

## **LOGISTICS DATA BANK** QUARTERLY ANALYTICS REPORT

**JANUARY – FEBRUARY - MARCH** 

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NATIONAL LOGISTICS POLICY LAUNCHED BY HON'BLE PRIME MINISTER SHRI NARENDRA MODI ON 17<sup>th</sup> SEPTEMBER 2022

## **LDB AT A GLANCE**



**27 Port Terminals** 

## **PORT PERFORMANCE**

(Oct-Nov-Dec'22 vs Jan-Feb-Mar'23)

## **DWELL TIME**

#### WESTERN REGION

Import Cycle : 14.7% (24.5 hrs to 28.1 hrs)

Export Cycle: 1.2% (83.4 hrs to 84.4 hrs)

**TOP-PERFORMER**: **Bharat Mumbaii Container** Terminal (PSA)

#### **EASTERN REGION**

Import Cycle : 6.7% (46.4 hrs to 84.9 hrs)

Export Cycle : 18.1% (43.3 hrs to 100.3 hrs)

**TOP-PERFORMER:** Visakha Container Terminal

#### SOUTHERN REGION

Import Cycle : 2.6% (38.1 hrs to 39.1 hrs)



TOP-PERFORMER : **Chennai International Terminal Pvt Ltd (CITPL)** 

## **TOP PERFORMER** - PAN INDIA JFM '23

Bharat Mumbai Container Terminal **TERMINAL** (PSA)





SHOWCASING THE PROGRESS OF EXIM CONTAINER TRACKING

TRACKED 50+ MILLION CONTAINERS



# PAN INDIA PORT PERFORMANCE

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SHOWCASING THE LIVE DEMO OF "TRACK YOUR TRANSPORT" APP AT LDB EXHIBITION

## PAN INDIA Performance Snapshot: JFM 2023 (Dwell Time)







ULIP LAUNCHED ON 17<sup>TH</sup> SEPTEMBER 2022 AS PART OF NATIONAL LOGISTICS POLICY



## PORT DWELL TIME PERFORMANCE

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### Port Dwell Time Performance – Western Corridor



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



### Port Dwell Time Performance – Southern Corridor



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











## CRITICAL INCIDENT SUMMARY

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	<ul> <li>The Overall container handling performance in Western Corridor in Import Cycle has deteriorated by 14.7% from last quarter and 16.1% year &amp; Export Cycle deteriorated by 1.2% from last quarter and improved by 13.7% from last year.</li> <li>The container handling performance at CFS has improved by 1.9% from last quarter and 6.8% from last year. Also, ICD performance has deteriorated by 7.3% from last quarter and 3.0% from last year.</li> </ul>				
Western	Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time	ICD Dwell Time
Corridor	JFM'23	28.1 hrs	84.4 hrs	81.2 hrs	123.1 hrs
	OND'22	24.5 hrs	83.4 hrs	82.8 hrs	114.7 hrs
	JFM'22	24.2 hrs	97.8 hrs	87.1 hrs	119.5 hrs

• The Overall container handling performance in Southern Corridor in Import Cycle has deteriorated by 2.6% from last quarter and improved by 5.8% from last year & Export Cycle has deteriorated by 4.1% from last quarter and improved by 17.1% from last year.

• The container handling performance at CFS has improved by 1.2% from last quarter and deteriorated by 1.0% from last year.

Southern	Month	Import cycle – Dwell Time	Export cycle – Dwell Time	CFS Dwell Time
Corridor	JFM'23	39.1 hrs	80.9 hrs	102.5 hrs
	OND'22	38.1 hrs	77.7 hrs	103.7 hrs
	JFM'22	41.5 hrs	97.6 hrs	101.5 hrs

- The Overall container handling performance in Eastern Corridor for Import Cycle has improved by 6.7% from last quarter and 12.9% from last year & Export Cycle has deteriorated by 18.1% from last quarter and improved by 10.9% from last year.
- The container handling performance at CFS has improved by 3.9% from last quarter and deteriorated by 0.8% from last year.

