





Section

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. Covid-19 Impact
- 5. Pan India Port Performance Benchmarking & Performance Index
- 6. Pan India CFS Performance Benchmarking & Performance Index
- 7. Region wise segmentation, Western Region ICD performance and region-wise CFS performance

Section

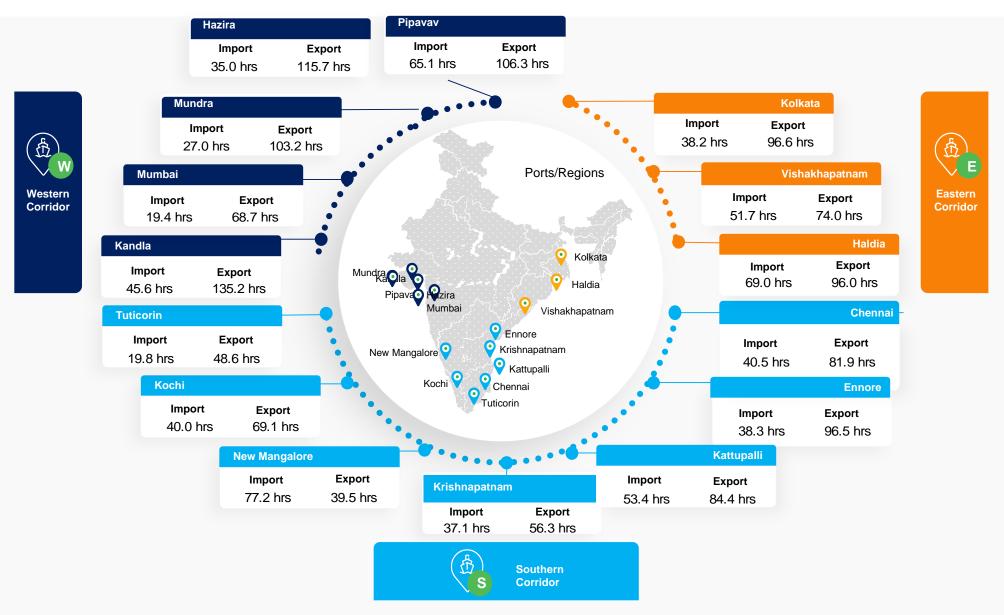
Annexure

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
- Individual Terminal Performance In Western Corridor
- 4. Congestion Analysis
- 5. Analysis of Container Movement across India

PAN INDIA Performance Snapshot: November 2022 (Dwell Time)

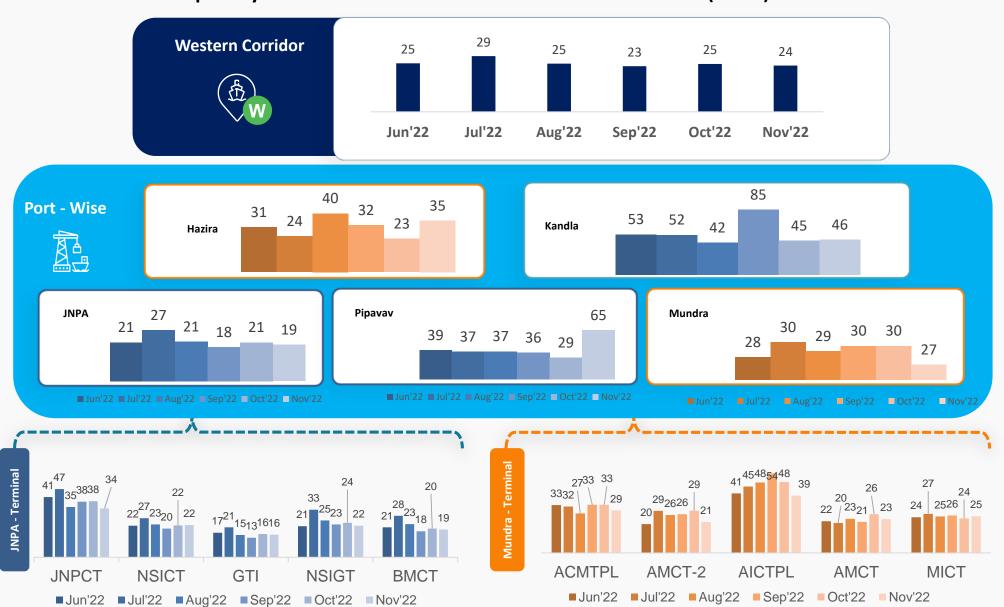




Port Dwell Time Performance – Western Corridor (Import Cycle)



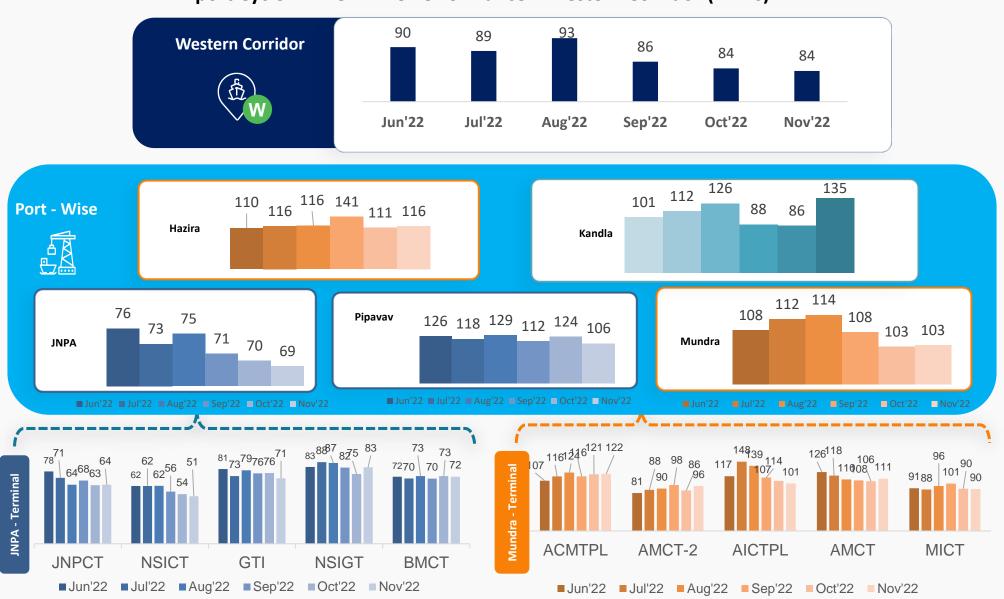
Import Cycle – Dwell Time Performance – Western Corridor (in hrs)



Port Dwell Time Performance – Western Corridor (Export Cycle)



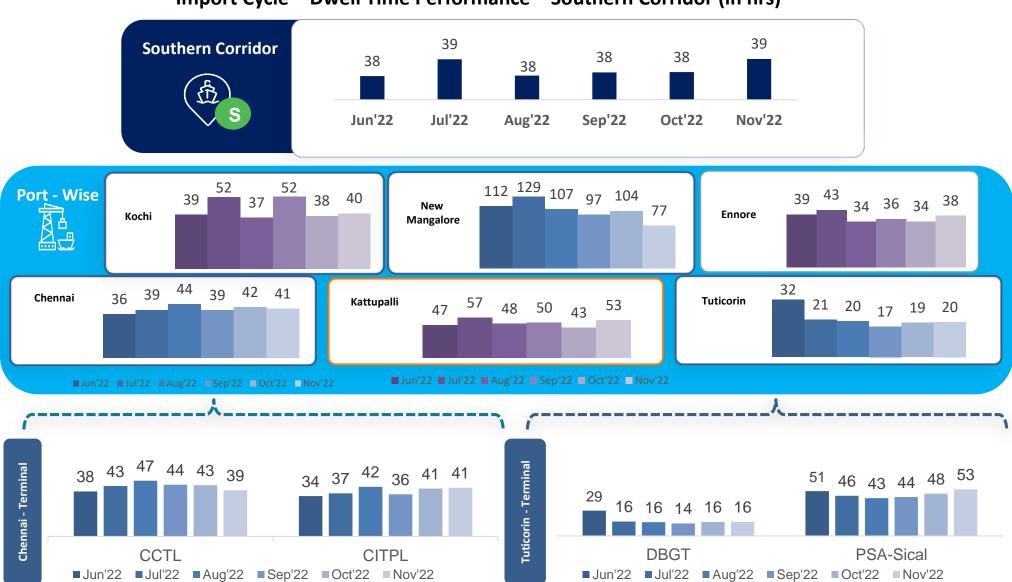
Export Cycle – Dwell Time Performance – Western Corridor (in hrs)



Port Dwell Time Performance – Southern Corridor (Import Cycle)



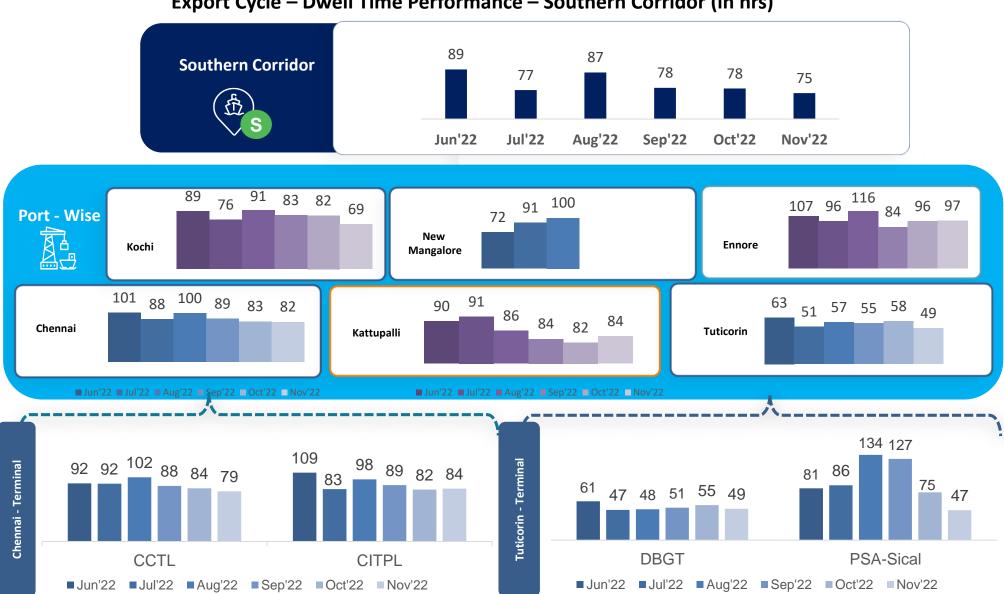
Import Cycle – Dwell Time Performance – Southern Corridor (in hrs)



Port Dwell Time Performance – Southern Corridor (Export Cycle)



