

LOGISTICS DATA BANK

ANALYTICS REPORT



NLDS
NICDC LOGISTICS DATA SERVICES LTD
Logistics Redefined

2023

December



in X f | @nlcsi

NATIONAL LOGISTICS POLICY

LAUNCHED BY
SHRI NARENDRA MODI
PRIME MINISTER

* IN THE AUGUST PRESENCE OF *

| | |
|---|---|
| Shri Nitin Jairam Gadkari Minister, Road Transport and Highways | Smt. Nirmala Sitharaman Minister, Finance and Corporate Affairs |
| Shri Piyush Goyal Minister, Commerce & Industry, Consumer Affairs, Food and Public Distribution, and Textiles | Shri Dharmendra Pradhan Minister, Education and Skill Development and Entrepreneurship |
| Shri Sarbananda Sonowal Minister, Port, Shipping and Waterways, and AYUSH | Shri Jyotiraditya M. Scindia Minister, Civil Aviation, and Steel |
| Shri Ashwini Vaishnaw Minister, Railways, Communications, and Electronics and Information Technology | Shri Som Prakash Minister of State for Commerce & Industry |
| Smt. Anupriya Patel Minister of State for Commerce & Industry | |



NATIONAL LOGISTICS POLICY

LAUNCHED BY HON'BLE PRIME MINISTER **SHRI NARENDRA MODI** ON 17th SEPTEMBER 2022



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◆ Newly added component

| | | | |
|---|---------------------|---|---------------------|
| <p>1. PAN India Performance</p> <ul style="list-style-type: none"> ◆ Key Highlights for Dec'23 ◆ New Additions in Report <ul style="list-style-type: none"> PAN India Exim Trade Distribution Port Dwell Time Performance Dec'23 Region wise Dwell Time Performance Summary Port Dwell Time (Import & Export Cycle) ◆ CFS and ICD Dwell Time (Import & Export Cycle) ◆ Effective Container Movement Analysis around Port (Import & Export) ◆ Vessel Analysis PAN India <ul style="list-style-type: none"> Container Count ◆ Port Performance Benchmark Comparison (Import & Export Cycle) <ul style="list-style-type: none"> Port Performance Benchmarking CFS Performance Benchmarking Domestic Containers Port Dwell Time | <p>05-25</p> | <p>3. Southern Region Performance</p> <ul style="list-style-type: none"> Dwell time performance (Import & Export) Container Count ◆ Container Volume and Turnaround Time Performance Benchmarking (Port & CFS) Individual Port Performance | <p>49-65</p> |
| <p>2. Western Region Performance</p> <ul style="list-style-type: none"> Dwell Time Performance (Import & Export Cycle) ◆ Container Count <ul style="list-style-type: none"> Container Volume and Turnaround Time Performance Benchmarking (Port, CFS & ICD) Individual Port Performance Toll Plaza Analysis Evacuation Efficiency Analysis | <p>26-48</p> | <p>4. Eastern Region Performance</p> <ul style="list-style-type: none"> Dwell time performance (Import & Export) Container Count ◆ Container Volume and Turnaround Time Performance Benchmarking (Port & CFS) Individual Port Performance | <p>66-77</p> |
| | | <p>5. Congestion Analysis</p> | <p>78-86</p> |
| | | <p>6. Container Movement Across India</p> | <p>87-90</p> |
| | | <p>7. Annexure</p> | <p>91-94</p> |
| | | <p>8. LDB AT A GLANCE</p> | <p>95</p> |

01

PAN INDIA PERFORMANCE



Key Highlights for Dec'23

The following are the key observations for the month of December'23 as compared to previous month (Nov'23)

Pan India

- Container volume (no. of boxes) has **increased by 3.8%** in import cycle & **10.5%** in Export cycle
- Top Performing Terminal of month is **Gateway Terminals India (JNPA Port)**

Western Region

- Mundra port import cycle Dwell time **increased by 21.9%**
- Turn around time for container to complete both import & export cycle journey at Hazira port has **increased by 26.6%**
- JNPA port has **experienced congestion around** its CFS(s) areas in export cycle, the transit time has increased **by 28.2%**

Southern Region

- Import cycle dwell time has been increased by 87.6% in Ennore port & 60.5% in Chennai port
- Tuticorin port has experienced **improved traffic flow** around its CFS(s) area in import cycle, the transit time has **decreased by 18.5%**

Eastern Region

- Kolkata port export Dwell time **increased by 23.5%**

New Additions in Report

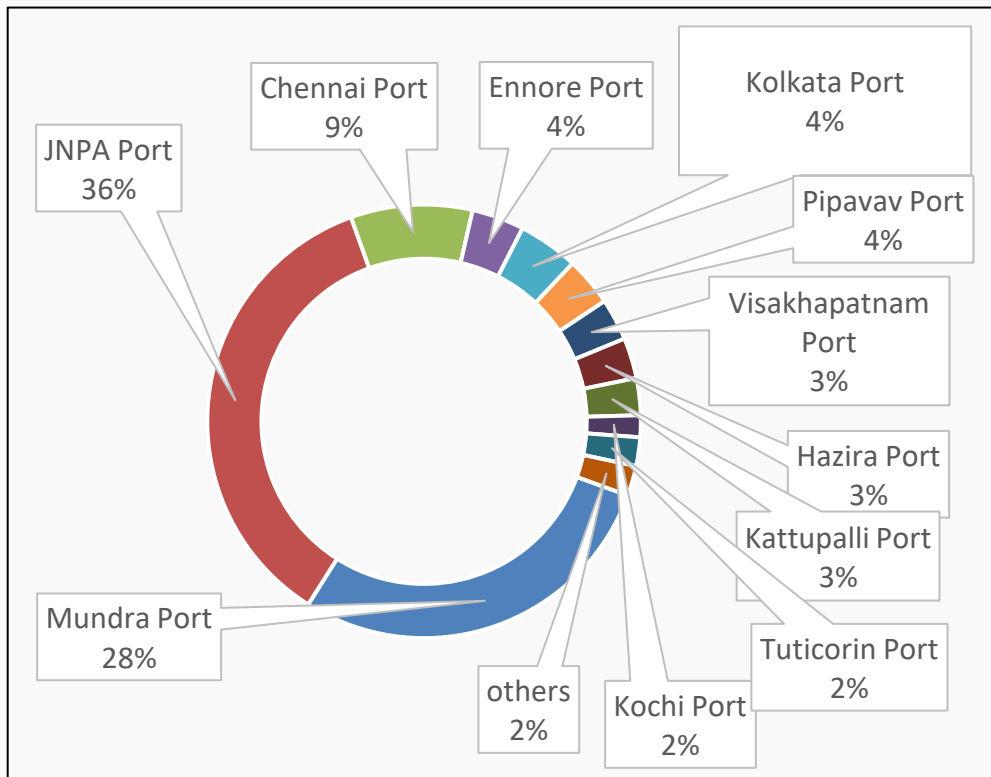
The following are the major changes/components added in December'23 report:

- **PAN India EXIM Trade Distribution:** Highlights the port wise monthly container count distribution for both Import and Export Cycle.
- Port's Key Performance Indicators(KPIs) segregated to following time frames:
 - Previous Month
 - Same month(previous year)
 - Monthly Average(same month average since inception)
 - Overall Average(since inception)
- Bifurcation of **CFS and ICD Dwell Time** based on **container cycle(Import, Export)**
- **Observations from Previous month:** Indicated anomalies in Port Performance based on previous month's trend and reasons for the same.
- **New KPIs in Port Performance Benchmarking**
 - Change in Dwell Time and Container Count compared to same month(previous year)
 - Port container handling capacity vs Dwell Time

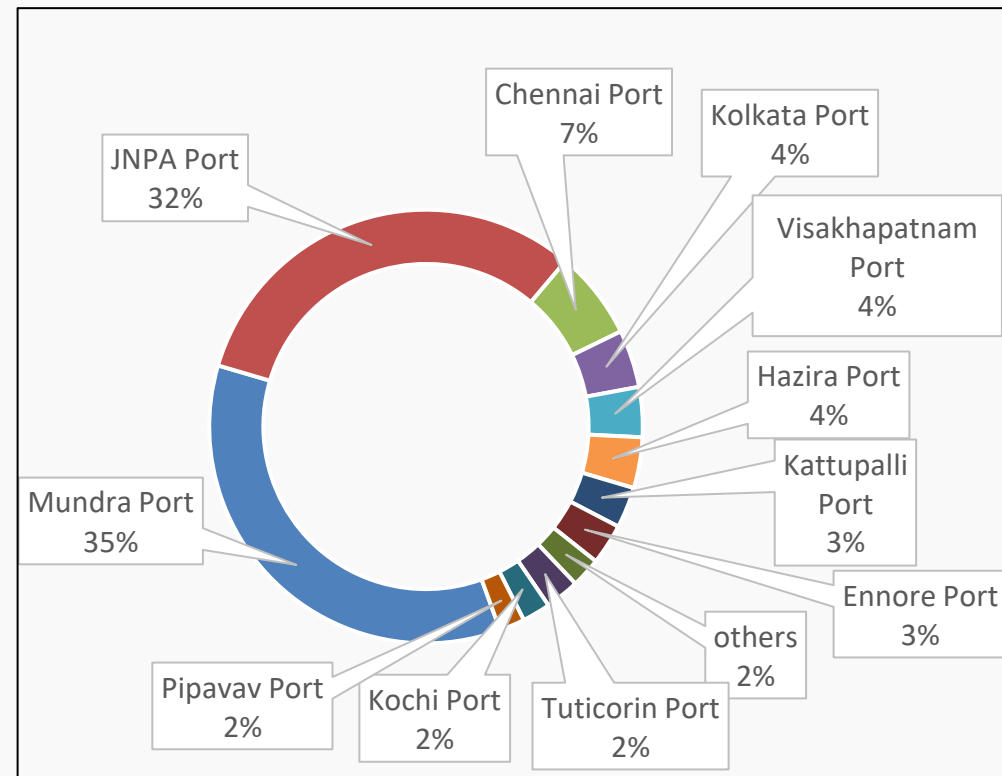
PAN India EXIM Trade Distribution

The EXIM trade distribution in India is concentrated at two major ports i.e. JNPA & Mundra port, jointly consisting of approx. 2/3rd of the overall container number of boxes of India.

Import Container Distribution
(container count in % for Dec'23)



Export Container Distribution
(container count in % for Dec'23)

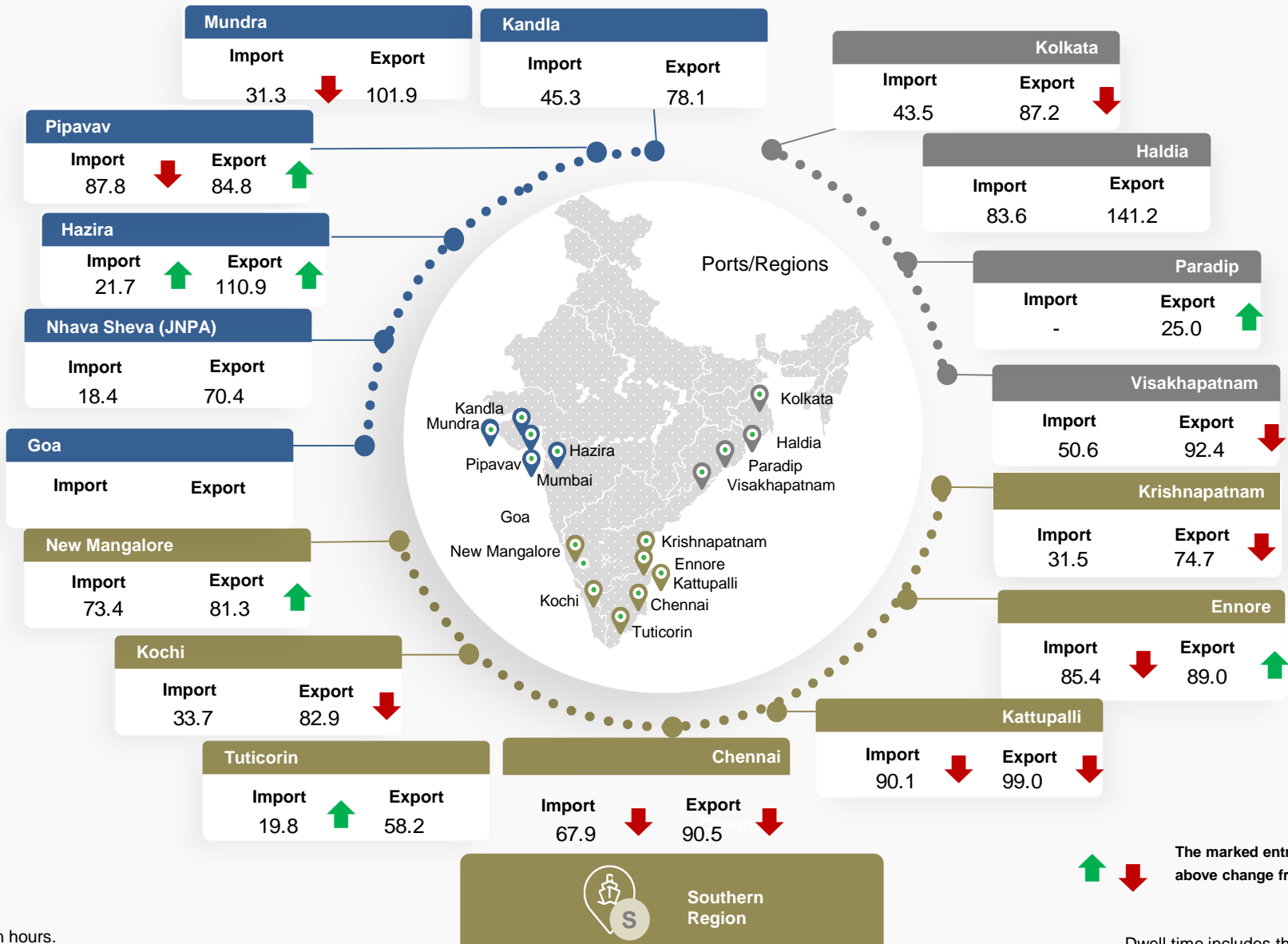


* Other ports consist of Kandla, Goa, Paradip, Haldia, New Mangalore and Krishnapatnam Port.

