

Logistics Databank Analytics Report

January 2023







Section 1

Report Inference

This sections depicts the inference and major highlights of the report

- 1. Brief Summary
- 2. Pan India Performance
- 3. <u>Port Dwell Time Performance Corridor & Terminal wise</u> <u>Performance</u>
- 4. Critical Incident Summary
- 5. COVID-19 Impact
- 6. <u>Pan India Port Performance Benchmarking &</u> Performance Index
- 7. Pan India CFS Performance Benchmarking & Performance Index
- 8. 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

Brief Port-wise Dwell Time – Import Cycle



Import Dwell Time - Six month's Performance

	Aug'22 (in hrs)	Sep'22 (in hrs)	Oct '22 (in hrs)	Nov''22 (in hrs)	Dec'22 (in hrs)	Jan'23 (in hrs)
Chennai	44.2	39.3	41.8	40.5	35.6	45.3
Ennore	33.8	35.8	34.0	38.3	45.1	38.0
Haldia	90.0	88.1	88.4	69.0	89.1	67.0
Hazira	39.9	32.2	22.7	35.0	27.3	38.5
JNPA	21.0	18.1	20.6	19.4	22.6	21.9
Kandla	41.8	84.6	44.5	45.6	46.4	21.2
Kattupalli	48.4	50.0	43.1	53.4	54.0	43.2
Kochi	36.8	52.3	38.2	40.0	36.7	46.6
Kolkata	34.3	30.4	34.3	38.2	37.2	30.6
Krishnapatnam	19.5	32.8	36.8	37.1	16.3	32.2
Mangalore	106.6	97.1	103.5	77.2	66.3	60.4
Mundra	28.8	29.5	29.6	27.0	27.2	23.6
Pipavav	37.2	35.5	29.0	65.1	54.1	40.1
Tuticorin	20.3	17.2	19.3	19.8	22.0	23.4
Visakhapatnam	52.7	89.8	55.7	51.7	55.5	49.1

Brief Port-wise Dwell Time – Export Cycle



Export Dwell Time - Six month's Performance

	Aug'22 (in hrs)	Sep'22 (in hrs)	Oct'22 (in hrs)	Nov''22 (in hrs)	Dec'22 (in hrs)	Jan'23 (in hrs)
 Chennai	99.9	88.6	83.2	81.9	85.5	89.4
Ennore	116.0	84.0	95.6	96.5	105.6	100.3
Haldia	152.1	83.9	79.3	96.0	95.9	144.0
Hazira	116.2	140.5	111.3	115.7	107.4	103.1
JNPA	74.7	71.0	69.7	68.7	69.0	70.9
Kandla	125.8	87.5	85.5	135.2	151.2	87.5
Kattupalli	86.3	83.5	82.3	84.4	86.8	87.8
Kochi	90.5	82.5	82.4	69.1	73.5	70.5
Kolkata	110.2	98.2	97.1	96.6	94.1	126.8
Krishnapatnam	64.6	54.3	68.9	56.3	60.8	78.8
Mangalore	100.3	-	-	-	67.6	70.2
Mundra	113.5	107.7	102.7	103.2	97.0	106.2
Pipavav	128.5	112.3	123.6	106.3	103.6	108.4
Tuticorin	56.8	55.4	58.1	48.6	58.1	64.9
Visakhapatnam	96.8	70.9	66.1	74.0	78.1	88.7

Brief CFS/ ICD Dwell Time



Port-wise CFS Dwell Time

	Aug'22 (in hrs)	Sep'22 (in hrs)	Oct'22 (in hrs)	Nov"22 (in hrs)	Dec'22 (in hrs)	Jan'23 (in hrs)
Chennai	98.6	92.1	101.2	105.6	96.3	103.1
Ennore	98.6	92.1	101.2	105.6	96.3	103.1
Haldia	125.3	129.1	123.9	112.4	105.1	102.7
Hazira	103.1	95.6	94.7	103.4	94.1	101.8
JNPA	88.9	81.9	82.2	84.1	77.1	77.7
Kattupalli	98.6	92.1	101.2	105.6	96.3	103.1
Kochi	122.9	124.5	116.1	100.3	98.1	100.4
Kolkata	125.6	139.0	138.7	119.1	123.5	124.0
Krishnapatnam	109.1	94.8	97.5	116.7	89.4	108.3
Mundra	85.9	84.6	90.8	87.0	84.3	81.5
Pipavav	79.8	99.0	68.9	72.7	78.2	81.3
Tuticorin	118.2	121.7	125.1	125.9	107.4	125.6
Visakhapatnam	128.8	149.9	132.4	143.2	154.5	149.8

Brief CFS/ ICD Dwell Time



Region-wise CFS Dwell Time

	Aug'22 (in hrs)	Sep'22 (in hrs)	Oct'22 (in hrs)	Nov'22 (in hrs)	Dec'22 (in hrs)	Jan'23 (in hrs)
Western	88.5	83.5	82.8	86.3	80.2	79.5
Southern	102.3	97.8	104.8	109.3	98.0	106.7
Eastern	126.2	141.8	136.7	126.0	132.7	127.6

ICD Dwell Time

	Aug'22 (in hrs)	Sep'22 (in hrs)	Oct'22 (in hrs)	Nov'22 (in hrs)	Dec'22 (in hrs)	Jan'23 (in hrs)
Western	123.4	116.5	111.5	121.8	110.3	119.1

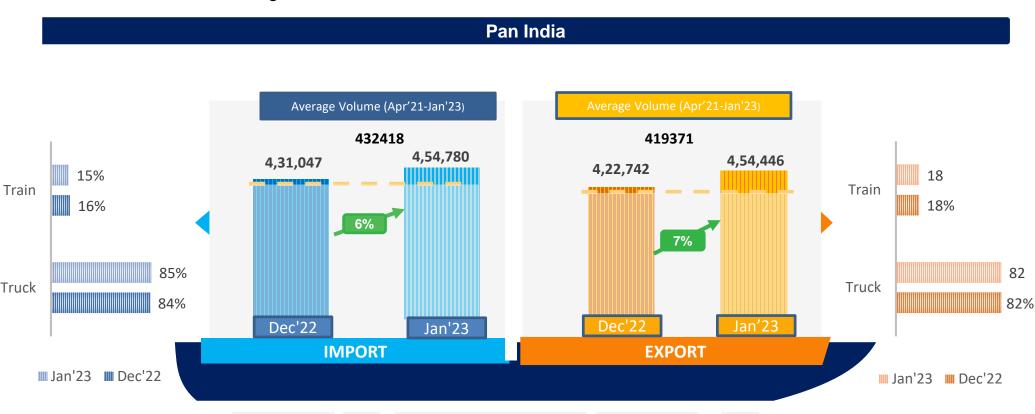
Transit Time - Between Delhi & Mumbai

	Dec'22 (in hrs)	Jan'23 (in hrs)	
Port to ICD	107.2	86.2	0
ICD to Port	85.1	80.8	0

Brief Volume Analysis - Pan India



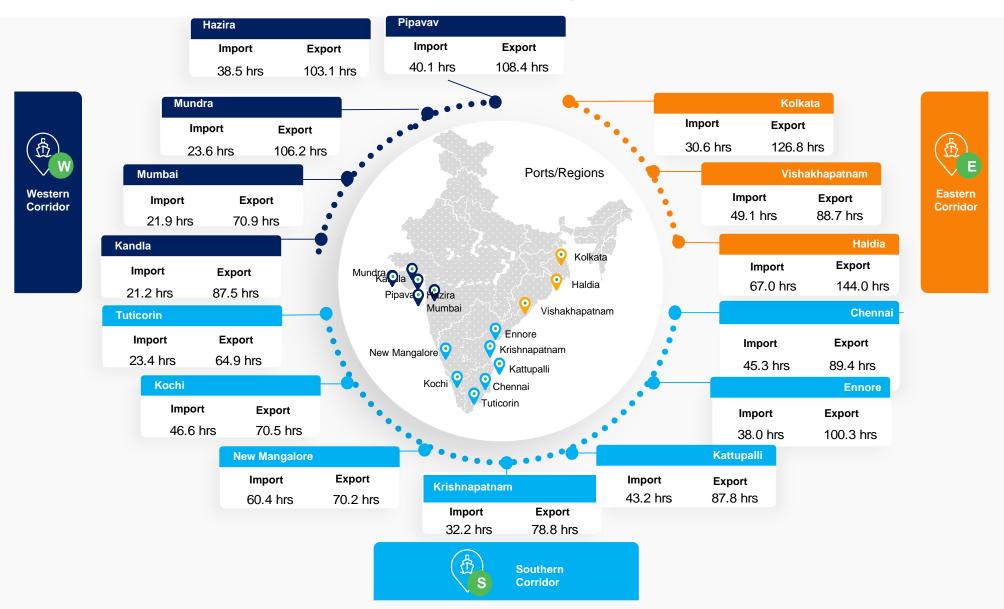
Below graphs depicts the change in volume percentage during the month of January'23 w.r.t the last month i.e., December'22 and the average EXIM corridor wise volume.



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PAN INDIA Performance Snapshot: January 2023 (Dwell Time)





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Port Dwell Time Performance – Western Corridor (Import Cycle)



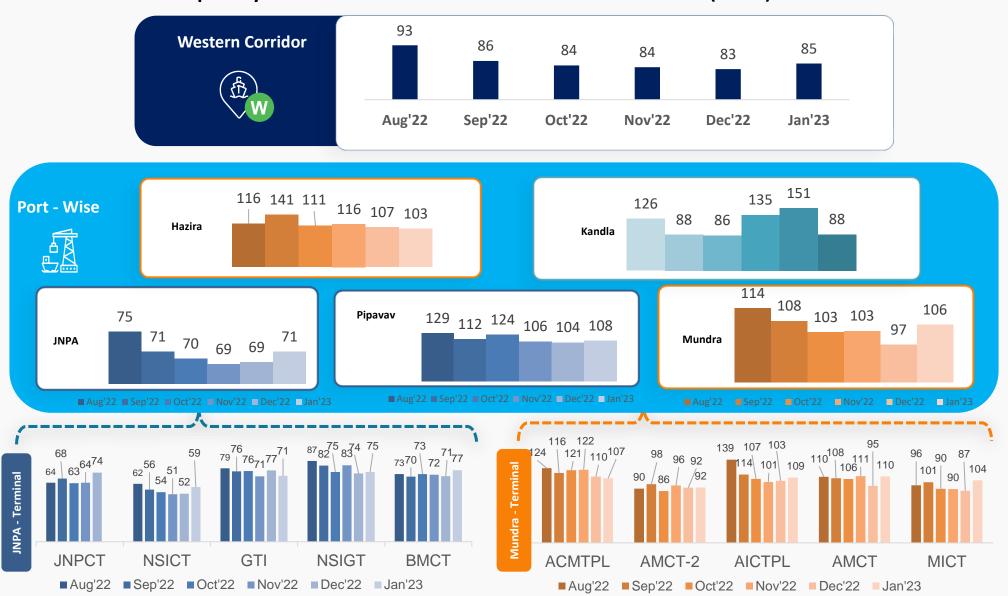
Import Cycle – Dwell Time Performance – Western Corridor (in hrs)