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



Port Dwell Time Performance – Eastern Corridor

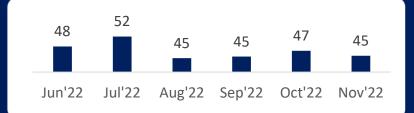




Export Cycle (in hrs)

Eastern Corridor

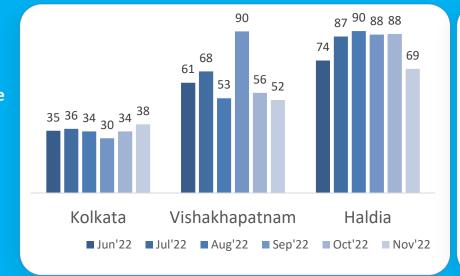


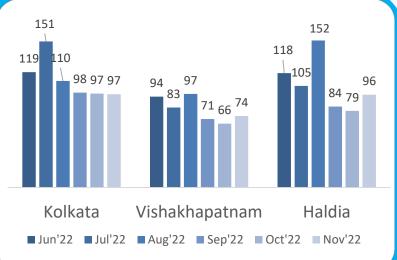




Port - Wise

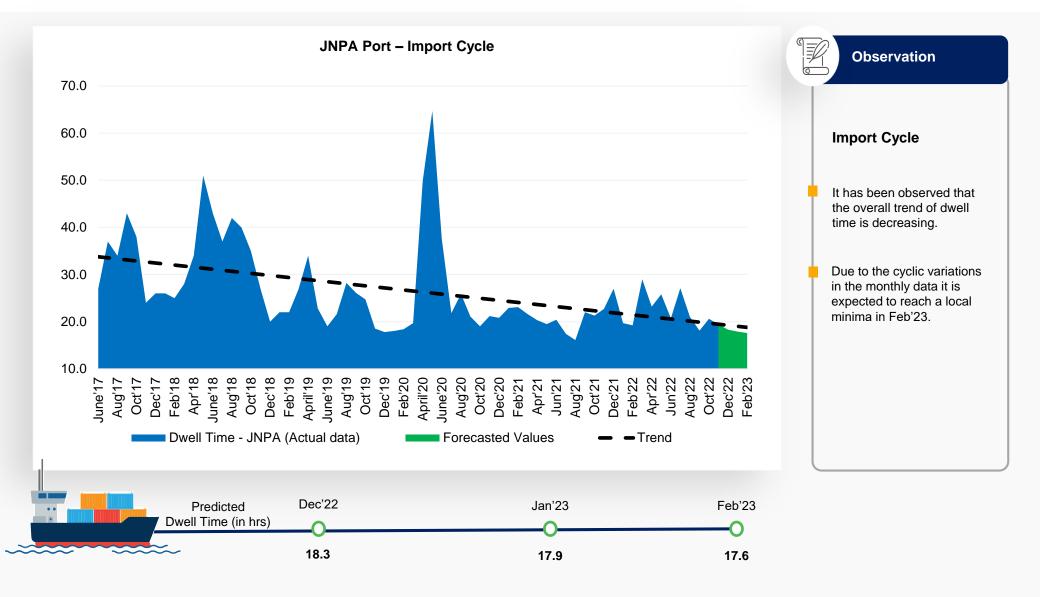






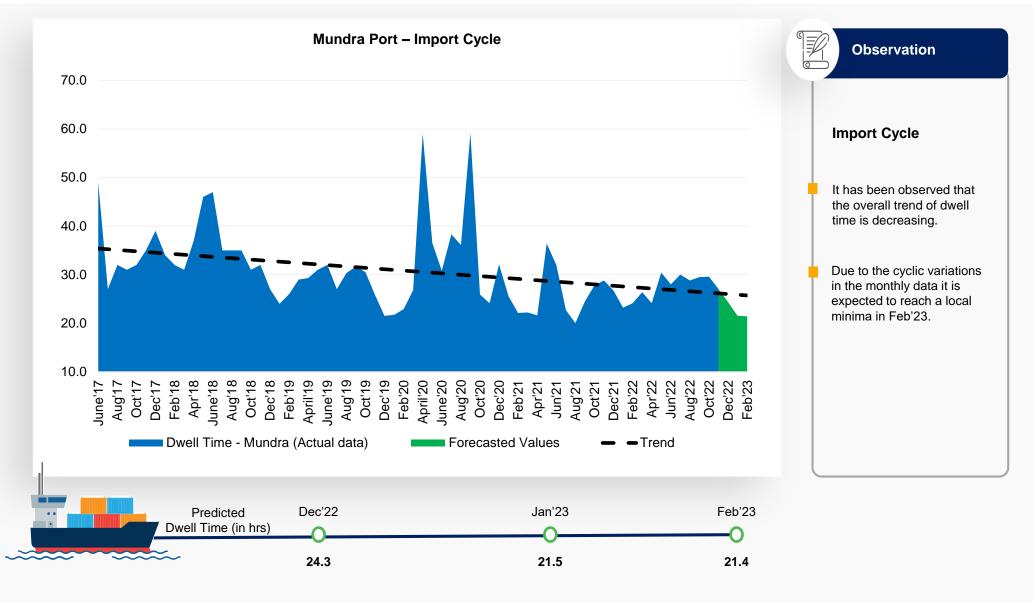
Predictive Analysis: JNPA Port





Predictive Analysis: Mundra Port





Critical Incident Summary



Western Corridor

- The Overall container handling performance in Western Corridor in Import Cycle has improved by 3.3% & Export Cycle has improved by 0.8%.
- The container handling performance at CFS has deteriorated by 4.2%. Also, ICD performance has deteriorated by 9.2%.

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time	ICD Dwell Time
Nov'22	23.7 hrs	83.5 hrs	86.3 hrs	121.8 hrs
Oct'22	24.5 hrs	84.2 hrs	82.8 hrs	111.5 hrs

Southern Corridor

- The Overall container handling performance in Southern Corridor in Import Cycle has deteriorated by 2.6% & in Export Cycle has improved by 3.5%.
- The container handling performance at CFS has deteriorated by 4.3%

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time
Nov'22	39.1 hrs	75.3 hrs	109.3 hrs
Oct'22	38.1 hrs	78.0 hrs	104.8 hrs

Eastern Corridor

- The Overall container handling performance in Eastern Corridor for Import Cycle has improved by 3.4% and Export Cycle has
 deteriorated by 8%.
- The container handling performance at CFS has improved by 7.8%.

Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time
Nov'22	45.3 hrs	86.6 hrs	126.0 hrs
Oct'22	46.9 hrs	80.2 hrs	136.7 hrs

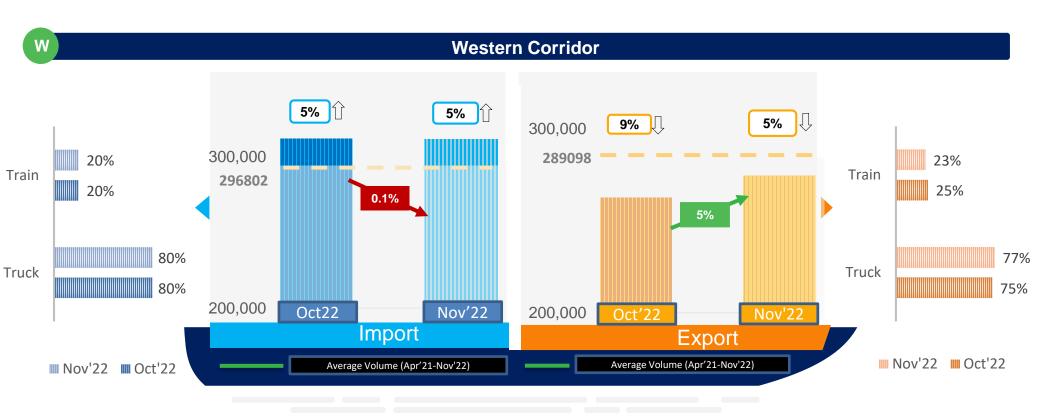
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Covid-19 Impact – Western Corridor



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

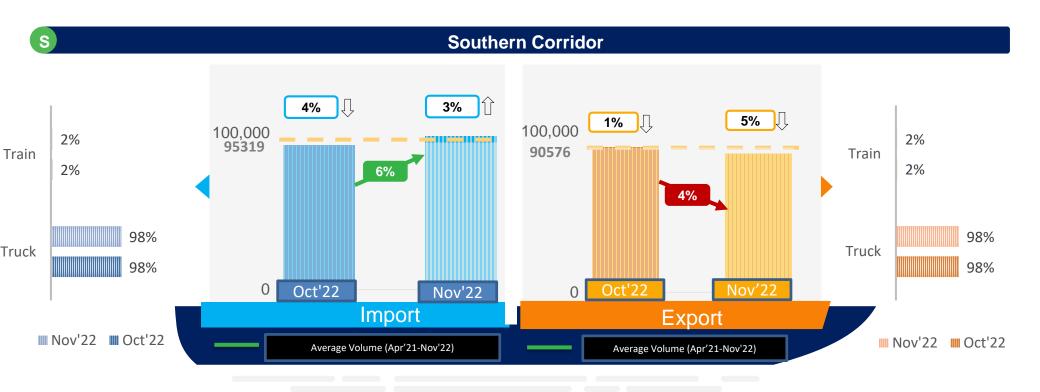


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Covid-19 Impact – Southern Corridor



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

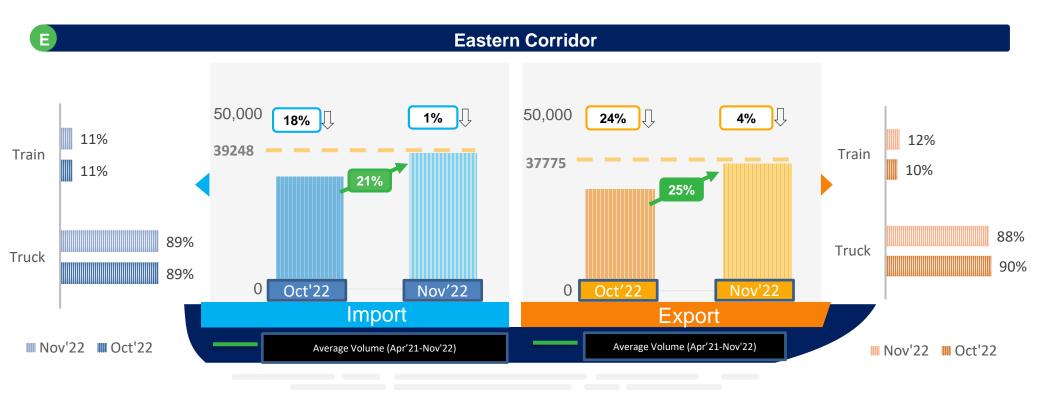


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Covid-19 Impact – Eastern Corridor



