to assess the relative performance of various entitied 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 Slow Bulk Movers		

Consist of entities which have catered

higher container volume in higher dwell

Consist of entities which have catered relatively

lower container volume at higher dwell time

time

Laggard

Consist of entities which have catered relatively

Consist of entities which have catered relatively

high container volume in lower dwell time

lower container volume in lower dwell time

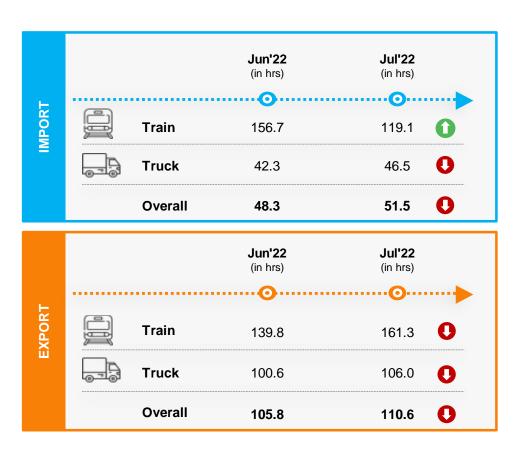
**High Potential** 

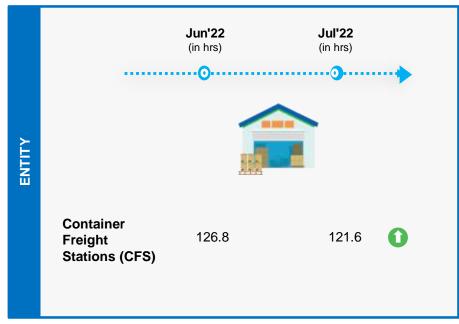
# Container Transportation Performance - Eastern Corridor



### **Port Dwell Time**

## Container Freight Stations(CFS)- Dwell Time





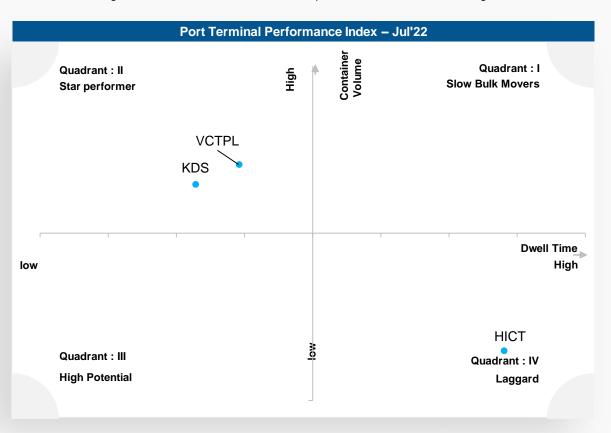
- The marked entries showcase increase in performance in comparison to Jun'22
- The marked entries showcase decrease in performance in comparison to Jun'22

## Port Performance Benchmarking & Performance Index - Eastern Corridor



## **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 Jul'22

project in Eastern Corridor for Jul'22			
Top Performing Terminal			
Visakha Container Terminal (VCTPL)			
Jun'22	Jul'22		
79.1 hrs	75.0 hrs		
Low Performing Terminal			
Haldia International Container Terminal (HICT)			
Jun'22	Jul'22		
84.5 hrs	96.7 hrs		
Note: The performance benchmarking	is based on performance index		
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Jun'22			
Performance Index - Summary			
In order to assess the relative performance of various entitied 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	Slow Bulk Movers		

Consist of entities which have catered higher container volume in higher dwell

Consist of entities which have catered relatively

lower container volume at higher dwell time

time

Laggard

Consist of entities which have catered relatively

Consist of entities which have catered relatively

high container volume in lower dwell time

lower container volume in lower dwell time

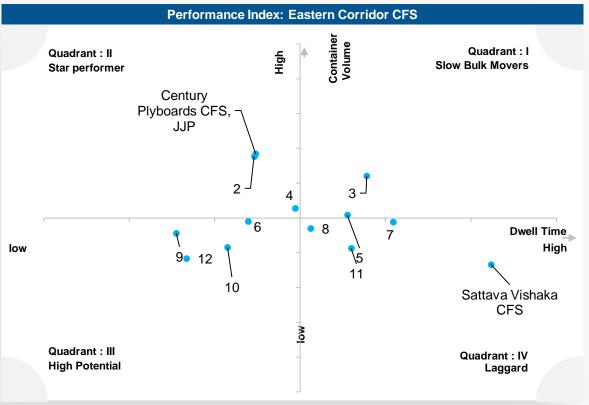
**High Potential** 

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# CFS Performance Benchmarking & Performance Index - Eastern Corridor



### **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 Jul'22

Top Performing Terminal			
Century Plyboards CFS, JJP			
Jun'22	Jul'22		
130.5 hrs	111.5 hrs		
Low Performing Terminal			
Sattava Vishaka CFS			
Jun'22	Jul'22		
165.3 hrs	175.6 hrs		

Note: The performance benchmarking is based on performance index



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

Performance ind	ex - Summary	
In order to assess the relative performance of various entitled 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	Slow Bulk Movers	
Consist of entities which have catered relatively high container volume in lower dwell time	Consist of entities which have catered higher container volume in higher dwell time	