Port Dwell Time Performance – Western Corridor (Export Cycle)



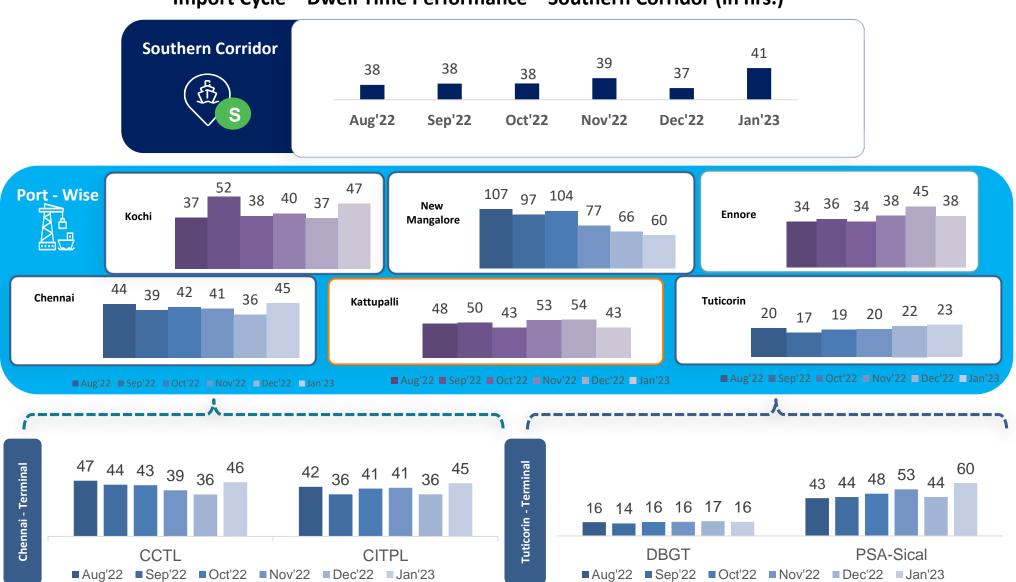
Export Cycle – Dwell Time Performance – Western Corridor (in hrs)



Port Dwell Time Performance – Southern Corridor (Import Cycle)



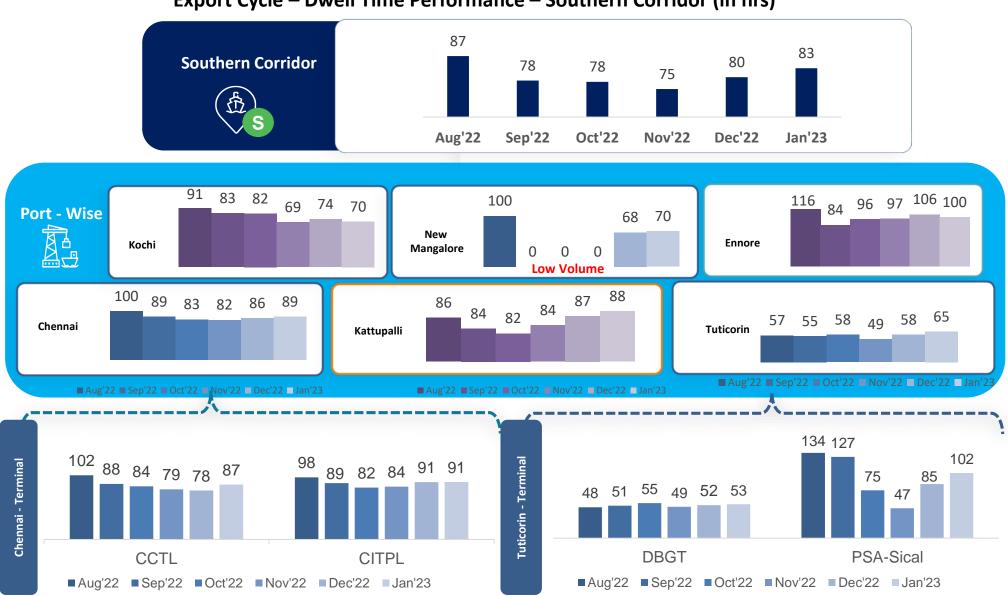
Import Cycle – Dwell Time Performance – Southern Corridor (in hrs.)



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

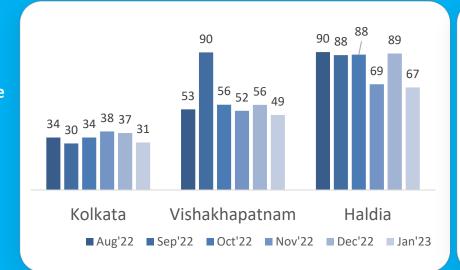


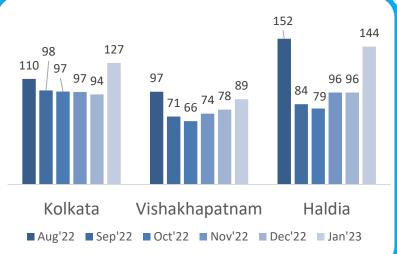




Port - Wise

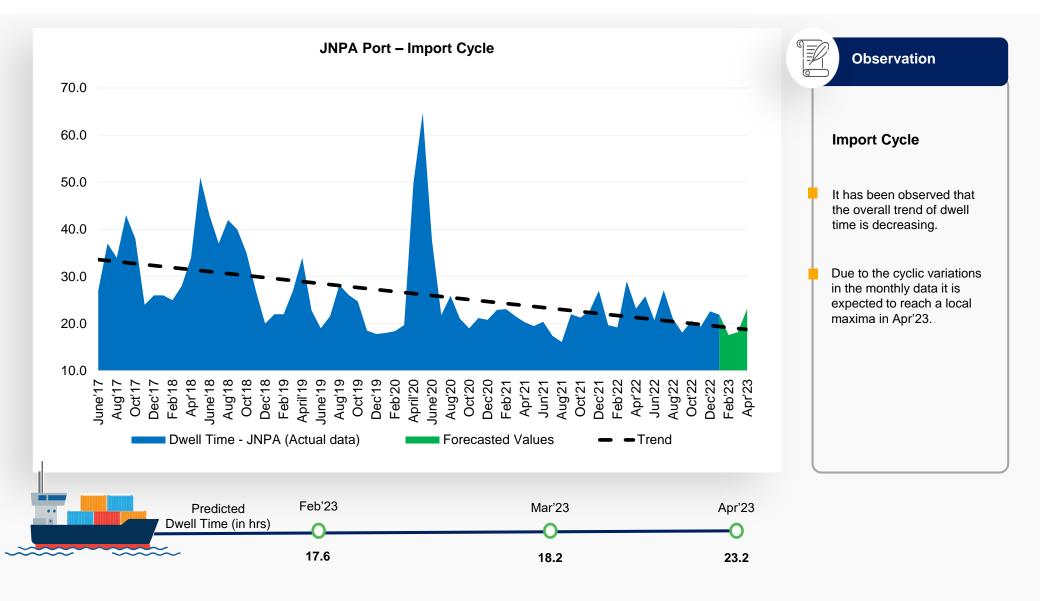






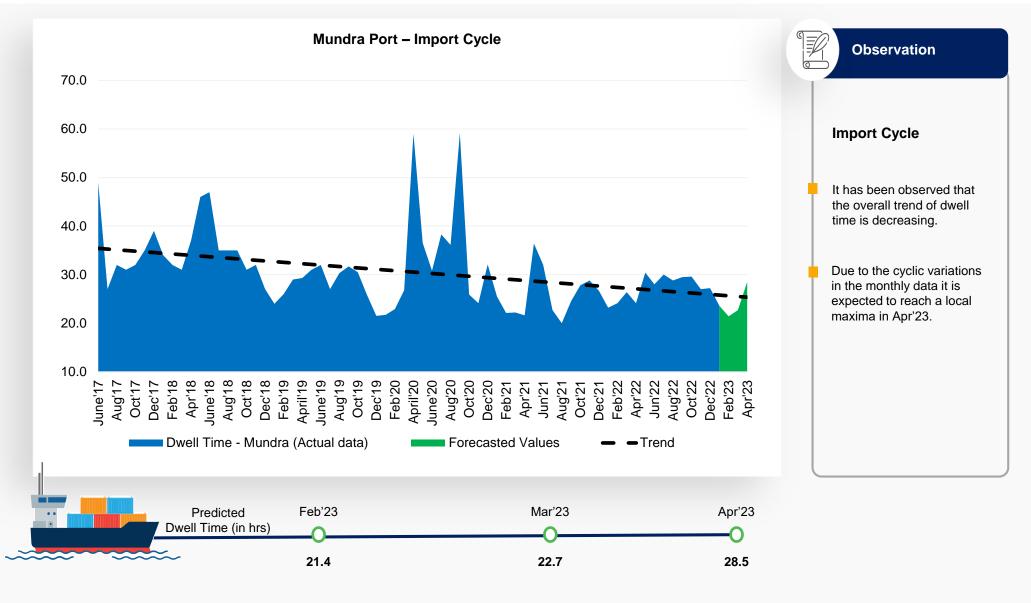
Predictive Analysis: JNPA Port





Predictive Analysis: Mundra Port





Critical Incident Summary



Western Corridor

- The Overall container handling performance in Western Corridor in Import Cycle has improved by 7.9% & Export Cycle has deteriorated by 2.5%.
- The container handling performance at CFS has improved by 0.9%. Also, ICD performance has deteriorated by 8.0%.

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time	ICD Dwell Time
Jan'23	23.4 hrs	84.8 hrs	79.5 hrs	119.1 hrs
Dec'22	25.4 hrs	82.7 hrs	80.2 hrs	110.3 hrs

Southern Corridor

- The Overall container handling performance in Southern Corridor in Import Cycle has deteriorated by 11.3% & in Export Cycle has deteriorated by 3.5%.
- The container handling performance at CFS has deteriorated by 8.9%

Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time
Jan'23	41.4 hrs	82.5 hrs	106.7 hrs
Dec'22	37.2 hrs	79.7 hrs	98.0 hrs

Eastern Corridor

- The Overall container handling performance in Eastern Corridor for Import Cycle has improved by 11.9% and Export Cycle has deteriorated by 19.6%.
- The container handling performance at CFS has improved by 3.8%.