Port Dwell Time Performance (Dec'23): PAN India

Western Region

Eastern Region



↑ ↓ The marked entries showcase +/- 10% or above change from Nov'23

All values are in hours.

Note: Goa Port has zero number of boxes, Paradip Port has zero import number of boxes. Haldia Port export data has discrepancy, NMPA is 100% DPD & DPE

Dwell time includes the free time at port

Region-wise Dwell Time Performance Summary

Western Region

| Duration | Import Dwell Time (in hrs) | Export Dwell Time (in hrs) |
|----------|----------------------------|----------------------------|
| Nov'23 | 22.3 | 88.3 |
| Dec'23 | 23.0 | 85.1 |
| Dec'22 | 25.4 | 82.7 |
| OADT | 24.3 | 85.3 |
| MADT | 25.8 | 89.9 |

Southern Region

| Duration | Import Dwell Time (in hrs) | Export Dwell Time (in hrs) |
|----------|----------------------------|----------------------------|
| Nov'23 | 41.1 | 79.3 |
| Dec'23 | 66.2 | 83.3 |
| Dec'22 | 37.2 | 79.7 |
| OADT | 49.2 | 74.8 |
| MADT | 52.6 | 91.2 |

Eastern Region

| Duration | Import Dwell Time (in hrs) | Export Dwell Time (in hrs) |
|----------|----------------------------|----------------------------|
| Nov'23 | 48.4 | 81.3 |
| Dec'23 | 48.5 | 93.8 |
| Dec'22 | 46.9 | 87.4 |
| OADT | 45.5 | 96.7 |
| MADT | 45.4 | 107.0 |

OADT – Overall Avg Dwell Time: Overall average since inception

MADT – Monthly Avg Dwell Time: Past five year's average of same month

Port Dwell Time (Import Cycle)

IMPORT

| | Nov'23 (in hrs) | Dec'23 (in hrs) | Dec'22 (in hrs) | OADT (in hrs) | MADT (in hrs) |
|------------------------|--------------------|--------------------|--------------------|------------------|------------------|
| Western Region | 22.3 | 23.0 | 25.4 | 24.3 | 25.8 |
| JNPA | 18.2 | 18.4 | 22.6 | 20.9 | 22.2 |
| Mundra | 25.7 | 31.3 | 27.2 | 26.8 | 29.3 |
| Pipavav | 57.0 | 87.8 | 54.1 | 56.0 | 71.0 |
| Kandla | 46.3 | 45.3 | 46.4 | 45.6 | 47.8 |
| Hazira | 27.1 | 21.7 | 27.3 | 34.1 | 24.5 |
| Southern Region | 41.1 | 66.2 | 37.2 | 49.2 | 52.6 |
| Chennai | 42.3 | 67.9 | 35.6 | 42.3 | 57.2 |
| Kochi | 37.2 | 33.7 | 36.7 | 46.3 | 41.3 |
| Kattupalli | 43.3 | 90.1 | 54.0 | 53.5 | 76.1 |
| Tuticorin | 23.7 | 19.8 | 22.0 | 20.5 | 21.9 |
| Krishnapatnam | 32.2 | 31.5 | 16.3 | 62.8 | 32.1 |
| Ennore | 45.5 | 85.4 | 45.1 | 54.7 | 69.1 |
| New Mangalore | 68.7 | 73.4 | 66.3 | 88.3 | 69.9 |
| Eastern Region | 48.4 | 48.5 | 46.9 | 45.5 | 45.4 |
| Vizag | 55.0 | 50.6 | 55.5 | 55.3 | 55.2 |
| Kolkata | 40.8 | 43.5 | 37.2 | 33.2 | 35.8 |
| Haldia | 89.3 | 83.6 | 89.1 | 87.7 | 86.4 |

OADT – Overall Avg Dwell Time: Overall average since inception

MADT – Monthly Avg Dwell Time: Past five year's average of same month

Port Dwell Time (Export Cycle)

| | Nov'23 (in hrs) | Dec'23 (in hrs) | Dec'22 (in hrs) | OADT (in hrs) | MADT (in hrs) |
|------------------------|--------------------|--------------------|--------------------|------------------|------------------|
| Western Region | 88.3 | 85.1 | 82.7 | 85.3 | 89.9 |
| JNPA | 69.3 | 70.4 | 69.0 | 69.1 | 72.0 |
| Mundra | 104.5 | 101.9 | 97.0 | 108.6 | 109.7 |
| Pipavav | 102.7 | 84.8 | 103.6 | 126.6 | 94.2 |
| Kandla | 85.5 | 78.1 | 151.2 | 65.3 | 132.9 |
| Hazira | 124.8 | 110.9 | 107.4 | 110.7 | 109.2 |
| Southern Region | 79.3 | 83.3 | 79.7 | 74.8 | 91.2 |
| Chennai | 79.5 | 90.5 | 85.5 | 85.1 | 96.6 |
| Kochi | 72.9 | 82.9 | 73.5 | 83.7 | 101.6 |
| Kattupalli | 72.0 | 99.0 | 86.8 | 76.5 | 103.7 |
| Tuticorin | 57.0 | 58.2 | 58.1 | 62.6 | 66.1 |
| Krishnapatnam | 59.9 | 74.7 | 60.8 | 63.2 | 76.2 |
| Ennore | 102.7 | 89.0 | 105.6 | 70.1 | 104.6 |
| New Mangalore | 97.4 | 81.3 | 67.6 | 105.2 | 110.4 |
| Eastern Region | 81.3 | 93.8 | 87.4 | 96.7 | 107.0 |
| Vizag | 82.3 | 92.4 | 78.1 | 85.6 | 102.8 |
| Kolkata | 70.6 | 87.2 | 94.1 | 109.5 | 105.7 |
| Haldia | - | 141.2 | 95.9 | 110.1 | 125.3 |

OADT – Overall Avg Dwell Time: Overall average since inception

MADT – Monthly Avg Dwell Time: Past five year's average of same month

CFS and ICD Dwell Time (Import Cycle)

| CFS | | Nov'23 (in hrs) | Dec'23 (in hrs) | Dec'22 (in hrs) | OADT (in hrs) | MADT (in hrs) |
|-----------------------|-----------------------------|--------------------|--------------------|--------------------|------------------|------------------|
| | Western Region | 100.6 | 94.6 | 80.4 | 90.0 | 87.0 |
| | JNPA | 92.3 | 84.7 | 72.2 | 83.9 | 79.3 |
| | Mundra | 112.3 | 106.8 | 96.7 | 98.1 | 99.3 |
| | Pipavav | 67.2 | 67.5 | 90.8 | 85.0 | 74.5 |
| | Hazira | 107.2 | 62.7 | 92.4 | 104.8 | 89.7 |
| | Southern Region | 128.6 | 115.7 | 112.6 | 112.3 | 111.7 |
| | Chennai, Ennore, Kattupalli | 120.8 | 106.7 | 108.2 | 105.0 | 106.1 |
| | Kochi | 149.5 | 102.2 | 101.7 | 121.0 | 99.8 |
| | Tuticorin | 155.9 | 170.3 | 143.6 | 143.1 | 142.4 |
| Krishnapatnam | 171.1 | 80.9 | 71.4 | 123.6 | 96.2 | |
| Eastern Region | 142.2 | 135.5 | 135.2 | 135.4 | 130.2 | |
| Vizag | 174.6 | 172.1 | 180.0 | 156.1 | 159.6 | |
| Kolkata | 134.2 | 127.5 | 124.1 | 129.2 | 123.1 | |
| Haldia | 142.4 | 105.7 | 102.0 | 123.6 | 111.1 | |

| ICD | | Nov'23 (in hrs) | Dec'23 (in hrs) | Dec'22 (in hrs) | OADT (in hrs) | MADT (in hrs) |
|-----|-----------------------|--------------------|--------------------|--------------------|------------------|------------------|
| | Western Region | 136.4 | 158.4 | 113.7 | | 125.5 |

OADT – Overall Avg Dwell Time: Overall average since inception
MADT – Monthly Avg Dwell Time: Past three year's average of same month

CFS and ICD Dwell Time (Export Cycle)

| | Nov'23 (in hrs) | Dec'23 (in hrs) | Dec'22 (in hrs) | OADT (in hrs) | MADT (in hrs) | |
|------------|-----------------------------|--------------------|--------------------|------------------|------------------|-------|
| CFS | Western Region | 78.8 | 82.1 | 75.8 | 77.5 | 81.0 |
| | JNPA | 80.4 | 81.0 | 79.7 | 87.7 | 83.3 |
| | Mundra | 75.4 | 84.8 | 70.8 | 56.5 | 77.5 |
| | Pipavav | 81.4 | 68.4 | 61.1 | 68.4 | 90.5 |
| | Hazira | 87.4 | 71.7 | 81.2 | 79.9 | 81.0 |
| | Southern Region | 78.4 | 88.8 | 72.6 | 59.4 | 87.9 |
| | Chennai, Ennore, Kattupalli | 77.1 | 93.9 | 75.2 | 67.5 | 90.0 |
| | Kochi | 121.0 | 98.3 | 51.4 | 38.6 | 81.6 |
| | Tuticorin | 77.3 | 54.2 | 54.1 | 30.0 | 72.9 |
| | Krishnapatnam | 97.1 | 27.0 | 92.7 | 95.2 | 82.4 |
| | Eastern Region | 135.7 | 143.3 | 125.0 | 114.1 | 127.1 |
| | Vizag | 119.3 | 132.9 | 136.6 | 120.7 | 129.7 |
| | Kolkata | 142.6 | 145.3 | 114.4 | 105.5 | 123.3 |
| | Haldia | 138.1 | 120.4 | 134.1 | 116.8 | 117.0 |

| | | | | | |
|------------|-----------------------|-------|-------|------|-------|
| ICD | Western Region | 104.5 | 112.9 | 90.8 | 107.0 |
|------------|-----------------------|-------|-------|------|-------|

OADT – Overall Avg Dwell Time: Overall average since inception

MADT – Monthly Avg Dwell Time: Past three year's average of same month

Effective Container Movement Analysis around Port (Import Cycle)

Effective Container Movement Analysis around port depicts the time taken by the container to move from various nodes involved around port based on container's delivery type (DPD, Non-DPD).

Non DPD Containers:
Containers getting custom clearance at CFSs
(in hrs)

| IMPORT | Effective Container Movement Time around Port | | | |
|----------|---|--------|--------|-------|
| | Dec'22 | Nov'23 | Dec'23 | CY'23 |
| India | 121.5 | 154.2 | 136.5 | 136.1 |
| Western | 105.7 | 147.0 | 116.9 | 114.6 |
| Southern | 153.1 | 161.3 | 187.0 | 166.0 |
| Eastern | 180.7 | 186.6 | 179.4 | 181.8 |

Effective Container Movement is the sum of Port Dwell Time, Transit Time (between Port and CFS), and CFS Dwell Time.

DPD Containers:
Containers getting custom clearance at the Terminals
(in hrs)

| IMPORT | Effective Container Movement Time around Port | | | |
|----------|---|--------|--------|-------|
| | Dec'22 | Nov'23 | Dec'23 | CY'23 |
| India | 39.3 | 33.9 | 32.0 | 36.0 |
| Western | 32.6 | 22.1 | 22.4 | 27.5 |
| Southern | 37.6 | 71.0 | 78.7 | 44.5 |
| Eastern | 71.9 | 92.9 | 97.3 | 77.4 |

Effective Container Movement is the Port Dwell Time of DPD bound containers.

Effective Container Movement Analysis around Port (Export Cycle)

Effective Container Movement Analysis around port depicts the time taken by the container to move from various nodes involved around port based on container's delivery type (DPE, Non-DPE).