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

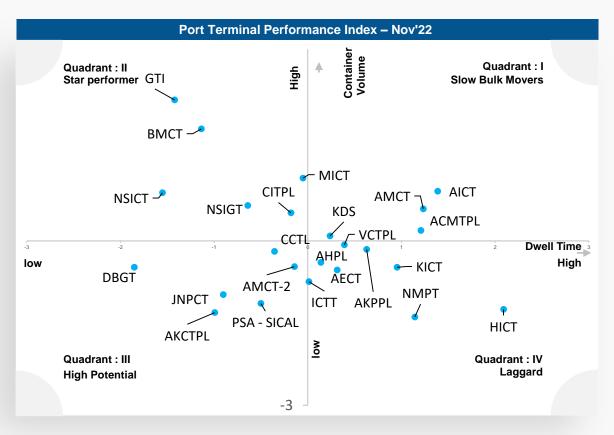


Pan India - Port Performance Benchmarking & Performance Index



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 Nov'22

Top Performing Terminal			
Gateway Terminals India (GTI)			
Oct'22	Nov'22		
35.4 hrs	35.3 hrs.		
Low Performing Terminal			
Low Perion	ning Terminai		
	ontainer Terminal (HICT)		
Haldia International C	ontainer Terminal (HICT)		

Note: The performance benchmarking is based on performance index

The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Oct'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 Star Performer Slow Bulk Movers Consist of entities which have catered relatively Consist of entities which have catered high container volume in lower dwell time higher container volume in higher dwell time **High Potential** Laggard Consist of entities which have catered relatively Consist of entities which have catered relatively lower container volume in lower dwell time lower container volume at higher dwell time

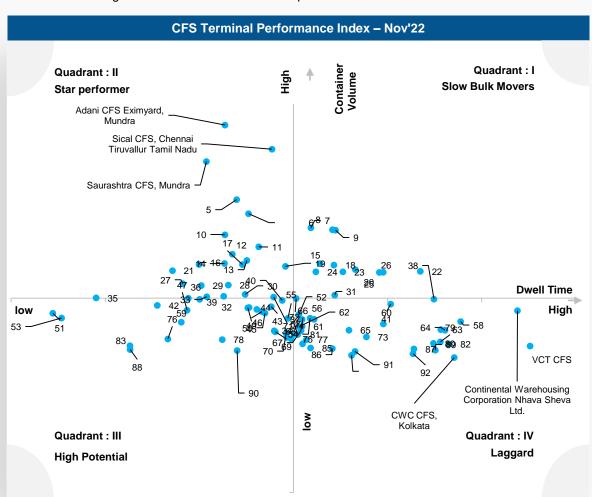
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Pan India - CFS Performance Benchmarking & Performance Index



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 Nov'22

Top Three Performing CFSs		
CFS Name	Oct'22	Nov'22
Adani CFS Eximyard, Mundra	79.4 hrs	82.5 hrs 👢
Sical CFS, Chennai Tiruvallur Tamil Nadu	88.1 hrs	96.3 hrs 👢
Saurashtra CFS, Mundra	80.3 hrs	77.0 hrs 👚

Bottom Three Performing CFSs		
CFS Name	Oct'22	Nov'22
VCT CFS	127.3 hrs	172.6 hrs
Continental Warehousing Corporation Nhava Sheva Ltd.	159.9 hrs	168.9 hrs-
CWC CFS, Kolkata	94.3 hrs	150.2 hrs↓



▶■ The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Oct'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

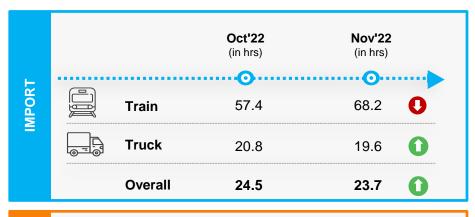
Laggard

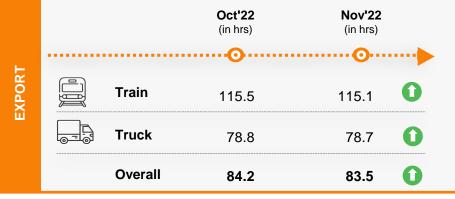
Consist of entities which have catered relatively lower container volume at higher dwell time

Container Transportation Performance - Western Corridor

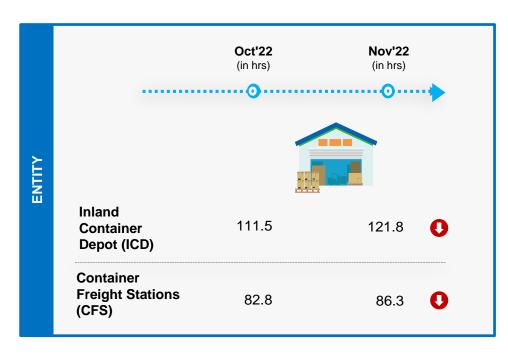


Port Dwell Time





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



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

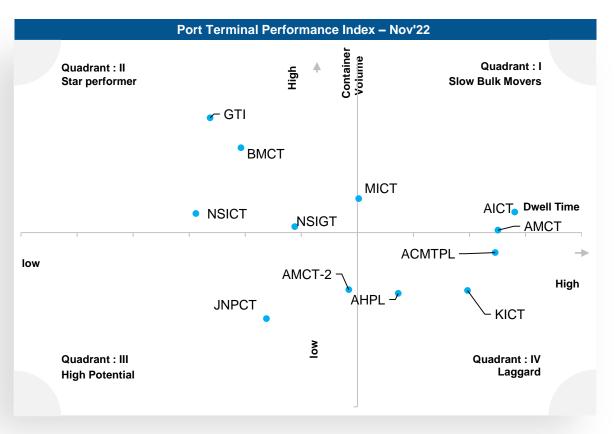
The marked entries showcase decrease in performance in comparison to Oct'22

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 Nov'22

Top Performing Terminal			
Gateway Terminals India (GTI)			
Oct'22	Nov'22		
35.4 hrs	35.3 hrs.		
Low Performing Terminal			
Kandla International Container Terminal (KICT)			
Oct'22	Nov'22		
57.7 hrs	71.4 hrs.		

Note: The performance benchmarking is based on performance index



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

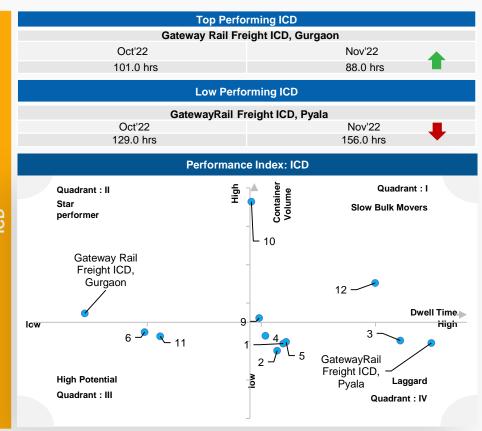
Performance Index - Summary		
In order to assess the relative performance of vario (CD(s), the relative Dwell time as well as the volum graphically in the form of an index to portray the pebasis of these two combined factors i.e. Dwell time	ne of containers handled by them are depicted erformance of a particular organisation on the	
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 relativ lower container volume at higher dwell time	

CFS/ICD Performance Benchmarking & Performance Index - Western Corridor



Performance Benchmarking





Note: The performance benchmarking is based on performance index

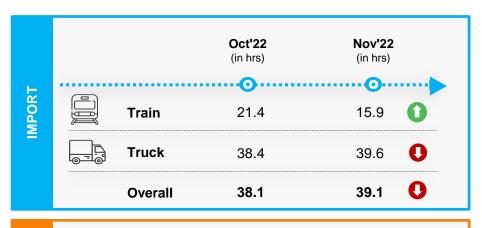
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Oct'22

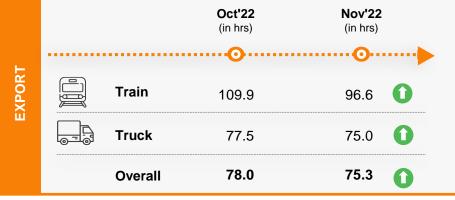
Kindly refer to Annexure section for the names of CFS

Container Transportation Performance - Southern Corridor

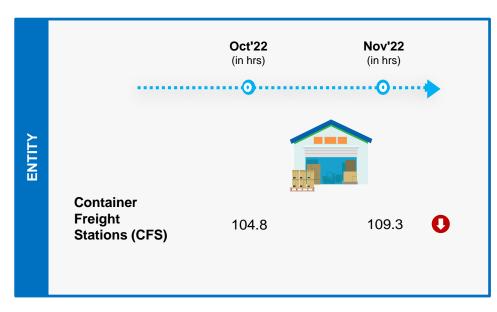


Port Dwell Time





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



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

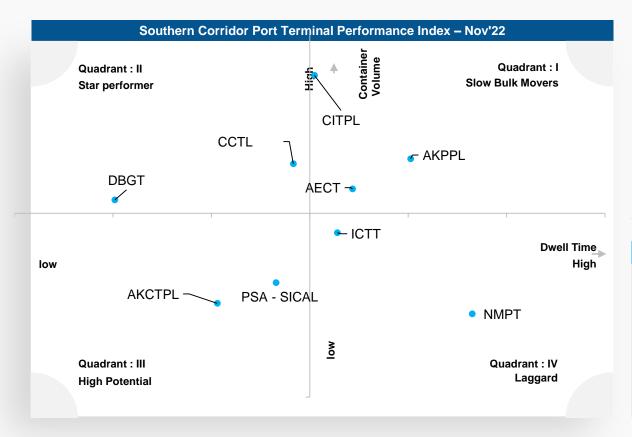
The marked entries showcase decrease in performance in comparison to Oct'22

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 Port Terminal covered under

LDB project for Nov'22			
Top Performing Terminal			
Dakshin Bharat Gateway Terminal (DBGT)			
Oct'22	Nov'22		
32.5 hrs	28.7 hrs		
Low Perform	ning Terminal		
New Manga	ore Port Trust		
Oct'22	Nov'22		
100.0 hrs	74.3 hrs		
Note: The performance benchmarking is based on performance index			
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Oct'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

Star Performer

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

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

Laggard

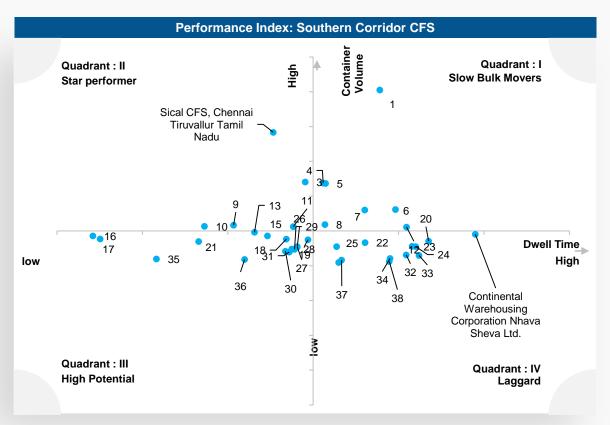
Slow Bulk Movers

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

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 Nov'22

Top Performing CFS		
Sical CFS, Chennai Tiruvallur Tamil Nadu		
Oct'22	Nov'22	
88.1 hrs	96.3 hrs	