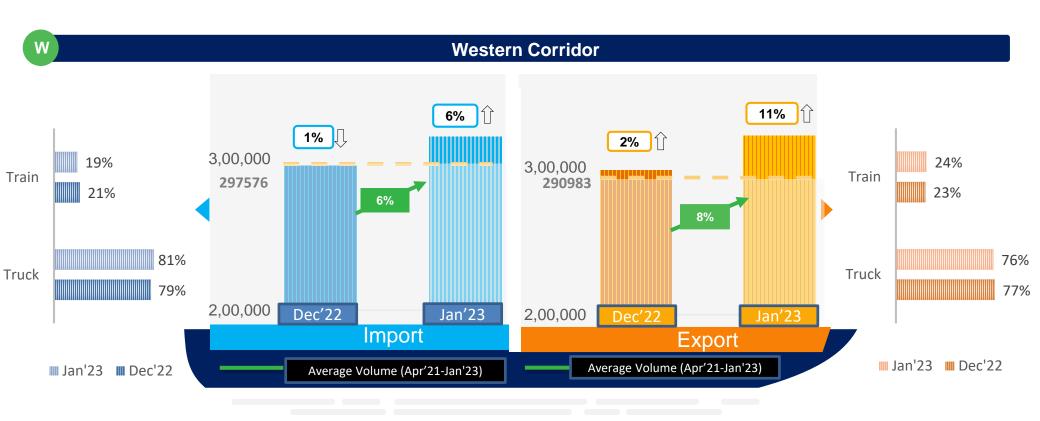
Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time
Jan'23	41.3 hrs	104.5 hrs	127.6 hrs
Dec'22	46.9 hrs	87.4 hrs	132.7 hrs



Volume Analysis – Western Corridor



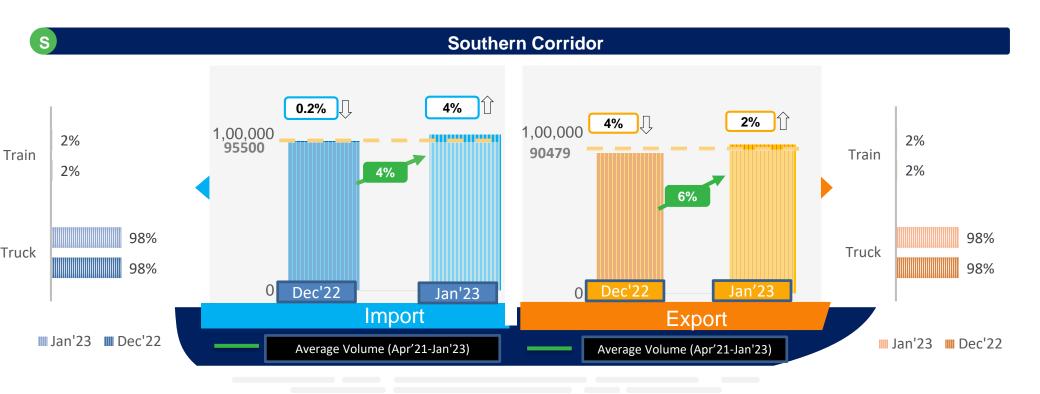
Below graphs depicts the change in volume percentage during the month of January'23 w.r.t the last month i.e., December'22 and the average EXIM corridor wise volume.



Volume Analysis – Southern Corridor



Below graphs depicts the change in volume percentage during the month of January'23 w.r.t the last month i.e., December'22 and the average EXIM corridor wise volume.

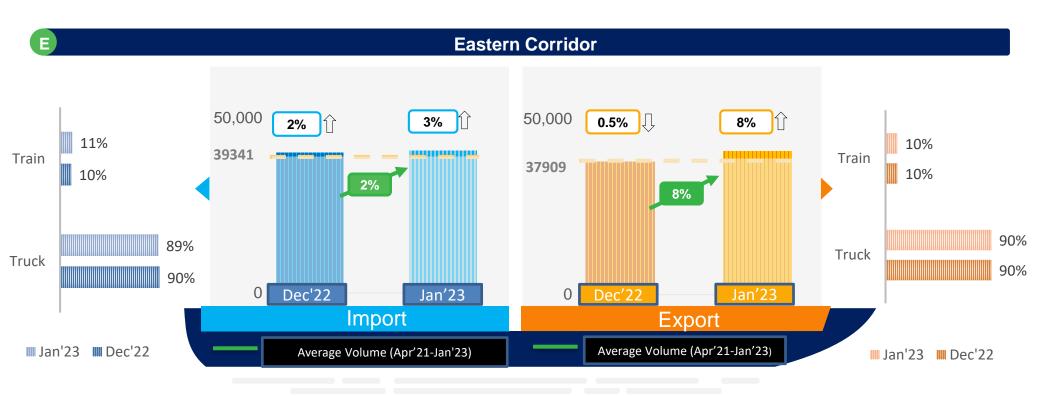


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Volume Analysis – Eastern Corridor



Below graphs depicts the change in volume percentage during the month of January'23 w.r.t the last month i.e., December'22 and the average EXIM corridor wise volume.

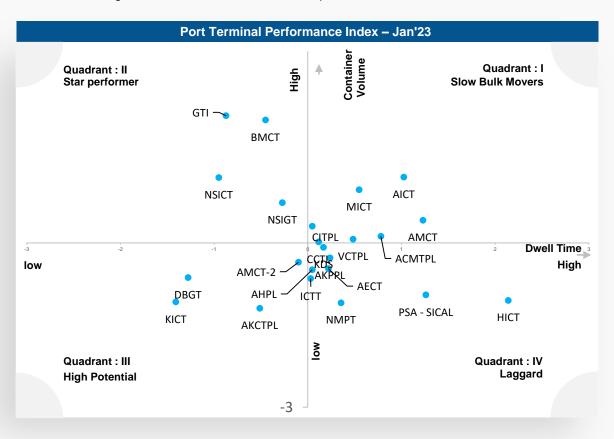


Pan India - Port Performance Benchmarking & Performance Index



Performance Benchmarking - Port Terminals

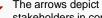
The benchmarking showcase the individual terminal's performance w.r.t Pan India



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

Top Performing Terminal				
Gateway Terminals India (GTI)				
Dec'22	Jan'23			
42.9 hrs	39.8 hrs			
Low Performing Terminal				
Haldia International Container Terminal (HICT)				
Dec'22	Jan'23			
95.2 hrs	101.1 hrs			

Note: The performance benchmarking is based on performance index



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

Performance Ind	ex - Summary
In order to assess the relative performance of varion (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	e of containers handled by them are depicted rformance 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

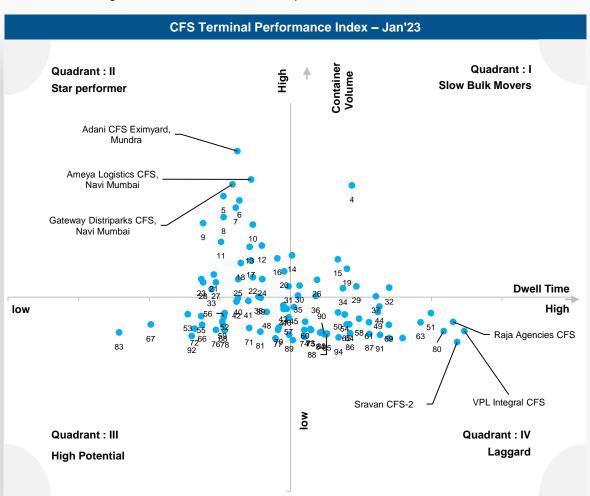
Consist of entities which have catered relatively Consist of entities which have catered relatively lower container volume in lower dwell time lower container volume at higher dwell time

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 Jan'23

Top Three Performing CFSs					
CFS Name	Dec'22	Jan'23			
Adani CFS Eximyard, Mundra	82.2 hrs	77.0 hrs 👚			
Ameya Logistics CFS, Navi Mumbai	82.1 hrs	83.0 hrs 🦊			
Gateway Distriparks CFS, Navi Mumbai	73.1 hrs	74.9 hrs 🦊			
Bottom Three Performing CFSs					
	3				
CFS Name	Dec'22	Jan'23			
		Jan'23 176.8 hrs ↓			
CFS Name	Dec'22				

Note: The performance benchmarking is based on performance index

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

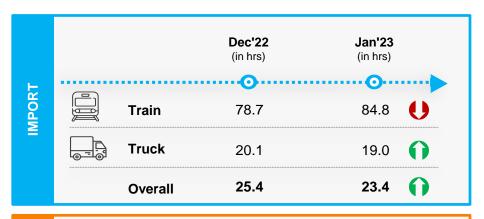
Laggard

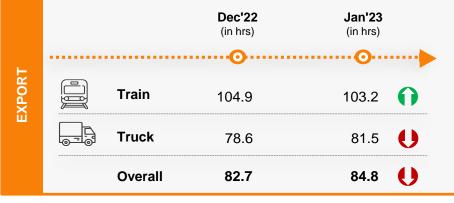
Consist of entities which have catered relatively lower container volume at higher dwell time

Container Transportation Performance - Western Corridor

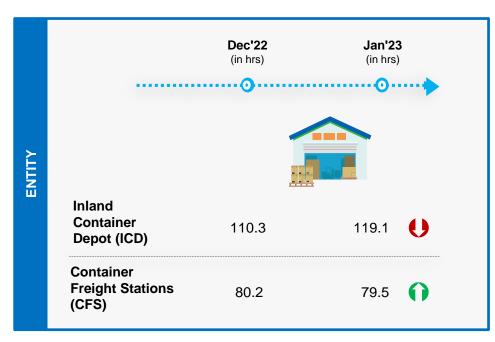


Port Dwell Time





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



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

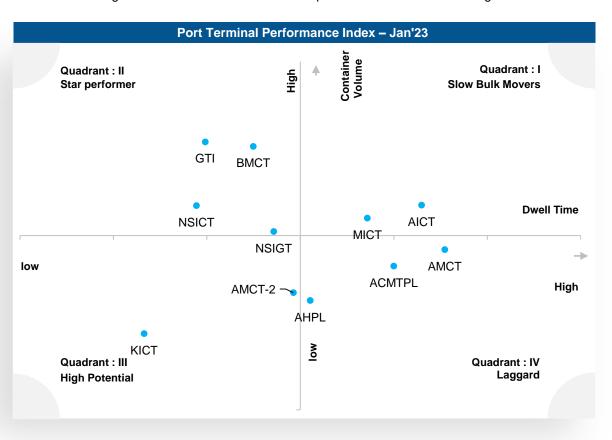
The marked entries showcase decrease in performance in comparison to Dec'22

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 Jan'23

Top Performing Terminal		
Gateway Terminals India (GTI)		
Dec'22	Jan'23	
42.9 hrs	39.8 hrs	
Laur Bantania	to a Tamata at	
Low Perform	ing Terminal	
	ing Terminal ainer Terminal (AMCT)	
Adani Mundra Conta	ainer Terminal (AMCT)	

Note: The performance benchmarking is based on performance index



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

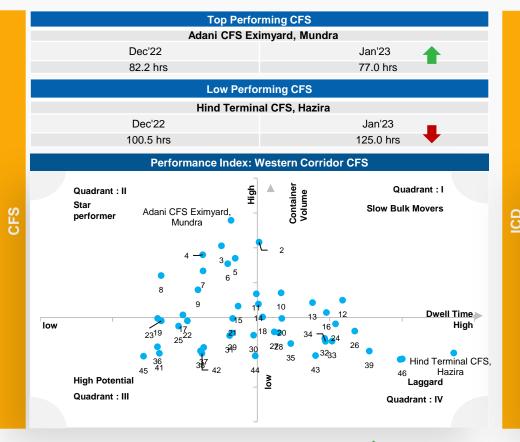
Performance Index - Summary

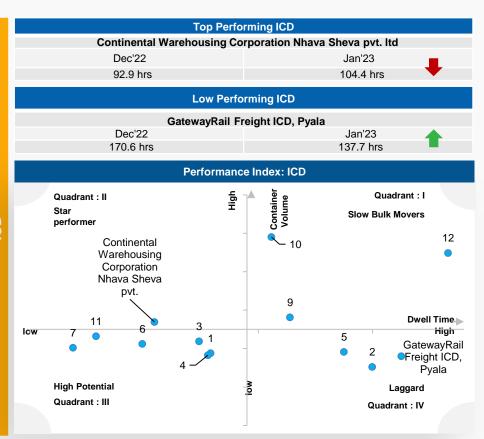
remained mack Cultimary		
	In order to assess the relative performance of varior ICD(s), the relative Dwell time as well as the volum graphically in the form of an index to portray the pebasis of these two combined factors i.e. Dwell time	e of containers handled by them are depicted rformance of a particular organisation on the
l	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
l	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