Eastern	Month	Import Cycle – Dwell Time	Export Cycle – Dwell Time	CFS Dwell Time
Corridor	JFM'23	43.3 hrs	100.3 hrs	126.0 hrs
	OND'22	46.4 hrs	84.9 hrs	131.1 hrs
	JFM'22	49.7 hrs	112.6 hrs	125.0 hrs









# PORT PERFORMANCE

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#### **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 JFM'23

Top Performing Terminal			
Bharat Mumbai Container Terminals(PSA)			
JFM'23			
49.1 hrs			
Low Performing Terminal			
Haldia International Container Terminal (HICT)			
Haldia International Container Terminal (HICT) JFM'23			

Note: The performance benchmarking is based on performance index

#### 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
High Potential	Laggard
Consist of entities which have catered relatively lower container volume in lower dwell time	Consist of entities which have catered relatively lower container volume at higher dwell time



#### **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 JFM'23

Top Performing Terminal		
Bharat Mumbai Container Terminals(PSA)		
JFM'23		
49.1 hrs		
Low Performing Terminal		
Adani Mundra Container Terminal (AMCT)		
JFM'23		
76.0 hrs		
Note: The performance benchmarking is based on performance index		
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
High Potential	Laggard
Consist of entities which have catered relatively lower container volume in lower dwell time	Consist of entities which have catered relatively lower container volume at higher dwell time
	Consist of entities which have catered relatively high container volume in lower dwell time High Potential Consist of entities which have catered relatively

## 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 Terminals covered under LDB project for JFM'23

Top Performing Terminal		
Chennai International Terminals Pvt Ltd (CITPL)		
JFM'23		
54.6 hrs		
Low Performing Terminal		
PSA SICAL Terminals		
JFM'23		
79.0 hrs		

Note: The performance benchmarking is based on performance index

#### 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 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



Performance benchmarking for Port Terminals covered under

### **Performance Benchmarking - Port Terminals**

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





# INDIVIDUAL TERMINAL PERFORMANCE IN SOUTHERN CORRIDOR

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#### Port Dwell Time **Transit Time** Container Freight Station (CFS) – Dwell Time **OND'22 JFM'23 OND'22 JFM'23** Transit **OND'22 JFM'23** Cycle (in hrs) (in hrs) (in hrs) (in hrs) (in hrs) (in hrs) ..... ••••• ·O··· ..... •••• ••••• IMPORT Train 17.3 38.1 0 Port to 0 2.88 2.91 CFS ENTITY Truck 0 39.7 39.8 Towards CFS 39.7 0 39.2 Overall Container **OND'22 JFM'23** Transit **OND'22** Freight **JFM'23** 101.1 98.4 (in hrs) (in hrs) Cycle Stations (in hrs) (in hrs) (CFS) •••••• ••••••• •••• ..... EXPORT Train CFS to 106.3 109.6 U 0 5.09 4.23 Port Truck 0 83.0 85.2 The marked entries showcase increase in From (î i performance in comparison to OND'22 CFS 83.6 85.8 O Overall The marked entries showcase decrease in П performance in comparison to OND'22

### Container Lifecycle (Import Cycle)

**Container Lifecycle (Export Cycle)** 

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### Kochi Port Terminal: Container Transportation



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





### Container Lifecycle (Import Cycle)



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## **Tuticorin Port Terminal: Container Transportation**



### Container Lifecycle (Import Cycle)



## Krishnapatnam Port Terminal: Container Transportation



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



**Container Lifecycle (Export Cycle)** 







### New Mangalore Port Terminal: Container Transportation





### **Port Dwell Time**



# INDIVIDUAL TERMINAL PERFORMANCE IN EASTERN CORRIDOR

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



## Kolkata Port Terminal: Container Transportation



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



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### Haldia Port Terminal: Container Transportation



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





# INDIVIDUAL TERMINAL PERFORMANCE IN WESTERN CORRIDOR

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### **Pipavav Port Terminal: Container Transportation**





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





The marked entries showcase decrease in

performance in comparison to OND'22
## Kandla Port Terminal: Container Transportation



### **Port Dwell Time**



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## Hazira Port Terminal: Container Transportation



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



**Container Lifecycle (Export Cycle)** 



## JNPA Port Terminal: Container Transportation



### Container Lifecycle (Import Cycle)



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### Container Lifecycle (Import Cycle)



**Container Lifecycle (Export Cycle)** 

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## **CONGESTION ANALYSIS**

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### **JNPA Region: Congestion Analysis**





Clusters with bottlenecl	C	lusters	with	bottl	enecl
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JNPA area

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

Legends

Cluster 1

High Congestion

Medium Congestion Low Congestion

Cluster with bottleneck

Cluster without bottleneck

## Mundra Region: Congestion Analysis





## Chennai Region: Congestion Analysis







#### **Clusters with bottleneck**

#### **Clusters without bottleneck**

Cluster 1	Chennai port bound area
Cluster 2	Ennore port bound area
Cluster 3	Chennai central area
Cluster 4	Kattupalli port bound area
Cluster 5	Chennai automotive industry area (Irungatukottai)
Cluster 6	Thiruvallur Outer city bound area