### High Potentia

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

to Annexure section for the names of

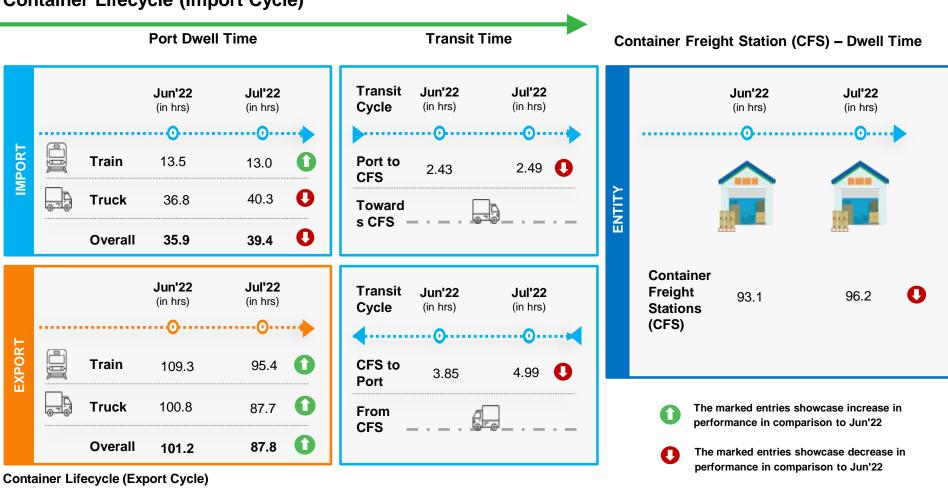




# Chennai Port Terminals: Container Transportation



## **Container Lifecycle (Import Cycle)**

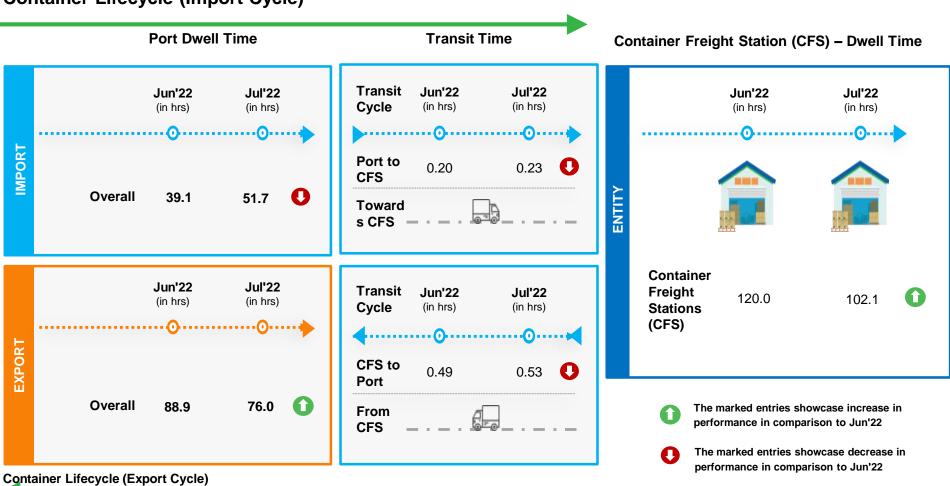


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# Kochi Port Terminal: Container Transportation



## **Container Lifecycle (Import Cycle)**

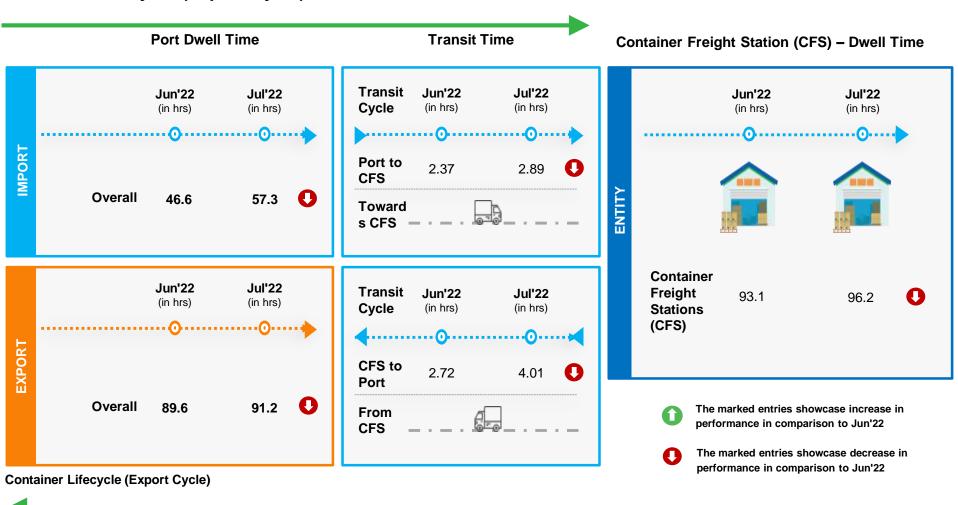


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# Kattupalli Port Terminal: Container Transportation



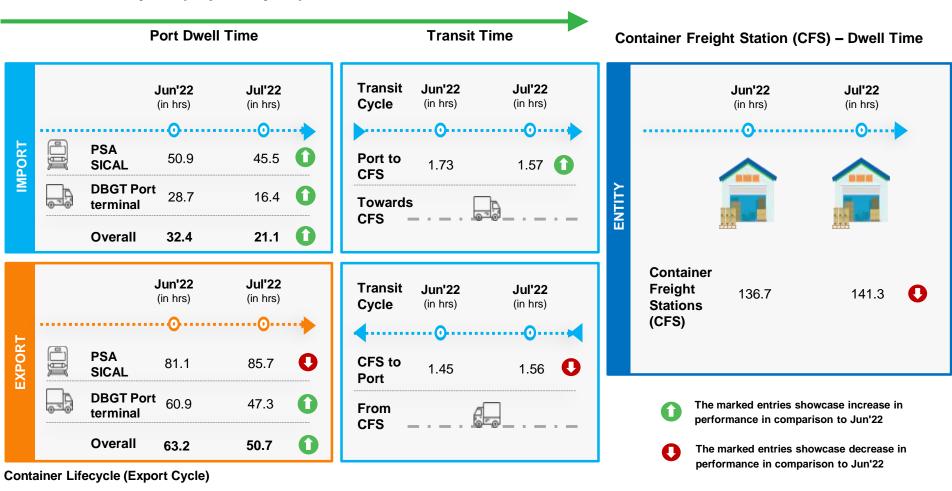
## **Container Lifecycle (Import Cycle)**



# Tuticorin Port Terminal: Container Transportation



## **Container Lifecycle (Import Cycle)**

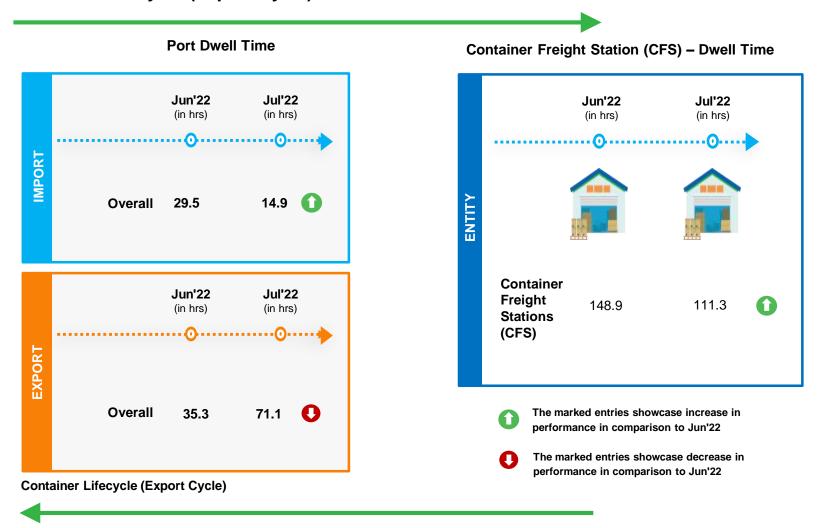


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# Krishnapatnam Port Terminal: Container Transportation



## **Container Lifecycle (Import Cycle)**



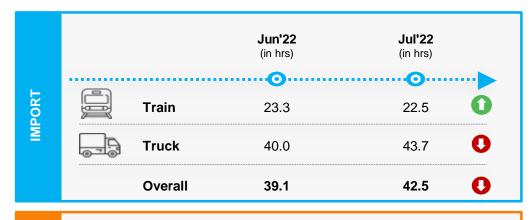
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# Ennore Port Terminal: Container Transportation



## **Container Lifecycle (Import Cycle)**

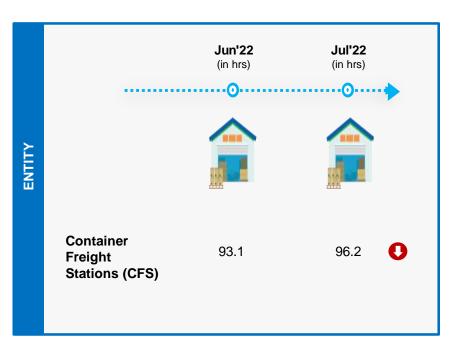
### **Port Dwell Time**





### **Container Lifecycle (Export Cycle)**

### Container Freight Stations(CFS)- Dwell Time



- The marked entries showcase increase in performance in comparison to Jun'22
- The marked entries showcase decrease in performance in comparison to Jun'22