Non DPE Containers:
Containers getting custom clearance at CFSs
(in hrs)

| EXPORT | Effective Container Movement Time around Port | | | |
|----------|---|--------|--------|-------|
| | Dec'22 | Nov'23 | Dec'23 | CY'23 |
| India | 155.9 | 190.9 | 184.2 | 166.2 |
| Western | 153.0 | 205.8 | 172.7 | 172.9 |
| Southern | 152.3 | 137.9 | 177.9 | 120.0 |
| Eastern | 198.3 | 370.7 | 222.9 | 192.1 |

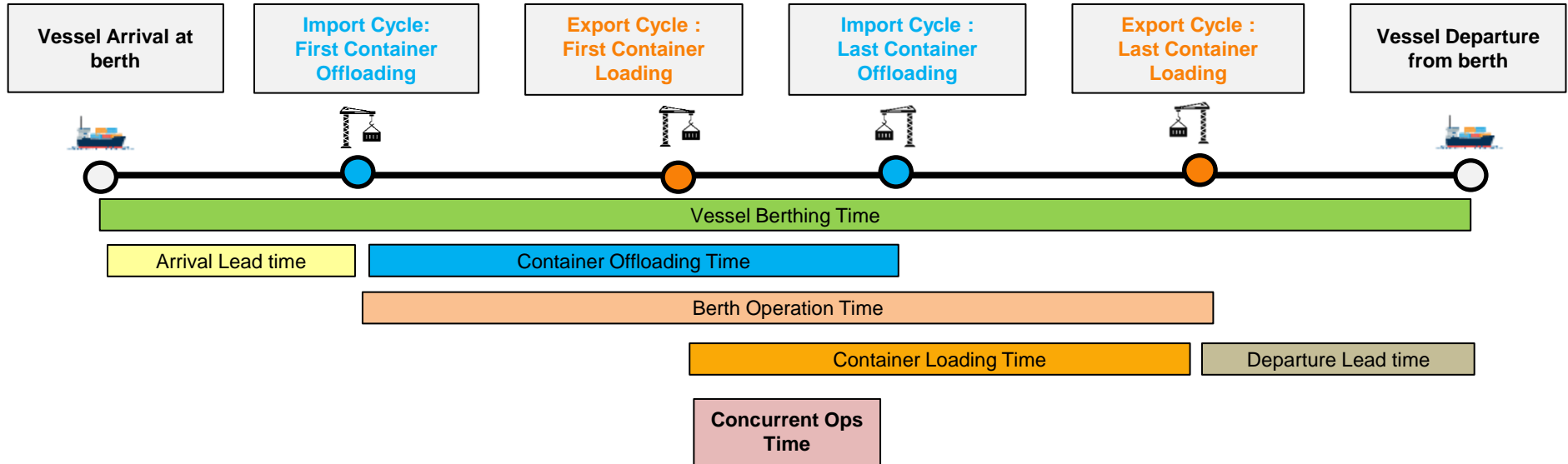
Effective Container Movement is the sum of Port Dwell Time, Transit Time (between Port and CFS) and CFS Dwell Time.

DPE Containers:
Containers getting custom clearance at the Terminals
(in hrs)

| EXPORT | Effective Container Movement Time around Port | | | |
|----------|---|--------|--------|-------|
| | Dec'22 | Nov'23 | Dec'23 | CY'23 |
| India | 84.2 | 92.0 | 84.1 | 83.8 |
| Western | 76.9 | 82.6 | 76.6 | 80.5 |
| Southern | 74.4 | 88.1 | 82.3 | 86.9 |
| Eastern | 101.5 | 125.6 | 115.2 | 120.7 |

Effective Container Movement is the sum of Port Dwell Time, Transit Time (between Port and Parking Plaza) and Parking Plaza Dwell Time.

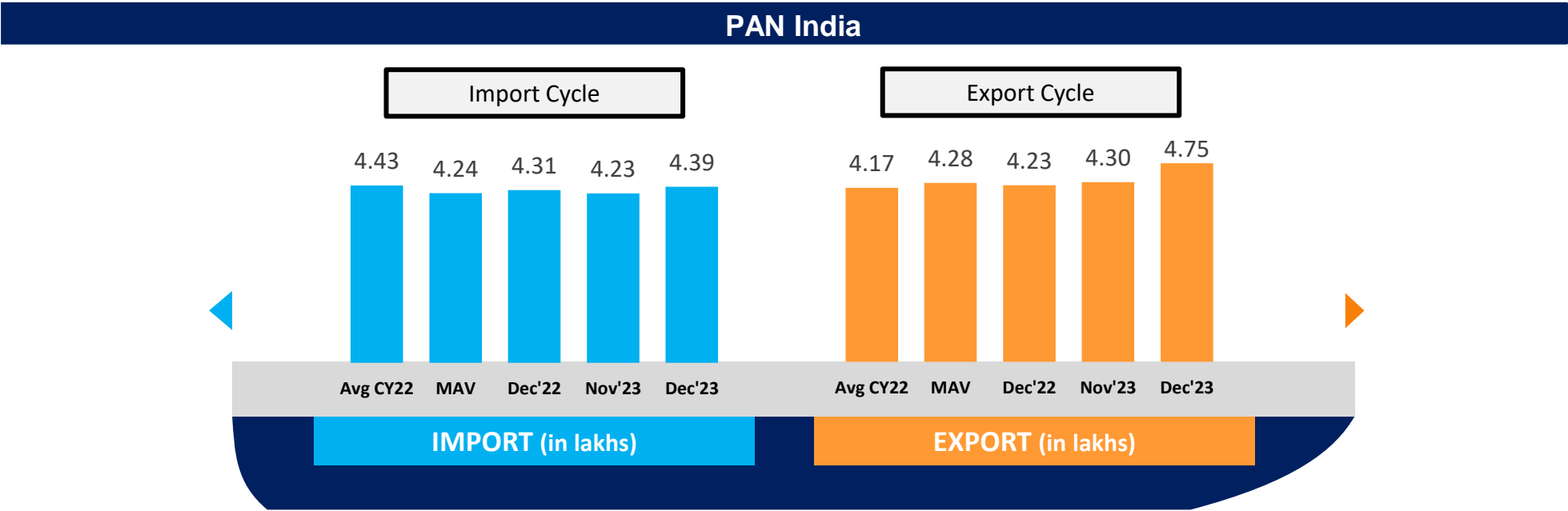
Vessel Analysis: PAN India



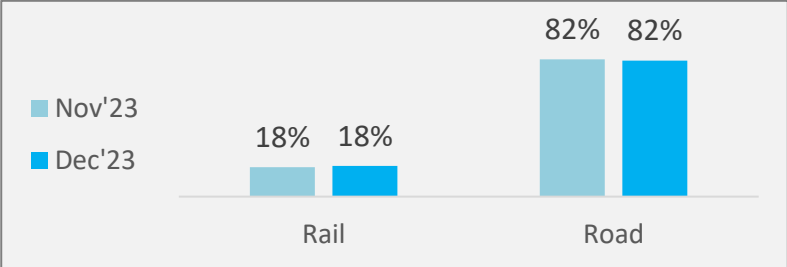
| Dec'23 | Vessel Berthing Time (hrs.) | Arrival Lead Time (hrs.) | Offloading Time (Min/ Cntr) | Berth Productivity (Min/ Cntr) | Loading Time (Min/ Cntr) | Concurrent Operations Time (%) | Departure Lead Time (hrs.) |
|---------------|-----------------------------|--------------------------|-----------------------------|--------------------------------|--------------------------|--------------------------------|----------------------------|
| India | 18.6 | 1.9 | 3.0 | 1.6 | 1.8 | 58% | 1.1 |
| Mundra | 25.7 | 2.5 | 3.0 | 1.9 | 1.5 | 63% | 0.9 |
| JNPA | 19.3 | 1.3 | 2.6 | 1.7 | 2.1 | 65% | 0.8 |
| Other Western | 24.1 | 2.1 | 3.3 | 0.9 | 2.5 | 78% | 1.1 |
| Southern | 16.9 | 1.9 | 3.2 | 1.5 | 1.9 | 38% | 1.6 |
| Eastern | 12.3 | 1.0 | 3.5 | 2.2 | 1.9 | 61% | 1.8 |

Container Count: PAN India

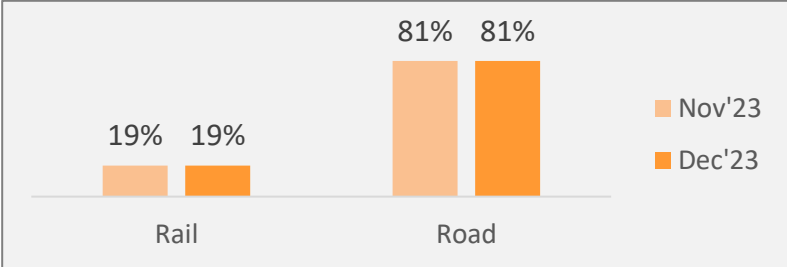
Container count analysis showcase the number of boxes across PAN India in various time period:



Import (Mode-wise)



Export (Mode-wise)

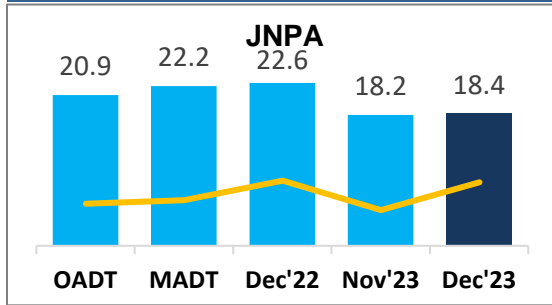


Avg CY22 – Monthly Avg from Jan'22 to Dec'22
 MAV – Past five year's similar month average of the boxes

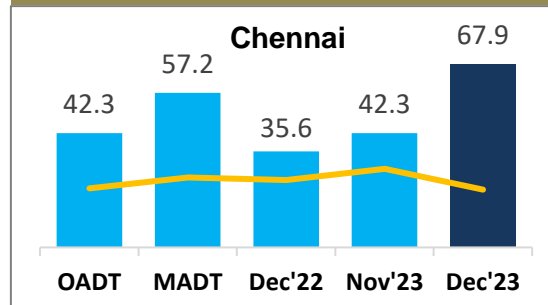
Port Performance Benchmark Comparison (Import Cycle)

To evaluate the port performance of the current month with historical patterns, the Dec'23 port dwell time performance compared with last month, same month last year, MADT and OADT:

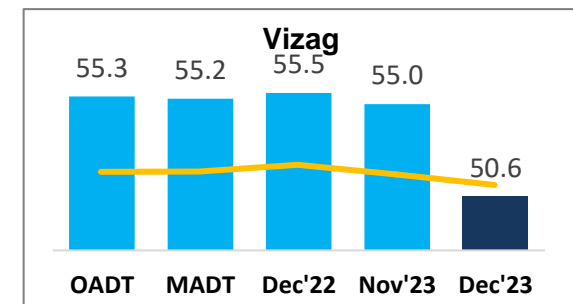
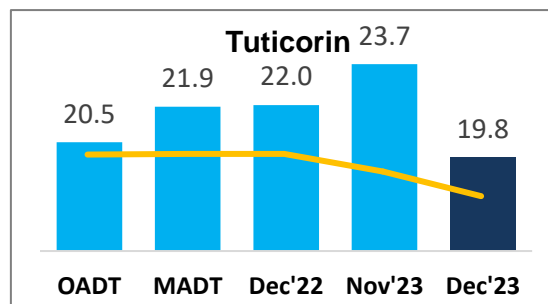
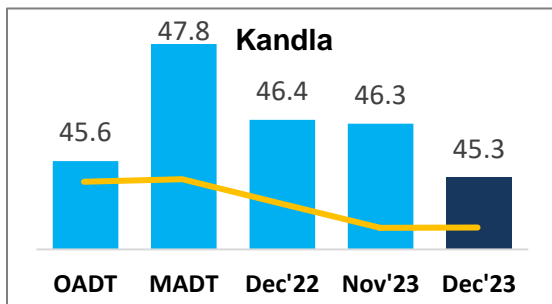
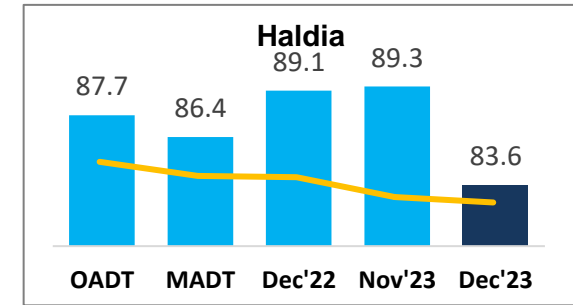
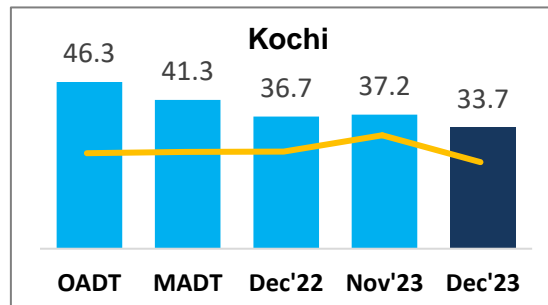
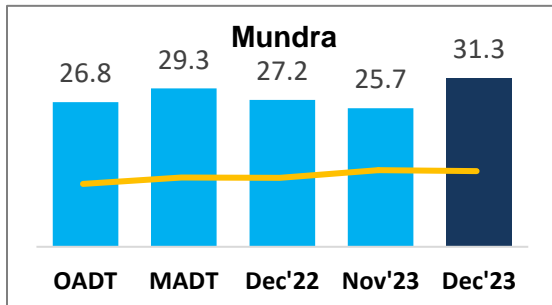
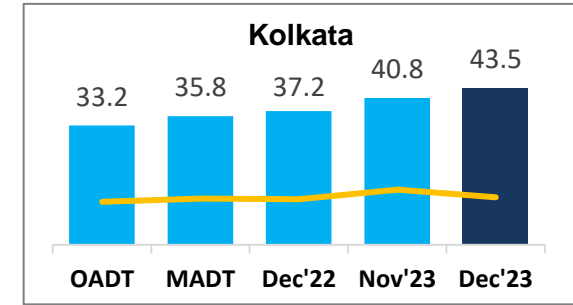
Western Region