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 Dec'22

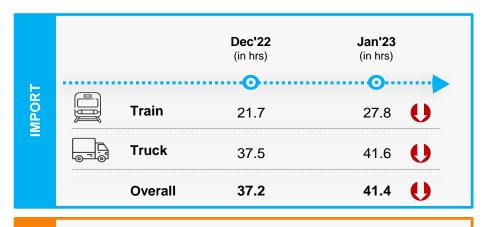
Kindly refer to Annexure section for the names of CFS

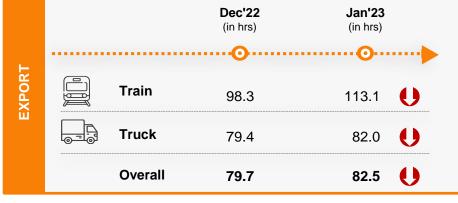
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Container Transportation Performance - Southern Corridor

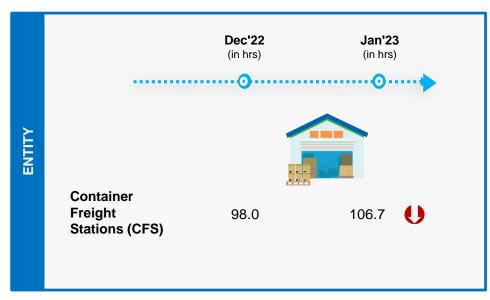


Port Dwell Time





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



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

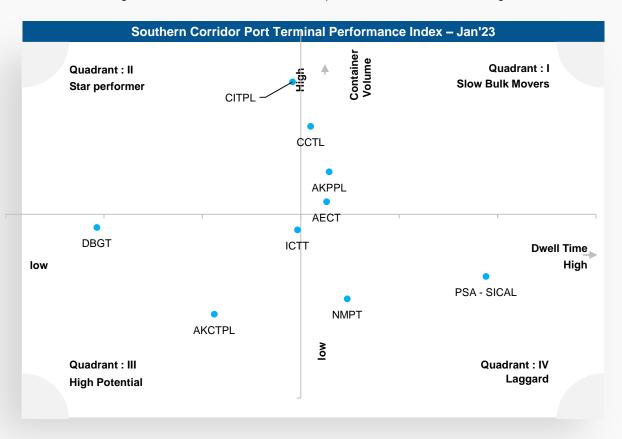
The marked entries showcase decrease in performance in comparison to Dec'22

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 Jan'23		
Top Performing Terminal		
Chennai International Terminals Pvt Ltd (CITPL)		
Dec'22	Jan'23	
54.3 hrs	58.5 hrs	
Low Performing Terminal		
PSA SICAL Terminals		
Dec'22	Jan'23	
63.2 hrs	83.2 hrs	
Note: The performance benchmarking is based on performance index		
The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Dec'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

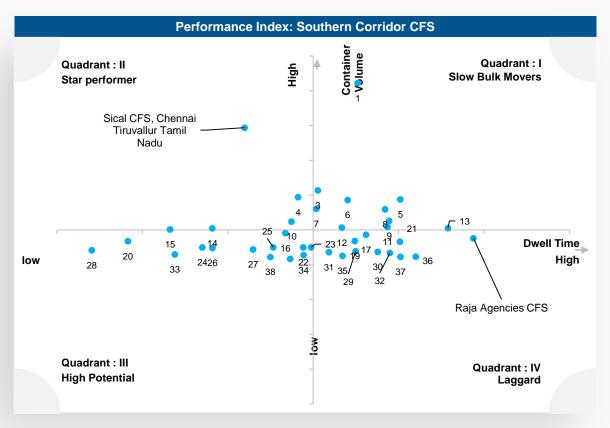
Slow Bulk Movers

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 Jan'23

Top Performing CFS		
Sical CFS, Chennai Tiruvallur Tamil Nadu		
Dec'22	Jan'23	
86.3 hrs	83.8 hrs	

Low Performing CFS		
Raja Agencies CFS		
Dec'22	Jan'23	
-	171.8 hrs	

Note: The performance benchmarking is based on performance index



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

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

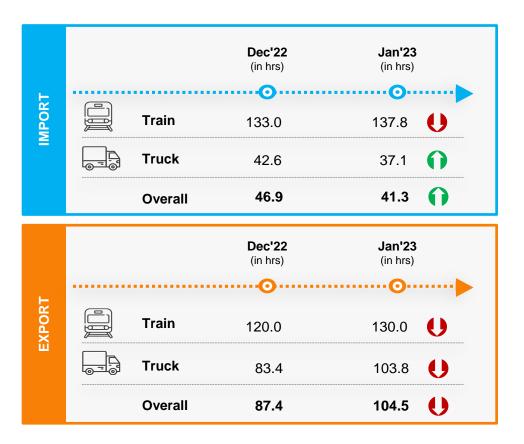
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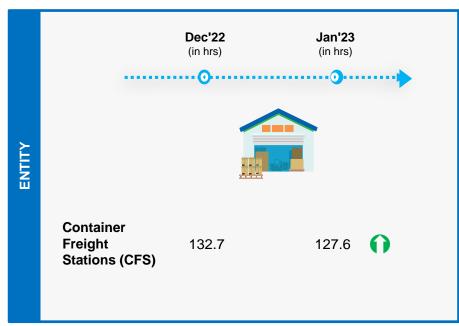
Container Transportation Performance - Eastern Corridor



Port Dwell Time

Container Freight Stations(CFS)- Dwell Time





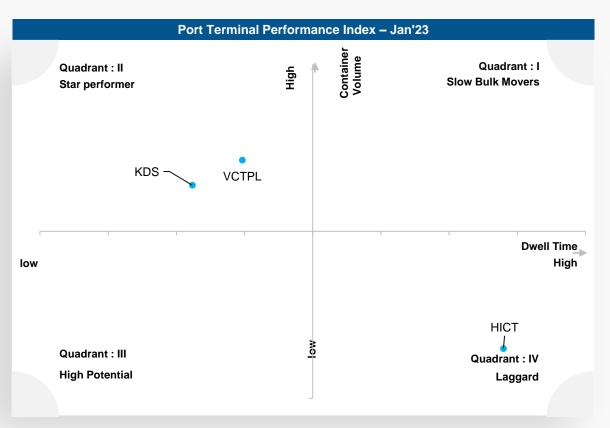
- The marked entries showcase increase in performance in comparison to Dec'22
- The marked entries showcase decrease in performance in comparison to Dec'22

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 Jan'23

Top Performing Terminal		
Kolkata Dock System (KDS), Kolkata Port		
Dec'22	Jan'23	
57.7 hrs	61.0 hrs	

Low Performing Terminal		
Haldia International Container Terminal (HICT)		
Dec'22	Jan'23	
95.2 hrs	101.1 hrs	

Note: The performance benchmarking is based on performance index

The arrows depict increase/decrease in overall performance of the stakeholders in comparison to Dec'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 Performe

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

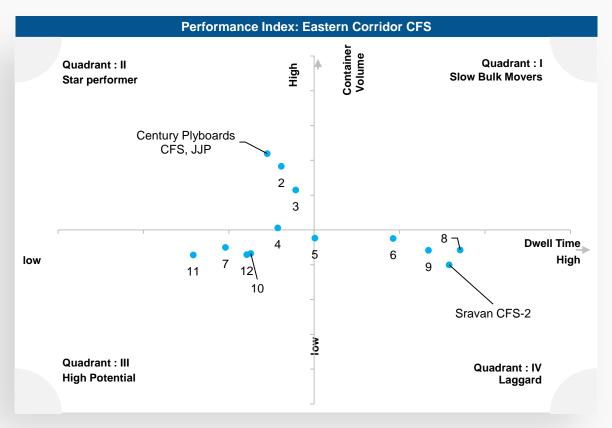
Slow Bulk Movers

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

CFS Performance Benchmarking & Performance Index - 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 Jan'23

Top Performing CFS		
Century Plyboards CFS, JJP		
Dec'22	Jan'23	
125.4 hrs	121.1 hrs	
Low Performing CFS		
Sravan CFS-2		
Dec'22	Jan'23	
164.7 hrs	173.6 hrs	

Note: The performance benchmarking is based on performance index



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

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

Star Performer

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

Slow Bulk Movers

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





Chennai Port Terminal: Container Transportation



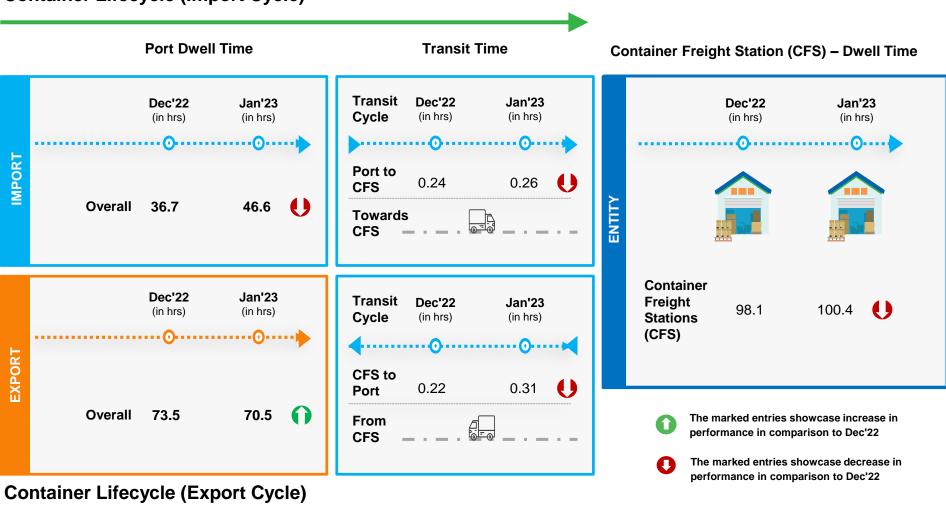
Container Lifecycle (Import Cycle)

Port Dwell Time Transit Time Container Freight Station (CFS) - Dwell Time **Transit** Dec'22 Jan'23 **Dec'22** Jan'23 Dec'22 Jan'23 Cycle (in hrs) (in hrs) (in hrs) (in hrs) (in hrs) (in hrs) -0--... IMPORT Train 17.4 40.5 Port to 2.87 2.89 **CFS Truck** 36.0 45.5 **Towards CFS** 45.3 35.6 Overall Container Dec'22 Jan'23 **Transit** Dec'22 Freight Jan'23 96.3 103.1 (in hrs) (in hrs) Cycle (in hrs) **Stations** (in hrs) (CFS) ..()....) ... **EXPORT** CFS to Train 112.1 116.3 5.09 4.87 **Port Truck** 85.1 88.6 The marked entries showcase increase in **From** performance in comparison to Dec'22 **CFS** Overall 85.5 89.4 The marked entries showcase decrease in performance in comparison to Dec'22 **Container Lifecycle (Export Cycle)**