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# New Mangalore Port Terminal: Container Transportation



### **Port Dwell Time**



- The marked entries showcase increase in performance in comparison to Jun'22
- The marked entries showcase decrease in performance in comparison to Jun'22

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## Vishakhapatnam Port Terminal: Container Transportation

**Container Lifecycle (Export Cycle)** 



#### **Container Lifecycle (Import Cycle) Port Dwell Time Transit Time** Container Freight Station (CFS) - Dwell Time Jun'22 Jul'22 Jun'22 Jul'22 Transit Jul'22 Jun'22 Cycle (in hrs) (in hrs) (in hrs) (in hrs) (in hrs) (in hrs) IMPORT Port to 2.22 1.95 **CFS** 67.6 Overall 61.3 **Toward** s CFS Container Jun'22 Jul'22 **Transit** Jun'22 Freight Jul'22 136.6 128.9 (in hrs) (in hrs) Cycle (in hrs) (in hrs) **Stations** (CFS) ..... EXPORT CFS to 1.97 2.08 **Port** Overall 94.0 82.8 The marked entries showcase increase in From performance in comparison to Jun'22 **CFS**

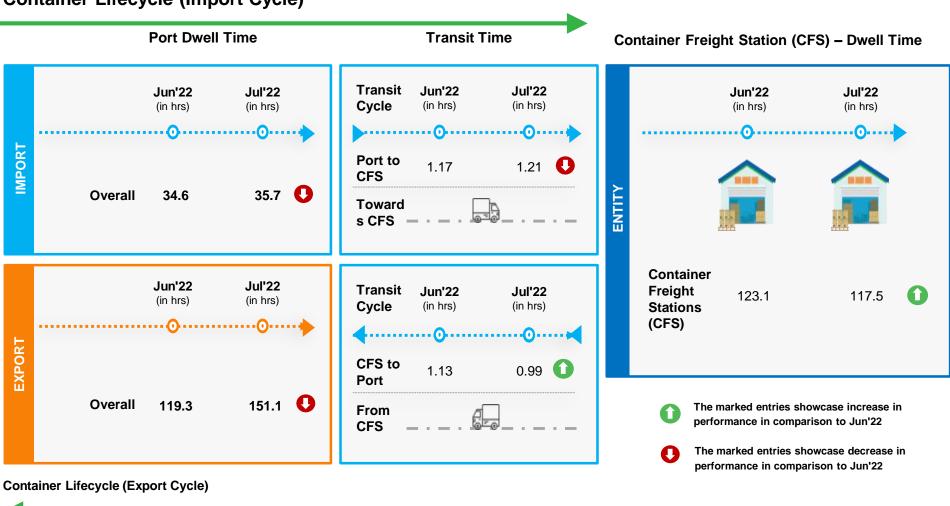
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The marked entries showcase decrease in performance in comparison to Jun'22

### Kolkata Port Terminal: Container Transportation



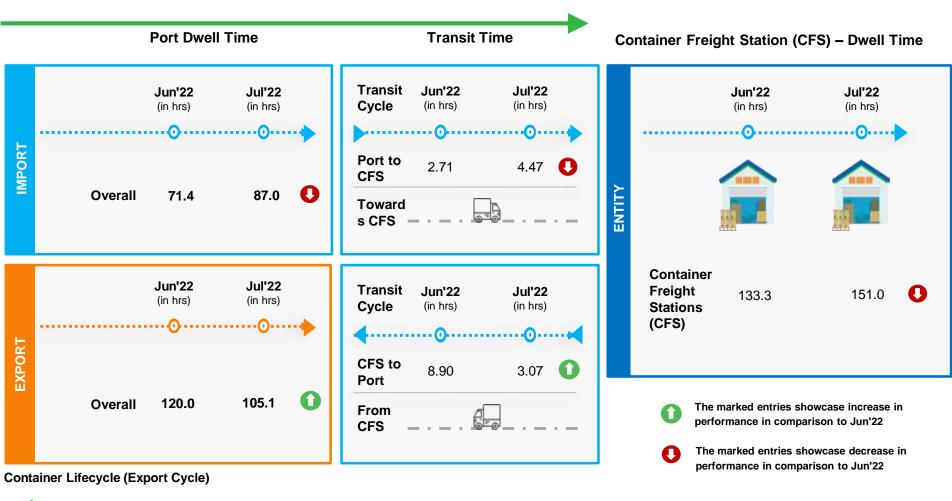
### **Container Lifecycle (Import Cycle)**



### Haldia Port Terminal: Container Transportation



### **Container Lifecycle (Import Cycle)**

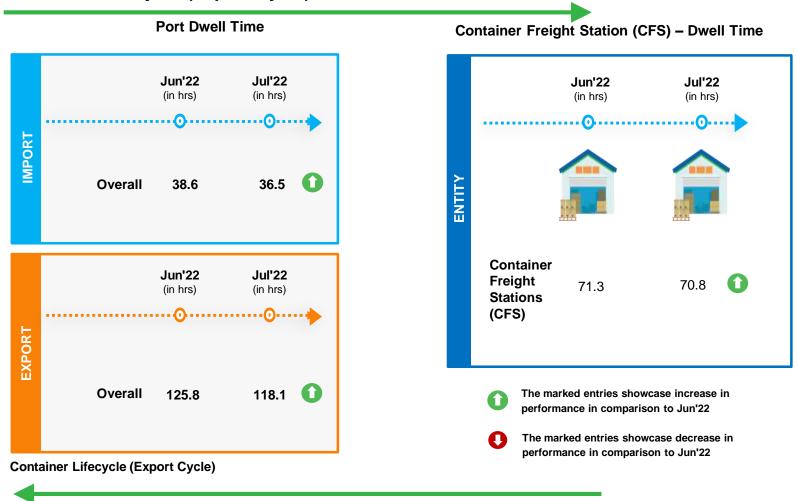




### Pipavav Port Terminal: Container Transportation



### **Container Lifecycle (Import Cycle)**



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## Kandla Port Terminal: Container Transportation



#### **Port Dwell Time**

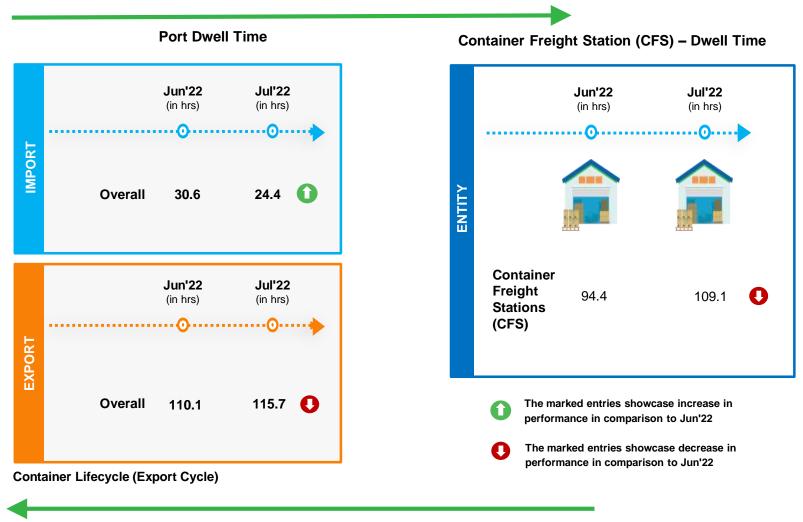


- The marked entries showcase increase in performance in comparison to Jun'22
- The marked entries showcase decrease in performance in comparison to Jun'22