Southern Region



Eastern Region



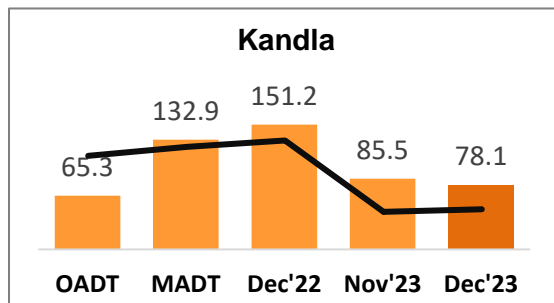
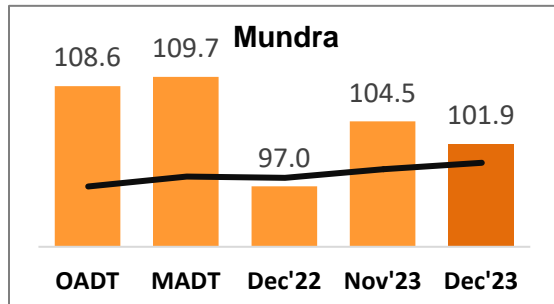
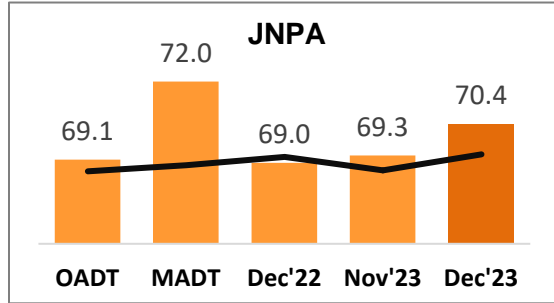
OADT – Overall Avg Dwell Time: Overall average since inception till date
MADT – Monthly Avg Dwell Time: Past five year's average of same month

— Line represents the trend of average number of boxes across different time frames

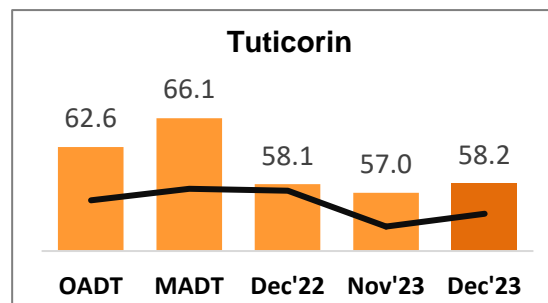
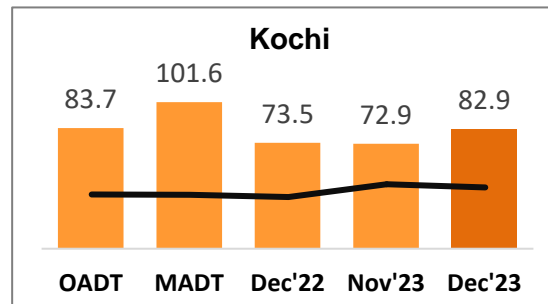
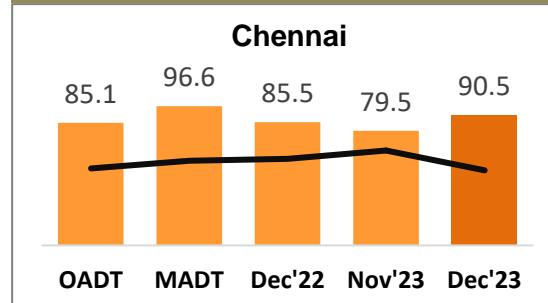
Port Performance Benchmark Comparison (Export Cycle)

To evaluate the port performance of the current month with historical patterns, the Dec'23 port dwell time performance compared with last month, same month last year, MADT and OADT:

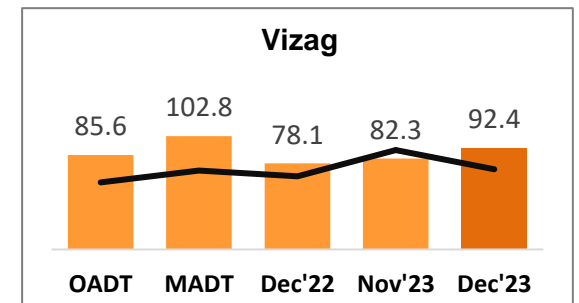
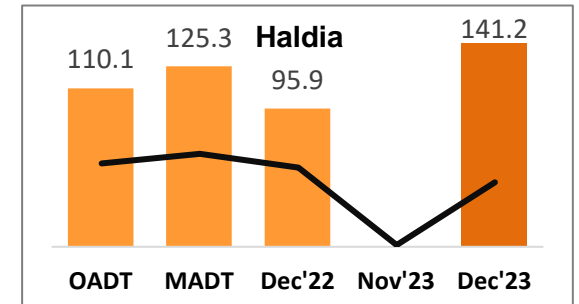
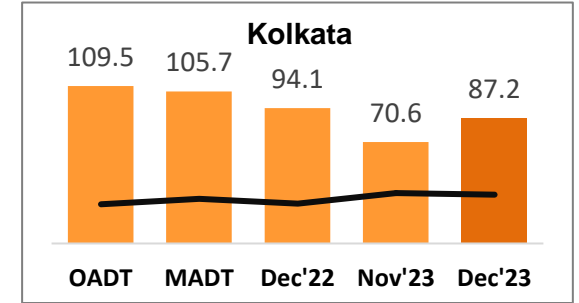
Western Region



Southern Region



Eastern Region

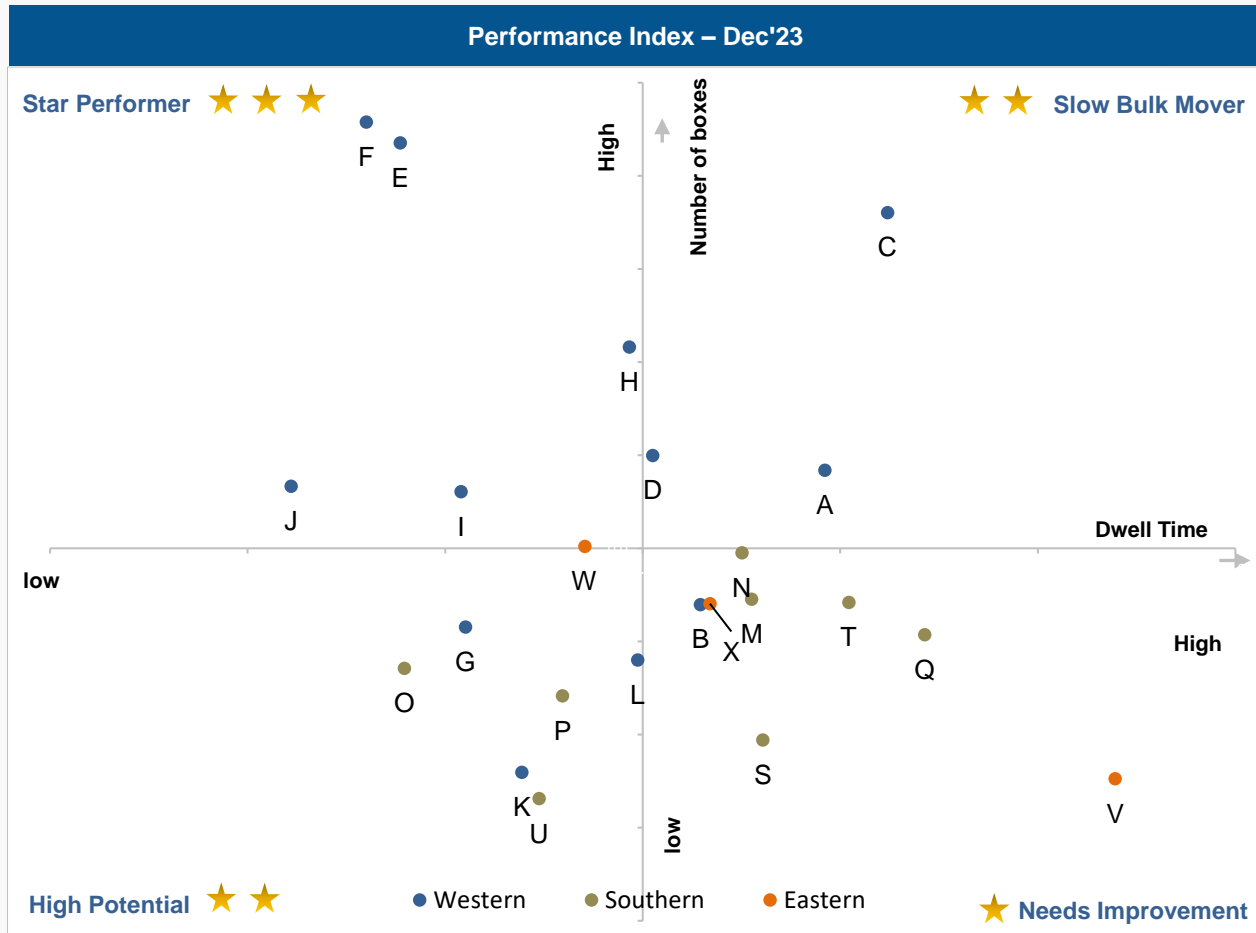


OADT – Overall Avg Dwell Time: Overall average since inception
MADT – Monthly Avg Dwell Time: Past five year's average of same month

— Line represents the trend of average number of boxes across different time frames

Port Performance Benchmarking: PAN India

The component benchmarks the port terminals by examining dwell time taken by each terminal to crater a given number of container boxes. The values are standardized for comparison



| Abb. | Name of Terminal |
|------|---|
| A | Adani CMA Mundra Terminal (ACMTPL) |
| B | Adani Hazira Port Private Limited (AHPPL) |
| C | Adani International Container Terminal (AICTPL) |
| D | Adani Mundra Container Terminal (AMCT) |
| E | Bharat Mumbai Container Terminal(PSA) |
| F | Gateway Terminals India (GTI) |
| G | Nhava Sheva Freeport Terminal (NSFT) |
| H | Mundra International Container Terminal (MICT) |
| I | Nhava Sheva India Gateway Terminal (NSIGT) |
| J | Nhava Sheva International Container Terminal (NSICT) |
| K | Kandla International Container Terminal (KICT) |
| L | Adani Mundra Container Terminal-2 (AMCT-2) |
| M | Chennai Container Terminal Pvt. Ltd. (CCTL) |
| N | Chennai International Terminals Pvt Ltd (CITPL) |
| O | Dakshin Bharat Gateway Terminal (DBGT) |
| P | International Container Transhipment Terminal, Kochi |
| Q | Adani Kattupalli Port Private Limited (AKPPL) |
| R | PSA SICAL Terminals |
| S | Mangalore Container Terminal Private Limited (MCTPL) |
| T | Adani Ennore Container Terminal |
| U | Adani Krishnapatnam Container Terminal Pvt Ltd (AKCTPL) |
| V | Haldia International Container Terminal (HICT) |
| W | Kolkata Dock System (KDS) , Kolkata Port |
| X | Visakha Container Terminal |

X-axis
Dwell Time

Y-axis
Number of boxes

Star Performer ★★★
Consist of entities which have catered relatively high container number of boxes in lower dwell time