3311 13	00.0 10	
Low Performing CFS		
Continental Warehousing Corporation Nhava Sheva Ltd		
Oct'22	Nov'22	
159.9 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 Oct'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

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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

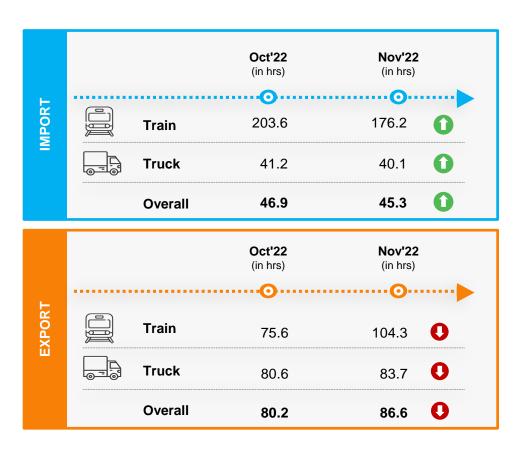
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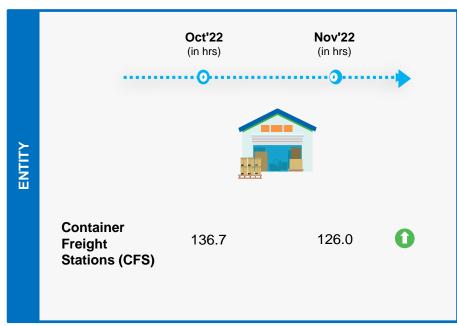
Container Transportation Performance - Eastern Corridor



Port Dwell Time

Container Freight Stations(CFS)– **Dwell Time**





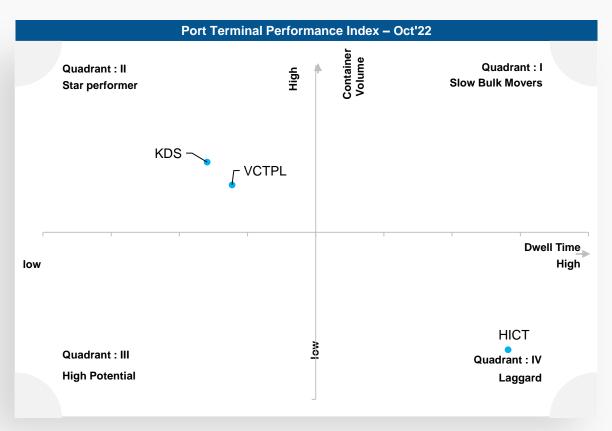
- The marked entries showcase increase in performance in comparison to Oct'22
- The marked entries showcase decrease in performance in comparison to Oct'22

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 Port Terminal covered under

LDB project in Eastern Corridor for Nov'22				
Top Performing Terminal				
Kolkata Dock System (KDS) , Kolkata Port				
Oct'22	Nov'22			
59.1 hrs	60.5 rs			
Law Parfarming Tarminal				
Low Performing Terminal Haldia International Container Terminal (HICT)				
Oct'22	Nov'22			
84.2 hrs	88.8 hrs			
Note: The performance benchmarking is based on performance index				
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Oct'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 relatively high container volume in lower dwell time	Consist of entities which have catered higher container volume in higher dwell			

time

Consist of entities which have catered relatively

lower container volume at higher dwell time

High Potential

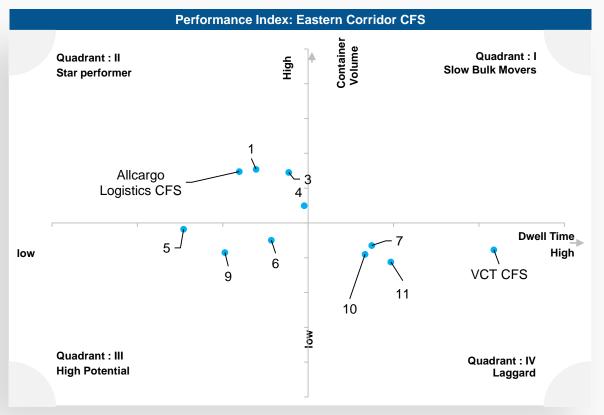
Consist of entities which have catered relatively

lower container volume in lower dwell time

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 Nov'22

Top Performing CFS		
Allcargo Logistics CFS		
Oct'22	Nov'22	
147.2 hrs	117.3 hrs	
Low Performing CFS		
VCT	CFS	
Oct'22	Nov'22	
127.3 hrs	172.6 hrs	

Note: The performance benchmarking is based on performance index



The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Oct'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 Star Performer Slow Bulk Movers Consist of entities which have catered relatively Consist of entities which have catered

high container volume in lower dwell time

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

higher container volume in higher dwell time

Laggard

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

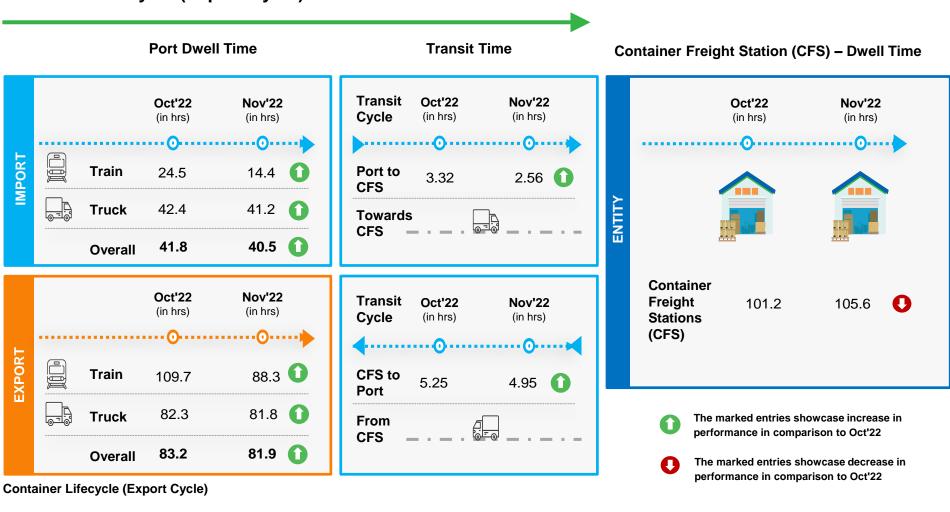




Chennai Port Terminal: Container Transportation



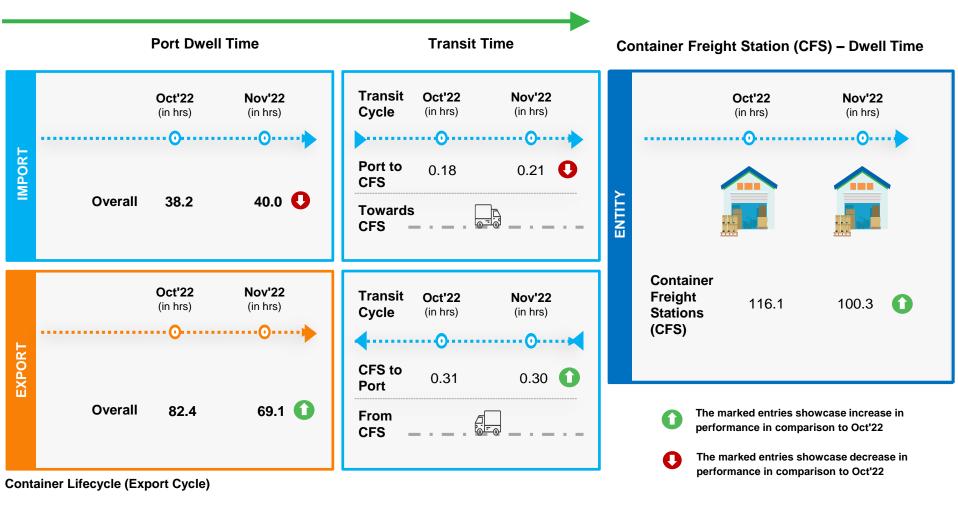
Container Lifecycle (Import Cycle)



Kochi Port Terminal: Container Transportation



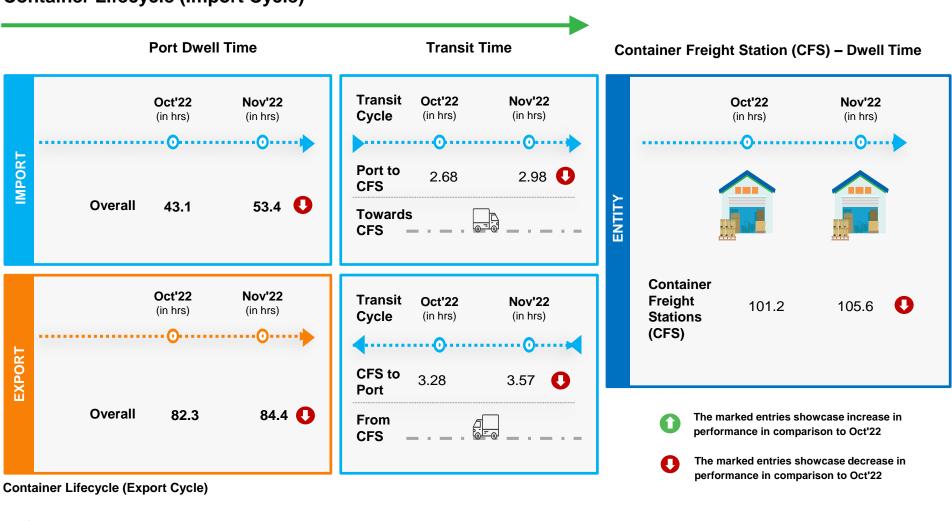
Container Lifecycle (Import Cycle)