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

Legends

High Congestion

Medium Congestion Low Congestion

Cluster with bottleneck

Cluster without bottleneck

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





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

Sipcot area near by Madurai road

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

Legends

Cluster 4

High Congestion

Madiu

Medium Congestion Low Congestion

Tuster with bottleneck

**Cluster without bottleneck** 

## Kolkata Region: Congestion Analysis





Kolkata – Export	: – JFM'23		
	GARDEN REACH গার্জেন রিচ Garden Reac		
METIABRUZ মেটিয়াব্রুজ	Police Static গার্ডেনরিচ থানা	n Swing Bridge Kolkata Port	Victoria M ভিক্টো মেমোর্নি
Bhandari Pole Kali Temple ভাবাবীংশোল কালী মন্দির	Subhash Bhava Toria ea Railw Ho data		Zoological Garden, Alipore क जिन्द्रियायाला हिन्द्रियायाला
Baro Bagan Masjid 😋		Cluster 4	A A A A A A A A A A A A A A A A A A A
Santonious Re		n Kuni Jaidan জন কুণু য়েদান আজ	ALIPORE
	ture Park	Cluster 1	আলিপুর
KASTURI DAS	Cluster 3	Kolkata Port Trust Hospital কলকাতা বন্দর	Kalighat Mandir কালীঘাট মন্দির কালীঘাট মন্দির
ক্তি MÉMORIAL SUPE কন্তরী দাস স্মৃতি সুপার			CHETLA চেতলা
die Zink	Parnashree Po	ice Station oogle থানা	

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

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

Legends

High Congestion

Medium Congestion Low Congestion

Tuster with bottleneck

Cluster without bottleneck \*

### Haldia Region: Congestion Analysis





Clusters without bottlene	sk	Clusters
Cluster 3	Silpodanga area	Cluster 3

Clusters without bottleneck			
Cluster 3	Silpodanga area		

Legends

High Congestion

Medium Congestion

Low Congestion

Tuster with bottleneck

**Cluster without bottleneck** 

### Visakhapatnam Region: Congestion Analysis







# CONTAINER MOVEMENT ACROSS INDIA

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

#### **Kolkata Port Terminal**

	Mode	ICP Raxaul	
	Overall	90.5 hrs	
<u>e</u>	Road	133.0 hrs	
S	Rail	86.7 hrs	
Import Cycle			
<u></u>	Haldia Port Terminal		
	Mode	ICP Raxaul	
	Overall	-	

#### **Kolkata Port Terminal**

xport Cycle	Mode	ICP Raxaul
	Overall	556.8 hrs
	Road	386.8 hrs
	Rail	563.5 hrs
Export	Haldia Port Terminal	

#### Haldia Port Terminal

Mode	ICP Raxaul
Overall	515.4 hrs





# HIGHWAY CONGESTION ANALYSIS

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### JNPT – Delhi Route: Hourly Speed Analysis



Note: Average Speed is calculated based on the transit time(in-out timestamps). It depicts the transit time between two source and destinations toll plazas.



### Mundra – Delhi Route: Hourly Speed Analysis



Note: Average Speed is calculated based on the transit time (in-out timestamps). It depicts the transit time between two source and destinations toll plazas.



### Vizag – Kolkata Route: Hourly Speed Analysis



Note: Average Speed is calculated based on the transit time(in-out timestamps). It depicts the transit time between two source and destinations toll plazas.



## PORT TO ICD

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### JNPT Port to ICD





Note: Due to data discrepancy, ICD Kanpur and ICD Jaipur have been removed.



### Mundra Port to ICD



### Chennai Port to ICD



*Note:* ICD Whitefield has no volume thus left blank.



## **DATA SOURCE**

- TOS and RFID Timestamps Data is considered for calculation of Port Dwell Time.
- RFID Data is considered for calculation of CFD Dwell Time, Transit Time and Congestion Analysis.
- FOIS Data is considered for calculation of Port to ICD Transit Time

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## NICDC LOGISTICS DATA SERVICES LTD.

(FORMERLY KNOWN AS DMICDC LOGISTICS DATA SERVICES LIMITED)

**Registered Office :** 

A-1002, 10th Floor, Tower A, Plot No. 7, Advant Navis Business Park, Sector -142, Greater Noida Express Way, Noida -201305 Uttar Pradesh

Tel: +91 120 2459 753

Email: contactus@dldsl.in

Website: www.nldsl.in

Twitter: @nldsldb LinkedIn: @nicdclogistics Facebook: @nldsldb Instagram: @nldsldb