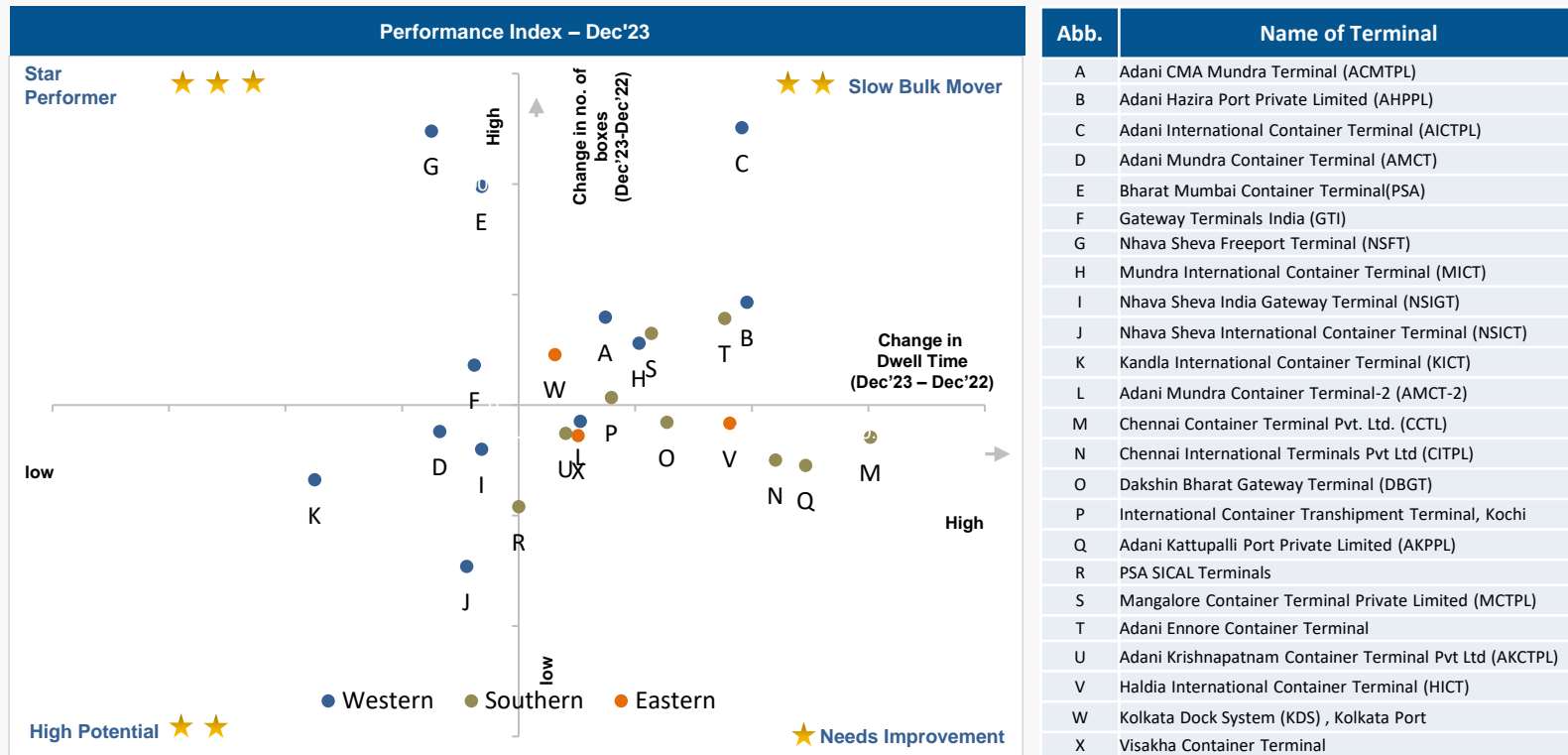
High Potential ★★
Consist of entities which have catered relatively lower container number of boxes in lower dwell time

Slow Bulk Movers ★★
Consist of entities which have catered higher container number of boxes in higher dwell time

Needs Improvement ★
Consist of entities which have catered relatively lower container number of boxes at higher dwell time

Port Individual Performance Comparison (Previous year same month): PAN India

The component highlights & compare the change in performance of various terminals by examining dwell time taken by each terminal to cater a given number of container boxes in the present month as compared to the same month previous year. The analysis is to understand the extend of improvement individual terminals have done over the course of time.



X-axis

Change in Dwell time in Dec'23 w.r.t. previous year same month (Dec'22)

Y-axis

Change in no. of boxes in Dec'23 w.r.t. previous year same month (Dec'22)

Star Performer ★★ ★

Consist of entities which have improved dwell time & increase the no. of boxes handled

High Potential ★★

Consist of entities which have improved dwell time but reduce no. of boxes handled as compared to previous time

Slow Bulk Movers ★★

Consist of entities which handled more no. of boxes as compared to previous time but declined its dwell time performance

Needs Improvement ★

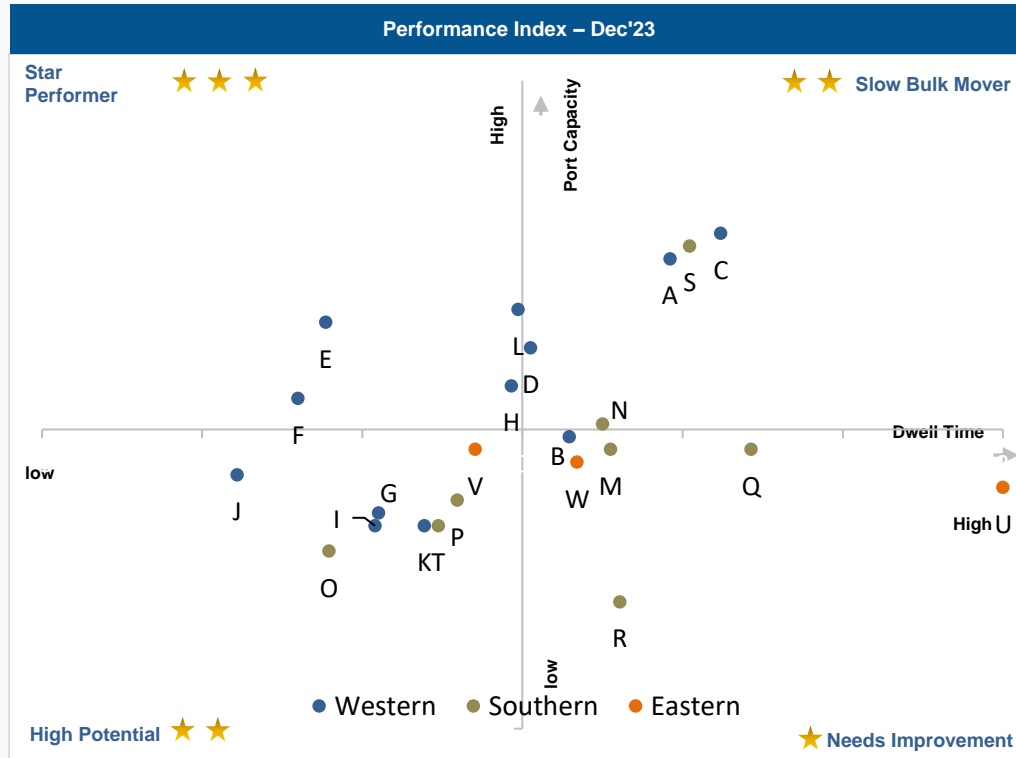
Consist of entities which have catered/handled less no. of boxes and reduce dwell time performance as compared to previous month

PAN India

Port Performance Benchmarking (Based on Capacity & Dwell time): PAN India



The component benchmarks the port terminals by examining dwell time taken by each terminal with respect to their capacity to handle volume (TEU). The values are standardized for comparison.



| Abb. | Name of Terminal |
|------|---|
| A | Adani CMA Mundra Terminal (ACMTPL) |
| B | Adani Hazira Port Private Limited (AHPPL) |
| C | Adani International Container Terminal (AICTPL) |
| D | Adani Mundra Container Terminal (AMCT) |
| E | Bharat Mumbai Container Terminals (PSA) |
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| M | Chennai Container Terminal Pvt. Ltd. (CCTL) |
| N | Chennai International Terminals Pvt Ltd (CITPL) |
| O | Dakshin Bharat Gateway Terminal (DBGT) |
| P | International Container Transhipment Terminal, Kochi |
| Q | Adani Kattupalli Port Private Limited (AKPPL) |
| R | NMPT, New Mangalore |
| S | Adani Ennore Container Terminal |
| T | Adani Krishnapatnam Container Terminal Pvt Ltd (AKCTPL) |
| U | Haldia International Container Terminal (HICT) |
| V | Kolkata Dock System (KDS), Kolkata Port |
| W | Visakha Container Terminal |
| X | NMPT, New Mangalore |

X-axis
Relative Port Dwell time

Y-axis
Relative Port TEU capacity

Star Performer ★★ ★
Consist of entities which have relatively high capacity & had lower dwell time for crating containers

High Potential ★★ ★
Consist of entities which have relatively lower capacity & had lower dwell time for crating containers

Slow Bulk Movers ★★ ★
Consist of entities which have relatively high capacity & had High dwell time for crating containers

Needs Improvement ★
Consist of entities which have relatively low capacity & had high dwell time for crating containers

PAN India

CFS Performance Benchmarking: PAN India

Top Performing CFS

Adani CFS Eximyard, Mundra

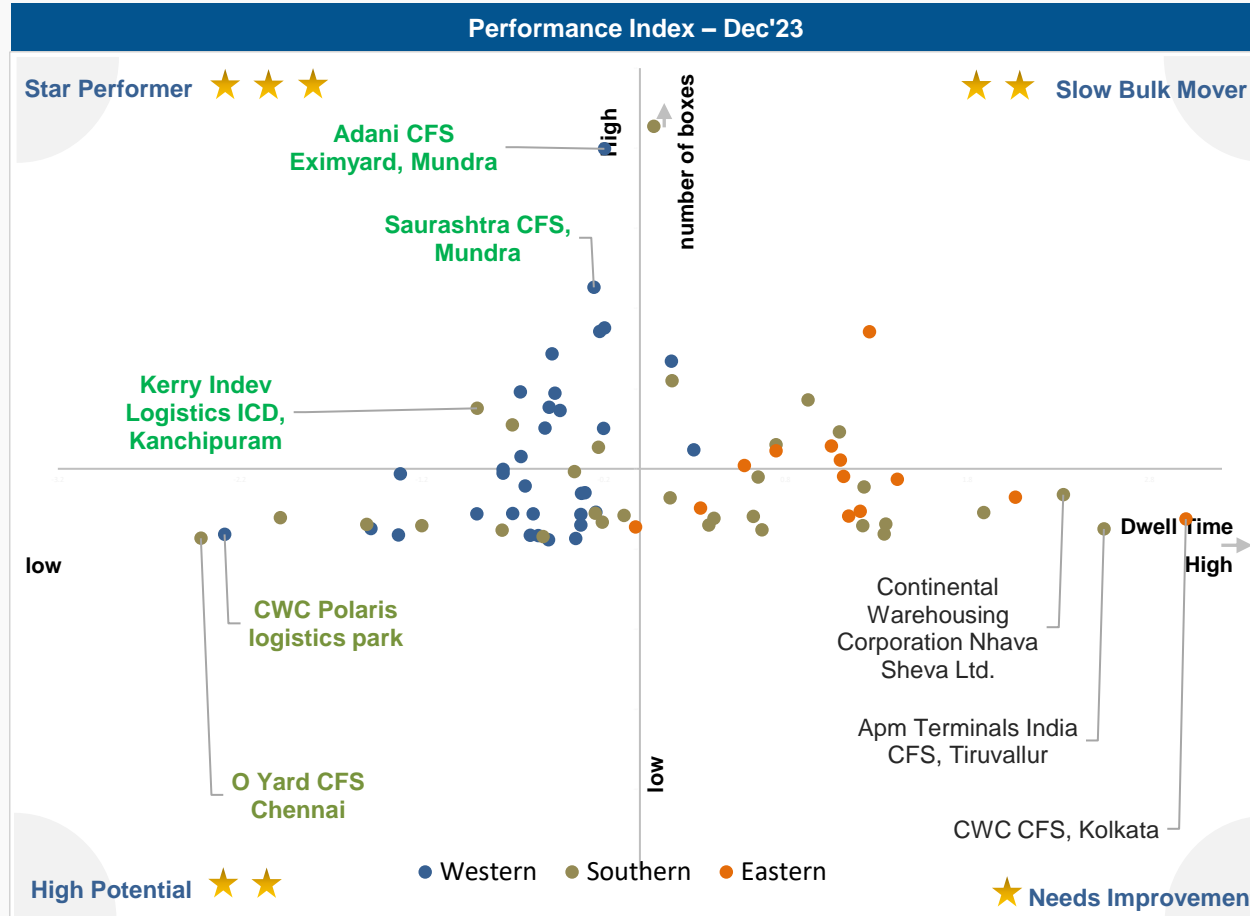
Saurashtra CFS, Mundra

Kerry Indev Logistics ICD, Kanchipuram

High Potential CFS

CWC Polaris logistics park

O Yard CFS Chennai



Low Performing CFS

Continental Warehousing Corporation Nhava Sheva Ltd.