### Hazira Port Terminal: Container Transportation



### **Container Lifecycle (Import Cycle)**

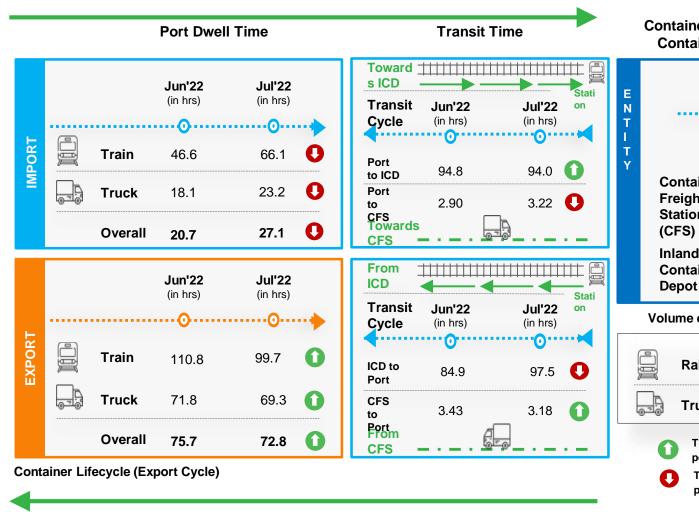


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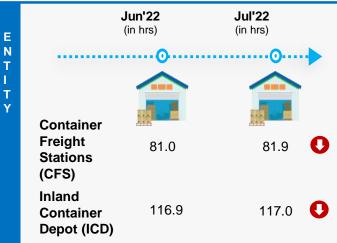
## Container Transportation- JNPA Port Terminals



### **Container Lifecycle (Import Cycle)**



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



#### Volume distribution at port terminal - Truck/Rail

	Import	Export
Rail	18%	19%
Truck	82%	81%

- The marked entries showcase increase in performance in comparison to Jun'22
- The marked entries showcase decrease in performance in comparison to Jun'22

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# Container Transportation- JNPA Port Terminals



MPORT CYCLE DWELL	TIME (Jul'22 – in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	27.1	30.9%
	Port Dwell Time for Truck Bound Containers	23.2	28.2%
	Port Dwell time for Train Bound Containers	66.1	41.8%
Port dwell time	Port Dwell time Direct Port Delivery (DPD) containers	40.4	26.3%
	Port Dwell time Containers bound for CFS	21.0	25.0%
	Port Dwell for Empty Containers	40.2	47.3%
	Port Dwell for Laden Containers	24.7	27.3%
Transit time	Port to ICD	94.0	0.8%
	Port to CFS	3.22	11.0%
XPORT CYCLE DWELL	. TIME (Jul'22– in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	72.8	3.8%
	Port Dwell Time for Truck Bound Containers	69.3	3.5%
	Port Dwell time for Train Bound Containers	99.7	10.0%
ort dwell time	Port Dwell time Direct Port Entry (DPE) containers	78.3	1.2%
	Port Dwell time Containers bound from CFS	69.4	3.1%
	Port Dwell for Empty Containers	60.5	11.8%
	Port Dwell for Laden Containers	76.6	0.6%
ransit time	ICD to Port	97.5	14.8%
Hansil little	CFS to Port	3.18	7.3%

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

## 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	Jun'22 (in hrs)	Jul'22 (in hrs)
Overall Parking Plaza	5.57	5.76

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

Parking Plaza	Within 6 hrs	Within 6- 24 hrs	More than 24 hrs
JNPA Central Parking Plaza	52%	43%	5%

#### Parking Plaza Gate Out - Terminal In

Mode	Jun'22 (in hrs)	Jul'22 (in hrs)
Overall Parking Plaza to JNPA Port	1.28	1.32

Port	Jun'22 (in hrs)	Jul'22 (in hrs)
JNPCT	1.9	1.3
NSICT	0.9	1.2
GTI	0.8	0.7
NSIGT	0.9	1.1
ВМСТ	3.1	3.1

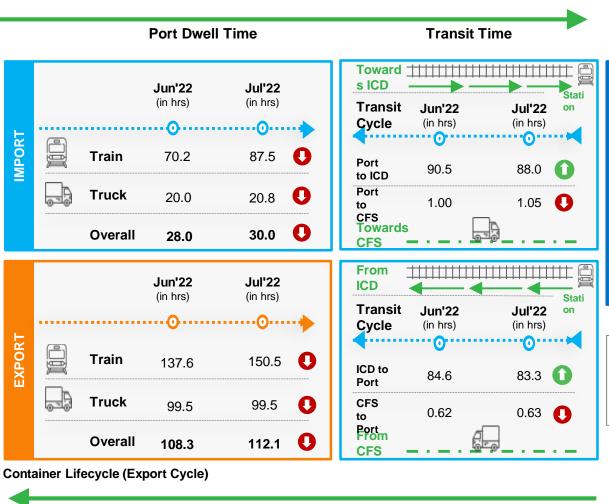
#### Container Handled: Day wise (Jul'22)

Port Terminals	Within 6 hrs	Within 6- 24 hrs	More than 24 hrs
JNPCT	94%	5%	1%
NSICT	96%	4%	0%
GTI	98%	2%	0%
NSIGT	96%	3%	1%
вмст	88%	12%	0%

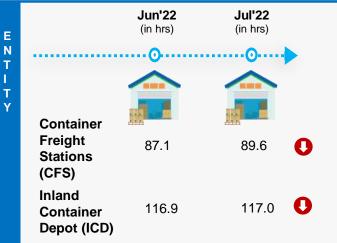
### Mundra Port Terminal: Container Transportation



### **Container Lifecycle (Import Cycle)**



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



#### Volume distribution at port terminal - Truck/Rail

	Import	Export	
Rail	29%	33%	
Truck	71%	67%	

- The marked entries showcase increase in performance in comparison to Jun'22
- The marked entries showcase decrease in performance in comparison to Jun'22