Kochi Port Terminal: Container Transportation



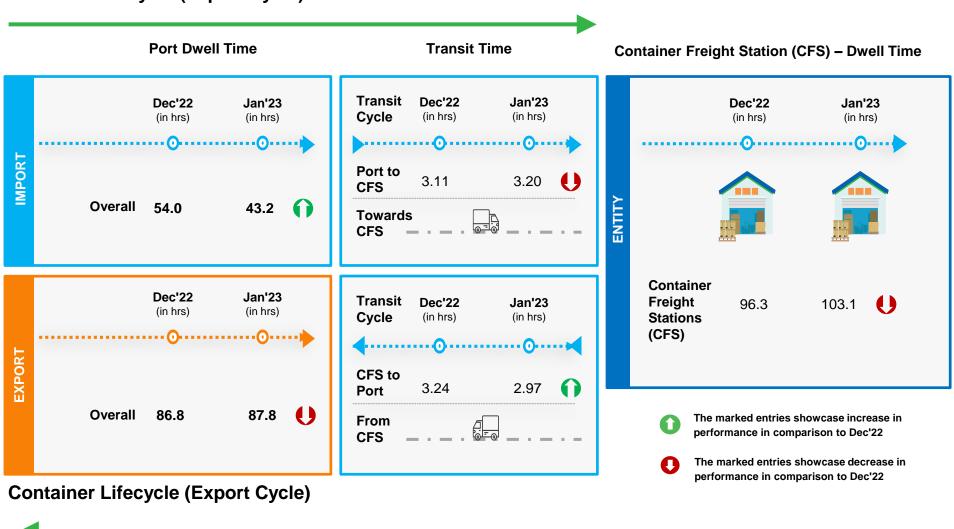
Container Lifecycle (Import Cycle)



Kattupalli Port Terminal: Container Transportation



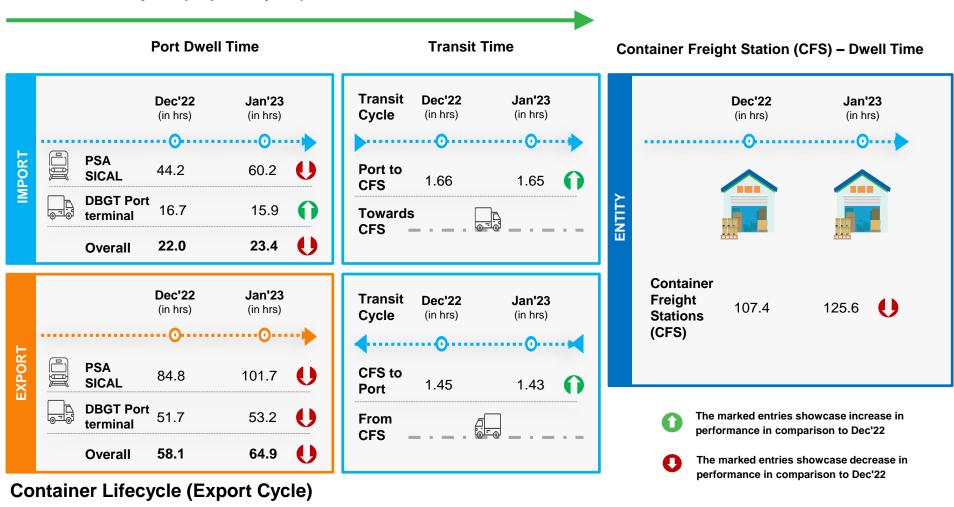
Container Lifecycle (Import Cycle)



Tuticorin Port Terminal: Container Transportation



Container Lifecycle (Import Cycle)



Krishnapatnam Port Terminal: Container Transportation



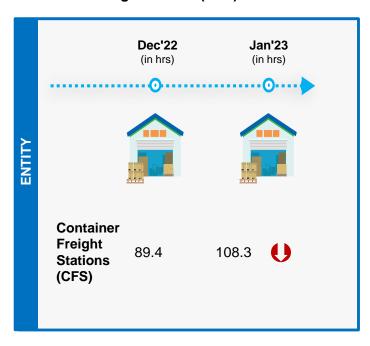
Container Lifecycle (Import Cycle)

Port Dwell Time



Container Lifecycle (Export Cycle)

Container Freight Station (CFS) - Dwell Time



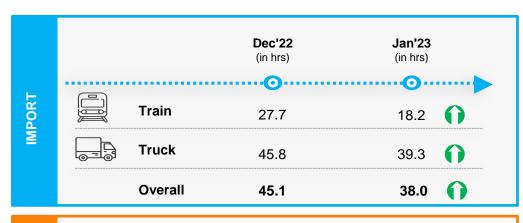
- The marked entries showcase increase in performance in comparison to Dec'22
- The marked entries showcase decrease in performance in comparison to Dec'22

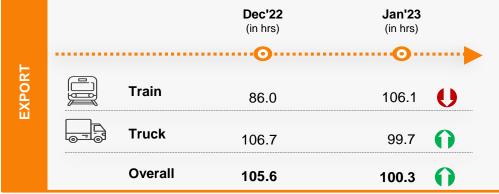
Ennore Port Terminal: Container Transportation



Container Lifecycle (Import Cycle)

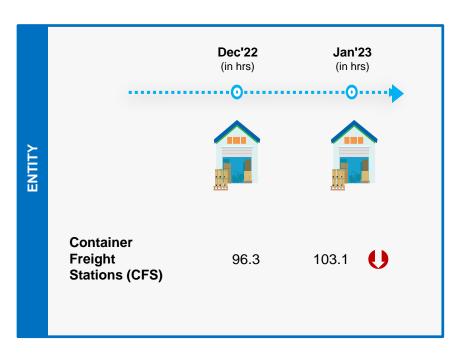
Port Dwell Time





Container Lifecycle (Export Cycle)

Container Freight Stations(CFS)- Dwell Time

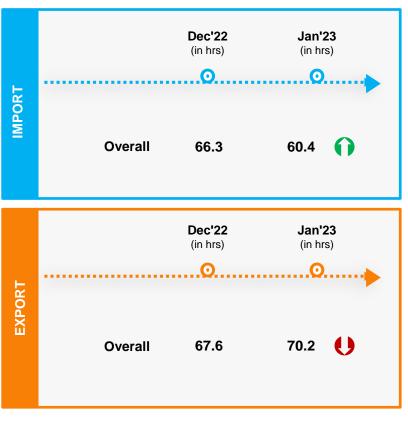


- The marked entries showcase increase in performance in comparison to Dec'22
- The marked entries showcase decrease in performance in comparison to Dec'22

New Mangalore Port Terminal: Container Transportation



Port Dwell Time



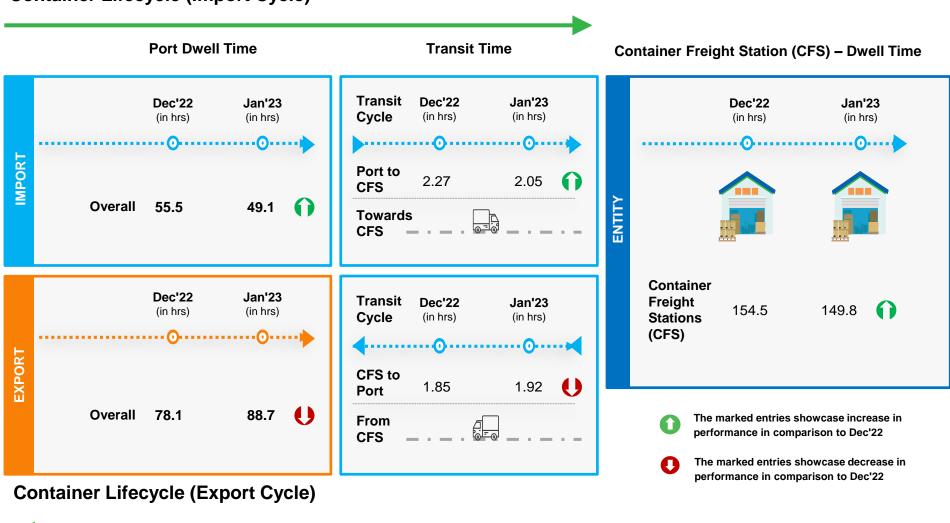
- The marked entries showcase increase in performance in comparison to Dec'22
- The marked entries showcase decrease in performance in comparison to Dec'22



Vishakhapatnam Port Terminal: Container Transportation



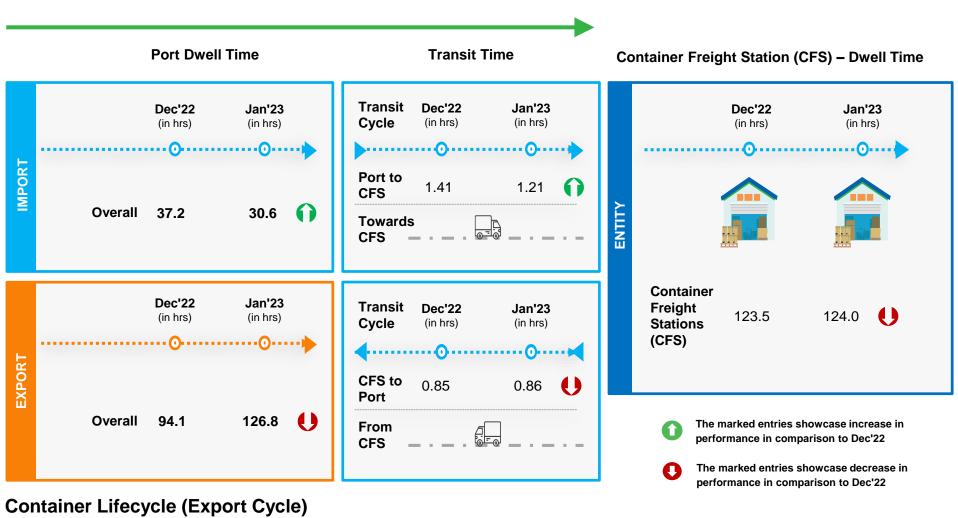
Container Lifecycle (Import Cycle)