Apm Terminals India CFS, Tiruvallur

CWC CFS, Kolkata

Star Performer ★★ ★★

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

High Potential ★★

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

Slow Bulk Movers ★★

Consist of entities which have catered higher container number of boxes in higher dwell time

Needs Improvement ★

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

Domestic Containers Port Dwell Time

Average Month-on-Month Port Dwell Time comparison for Domestic Containers catered by individual terminals

| DWELL TIME | | Nov'23 (in hrs) | Dec'23 (in hrs) | Container % (Dec'23) | |
|--|---|--------------------|--------------------|-------------------------|---|
| | Bharat Mumbai Container Terminals(PSA) | 12.3 | 15.4 | 31.6% | ↓ |
| | Chennai Container Terminal Pvt. Ltd. (CCTL) | 115.3 | 124.1 | 3.8% | ↓ |
| | Chennai International Terminals Pvt Ltd (CITPL) | 48.3 | 73.6 | 4.7% | ↓ |
| | Dakshin Bharat Gateway Terminal (DBGT) | 74.8 | 62.7 | 5.0% | ↑ |
| | Haldia International Container Terminal (HICT) | 120.0 | 113.2 | 27.6% | ↑ |
| | International Container Transshipment Terminal, Kochi | 62.5 | 60.7 | 36.1% | ↑ |
| | Kandla International Container Terminal (KICT) | 178.8 | 139.2 | 32.0% | ↑ |
| | Kolkata Dock System (KDS) , Kolkata Port | 40.0 | 44.9 | 4.5% | ↓ |
| | Mangalore Container Terminal Private Limited (MCTPL) | 95.2 | 76.3 | 27.4% | ↑ |
| Nhava Sheva India Gateway Terminal (NSIGT) | 52.3 | 52.3 | 3.0% | ↓ | |
| Nhava Sheva International Container Terminal (NSICT) | 49.7 | 54.1 | 3.2% | ↓ | |
| PSA SICAL Terminals | 77.9 | 107.3 | - | ↓ | |
| Visakha Container Terminal | 57.8 | 48.7 | 13.1% | ↑ | |

↑ The marked entries showcase increase in performance in comparison to Nov'23

↓ The marked entries showcase decrease in performance in comparison to Nov'23

Note: number of boxes % is domestic number of boxes out of total where total = EXIM number of boxes + Domestic number of boxes.

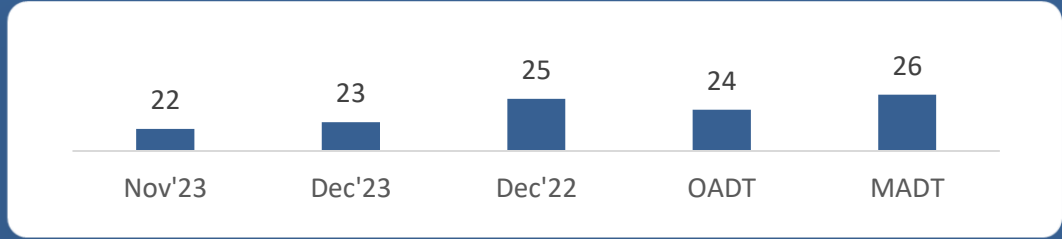
02

WESTERN REGION PERFORMANCE



Import Cycle Dwell Time Performance: Western Region

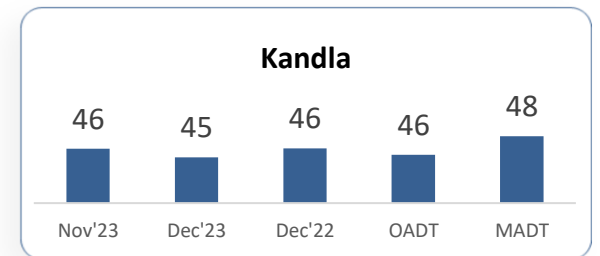
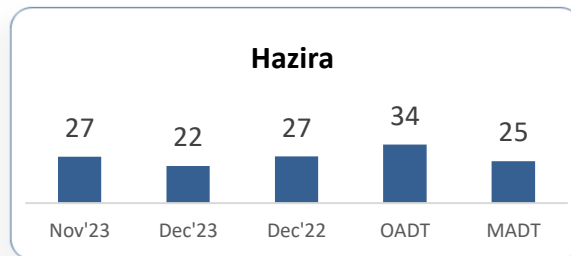
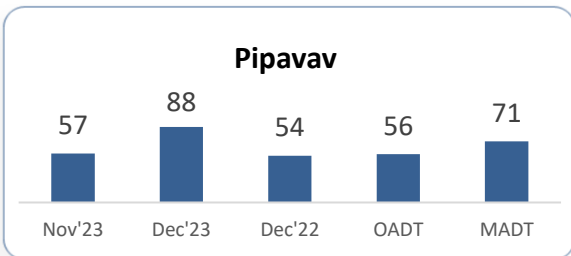
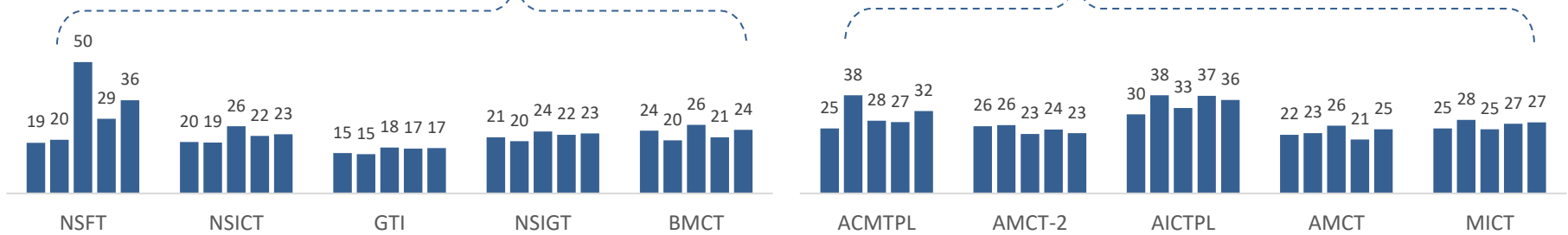
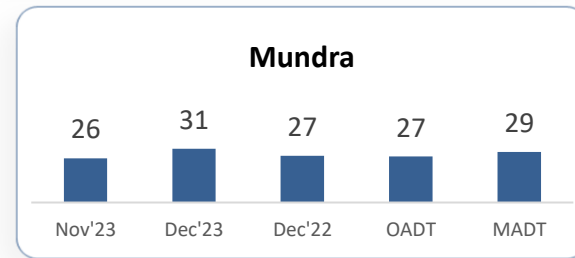
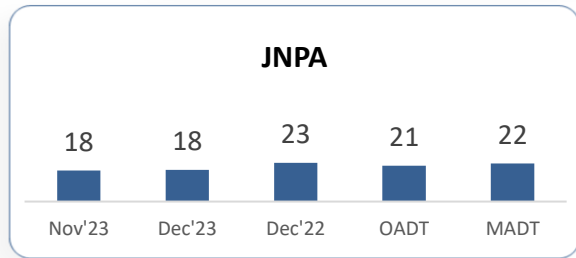
Western Region



PAN India Average

30.8 Hrs.
(Dec'23)

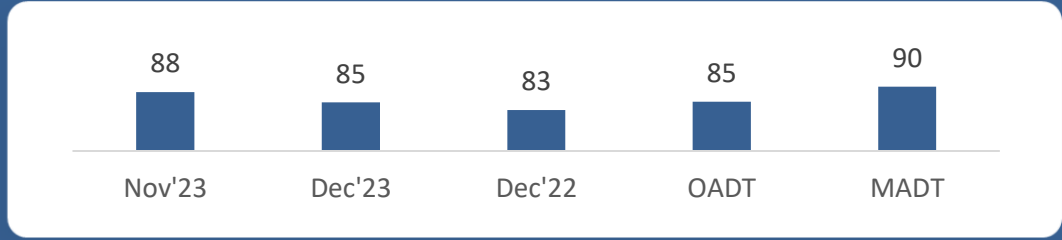
IMPORT



OADT – Overall Avg Dwell Time: Overall average since inception
MADT – Monthly Avg Dwell Time: Past five year's average of same month

Export Cycle Dwell Time Performance: Western Region

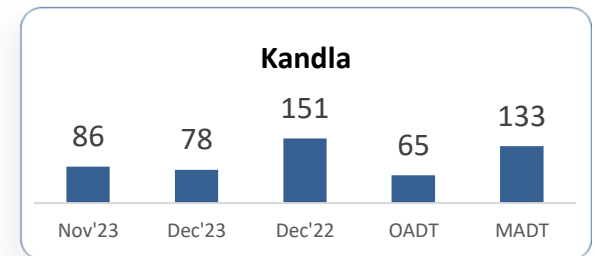
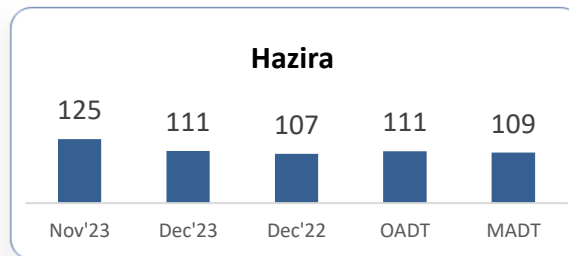
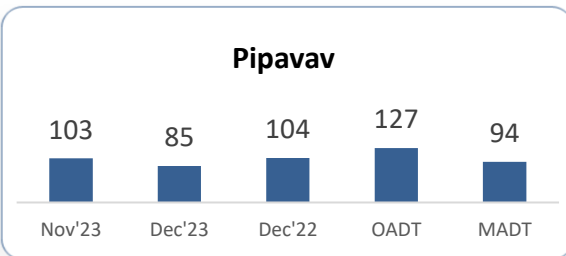
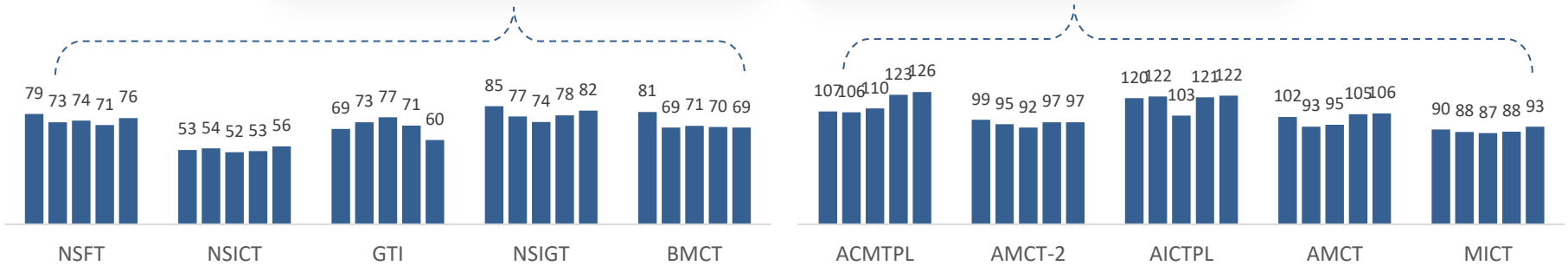
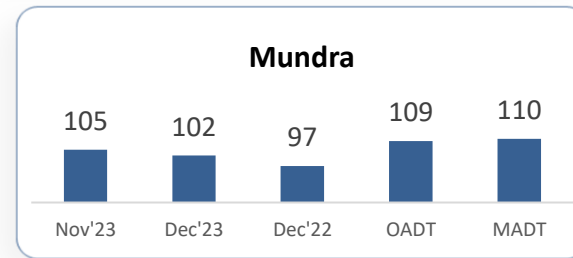
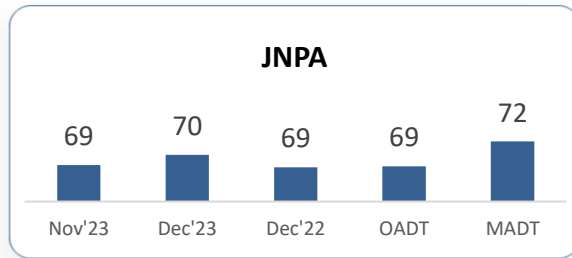
Western Region



PAN India Average

85.2 Hrs.
(Dec'23)

EXPORT

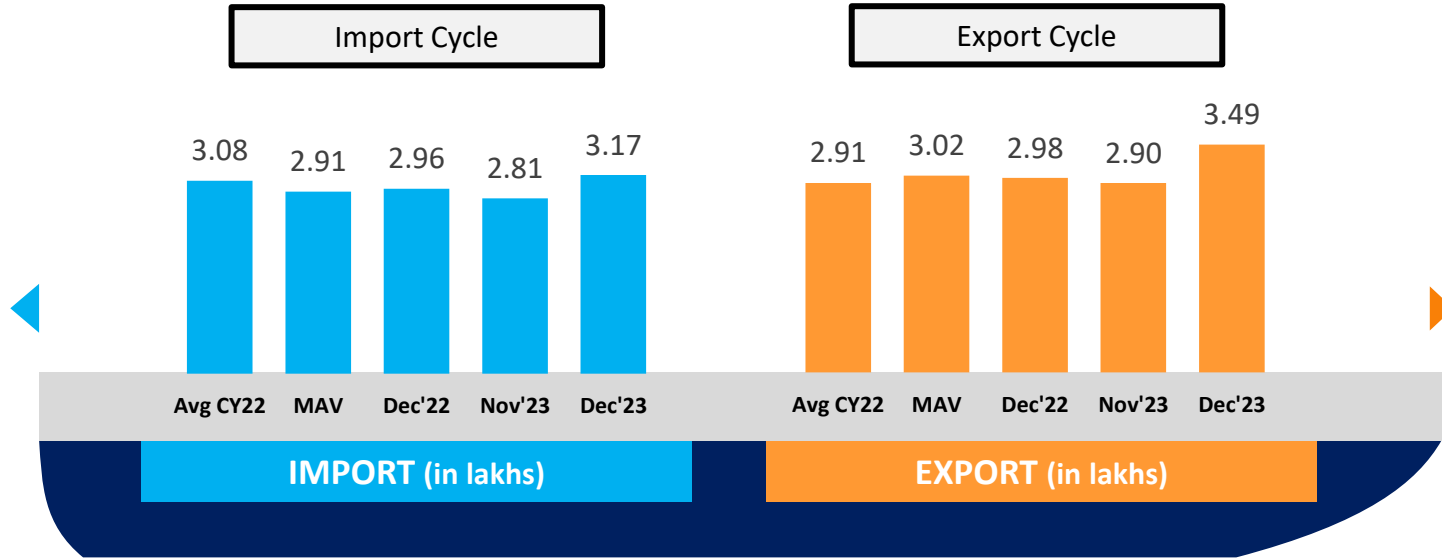


OADT – Overall Avg Dwell Time: Overall average since inception
MADT – Monthly Avg Dwell Time: Past five year's average of same month

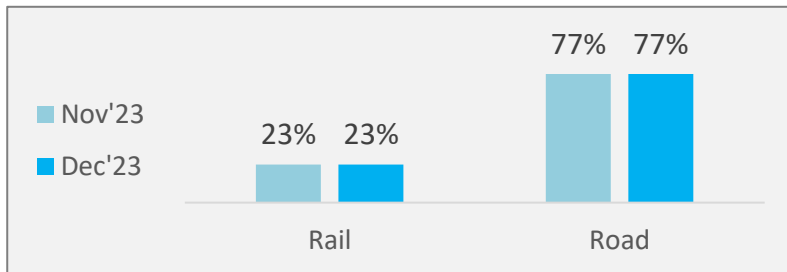
Container Count: Western Region

Container count analysis showcase the number of boxes over the time period for all the ports.