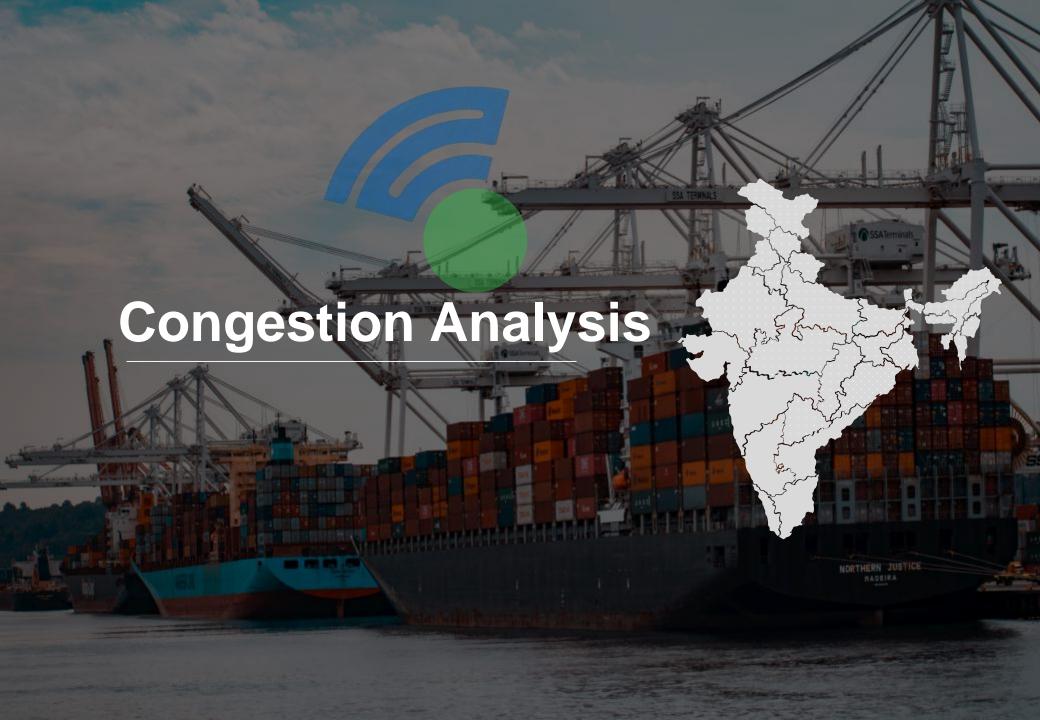
e 47

# Container Transportation- Mundra Port Terminal



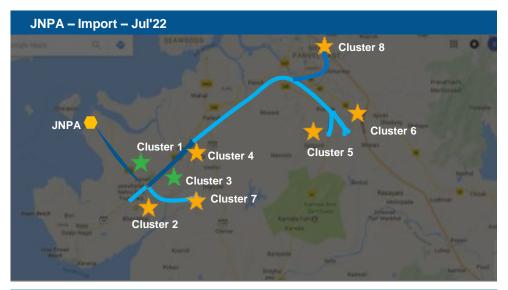
IMPORT CYCLE D	WELL TIME (Jul'22– in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	30.0	7.1%
Port dwell time	Port Dwell Time for Truck Bound Containers	20.8	4.0%
	Port Dwell time for Train Bound Containers	87.5	24.6%
Transit time	Port to ICD	88.0	2.8%
rransii time	Port to CFS	1.05	5.0%
EXPORT CYCLE	WELL TIME (Jul'22– in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	112.1	3.5%
Port dwell time	Port Dwell Time for Truck Bound Containers	99.5	0.0%
	Port Dwell time for Train Bound Containers	150.5	9.4%
Transit time	ICD to Port	83.3	1.5%
	CFS to Port	0.63	1.6%

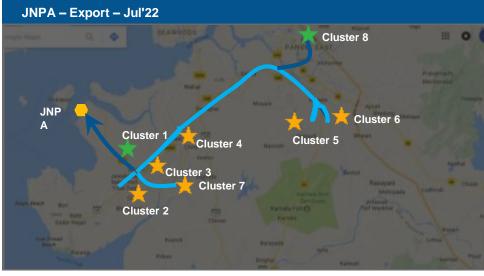
↑ The arrows depict increase/decrease in performance of the stakeholders in comparison to Jun'22



# JNPA Region: Congestion Analysis







Clusters with bottleneck	
Cluster 1	JNPA area
Cluster 3	Sonari area,JNPA road
Clusters without bottlene	eck
Cluster 2	Bhendkhal area, khopate 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
<b>Legends</b> High	Congestion — Medium Congestion — Low Congestion

Clusters with bottleneck		
Cluster 1	JNPA area	
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	
Cluster 7	Patilpada area, khopate JNPA road	

Cluster without bottleneck

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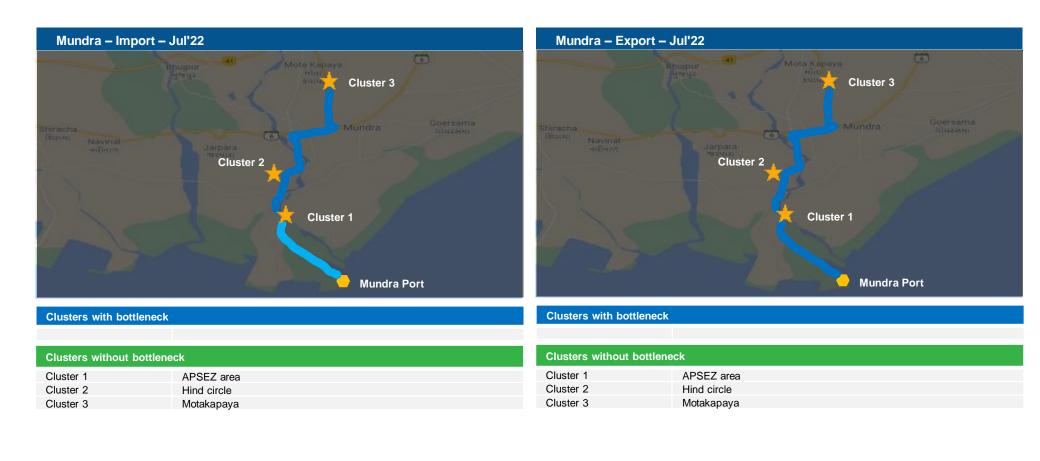
Cluster with bottleneck

## Mundra Region: Congestion Analysis

Legends

**High Congestion** 





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Cluster with bottleneck

Cluster without bottleneck

Low Congestion

Medium Congestion

## Chennai Region: Congestion Analysis







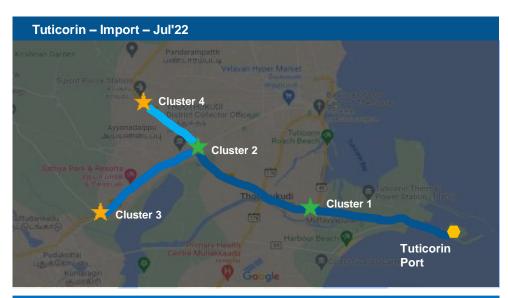
Clusters with bottleneck		
Cluster 4	Kattupalli port bound area	
Clusters without bottleneck		
Cluster 1	Chennai port bound area	
Cluster 2	Ennore port bound area	
Cluster 3	Chennai central area	
Cluster 5	Chennai automotive industry area (Irungatukottai)	
Cluster 6	Thiruvallur Outer city bound area	

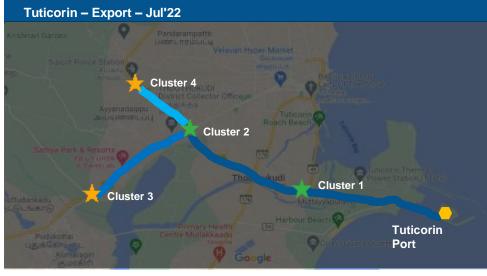
Clusters with bottleneck	
Cluster 1	Chennai port bound area
Cluster 3	Chennai central area
Clusters without bottlene	ck
Cluster 2	Ennore port bound area
Cluster 4	Kattupalli port bound area
Cluster 5	Chennai automotive industry area (Irungatukottai)
Cluster 6	Thiruvallur Outer city bound area

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

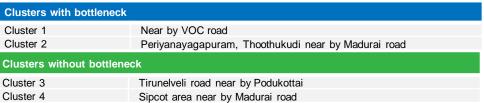
### **Tuticorin Region: Congestion Analysis**