Kolkata Port Terminal: Container Transportation



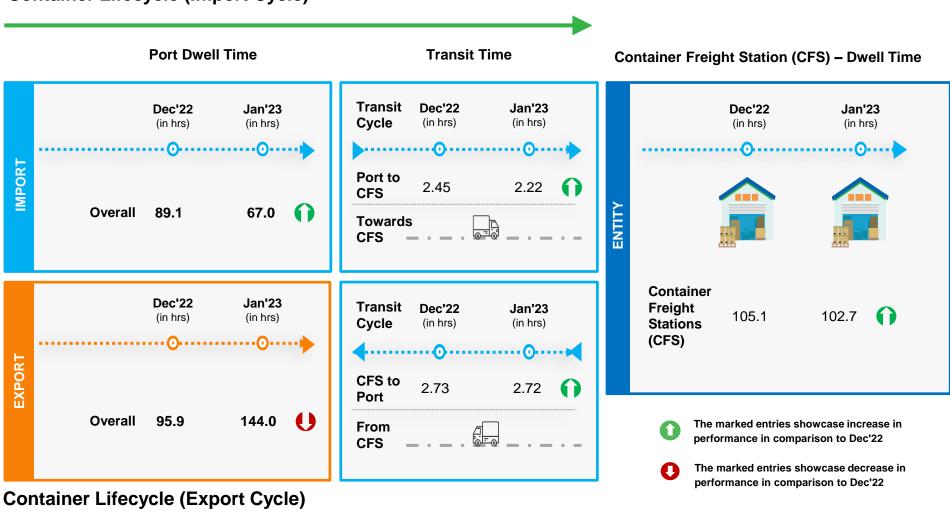
Container Lifecycle (Import Cycle)



Haldia Port Terminal: Container Transportation



Container Lifecycle (Import Cycle)



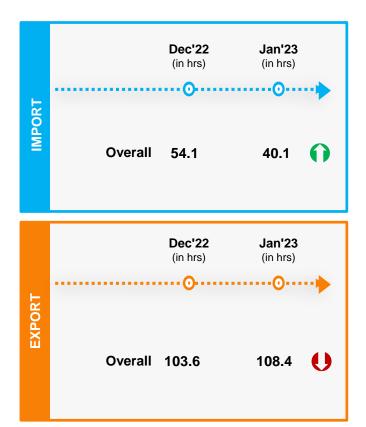


Pipavav Port Terminal: Container Transportation



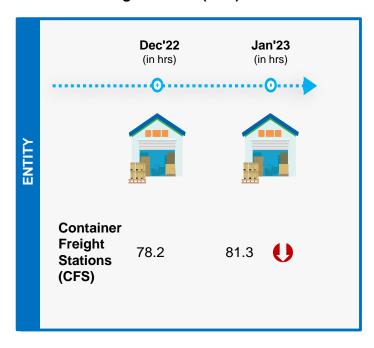
Container Lifecycle (Import Cycle)

Port Dwell Time



Container Lifecycle (Export Cycle)

Container Freight Station (CFS) - Dwell Time



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

Kandla Port Terminal: Container Transportation



Port Dwell Time



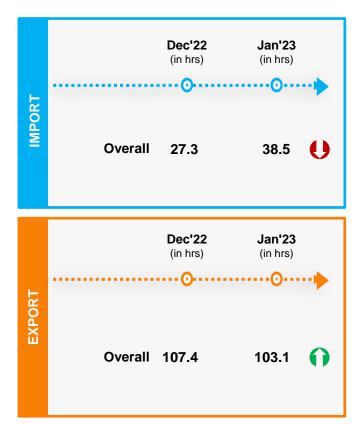
- The marked entries showcase increase in performance in comparison to Dec'22
- The marked entries showcase decrease in performance in comparison to Dec'22

Hazira Port Terminal: Container Transportation



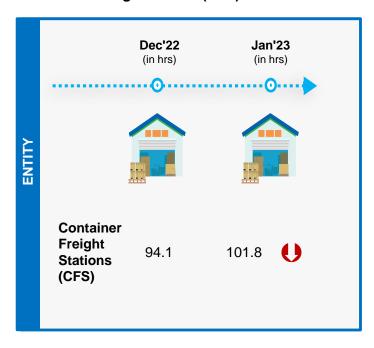
Container Lifecycle (Import Cycle)

Port Dwell Time



Container Lifecycle (Export Cycle)

Container Freight Station (CFS) - Dwell Time



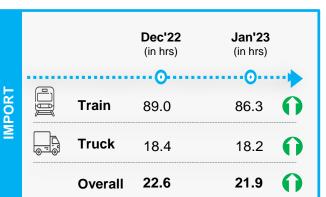
- The marked entries showcase increase in performance in comparison to Dec'22
 - The marked entries showcase decrease in performance in comparison to Dec'22

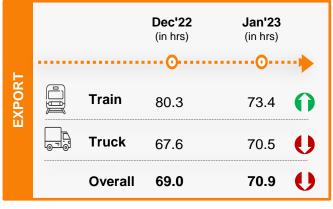
JNPA Port Terminal: Container Transportation



Container Lifecycle (Import Cycle)

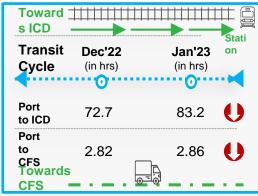
Port Dwell Time

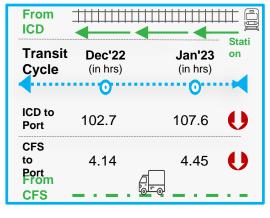




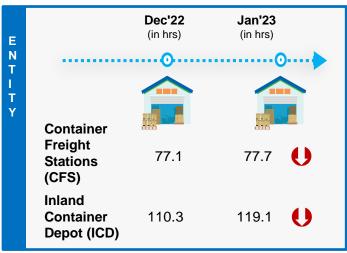
Container Lifecycle (Export Cycle)

Transit Time





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



Volume distribution at port terminal - Truck/Rail

	Import	Export
Rail	18%	21%
Truck	82%	79%

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

JNPA Port Terminal: Container Transportation



MPORT CYCLE DWE	iLL TIME (Jan'23 – in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	21.9	3.1%
	Port Dwell Time for Truck Bound Containers	18.2	1.1%
	Port Dwell time for Train Bound Containers	86.3	3.0%
Port dwell time	Port Dwell time Direct Port Delivery (DPD) containers	29.0	3.7%
	Port Dwell time Containers bound for CFS	16.6	0.6%
	Port Dwell for Empty Containers	26.3	5.7%
	Port Dwell for Laden Containers	21.1	2.3%
	Port to ICD	83.2	14.4% 👢
Fransit time	Port to CFS	2.86	1.4%
EXPORT CYCLE DWI	ELL TIME (Jan'23– in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	70.9	2.8%
	Port Dwell Time for Truck Bound Containers	70.5	4.3%
	Port Dwell time for Train Bound Containers	73.4	8.6%
Port dwell time	Port Dwell time Direct Port Entry (DPE) containers	67.7	12.0% 👚
	Port Dwell time Containers bound from CFS	68.6	5.2%
	Port Dwell for Empty Containers	65.4	3.0%
	Port Dwell for Laden Containers	72.4	3.0%
Fransit time	ICD to Port	107.6	4.8%
ransit time	CFS to Port	4.45	7.5%

1

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

JNPA Region: Parking Plaza Dwell Time Analysis

Jan'23

(in hrs)



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	Dec'22 (in hrs)	Jan'23 (in hrs)
Overall Parking Plaza	5.62	5.10

Container Handled: Day wise (Jan'23)

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	11% i	26%	35%	19%	5%	3%

Parking Plaza Gate Out - Terminal In

Mode

Overall Parking Plaza to JNPA Port	1.71	1.88
Port	Dec'22 (in hrs)	Jan'23 (in hrs)
JNPCT	1.7	-
NSICT	1.8	2.0
GTI	1.3	0.8
NSIGT	0.9	1.2
BMCT	4.8	6.3

Dec'22

(in hrs)

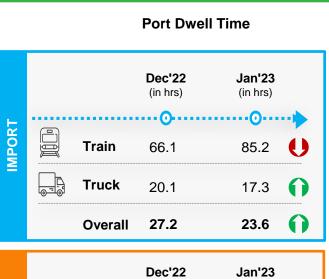
Container Handled: Day wise (Jan'23)

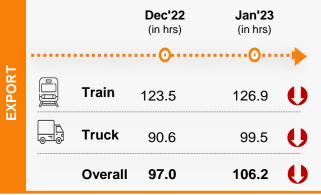
Parking Plaza	Within 2 hrs	Within 2-4 hrs	Within 4-8 hrs	Within 8-16 hrs	Within 16-24 hrs	More than 24 hrs
JNPCT	-	-	-	-	- -	-
NSICT	50%	29%	16%	4%	0%	0%
GTI	82%	15%	2%	1%	0%	0%
NSIGT	73%	21%	4%	1%	0%	0%
PSA	4%	16%	49%	27%	3%	0%

Mundra Port Terminal: Container Transportation



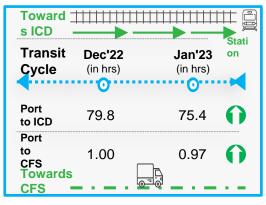
Container Lifecycle (Import Cycle)

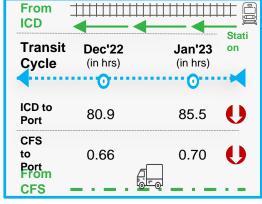




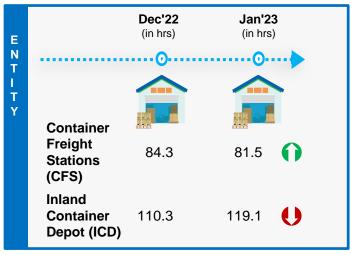
Container Lifecycle (Export Cycle)

Transit Time





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



Volume distribution at port terminal - Truck/Rail

	Import	Export	
Rail	24%	29%	
Truck	76%	71%	

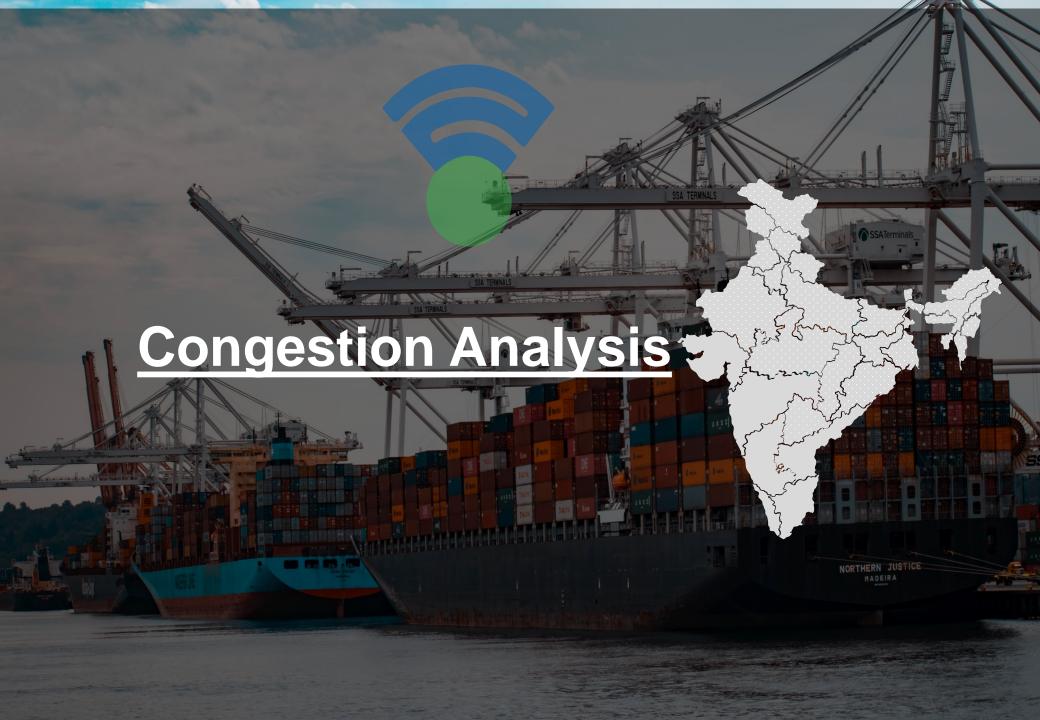
- The marked entries showcase increase in performance in comparison to Dec'22
- The marked entries showcase decrease in performance in comparison to Dec'22