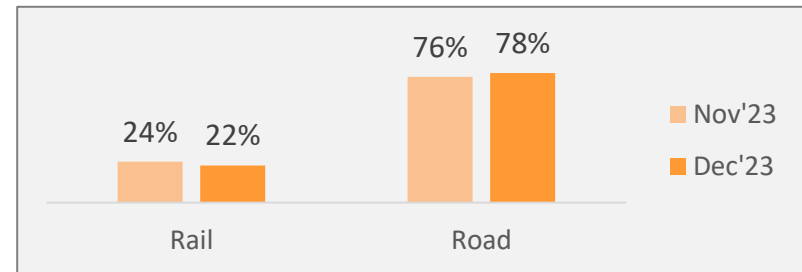
Western Region



Import number of boxes



Export number of boxes



Avg CY22 – Avg from Jan22 to Dec22

MAV – Past five year's similar month average of the boxes

Container Turnaround Analysis: Western Region

The Container Turnaround Analysis showcase the containers number of boxes percentage retained by the respective ports. Here we have analyzed the number of containers getting imported and exported from the same port along with its time duration from the cycle.

| Port In (Import Cycle) | Port Out (Export Cycle) | No. of Boxes Handled (in Percentage) | | | Turnaround Time (in Days) | | |
|---------------------------|----------------------------|---|--------|--------|------------------------------|--------|--------|
| | | Dec'22 | Nov'23 | Dec'23 | Dec'22 | Nov'23 | Dec'23 |
| JNPA | JNPA | 95% | 95% | 95% | 31.1 | 28.7 | 28.0 |
| | Other Ports | 5% | 5% | 5% | 59.7 | 55.9 | 61.8 |
| Mundra | Mundra | 97% | 94% | 94% | 44.2 | 37.7 | 39.7 |
| | Other Ports | 3% | 6% | 6% | 54.7 | 53.5 | 50.9 |
| Hazira | Hazira | 96% | 96% | 98% | 53.0 | 38.4 | 46.8 |
| | Other Ports | 4% | 4% | 2% | 45.1 | 79.6 | 78.8 |
| Kandla | Kandla | 92% | 85% | 88% | 12.6 | 49.1 | 46.8 |
| | Mundra | 8% | 14% | 11% | 99.8 | 54.3 | 59.8 |
| | Other Ports | 0% | 1% | 1% | 24.3 | 44.0 | 50.6 |
| Pipavav | Mundra | 51% | 52% | 45% | 49.1 | 45.1 | 44.1 |
| | Pipavav | 46% | 45% | 52% | 35.2 | 29.1 | 31.1 |
| | Other Ports | 3% | 3% | 3% | 49.5 | 43.4 | 49.5 |

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|------|---|
| | | Train | 61.4 | 75.4 | ↓ |
| | | Truck | 17.6 | 18.0 | ↓ |
| | | Overall | 22.3 | 23.0 | ↓ |

| EXPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|-------|---|
| | | Train | 112.3 | 107.9 | ↑ |
| | | Truck | 83.7 | 81.2 | ↑ |
| | | Overall | 88.3 | 85.1 | ↑ |

Port Dwell Time – Export Cycle

CFS/ ICD Dwell Time

| | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--|--------------------|--------------------|-------|---|
| | CFS | 91.7 | 89.5 | ↑ |
| | ICD | 128.2 | 138.1 | ↓ |

- The marked entries showcase increase in performance in comparison to Nov'23
- The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Export Cycle)

Port Performance Benchmarking: Western Region

The component benchmarks the port terminals by examining dwell time taken by each terminal to crater a given number of container boxes. The values are standardized for comparison



| Abb. | Name of Terminal |
|------|--|
| A | Adani CMA Mundra Terminal (ACMTPL) |
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| L | Adani Mundra Container Terminal-2 (AMCT-2) |

Port Individual Performance Comparison (Previous year same month): Western Region

The component highlights & compare the change in performance of various terminals by examining dwell time taken by each terminal to crater a given number of container boxes in the present month as compared to the same month previous year. The analysis is to understand the extend of improvement individual terminals have done over the course of time.



| Abb. | Name of Terminal |
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X-axis

Change in Dwell time in Dec'23 w.r.t. previous year same month (Dec'22)

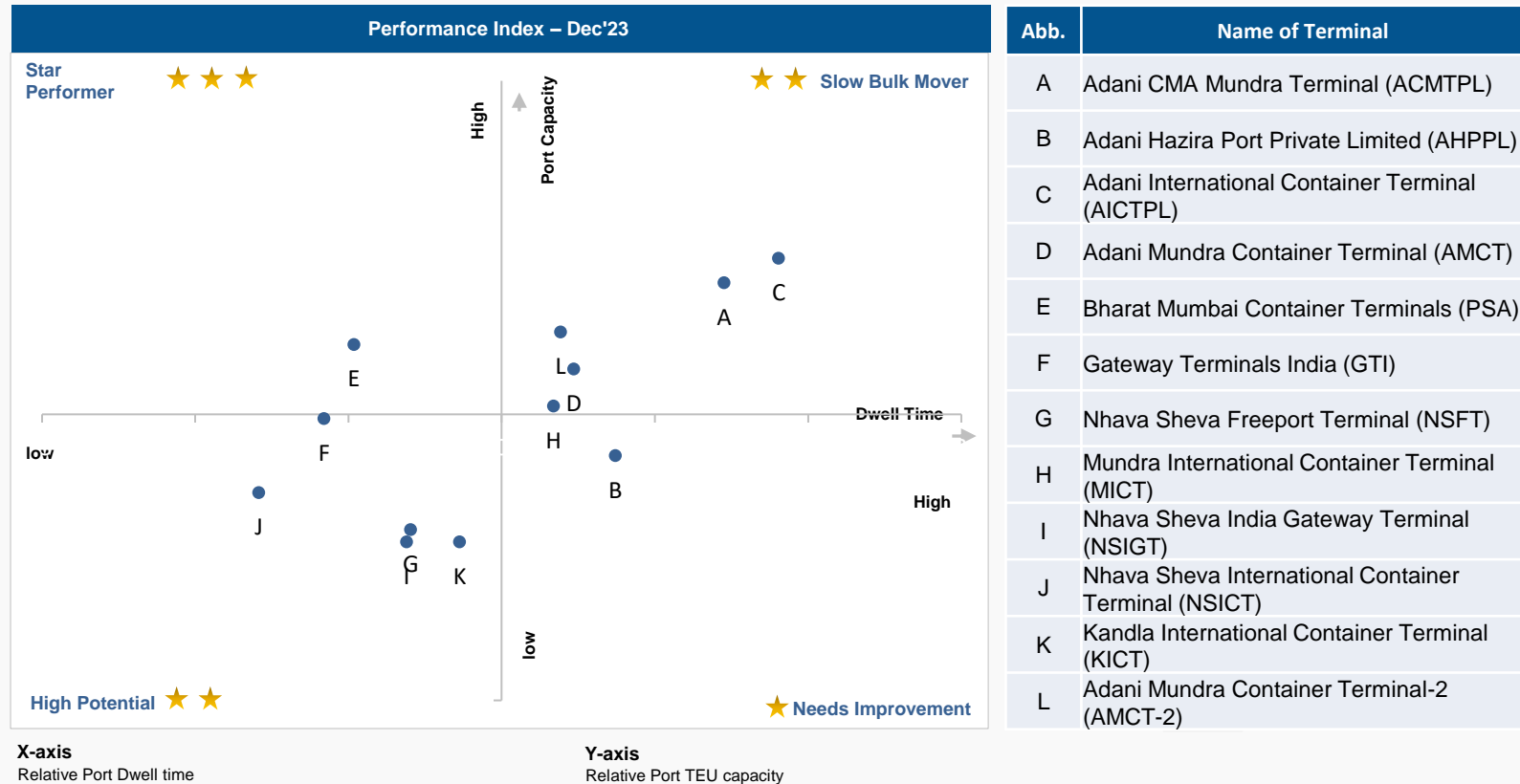
Y-axis

Change in no. of boxes in Dec'23 w.r.t. previous year same month (Dec'22)

Western Region

Port Performance Benchmarking (Based on Capacity & Dwell time): Western Region

The component benchmarks the port terminals by examining dwell time taken by each terminal with respect to their capacity to handle volume (TEU). The values are standardized for comparison.



Western Region

CFS Performance Benchmarking: Western Region



ICD Performance Benchmarking: Western Region



Top Performing ICD

Continental Warehousing Corporation Nhava Sheva pvt.

High Potential ICD

ICD KIFTPL Kashipur

Low Performing ICD

Pegasus Inland Container Depot

Container Transportation: JNPA Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|----------------|--------------------|--------------------|---|
| IMPORT | Train | 53.1 | 62.2 | ↓ |
| | Truck | 15.4 | 15.5 | ↓ |
| | Overall | 18.2 | 18.4 | ↓ |

Transit Time – Import Cycle

| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--|-------------|--------------------|--------------------|---|
| | Port to CFS | 2.40 | 2.18 | ↑ |
| | Port to ICD | 105.5 | 103.1 | ↑ |

CFS/ ICD Dwell Time

| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|---------|-----|--------------------|--------------------|---|
| CFS/ICD | CFS | 88.3 | 84.7 | ↑ |
| | ICD | 128.2 | 138.1 | ↓ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|----------------|--------------------|--------------------|---|
| EXPORT | Train | 71.0 | 82.6 | ↓ |
| | Truck | 69.0 | 68.7 | ↑ |
| | Overall | 69.3 | 70.4 | ↓ |

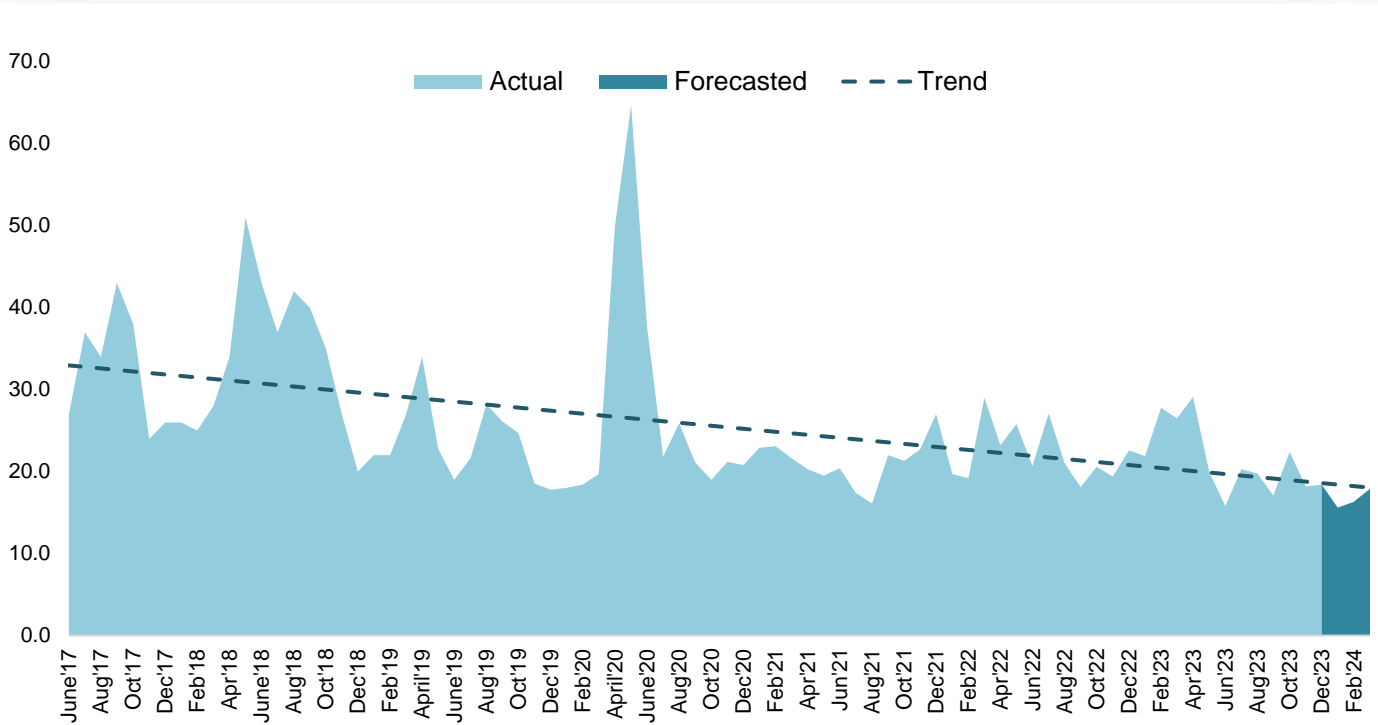
| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--|-------------|--------------------|--------------------|---|
| | CFS to Port | 3.51 | 4.50 | ↓ |
| | ICD to Port | 105.7 | 111.2 | ↓ |