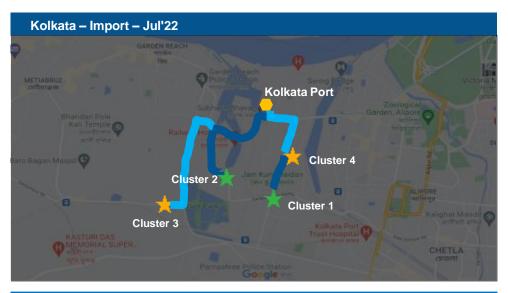
Clusters with bottleneck	
Cluster 1	Near by VOC road
Cluster 2	Periyanayagapuram, Thoothukudi near by Madurai road
Clusters without bottlene	eck
Clusters without bottlene Cluster 3	Tirunelveli road near by Podukottai

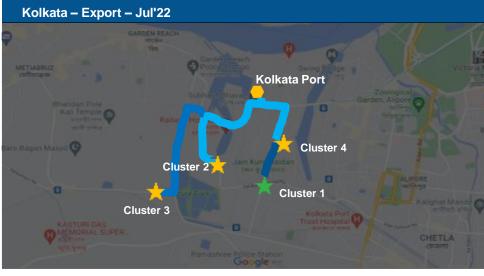


Legends Low Congestion Cluster with bottleneck Medium Congestion Cluster without bottleneck High Congestion

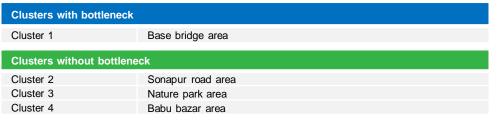
## Kolkata Region: Congestion Analysis







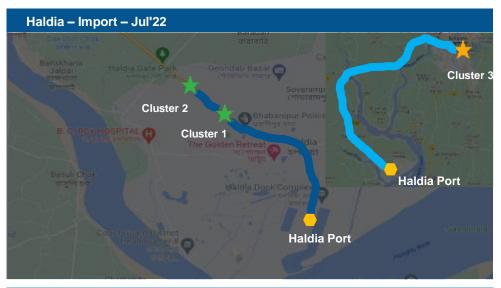
Clusters with bottleneck					
Cluster 1	Base bridge area				
Cluster 2	Sonapur road area				
Clusters without bottleneck					
Clusters without bottlene	ck				
Clusters without bottlene Cluster 3	Nature park area				

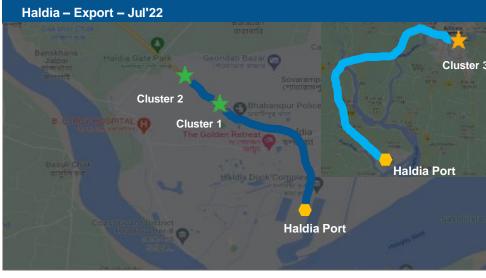


Low Congestion Cluster with bottleneck Cluster without bottleneck Medium Congestion Legends High Congestion

## Haldia Region: Congestion Analysis

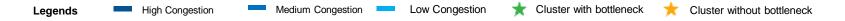






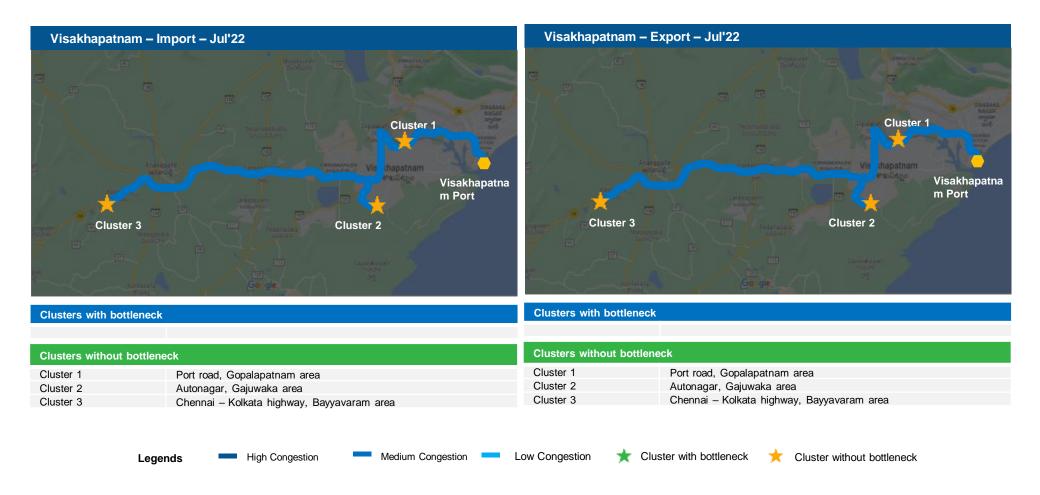
#### Clusters with bottleneck Cluster 1 Talpukur area, Kolkata highway Cluster 2 City centre area, Kolkata highway Clusters without bottleneck Silpodanga area Cluster 3





## Visakhapatnam Region: Congestion Analysis







### Transit movement across ICPs



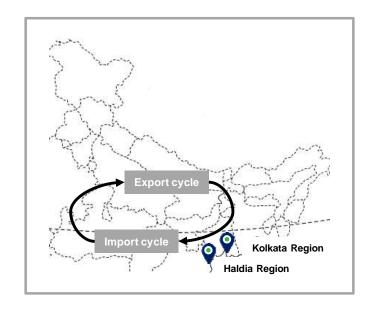
Below is the analysis of the transit movement across ICPs from Kolkata Port Terminal or Haldia Port Terminal both Import and Export cycle

#### **Kolkata Port Terminal**

	Mode	ICP Raxaul		
	Overall	90.4 hrs		
<u>e</u>	Road	118.0 hrs		
Import Cycle	Rail	76.1 hrs		
por				
=	Haldia Port	Terminal		
	Mode	ICP Raxaul		
	Overall	-		

#### **Kolkata Port Terminal**

	Mode	ICP Raxaul
	Overall	421.7 hrs
cle	Road	548.7 hrs
Export Cycle	Rail	417.7 hrs
por		
Ж	Haldia Port	Terminal
	Mode	ICP Raxaul
	Overall	638.6 hrs

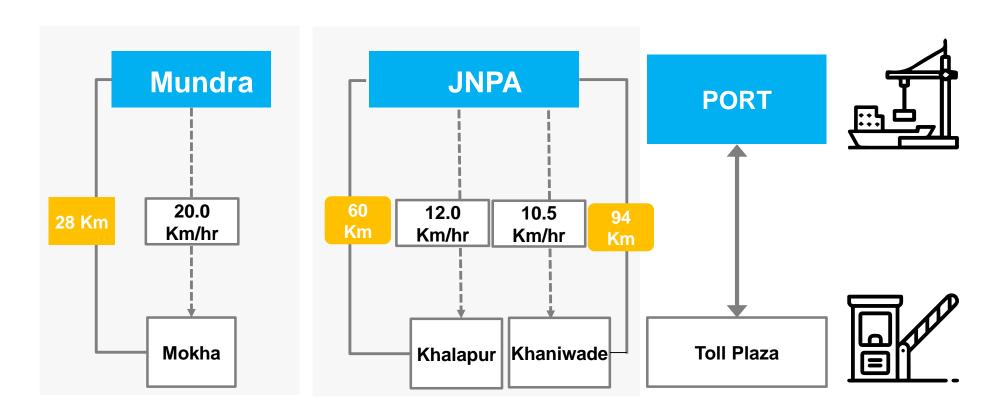


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# Evacuation Efficiency Analysis