Kattupalli Port Terminal: Container Transportation



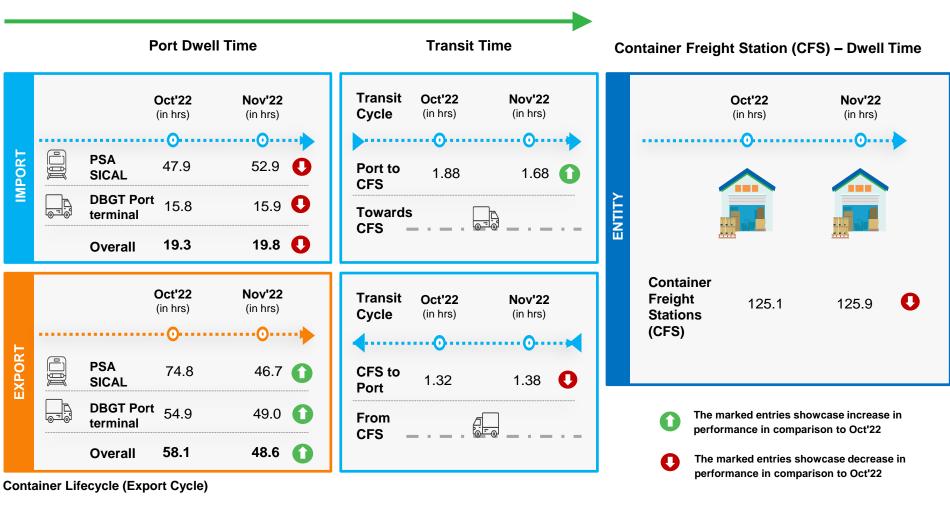
Container Lifecycle (Import Cycle)



Tuticorin Port Terminal: Container Transportation



Container Lifecycle (Import Cycle)

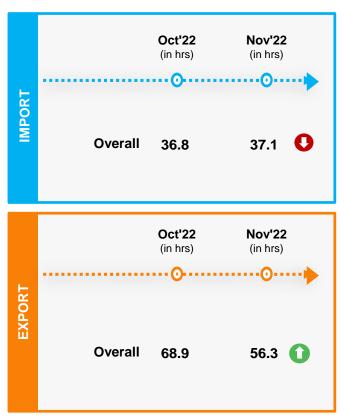


Krishnapatnam Port Terminal: Container Transportation



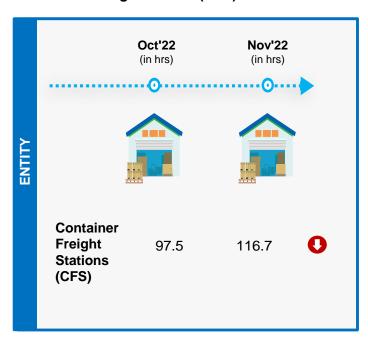
Container Lifecycle (Import Cycle)

Port Dwell Time



Container Lifecycle (Export Cycle)

Container Freight Station (CFS) - Dwell Time



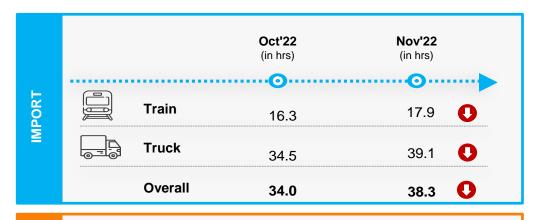
- The marked entries showcase increase in performance in comparison to Oct'22
- The marked entries showcase decrease in performance in comparison to Oct'22

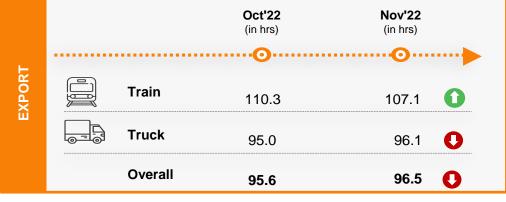
Ennore Port Terminal: Container Transportation



Container Lifecycle (Import Cycle)

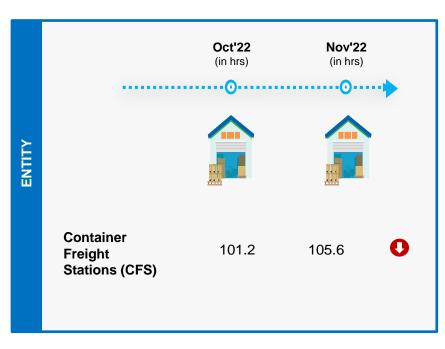
Port Dwell Time





Container Lifecycle (Export Cycle)

Container Freight Stations(CFS)- Dwell Time

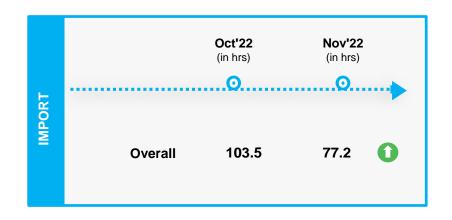


- The marked entries showcase increase in performance in comparison to Oct'22
- The marked entries showcase decrease in performance in comparison to Oct'22

New Mangalore Port Terminal: Container Transportation



Port Dwell Time



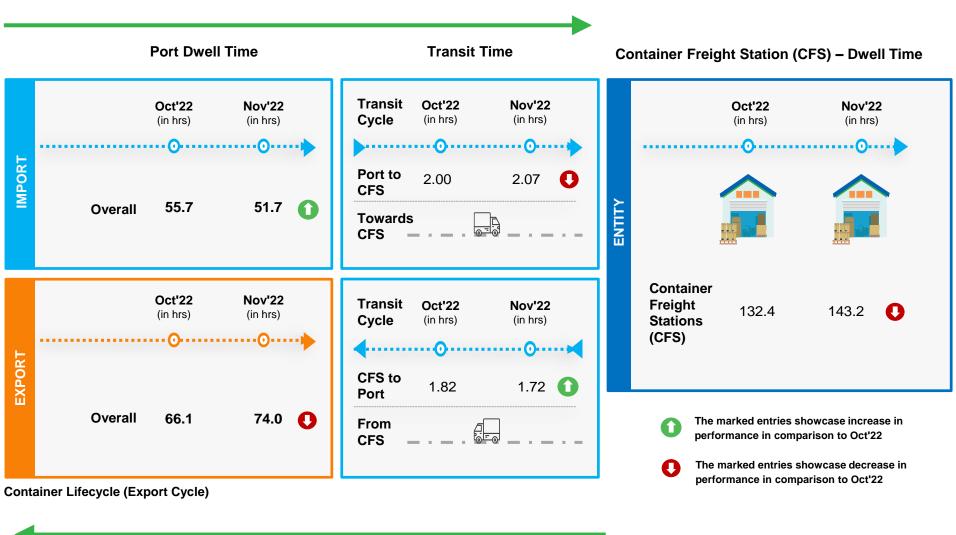
- The marked entries showcase increase in performance in comparison to Oct'22
- The marked entries showcase decrease in performance in comparison to Oct'22



Vishakhapatnam Port Terminal: Container Transportation



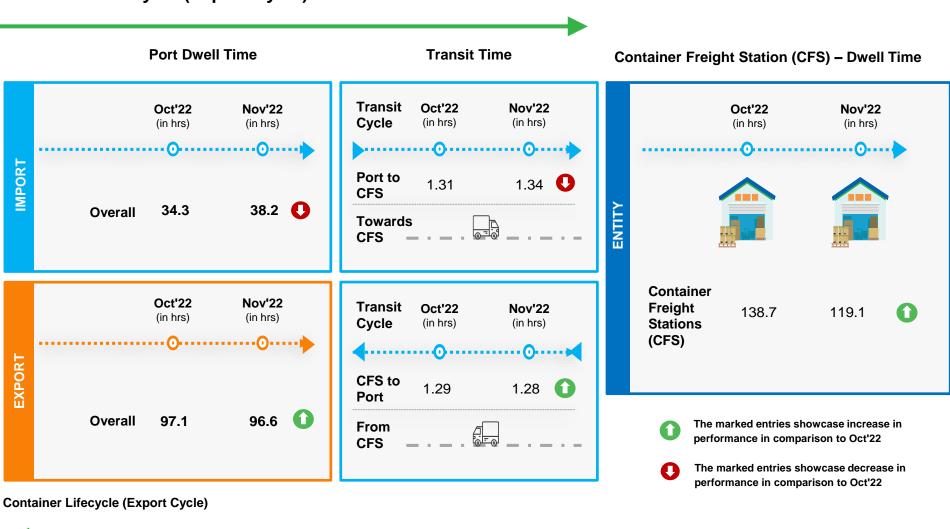
Container Lifecycle (Import Cycle)



Kolkata Port Terminal: Container Transportation



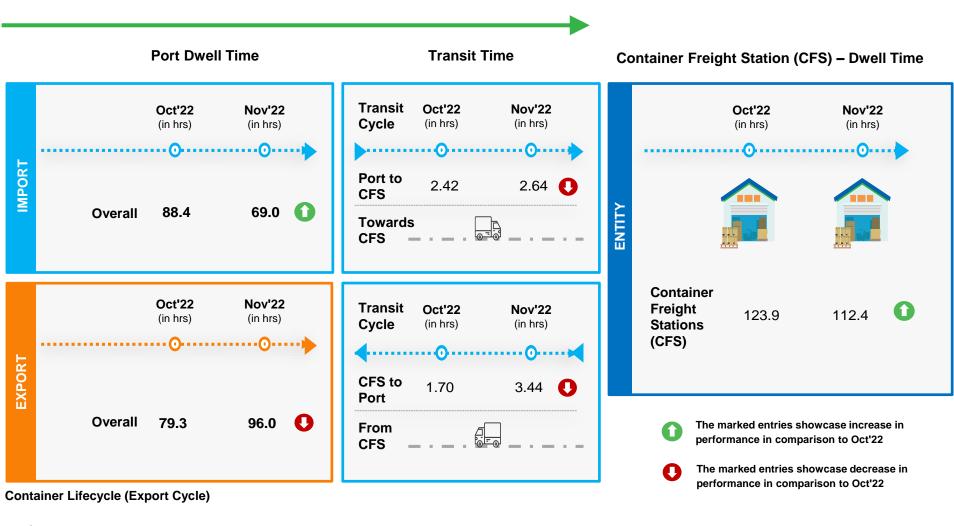
Container Lifecycle (Import Cycle)



Haldia Port Terminal: Container Transportation



Container Lifecycle (Import Cycle)



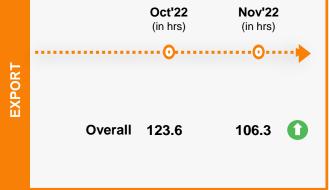


Pipavav Port Terminal: Container Transportation



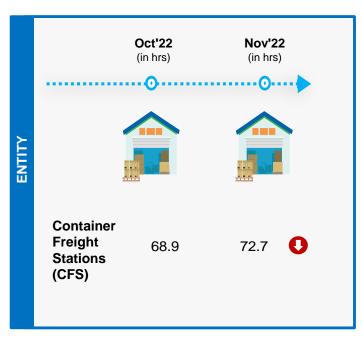
Container Lifecycle (Import Cycle)

Port Dwell Time Oct'22 Nov'22 (in hrs) (in hrs) IMPORT 65.1 0 29.0 Overall Oct'22 Nov'22



Container Lifecycle (Export Cycle)