Mundra Port Terminal: Container Transportation



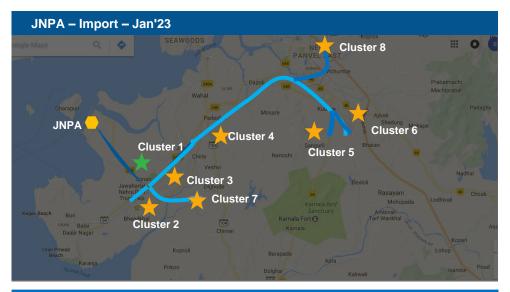
IMPORT CYCLE	DWELL TIME (Jan'23- in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	23.6	13.2%
Port dwell time	Port Dwell Time for Truck Bound Containers	17.3	13.9%
	Port Dwell time for Train Bound Containers	85.2	28.9%
Transit times	Port to ICD	75.4	5.5%
Transit time	Port to CFS	0.97	3.0%
EXPORT CYCLE	DWELL TIME (Jan'23– in hrs)		
	Overall Dwell Time of Truck and Train Bound Containers	106.2	9.5%
Port dwell time	Port Dwell Time for Truck Bound Containers	99.5	9.8%
	Port Dwell time for Train Bound Containers	126.9	2.8%
Transit time	ICD to Port	85.5	5.7%
riansit time	CFS to Port	0.70	6.1%

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



JNPA Region: Congestion Analysis







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

Clusters with bottleneck	Clusters with bottleneck		
Cluster 1	JNPA area		
Clusters without bottlen	eck		
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		

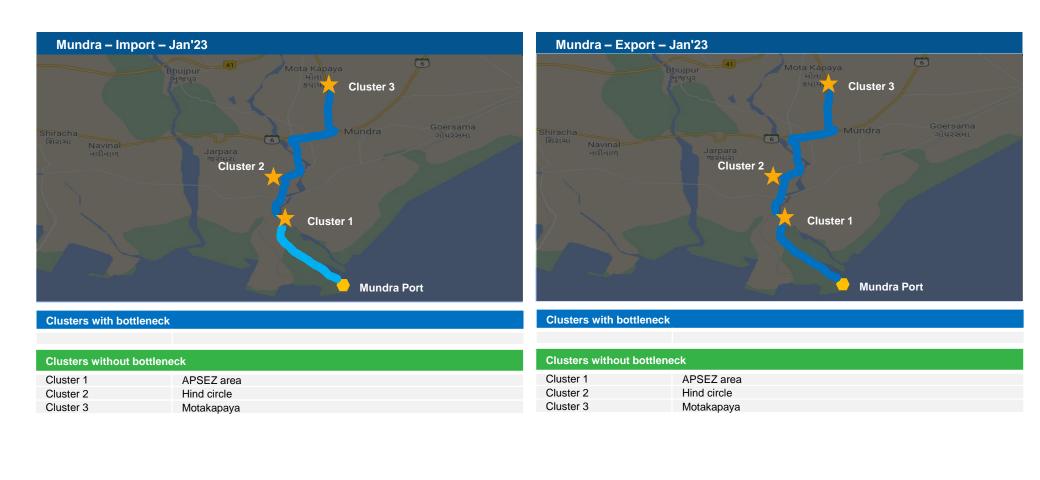
★ Cluster with bottleneck Medium Congestion Low Congestion Cluster without bottleneck Legends **High Congestion**

Mundra Region: Congestion Analysis

Legends

High Congestion





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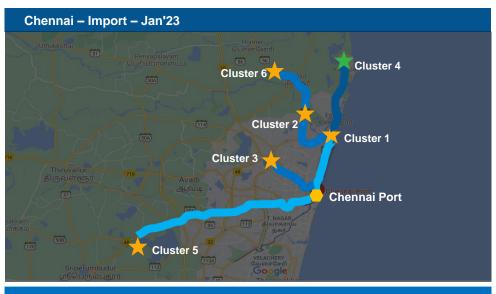
Cluster with bottleneck

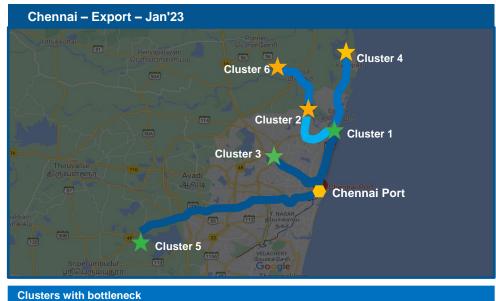
Cluster without bottleneck

Medium Congestion Low Congestion

Chennai Region: Congestion Analysis







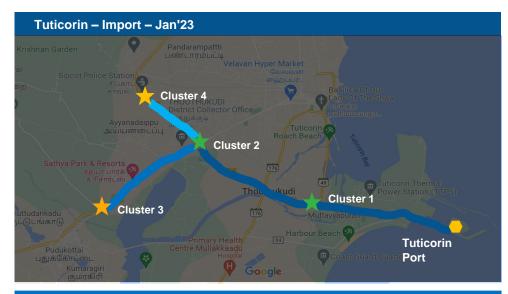
Clusters with bottleneck		
Cluster 4	Kattupalli port bound area	
Clusters without bottlene	eck	
Cluster 1	Chennai port bound area	
Cluster 2	Ennore port bound area	
Cluster 3	Chennai central area	
Cluster 5	Chennai automotive industry area (Irungatukottai)	
Cluster 6	Thiruvallur Outer city bound area	

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

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

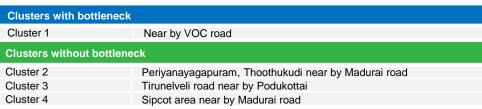
Tuticorin Region: Congestion Analysis





Tuticorin – Export – Jan'23	
Krishnan Garden Pandarampattti பண்டாரம்பட்டி Velavan Hy	ner Market
Sipcot Police Station நிய்காட் காவல் Cluster 4 HUOTHUKKUDI	வேலவன் ஹைப்பர் Basilica Of Our
District Collector Office Ayyanadaippu 時期後與	Lady Of The Snow யிர்க்கு யனிம்யமாதா
Cluster 2	Roach Beach
Sathya Park & Resorts சத்பா பார்க் & ரிசார்ட்ஸ்	Tuticorin Thermal Power Station (TTPS)
Cluster 3	Cluster 1 Muttayyapuran
Pudukottai Pudukottai புதுக்கோட்டை	Harbour Beach Tuticorin Coast Guard QuartePort
Kumaragiri குமரகிரி	

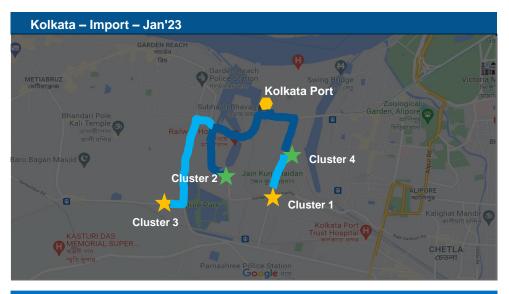
Clusters with bottleneck	
Cluster 1	Near by VOC road
Cluster 2	Periyanayagapuram, Thoothukudi near by Madurai road
Clusters without bottlen	eck
Clusters without bottlene Cluster 3	Tirunelveli road near by Podukottai

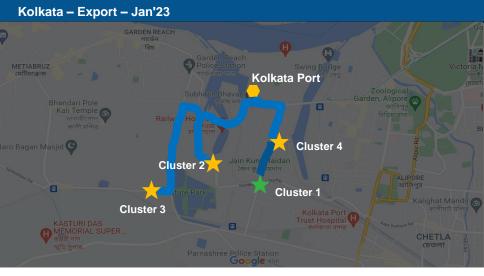


Legends Medium Congestion Low Congestion Cluster with bottleneck Cluster without bottleneck **High Congestion**

Kolkata Region: Congestion Analysis







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

Nature park area

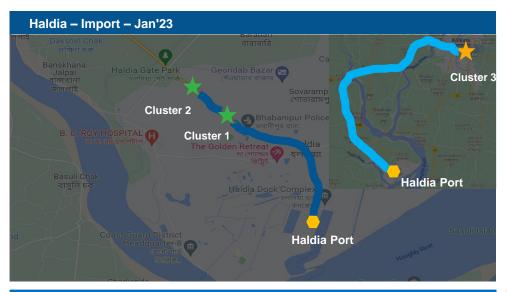
Cluster 3

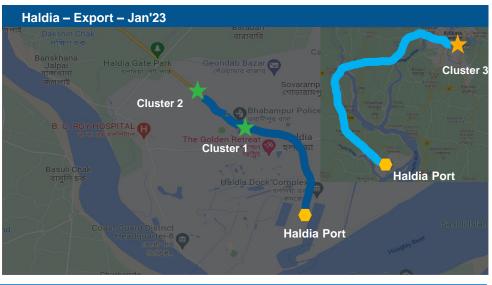
Clusters with bottleneck	
Cluster 1	Base bridge area
Clusters without bottlene	eck
Cluster 2	Sonapur road area
Cluster 3	Nature park area
Cluster 4	Babu bazar area

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

Haldia Region: Congestion Analysis

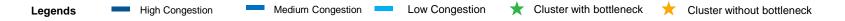






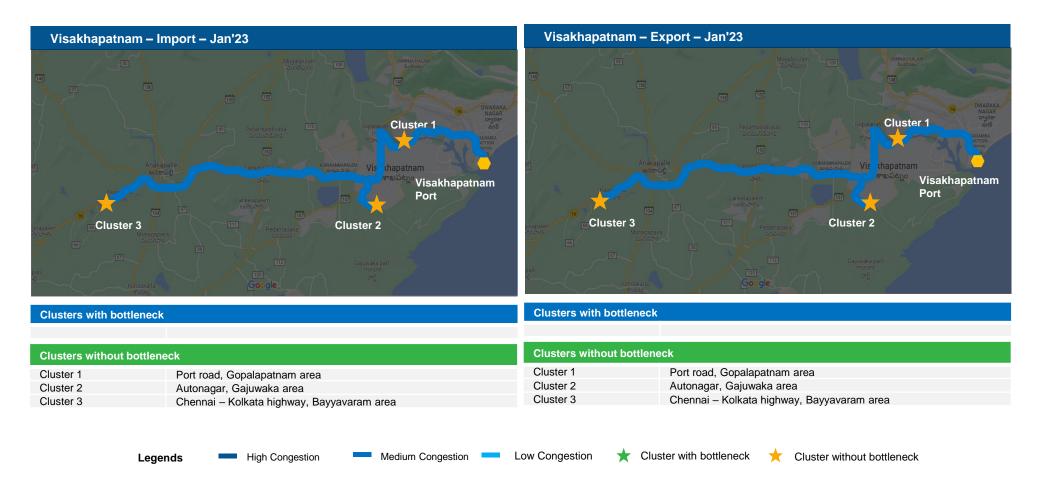
Clusters with bottleneck	
Cluster 1	Talpukur area, Kolkata highway
Cluster 2	City centre area, Kolkata highway
Clusters without bottlen	eck
Cluster 3	Silpodanga area