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



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## 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	Average Speed (in Km/h)		
Kegion	Poit	Aujacent Toli piaza	KM)	May'22	Jun'22	Jul'22
Western	Hazira	Boriach	77	8.0	8.2	7.1
	KOPT(Kolkata)	Dankuni	24	2.3	1.2	2.8
Eastern	HICT(Haldia)	Debra	100	4.2	8.6	7.6
	nic i (naidia)	Jaladhulagori	101	5.4	9.4	5.8
	Chennai	Surapattu	18	-	-	-
	Chemia	Nallur	23	1.5	1.6	1.5
Southern	Kochi	Kumbalam	13	0.7	0.7	0.7
	ROCIII	GIPL Palayekara	71	13.2	8.9	10.2
		Brahamarakotlu	25	1.7	1.5	1.7
	NMPT (New Manglore)	Talapady	22.5	2.8	2.3	1.4
	(i to it mangiore)	Gundmi	68	4.2	4.6	6.5
	Mattunalli	Surapattu	36	-	-	-
	Kattupalli	Nallur	33	2.0	5.7	3.1
	Ennore	Surapattu	35	-	-	-
	Tuticron	VoCPT CheckPost1	4.3	14.2	14.3	14.5

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

# Western Corridor Toll Plaza Analysis



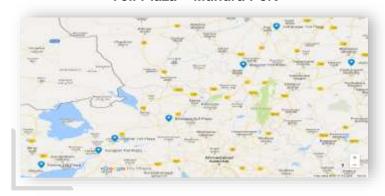
Avg. Speed between Toll to Toll Plazas

	Avg. opeca between roll to roll riazas						
	Source	Destination Toll Plaza	Inter Distance (Km)	Jun'22 (in km/hrs)	Jul'22 (in km/hrs)		
	JNPA	Khaniwade	94	14.8	12.0		
	JNPA	Khalapur	60	12.3	10.5		
Ϋ́	Khaniwade	Charoti	50	36.0	33.4		
JNPA	Charoti	Boriach	126	27.6	23.0		
	Boriach	Bharthan	142	31.9	29.2		
	Bharthan	Vasad	60	38.6	36.8		
	Khalalpur	Khedshivpur	105	-	33.1		
	Mundra	Mokha	28	24.0	20.0		
DRA	Mokha	Makhel	150	25.0	23.7		
MUNDRA	Mokha	Surajbari	115	26.1	24.4		
_	Makhel	Bhalgam	108	35.1	34.0		

**Toll Plaza - JNPA 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)
ВМСТ	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 Nam	ne Name of the Port
KICT	Kandla International Container Terminal (KICT)
ICTT	International Container Transhipment 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)

### Annexure – CFS – Pan India



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

35 A S Shipping Agencies CFS, Tiruvallur

36 Sical CFS, Chennai Tiruvallur Tamil Nadu

1	Allcargo Logistics CFS	KOLKATA	37	Gateway Distripark CFS, Krishnapatnam	KRISHNAPATNAM	73	Balmer & Lawrie CFS, Navi Mumbai	Mumbai
2	Century Plyboards CFS, JJP	KOLKATA	01	Cateway Distripant of G, Krishnapatham				
3	Phonex CFS	KOLKATA	38	Saurashtra CFS, Mundra	Gujarat	74	Punjab Conware CFS, Navi Mumbai	Mumbai
4	Gateway East India CFS	VISAKHAPATNAM	39	Gateway Distriparks CFS, Navi Mumbai	Mumbai	75	Seabird CFS, Hazira	Gujarat
5	A L Logistics CFS	HALDIA	40	Adani CFS Eximyard, Mundra	Gujarat			
6	Sravan CFS-1	VISAKHAPATNAM	-10			76	Kerry Indev Logistics Pvt Ltd CFS	Mumbai
7	Balmer Lawrie CFS	KOLKATA	41	JWC Logistics Park CFS	Mumbai	77	APM (Maersk India) CFS, Navi Mumbai	Mumbai
8	VCT CFS	VISAKHAPATNAM	42	Continental Warehousing CFS, Navi Mumbai	Mumbai		, , ,	
9	Century Plyboards CFS, Sonai	KOLKATA				78	Maersk Annex (APM)CFS, Navi Mumbai	Mumbai
10	VPL Integral CFS	VISAKHAPATNAM	43	Navkar Corporation Yard 3 CFS, Panvel	Mumbai	79	A V Joshi CFS	Gujarat
11	SICAL CFS	VISAKHAPATNAM	44	Ameya Logistics CFS, Navi Mumbai	Mumbai	. •		
12	CWC CFS, Kolkata	KOLKATA	45	AllCargo Logistics	Mumbai	80	Empezar Logistics CFS	Gujarat
13	Sical CFS, Chennai Tiruvallur Tamil Nadu	Chennai	46	Speedy Multimode CFS, JNPA	Mumbai	81	Maharashtra State Corp CFS	Mumbai
14	Allcargo Global Logistics CFS, Chennai	Chennai	47	Hind Terminals Pvt. Ltd. CFS, Mundra	Gujarat	01	Wallardshird Otate Oolp Of O	Widilibai
15	Gateway Distriparks CFS, Chennai					82	Transworld CFS, Mundra	Gujarat
		Chennai	48	MICT CFS, Mundra	Gujarat	83	Navkar Corporation Yard 1 CFS, Panvel	Mumbai
16	Continental Warehousing Corporation CFS (Nhava Seva), Chennai		49	International Cargo Terminals (ULA) CFS, Navi Mumbai	Mumbai	03	Navkai Corporation Taid TCI 3, Fanvei	IVIUITIDAI
17	ALS Tuticorin Terminal Private Limited	Chennai TUTICORIN	50	CWC CFS, Mundra	Gujarat	84	Hind Terminal CFS, Hazira	Gujarat
18	Ennore Cargo Container Terminal CFS, Chennai	Chennai	51	Ashte Logistics CFS, Panvel	Mumbai	85	CWC Impex Park CFS, Navi Mumbai	Mumbai
19	Kailash Shipping Services CFS, Chennai	Chennai	52	Sarveshwar CFS	Mumbai	0.0	CWC Impex Faik Ci 3, Navi Mumbai	Willingal
20	Sattva Hi-Tech And Conware CFS. Chennai	Chennai	53	Ashutosh CFS, Mundra	Gujarat	86	JWRCFS	Mumbai
21	Balmer Lawrie CFS. Chennai	Chennai	54	Honey Comb CFS, Mundra	Gujarat	87	Balmer & Lawrie CFS, Navi Mumbai	Mumbai
22	Calyx Container Terminal CFS, Chennai	Chennai	55	Seabird CFS, Mundra	Gujarat	01	Dailitei & Lawrie Ci 3, Navi Multibai	Willingal
23	Adani CFS, Kattupalli Tiruvallur Tamil Nadu	Chennai	56	Mundhra CFS, Mundra	Gujarat	88	Punjab Conware CFS, Navi Mumbai	Mumbai
24	Triway CFS, Chennai	Chennai	57	Apollo Logisolutions CFS, Panvel	Mumbai	89	Seabird CFS. Hazira	Gujarat
25	Sattva Cfs And Logistics CFS, Chennai	Chennai	58	Seabird CFS, Navi Mumbai	Mumbai	09	Seabild CFS, Flazila	Gujarat
26	Raja Agencies CFS	TUTICORIN	59	EFC Logistics India	Mumbai	90	Kerry Indev Logistics Pvt Ltd CFS	Mumbai
		TOTIOOKIIV	60	TG Terminals CFS, Mundra	Gujarat	91	ADM (Macral, India) CEC Novi Mumbai	Mumbai
27	GDKL CFS	KOCHI	61	Navkar Corporation Yard 2 CFS, Panvel	Mumbai	91	APM (Maersk India) CFS, Navi Mumbai	Mumbai
28	Sanco Trans CFS, Chennai	Chennai	62	Adani CFS, Hazira	Gujarat	92	Maersk Annex (APM)CFS, Navi Mumbai	Mumbai
29	St. John Freight Systems Ltd ICD Division	TUTICORIN	63	Dronagiri Rail Terminal CFS, Navi Mumbai	Mumbai	00	A V Joshi CFS	Gujarat
00			64	Ocean Gate CFS, Panvel	Mumbai	93	A V JOSTII CFS	Gujarat
30	Sudharsan Logistics CFS, Chennai	Chennai	65	AllCargo CFS, Mundra	Gujarat	94	Empezar Logistics CFS	Gujarat
31	Diamond CFS Park	TUTICORIN	66	Rishi CFS, Mundra	Gujarat	OF	Maharashtra Stata Cara CES	Mumbai
22	Hari CFS		67	Vaishno Logistics CFS, Navi Mumbai	Mumbai	95	Maharashtra State Corp CFS	Mumbai
32	nali CF3	TUTICORIN	68	Take Care Logistics CFS	Mumbai	96	Transworld CFS, Mundra	Gujarat
33	Chola Logistiks Pvt Ltd	TUTICORIN	69	International Cargo Terminal CFS	Mumbai			
34	Chandra CFS, Tiruvallur	Chennai	70	TG Terminals CFS	Mumbai			
		Onomia						