Container Freight Station (CFS) - Dwell Time



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

Kandla Port Terminal: Container Transportation



Port Dwell Time



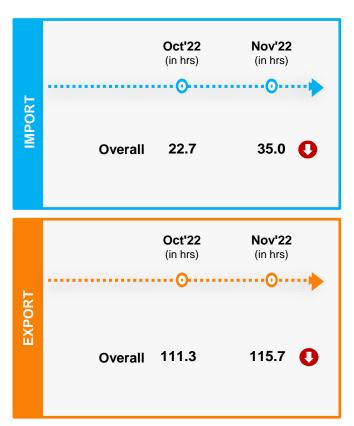
- The marked entries showcase increase in performance in comparison to Oct'22
- The marked entries showcase decrease in performance in comparison to Oct'22

Hazira Port Terminal: Container Transportation

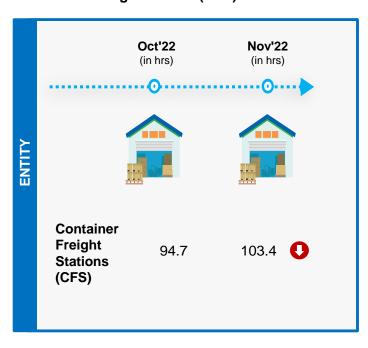


Container Lifecycle (Import Cycle)

Port Dwell Time



Container Freight Station (CFS) - Dwell Time



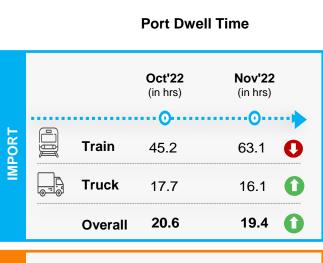
- The marked entries showcase increase in performance in comparison to Oct'22
- The marked entries showcase decrease in performance in comparison to Oct'22

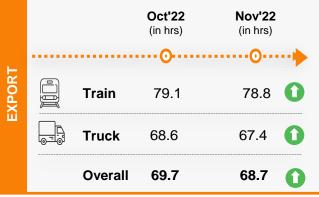
Container Lifecycle (Export Cycle)

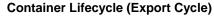
JNPA Port Terminal: Container Transportation



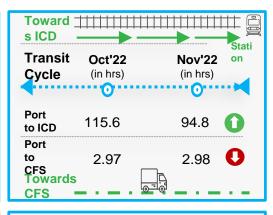
Container Lifecycle (Import Cycle)

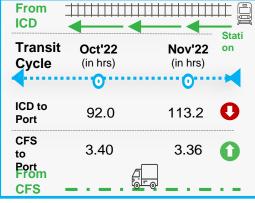




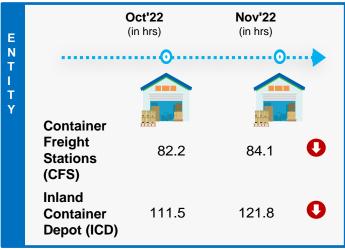


Transit Time





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



Volume distribution at port terminal - Truck/Rail

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

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

Page 44

JNPA Port Terminal: Container Transportation



MPORT CYCLE <u>DWE</u>	LL TIME (Nov'22 – in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	19.4	5.8%
	Port Dwell Time for Truck Bound Containers	16.1	9.0%
	Port Dwell time for Train Bound Containers	63.1	39.6% 🖶
Port dwell time	Port Dwell time Direct Port Delivery (DPD) containers	28.8	3.7%
	Port Dwell time Containers bound for CFS	14.0	14.6% 👚
	Port Dwell for Empty Containers	20.7	19.8% 👚
	Port Dwell for Laden Containers	19.2	2.5%
	Port to ICD	94.8	17.9% 🛖
ransit time	Port to CFS	2.98	0.3%
EXPORT CYCLE DWE	:LL TIME (Nov'22– in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	68.7	1.4%
	Port Dwell Time for Truck Bound Containers	67.4	1.7%
	Port Dwell time for Train Bound Containers	78.8	0.4%
Port dwell time	Port Dwell time Direct Port Entry (DPE) containers	67.6	4.8%
	Port Dwell time Containers bound from CFS	65.5	2.0%
	Port Dwell for Empty Containers	59.9	5.7%
	Port Dwell for Laden Containers	72.3	0.3%
ransit time	ICD to Port	113.2	23.0% 👢
Tariot time	CFS to Port	3.36	1.2%

1

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

JNPA Region: Parking Plaza Dwell Time Analysis

Nov'22

3.0



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	Oct'22 (in hrs)	Nov'22 (in hrs)
Overall Parking Plaza	5.69	5.34

Container Handled: Day wise (Nov'22)

Parking Plaza	Within 2 hrs	Within 2-4 hrs	Within 4-8 hrs	Within 8-16 hrs	Within 16-24 hrs	More than 24 hrs
JNPA Central Parking Plaza	10%	25%	35%	21%	5%	4%

Parking Plaza Gate Out - Terminal In

BMCT

Mode	(in hrs)	(in hrs)
Overall Parking Plaza to JNPA Port	1.32	1.21
Port	Oct'22 (in hrs)	Nov'22 (in hrs)
JNPCT	1.2	1.1
NSICT	1.3	0.9
GTI	1.0	1.0
NSIGT	0.7	0.5

Oct'22

Container Handled: Day wise (Nov'22)

Parking Plaza	Within 2 hrs	Within 2-4 hrs	Within 4-8 hrs	Within 8-16 hrs	Within 16-24 hrs	More than 24 hrs
JNPCT	79%	14%	4%	1%	2%	0%
NSICT	71%	18%	7%	2%	0%	1%
GTI	85%	12%	2%	1%	0%	0%
NSIGT	89%	7%	2%	1%	1%	0%
PSA	25%	42%	26%	6%	1%	0%

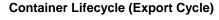
Mundra Port Terminal: Container Transportation



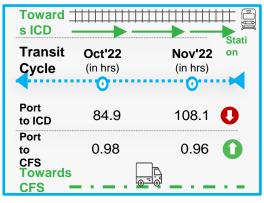
Container Lifecycle (Import Cycle)

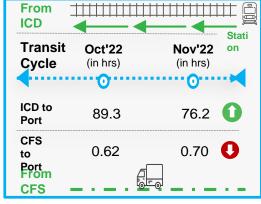
Port Dwell Time Oct'22 Nov'22 (in hrs) (in hrs) . ()--..... IMPORT Train 82.0 80.1 **Truck** 23.4 21.6 0 29.6 27.0 Overall



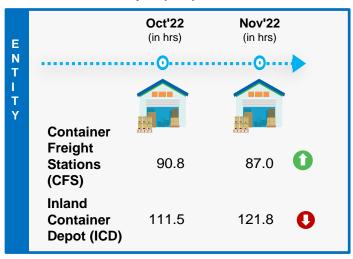


Transit Time





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



Volume distribution at port terminal - Truck/Rail

	Import	Export
Rail	26%	28%
Truck	74%	72%

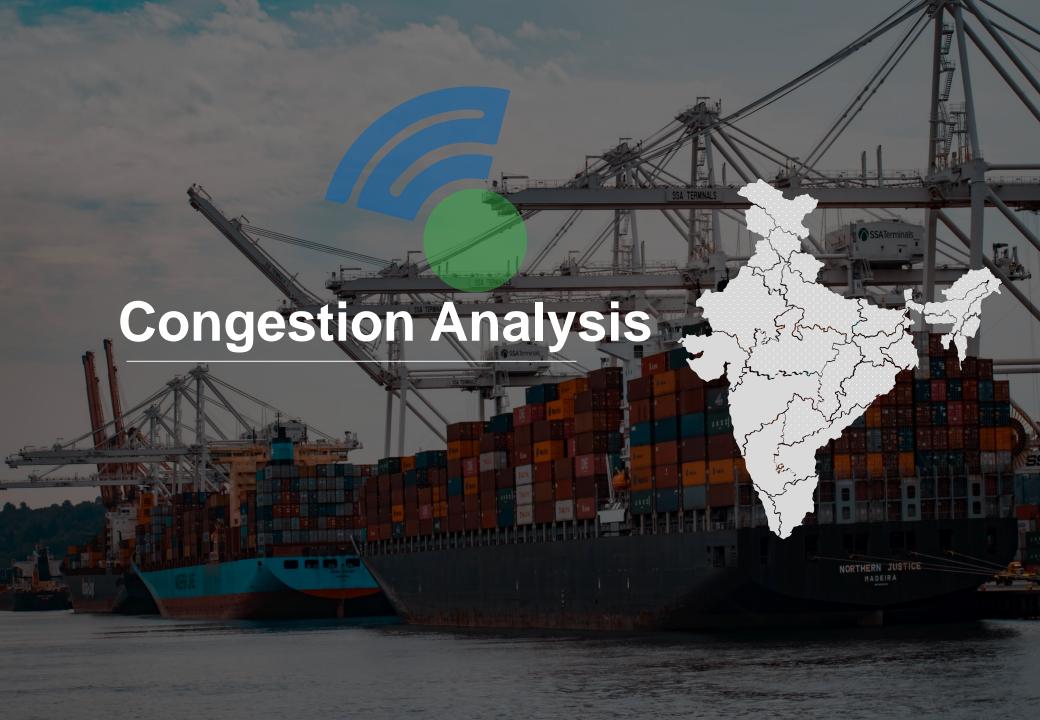
- The marked entries showcase increase in performance in comparison to Oct'22
- The marked entries showcase decrease in performance in comparison to Oct'22

Mundra Port Terminal: Container Transportation



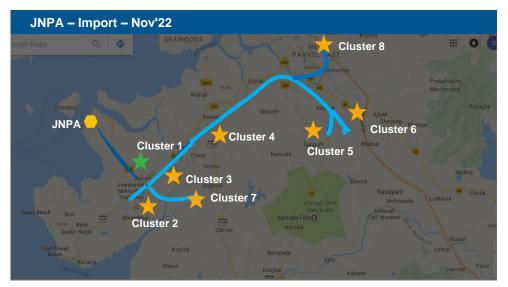
IMPORT CYCLE DW	/ELL TIME (Nov'22– in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	27.0	8.8%
Port dwell time	Port Dwell Time for Truck Bound Containers	21.6	7.7%
	Port Dwell time for Train Bound Containers	80.1	2.3%
Transit time	Port to ICD	108.1	27.3%
Transit time	Port to CFS	0.96	2.0%
EXPORT CYCLE DV	VELL TIME (Nov'22- in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	103.2	0.5%
Port dwell time	Port Dwell Time for Truck Bound Containers	92.1	0.4%
	Port Dwell time for Train Bound Containers	143.8	6.4%
Transit time	ICD to Port	76.2	14.7%
rransii iirile	CFS to Port	0.70	12.9%