Visakhapatnam Region: Congestion Analysis







Transit movement across ICPs



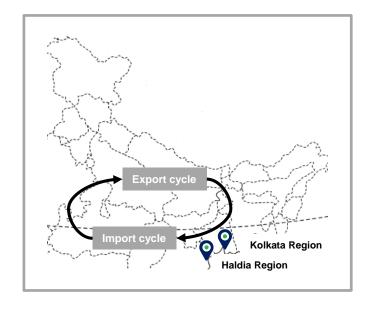
Below is the analysis of the transit movement across ICPs from Kolkata Port Terminal or Haldia Port Terminal both Import and Export cycle

Kolkata Port Terminal

	Mode	ICP Raxaul
	Overall	95.8 hrs
<u>e</u>	Road	137.7 hrs
Ç	Rail	89.4 hrs
Import Cycle	Haldia Port	Terminal
	Mode	ICP Raxaul
	Overall	-

Kolkata Port Terminal

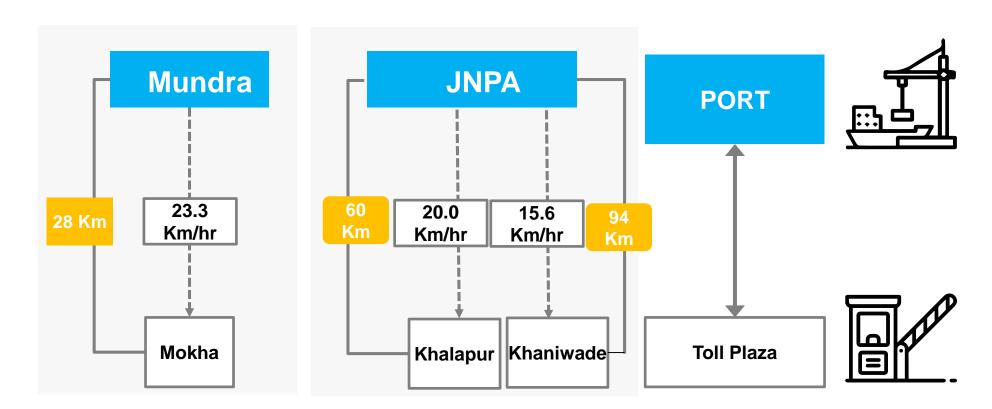
	Mode	ICP Raxaul
	Overall	453.5 hrs
<u>e</u>	Road	167.5 hrs
t Cy	Rail	462.9 hrs
Export Cycle	Haldia Port	Terminal
	Mode	ICP Raxaul
	Overall	443.5 hrs



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)	Nov'22	Dec'22	Jan'23
Western	Hazira	Boriach	77	4.1	6.2	4.7
	KOPT(Kolkata)	Dankuni	24	2.4	3.2	3.0
Eastern	LICT(Holdio)	Debra	100	6.6	11.0	10.4
	HICT(Haldia)	Jaladhulagori	101	7.2	7.7	6.9
	Chennai	Surapattu	18	-	-	-
	Chennai	Nallur	23	2.6	2.0	2.2
	Kochi	Kumbalam	13	0.7	0.7	0.7
		GIPL Palayekara	71	8.8	7.9	8.7
	NMPT (New Manglore)	Brahamarakotlu	25	3.7	6.4	7.0
Southern		Talapady	22.5	2.1	3.2	1.7
	(Now Manglere)	Gundmi	68	2.5	3.5	4.9
	M-111:	Surapattu	36	-	-	-
	Kattupalli	Nallur	33	4.2	6.0	7.2
	Ennore	Surapattu	35	-	-	-
	Tuticron	VoCPT CheckPost1	4.3	17.1	18.0	19.9

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

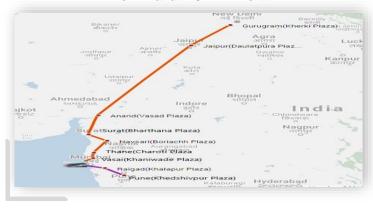
Western Corridor Toll Plaza Analysis



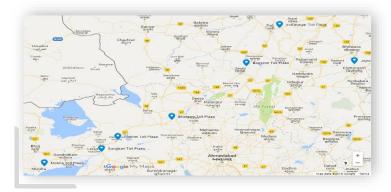
Avg. Speed between Toll to Toll Plazas

	711 gr opoda sottroom rom to rom r lazac						
	Source	Destination Toll Plaza	Inter Distance (Km)	Dec'22 (in km/hrs)	Jan'23 (in km/hrs)		
	JNPA	Khaniwade	94	-	15.6		
	JNPA	Khalapur	60	15.1	20.0		
Ϋ́	Khaniwade	Charoti	50	36.9	37.1		
JNPA	Charoti	Boriach	126	25.3	26.7		
	Boriach	Bharthan	142	31.3	32.7		
	Bharthan	Vasad	60	37.3	37.4		
	Khalalpur	Khedshivpur	105	31.3	33.7		
_	Mundra	Mokha	28	21.8	23.3		
DRA	Mokha	Makhel	150	28.3	29.0		
MUNDRA	Mokha	Surajbari	115	27.5	27.6		
2	Makhel	Bhalgam	108	33.3	33.5		

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	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				
1 Adani CFS Eximyard, Mundra	Western 34 Kerry Indev Logistics ICD, Kanchipuram	Southern	67 Chandra CFS, Tiruvallur	Southern
2 Ameya Logistics CFS, Navi Mumbai	Western 35 Ocean Gate CFS, Panvel	Western	68 Contrans Logistic CFS, Pipavav	Western
3 Gateway Distriparks CFS, Navi Mumbai	Western 36 Continental Warehousing Corporation CFS (Nhava Seva), Chennai	Southern	69 Hari CFS	Southern
4 Allcargo Global Logistics CFS, Chennai	Southern 37 Balmer Lawrie CFS, Chennai	Southern	70 Maersk Annex (APM)CFS, Navi Mumbai	Western
5 Navkar Corporation Yard 3 CFS, Panvel	Western 38 Landmark CFS, Mundra	Western	71 Transworld CFS, Mundra	Western
6 Saurashtra CFS, Mundra	Western 39 Seabird CFS, Hazira	Western	72 CWC Impex Park CFS, Navi Mumbai	Western
7 CWC Conex Terminal CFS	Western 40 Vaishno Logistics CFS, Navi Mumbai	Western	73 Balmer Lawrie CFS	Eastern
8 AllCargo Logistics	Western 41 APM (Maersk India) CFS, Navi Mumbai	Western	74 Apm Terminals India CFS, Tiruvallur	Southern
9 Continental Warehousing CFS, Navi Mumbai	Western 42 TG Terminals CFS, Mundra	Western	75 Vilsons CFS	Southern
10 Sical CFS, Chennai Tiruvallur Tamil Nadu	Southern 43 Kerry Indev Logistics Pvt Ltd CFS	Western	76 Calyx Container Terminal CFS, Chennai	Southern
11 International Cargo Terminals (ULA) CFS, Navi Mumbai	Western 44 Kailash Shipping Services CFS, Chennai	Southern	77 Hind Terminals CFS, Chennai	Southern
12 Hind Terminals Pvt. Ltd. CFS, Mundra	Western 45 Sattva Cfs And Logistics CFS, Chennai	Southern	78 St. John Freight Systems Ltd ICD Division	Southern
13 JWC Logistics Park CFS	Western 46 Take Care Logistics CFS	Western	79 VPL Integral CFS	Eastern
14 Apollo Logisolutions CFS, Panvel	Western 47 Empezar Logistics CFS	Western	80 VCT CFS	Eastern
15 Century Plyboards CFS, JJP	Eastern 48 Rishi CFS, Mundra	Western	81 Sudharsan Logistics CFS, Chennai	Southern
16 Ashte Logistics CFS, Panvel	Western 49 ALS Tuticorin Terminal Private Limited	Southern	82 A V Joshi CFS	Western
17 Speedy Multimode CFS, JNPT	Western 50 STP Services CFS, Chennai	Southern	83 A S Shipping Agencies CFS, Tiruvallur	Southern
18 MICT CFS, Mundra	Western 51 Continental Warehousing Corporation Nhava Sheva Ltd.	Southern	84 LCL Logistix CFS, Pipavav	Western
19 Allcargo Logistics CFS	Eastern 52 Adani CFS, Kattupalli Tiruvallur Tamil Nadu	Southern	85 CWC CFS, Kolkata	Eastern
20 Sarveshwar CFS	Western 53 Triway CFS, Chennai	Southern	86 MIV CFS	Southern
21 EFC Logistics India	Western 54 Sravan CFS-1	Eastern	87 Diamond CFS Park	Southern
22 Seabird CFS, Mundra	Western 55 JWR CFS	Western	88 Sattva Hi-Tech And Conware CFS, Chennai	Southern
23 Ashutosh CFS, Mundra	Western 56 Maharashtra State Corp CFS	Western	89 A L Logistics CFS	Eastern
24 CWC CFS, Mundra	Western 57 GDKL CFS	Southern	90 SICAL CFS	Eastern
25 TG Terminals CFS	Western 58 Kerry Indev Logistics Private Limited / Continental Container Freight Station	Southern	91 Prompt Terminals (P) Ltd	Southern
26 Gateway Distriparks CFS, Chennai	Southern 59 Seabird CFS, Navi Mumbai	Western	92 Viking Warehousing CFS, Chennai	Southern
27 Punjab Conware CFS, Navi Mumbai	Western 60 Navkar Corporation Yard 1 CFS, Panvel	Western	93 Seabird CFS, Krishnapatnam	Southern
28 International Cargo Terminal CFS	Western 61 Century Plyboards CFS, Sonai	Eastern	94 Chola Logistiks Pvt Ltd	Southern
29 Phonex CFS	Eastern 62 Raja Agencies CFS		95 A.S.Shipping Agencies Pvt Ltd	Southern
30 Sanco Trans CFS, Chennai	Southern 63 Gateway East India CFS	Eastern	96 Sical Multimodal and Rail Transport Ltd CFS Division	Southern
31 Honey Comb CFS, Mundra	Western 64 Glovis India CFS, Kanchipuram	Southern	97 Continental Warehousing Corporation CFS (Nhava Seva), Tiruvallur	Southern
32 Ennore Cargo Container Terminal CFS, Chennai	Southern 65 Hind Terminal CFS, Hazira	Western	98 Thiru Rani Logistics CFS, Tiruvallur	Southern
33 Dronagiri Rail Terminal CFS, Navi Mumbai	Western 66 Mundhra CFS, Mundra	Western	99 Sravan CFS-2	Eastern

Annexure – Western Region



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

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		

Annexure – Southern & Eastern Region



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

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

13 Sravan CFS-2