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71 Landmark CFS, Mundra

72 Saurashtra CFS, Mundra

# Annexure – Western Region



Li	st of CFS name used in CFS Performance Index	
1	Saurashtra CFS, Mundra	24 Navkar Corporation Yard 2 CFS, Panvel
2	Gateway Distriparks CFS, Navi Mumbai	25 Adani CFS, Hazira
3	Adani CFS Eximyard, Mundra	26 Dronagiri Rail Terminal CFS, Navi Mumbai
4	JWC Logistics Park CFS	27 Ocean Gate CFS, Panvel
5	Continental Warehousing CFS, Navi Mumbai	28 AllCargo CFS, Mundra
6	Navkar Corporation Yard 3 CFS, Panvel	29 Rishi CFS, Mundra
7	Ameya Logistics CFS, Navi Mumbai	30 Vaishno Logistics CFS, Navi Mumbai
8	AllCargo Logistics	31 Take Care Logistics CFS
9	Speedy Multimode CFS, JNPA	32 International Cargo Terminal CFS
10	Hind Terminals Pvt. Ltd. CFS, Mundra	33 TG Terminals CFS
11	MICT CFS, Mundra	34 Landmark CFS, Mundra
12	International Cargo Terminals (ULA) CFS, Navi Mumbai	<ul><li>35 Balmer &amp; Lawrie CFS, Navi Mumbai</li><li>36 Punjab Conware CFS, Navi Mumbai</li></ul>
13	CWC CFS, Mundra	37 Seabird CFS, Hazira
	Ashte Logistics CFS, Panvel	38 Kerry Indev Logistics Pvt Ltd CFS
15	Sarveshwar CFS	39 APM (Maersk India) CFS, Navi Mumbai
16		40 Maersk Annex (APM)CFS, Navi Mumbai
16	Ashutosh CFS, Mundra	41 A V Joshi CFS
17	Honey Comb CFS, Mundra	42 Empezar Logistics CFS
18	Seabird CFS, Mundra	43 Maharashtra State Corp CFS
19	Mundhra CFS, Mundra	44 Transworld CFS, Mundra
20	Apollo Logisolutions CFS, Panvel	45 Navkar Corporation Yard 1 CFS, Panvel
21	Seabird CFS, Navi Mumbai	46 Hind Terminal CFS, Hazira
22	EFC Logistics India	47 CWC Impex Park CFS, Navi Mumbai
23	TG Terminals CFS, Mundra	48 JWR CFS

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.

List of ICD name used in ICD Performance Index

# Annexure – Southern & Eastern Region



List of CFS name used in Southern CFS Performance Index				
1		20	Sattva Hi-Tech And Conware CFS, Chennai	
-	Allcargo Logistics CFS	21	Balmer Lawrie CFS, Chennai	
2	Century Plyboards CFS, JJP	22	Calyx Container Terminal CFS, Chennai	
	century 1 175 our us 61 5, 331	23	Adani CFS, Kattupalli Tiruvallur Tamil Nadu	
3	Phonex CFS	24	Triway CFS, Chennai	
4		25	Sattva Cfs And Logistics CFS, Chennai	
4	Gateway East India CFS	26	Raja Agencies CFS	
5	A L La giatina CES	27	GDKL CFS	
	A L Logistics CFS	28	Sanco Trans CFS, Chennai	
6	Sravan CFS-1	29	St. John Freight Systems Ltd ICD Division	
7		30	Sudharsan Logistics CFS, Chennai	
/	Balmer Lawrie CFS	31	Diamond CFS Park	
8	VCT CFS	32	Hari CFS	
0	ver ers	33		
9	Century Plyboards CFS, Sonai		Chandra CFS, Tiruvallur	
10	V21.1.1.1.1.050		A S Shipping Agencies CFS, Tiruvallur	
	VPL Integral CFS	36	Hind Terminals CFS, Chennai	
11	SICAL CFS	37	Continental Warehousing Corporation Nhava Sheva Ltd.	
12	CWC CFS, Kolkata	38	Sical Multimodal and Rail Transport Ltd CFS Division	
	CWC CI 3, ROIRata	39	Apm Terminals India CFS, Tiruvallur	
13	Sical CFS, Chennai Tiruvallur Tamil Nadu	40	MIV CFS	
14	Allcargo Global Logistics CFS, Chennai	41	Continental Warehousing Corporation CFS (Nhava Seva), Tiruvallur	
15	Gateway Distriparks CFS, Chennai	42	Vilsons CFS	
	Continental Warehousing Corporation CFS (Nhava	43	Thiru Rani Logistics CFS, Tiruvallur	
16	Seva), Chennai	44	A.S.Shipping Agencies Pvt Ltd	
	Sevay, enemal	45	Glovis India CFS, Kanchipuram	
17	ALS Tuticorin Terminal Private Limited	46		
18	Farmers Course Courtein and Tax 1 1 1050 Cl	47	-	
19	Ennore Cargo Container Terminal CFS, Chennai	48	Kerry Indev Logistics Private Limited / Continental Container Freight Station	
	Kailash Shipping Services CFS, Chennai	49	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		