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



JNPA Region: Congestion Analysis







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

High Congestion

Medium Congestion

Legends

Clusters with bottleneck		
Cluster 1	JNPA area	
Cluster 8	Taloja, navi mumbai	
Clusters without bottle	eneck	
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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Low Congestion

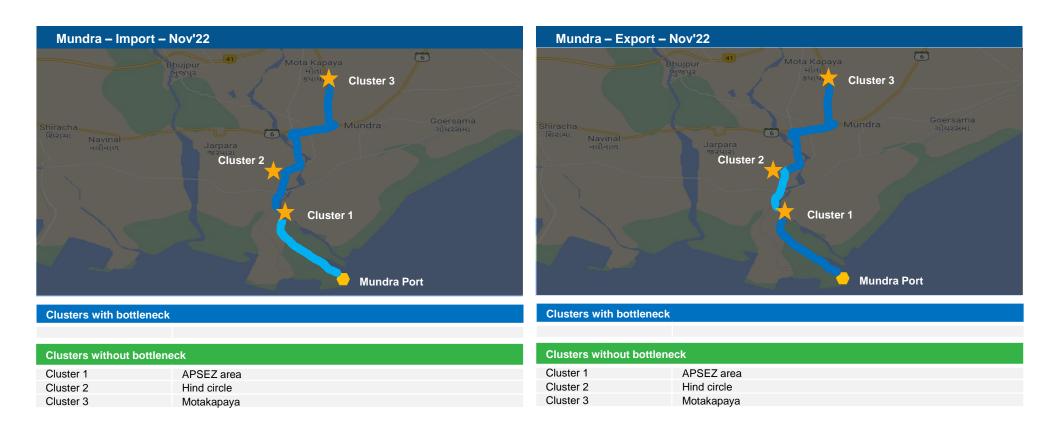
Cluster with bottleneck

Mundra Region: Congestion Analysis

Legends

High Congestion





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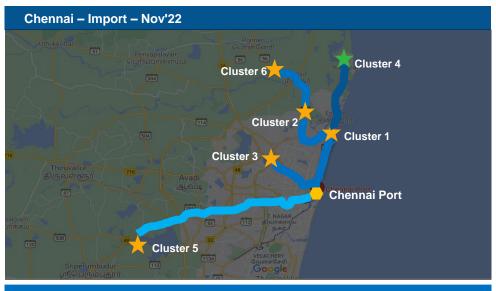
Cluster with bottleneck

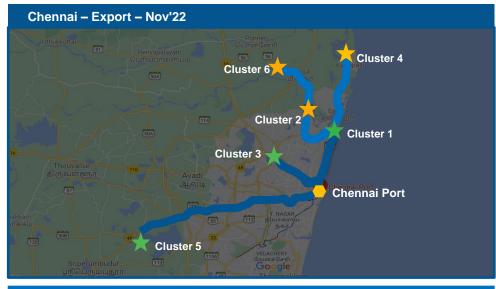
Cluster without bottleneck

Medium Congestion Low Congestion

Chennai Region: Congestion Analysis







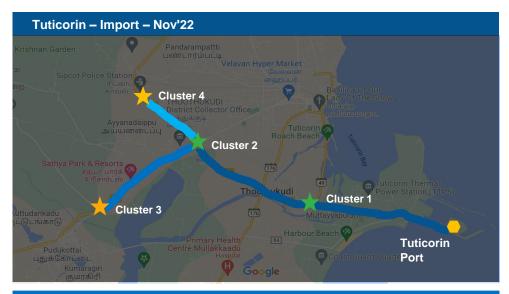
Clusters with bottleneck	
Cluster 4	Kattupalli port bound area
Clusters without bottlene	eck
Cluster 1	Chennai port bound area
Cluster 2	Ennore port bound area
Cluster 3	Chennai central area
Cluster 5	Chennai automotive industry area (Irungatukottai)
Cluster 6	Thiruvallur Outer city bound area

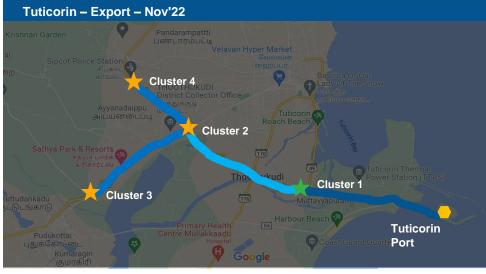
Clusters with bottleneck	
Cluster 1	Chennai port bound area
Cluster 3	Chennai central area
Cluster 5	Chennai automotive industry area (Irungatukottai)
Clusters without bottlene	eck
Cluster 2	Ennore port bound area
	Efficie port bound died
Cluster 4	Kattupalli port bound area
Cluster 4 Cluster 6	·

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

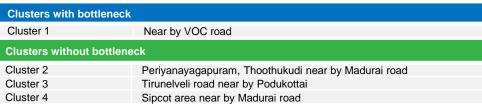
Tuticorin Region: Congestion Analysis







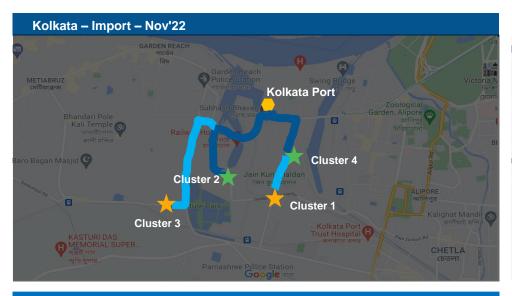
Clusters with bottleneck	
Cluster 1	Near by VOC road
Cluster 2	Periyanayagapuram, Thoothukudi near by Madurai road
Clusters without bottlen	eck
Clusters without bottlene Cluster 3	Tirunelveli road near by Podukottai

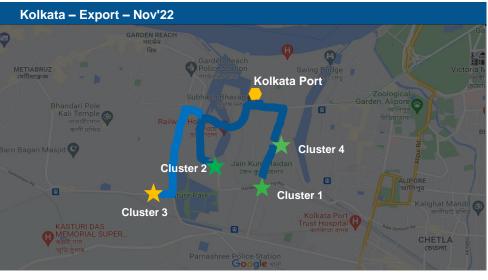


Legends Medium Congestion Low Congestion Cluster with bottleneck Cluster without bottleneck **High Congestion**

Kolkata Region: Congestion Analysis







Clusters with bottleneck	
Cluster 2	Sc

Cluster 4

Sonapur road area
Babu bazar area

Clusters without bottleneck

Cluster 1	Base bridge area
Cluster 3	Nature park area

Clusters with bottleneck

Cluster 1	Base bridge area
Cluster 2	Sonapur road area
Cluster 4	Babu bazar area

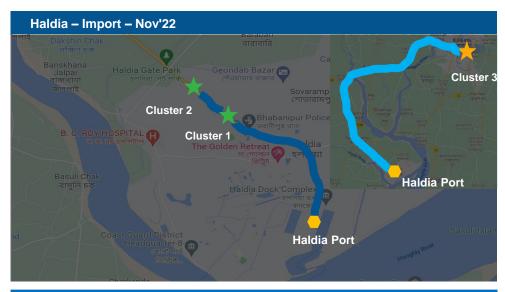
Clusters without bottleneck

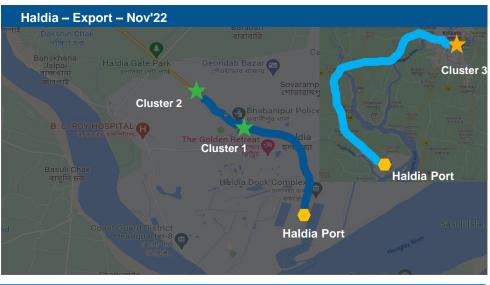
Cluster 3 Nature park area

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

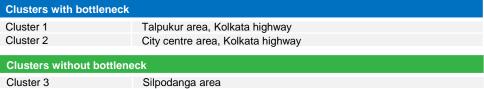
Haldia Region: Congestion Analysis







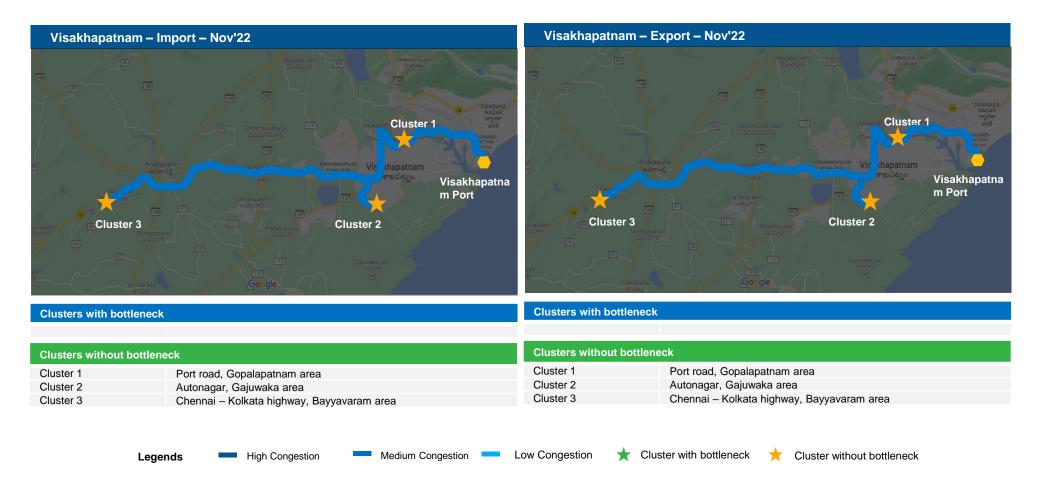
Clusters with bottleneck Cluster 1 Talpukur area, Kolkata highway Cluster 2 City centre area, Kolkata highway **Clusters without bottleneck** Cluster 3 Silpodanga area





Visakhapatnam Region: Congestion Analysis







Transit movement across ICPs



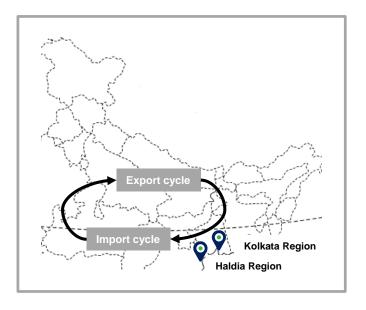
Below is the analysis of the transit movement across ICPs from Kolkata Port Terminal or Haldia Port Terminal both Import and Export cycle

Kolkata Port Terminal

	Mode	ICP Raxaul
	Overall	109.5 hrs
<u>e</u>	Road	162.3 hrs
Cyc	Rail	98.5 hrs
Import Cycle	Haldia Port	Terminal
	Mode	ICP Raxaul
	Overall	-

Kolkata Port Terminal

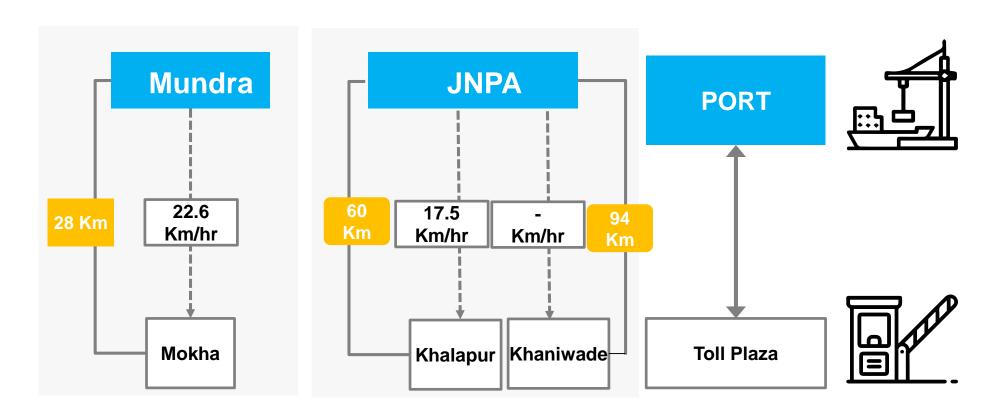
	Mode	ICP Raxaul
	Overall	554.8 hrs
<u>e</u>	Road	311.7 hrs
t Cy	Rail	561.2 hrs
Export Cycle	Haldia Port	Terminal
	Mode	ICP Raxaul
	Overall	2112.7 hrs



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	Average Speed (in Km/h)			
rvegion	FOIL	Aujacent Toli piaza	(in KM)	Sep'22	Oct'22	Nov'22	
Western	Hazira	Boriach	77	4.0	4.7	4.1	
	KOPT(Kolkata)	Dankuni	24	2.7	-	2.4	
Eastern	LICT(Holdin)	Debra	100	8.8	8.7	6.6	
	HICT(Haldia)	Jaladhulagori	101	8.4	7.3	7.2	
	Chennai	Surapattu	18	-	-	-	
	Cheffilai	Nallur	23	1.6	2.0	2.6	
	Kochi	Kumbalam	13	0.8	0.7	0.7	
	Kochi	GIPL Palayekara	71	10.4	12.9	8.8	
		Brahamarakotlu	25	1.4	1.8	3.7	
Southern	NMPT (New Manglore)	Talapady	22.5	1.4	1.6	2.1	
	(Now Manglere)	Gundmi	68	4.4	5.4	2.5	
	M-111:	Surapattu	36	-	-	~	
	Kattupalli	Nallur	33	3.2	3.5	4.2	
	Ennore	Surapattu	35	-	-	-	
	Tuticron	VoCPT CheckPost1	4.3	14.5	15.9	17.1	

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



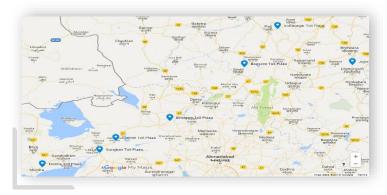
Avg. Speed between Toll to Toll Plazas

	Avg. opeca between 1011 to 10111 lazas						
	Source	Destination Toll Plaza	Inter Distance (Km)	Oct'22 (in km/hrs)	Nov'22 (in km/hrs)		
	JNPA	Khaniwade	94	21.7	-		
	JNPA	Khalapur	60	16.0	17.5		
Ϋ́	Khaniwade	Charoti	50	33.2	35.7		
JNPA	Charoti	Boriach	126	25.7	24.7		
	Boriach	Bharthan	142	30.4	31.4		
	Bharthan	Vasad	60	37.8	38.2		
	Khalalpur	Khedshivpur	105	30.1	33.3		
_	Mundra	Mokha	28	23.2	22.6		
DRA	Mokha	Makhel	150	27.1	27.6		
MUNDRA	Mokha	Surajbari	115	26.5	27.0		
~	Makhel	Bhalgam	108	32.0	32.5		

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	e 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					
1	Adani CFS Eximyard, Mundra	33	Mundhra CFS, Mundra	65	ALS Tuticorin Terminal Private Limited	
2	Allcargo Global Logistics CFS, Chennai	34	Landmark CFS, Mundra	66	Hind Terminals CFS, Chennai	
3	Sical CFS, Chennai Tiruvallur Tamil Nadu	35	Navkar Corporation Yard 3 CFS, Panvel	67	St. John Freight Systems Ltd ICD Division	
4	Saurashtra CFS, Mundra	36	Triway CFS, Chennai		TG Terminals CFS	
5	MICT CFS, Mundra	37	Sattva Cfs And Logistics CFS, Chennai	69	Transworld CFS, Mundra	
6	Ameya Logistics CFS, Navi Mumbai	38	Balmer Lawrie CFS, Chennai	70	Hind Terminal CFS, Hazira	
7	Sanco Trans CFS, Chennai	39	AllCargo Logistics	71	Vilsons CFS	
8	Continental Warehousing Corporation CFS (Nhava Seva), Chennai	40	Apollo Logisolutions CFS, Panvel	72	Raja Agencies CFS	
9	Gateway Distriparks CFS, Chennai	41	Gateway East India CFS	73	VPL Integral CFS	
10	Gateway Distriparks CFS, Navi Mumbai	42	Dronagiri Rail Terminal CFS, Navi Mumbai	74	Thiru Rani Logistics CFS, Tiruvallur	
11	JWC Logistics Park CFS	43	APM (Maersk India) CFS, Navi Mumbai	75	Chola Logistiks Pvt Ltd	
12	CWC CFS, Mundra	44	Sudharsan Logistics CFS, Chennai	76	JWR CFS	
13	Hind Terminals Pvt. Ltd. CFS, Mundra	45	Seabird CFS, Hazira	77	Balmer & Lawrie CFS, Navi Mumbai	
14	Speedy Multimode CFS, JNPT	46	Ocean Gate CFS, Panvel	78	Vaishno Logistics CFS, Navi Mumbai	
15	Adani CFS, Hazira	47	International Cargo Terminal CFS	79	Sravan CFS-1	
16	International Cargo Terminals (ULA) CFS, Navi Mumbai	48	Continental Warehousing Corporation Nhava Sheva Ltd.	80	Prompt Terminals (P) Ltd	
17	TG Terminals CFS, Mundra	49	Navkar Corporation Yard 2 CFS, Panvel	81	Maersk Annex (APM)CFS, Navi Mumbai	
18	Honey Comb CFS, Mundra	50	Kerry Indev Logistics ICD, Kanchipuram	82	Sical Multimodal and Rail Transport Ltd CFS Division	
19	Seabird CFS, Mundra	51	A S Shipping Agencies CFS, Tiruvallur	83	CWC Impex Park CFS, Navi Mumbai	
20	Phonex CFS	52	Rishi CFS, Mundra	84	VCT CFS	
21	Ashutosh CFS, Mundra	53	Chandra CFS, Tiruvallur	85	A V Joshi CFS	
22	Ennore Cargo Container Terminal CFS, Chennai	54	Navkar Corporation Yard 1 CFS, Panvel	86	Century Plyboards CFS, Sonai	
23	Allcargo Logistics CFS	55	Glovis India CFS, Kanchipuram	87	A.S.Shipping Agencies Pvt Ltd	
24	Sarveshwar CFS	56	Sattva Hi-Tech And Conware CFS, Chennai	88	Viking Warehousing CFS, Chennai	
25	Kailash Shipping Services CFS, Chennai	57	Empezar Logistics CFS	89	A L Logistics CFS	
26	Century Plyboards CFS, JJP	58	STP Services CFS, Chennai	90	Continental Warehousing Corporation CFS (Nhava Seva), Tiruvallur	
27	Continental Warehousing CFS, Navi Mumbai	59	Calyx Container Terminal CFS, Chennai	91	MIV CFS	
28	EFC Logistics India	60	Apm Terminals India CFS, Tiruvallur	92	Diamond CFS Park	
29	Punjab Conware CFS, Navi Mumbai	61	Balmer Lawrie CFS	93	Seabird CFS, Krishnapatnam	
30	Ashte Logistics CFS, Panvel	62	Take Care Logistics CFS	94	CWC CFS, Kolkata	
31	GDKL CFS	63	3 Kerry Indev Logistics Private Limited / Continental Container Freight Station			
32	Adani CFS, Kattupalli Tiruvallur Tamil Nadu	64	Hari CFS			

Annexure – Western Region



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

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	Allcargo Global Logistics CFS, Chennai	21	Calyx Container Terminal CFS, Chennai
2	Sical CFS, Chennai Tiruvallur Tamil Nadu	22	Apm Terminals India CFS, Tiruvallur
3	Sanco Trans CFS, Chennai	23	Kerry Indev Logistics Private Limited / Continental Container Freight Station
4	Continental Warehousing Corporation CFS (Nhava Seva), Chennai	24	Hari CFS
5	Gateway Distriparks CFS, Chennai	25	ALS Tuticorin Terminal Private Limited
6	Ennore Cargo Container Terminal CFS, Chennai	26	Hind Terminals CFS, Chennai
7	Kailash Shipping Services CFS, Chennai	27	St. John Freight Systems Ltd ICD Division
8	GDKL CFS	28	Vilsons CFS
9	Adani CFS, Kattupalli Tiruvallur Tamil Nadu	29	Raja Agencies CFS
10	Triway CFS, Chennai	30	Thiru Rani Logistics CFS, Tiruvallur
11	Sattva Cfs And Logistics CFS, Chennai	31	Chola Logistiks Pvt Ltd
12	Balmer Lawrie CFS, Chennai	32	Prompt Terminals (P) Ltd
13	Sudharsan Logistics CFS, Chennai	33	Sical Multimodal and Rail Transport Ltd CFS Division
14	Continental Warehousing Corporation Nhava Sheva Ltd.	34	A.S.Shipping Agencies Pvt Ltd
15	Kerry Indev Logistics ICD, Kanchipuram	35	Viking Warehousing CFS, Chennai
16	A S Shipping Agencies CFS, Tiruvallur	36	Continental Warehousing Corporation CFS (Nhava Seva), Tiruvallur
17	Chandra CFS, Tiruvallur	37	MIV CFS
18	Glovis India CFS, Kanchipuram	38	Diamond CFS Park
19	Sattva Hi-Tech And Conware CFS, Chennai	39	Seabird CFS, Krishnapatnam
20	STP Services CFS, Chennai		

List of CFS name used in Eastern CFS Performance Index				
1	Phonex CFS			
2	Allcargo Logistics CFS			
3	Century Plyboards CFS, JJP			
4	Gateway East India CFS			
5	Balmer Lawrie CFS			
6	VPL Integral CFS			
7	Sravan CFS-1			
8	VCT CFS			
9	Century Plyboards CFS, Sonai			
10	A L Logistics CFS			
11	CWC CFS, Kolkata			