Port Dwell Time – Export Cycle

Transit Time – Export Cycle

Container Lifecycle (Export Cycle)

Predictive Analysis: JNPA Port



Observation

Import Cycle

- JNPA dwell time prediction is based on import dwell time i.e. for import bound containers.
- It has been observed that the overall trend of dwell time is decreasing.
- Due to the cyclic variations in the monthly data, it is expected to reach a local maxima in Mar'24.



| Month | Actual Dwell Time (in hours) | Forecasted Dwell Time (in hours) |
|--------|------------------------------|----------------------------------|
| Oct'23 | 22.4 | 18.5 |
| Nov'23 | 18.2 | 15.8 |
| Dec'23 | 18.4 | 16.2 |
| Jan'24 | - | 15.6 |
| Feb'24 | - | 16.3 |
| Mar'24 | - | 17.9 |

Actual Dwell Time (in hours)

Forecasted Dwell Time (in hours)

JNPA Port Terminal: Container Transportation

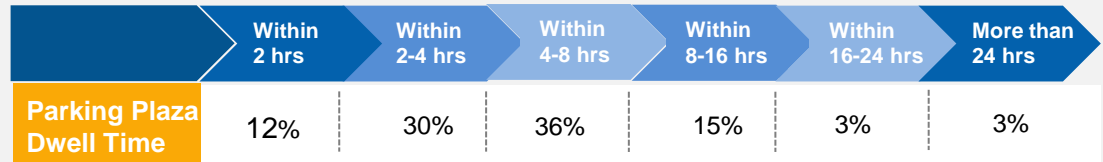
| Import Cycle | Particulars | | Nov'23 (in hrs) | Dec'23 (in hrs) |
|------------------------------------|-------------|--------------------|--------------------|--------------------|
| | Dwell Time | Overall Dwell Time | | 18.2 |
| Truck Bound Containers | | 15.4 | 15.5 | |
| Train Bound Containers | | 53.1 | 62.2 | |
| Direct Port Entry (DPE) containers | | 22.1 | 23.7 | |
| Containers bound for CFS | | 14.0 | 15.1 | |
| Empty Containers | | 22.0 | 22.6 | |
| Laden Containers | | 17.7 | 18.0 | |
| Transit Time | Port to CFS | | 105.7 | 103.1 |
| | Port to ICD | | 2.40 | 2.18 |
| Export Cycle | Particulars | | Nov'23 (in hrs) | Dec'23 (in hrs) |
| | Dwell Time | Overall Dwell Time | | 69.3 |
| Truck Bound Containers | | 69.0 | 68.7 | |
| Train Bound Containers | | 71.0 | 82.6 | |
| Direct Port Entry (DPE) containers | | 76.1 | 76.6 | |
| Containers bound for CFS | | 68.4 | 64.9 | |
| Empty Containers | | 64.0 | 65.0 | |
| Laden Containers | | 71.8 | 74.4 | |
| Transit Time | CFS to Port | | 105.7 | 111.2 |
| | ICD to Port | | 3.51 | 4.50 |

JNPA Region: Parking Plaza Dwell Time Analysis

Parking Plaza Dwell Time & Parking Plaza to Port Transit Performance at JNPA Port Terminals and their number of boxes distribution

| Gate In - Gate Out | Nov'23 (in hrs) | Dec'23 (in hrs) |
|--------------------------|-----------------|-----------------|
| Parking Plaza Dwell Time | 5.30 | 4.32 |

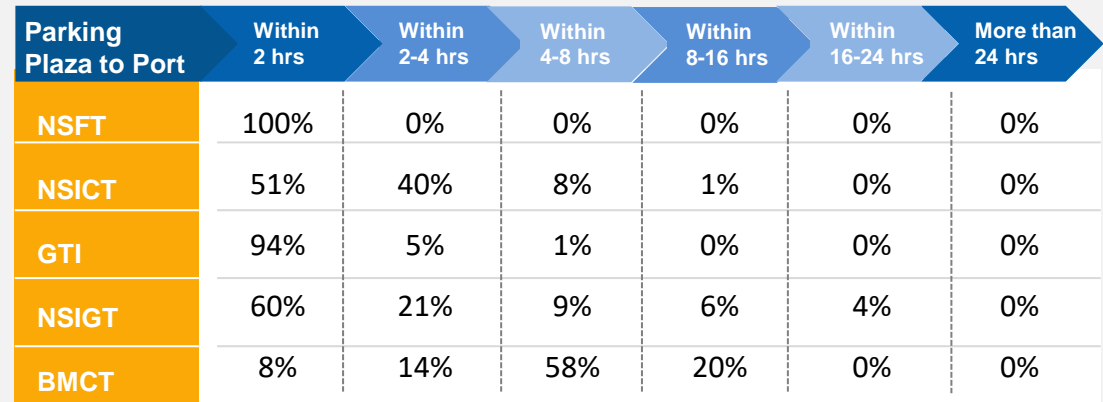
Container Count Percentage: Hour-wise (Dec'23)



| Gate Out – Terminal In | Nov'23 (in hrs) | Dec'23 (in hrs) |
|----------------------------|-----------------|-----------------|
| Parking Plaza to JNPA Port | 1.22 | 0.97 |

| Port | Nov'23 (in hrs) | Dec'23 (in hrs) |
|-------|-----------------|-----------------|
| NSFT | 1.2 | 0.6 |
| NSICT | 1.2 | 2.0 |
| GTI | 0.5 | 0.7 |
| NSIGT | 1.1 | 1.5 |
| BMCT | 2.8 | 6.2 |

Container Count Percentage: Hour-wise (Dec'23)



Container Transportation: Mundra Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|----------------|--------------------|--------------------|---|
| IMPORT | Train | 67.5 | 86.7 | ↓ |
| | Truck | 18.1 | 20.7 | ↓ |
| | Overall | 25.7 | 31.3 | ↓ |

Transit Time – Import Cycle

| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--|-------------|--------------------|--------------------|---|
| | Port to CFS | 0.83 | 0.95 | ↓ |
| | Port to ICD | 74.1 | 85.6 | ↓ |

CFS/ ICD Dwell Time

| | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|-----|--------------------|--------------------|---|
| CFS | 97.0 | 96.3 | ↑ |
| ICD | 128.2 | 138.1 | ↓ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|----------------|--------------------|--------------------|---|
| EXPORT | Train | 133.9 | 127.5 | ↑ |
| | Truck | 96.4 | 95.3 | ↑ |
| | Overall | 104.5 | 101.9 | ↑ |

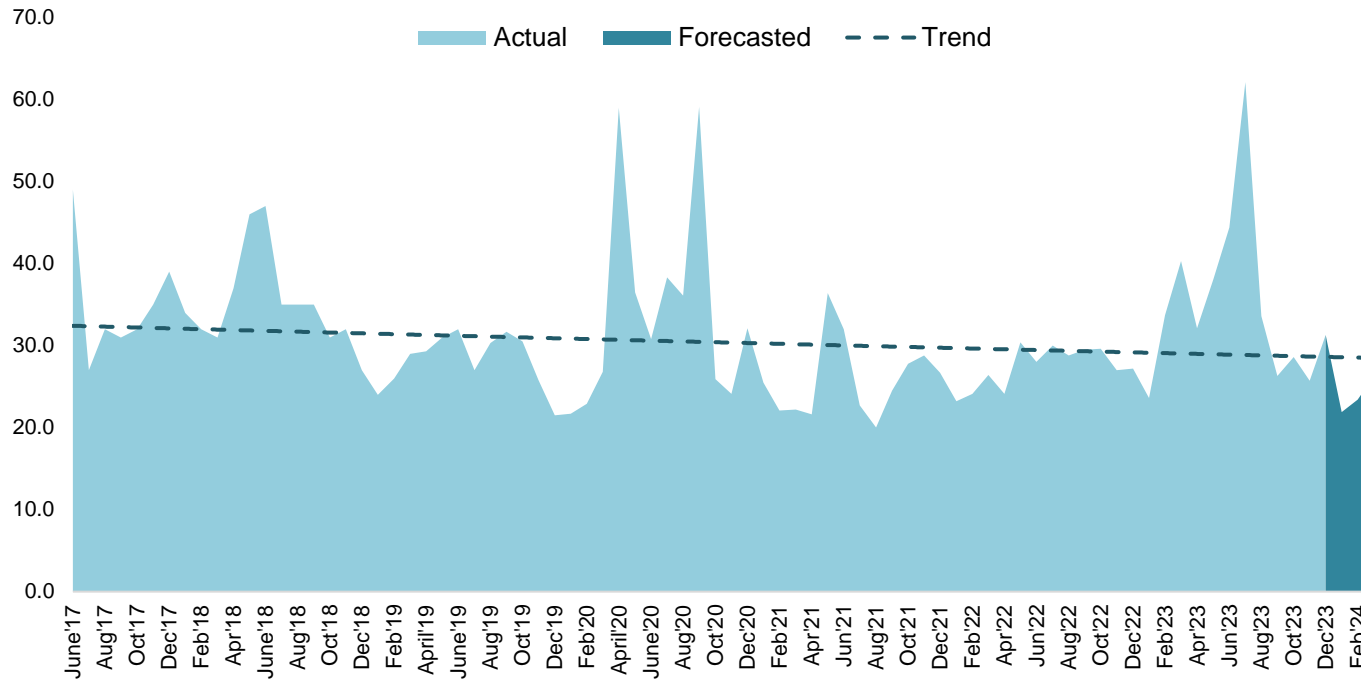
| | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--|-------------|--------------------|--------------------|---|
| | CFS to Port | 0.73 | 0.59 | ↑ |
| | ICD to Port | 81.6 | 83.9 | ↓ |

Port Dwell Time – Export Cycle

Transit Time – Export Cycle

Container Lifecycle (Export Cycle)

Predictive Analysis: Mundra Port



Observation

Import Cycle

- Mundra dwell time prediction is based on import dwell time i.e. for import bound containers.
- It has been observed that the overall trend of dwell time is decreasing.
- Due to the cyclic variations in the monthly data it is expected to reach a local maxima in Mar'24.



| | Oct'23 | Nov'23 | Dec'23 | Jan'24 | Feb'24 | Mar'24 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Actual Dwell Time (in hours) | ○ | ○ | ○ | ○ | ○ | ○ |
| | 28.6 | 25.7 | 31.3 | - | - | - |
| Forecasted Dwell Time (in hours) | | | | | | |
| | 25.1 | 25.0 | 25.1 | 21.9 | 23.4 | 26.3 |

Mundra Port Terminal: Container Transportation

| Import Cycle | Particulars | | Nov'23 (in hrs) | Dec'23 (in hrs) |
|--------------|--------------|------------------------|--------------------|--------------------|
| | Dwell Time | Overall Dwell Time | 25.7 | 31.3 |
| | | Truck Bound Containers | 18.1 | 20.7 |
| | | Train Bound Containers | 67.5 | 86.7 |
| | Transit Time | Port to CFS | 74.1 | 85.6 |
| Port to ICD | | 0.83 | 0.95 | |

| Export Cycle | Particulars | | Nov'23 (in hrs) | Dec'23 (in hrs) |
|--------------|--------------|------------------------|--------------------|--------------------|
| | Dwell Time | Overall Dwell Time | 104.5 | 101.9 |
| | | Truck Bound Containers | 96.4 | 95.3 |
| | | Train Bound Containers | 133.9 | 127.5 |
| | Transit Time | CFS to Port | 81.6 | 83.9 |
| ICD to Port | | 0.73 | 0.59 | |

Container Transportation: Pipavav Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| | | | | |
|---------------|----------------|---------------------------|---------------------------|--|
| IMPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
| | Overall | 57.0 | 87.8 | |



CFS Dwell Time

| | | | | |
|------------|------------|---------------------------|---------------------------|--|
| CFS | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
| | CFS | 82.8 | 71.6 | |



| | | | | |
|---------------|----------------|---------------------------|---------------------------|--|
| EXPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
| | Overall | 102.7 | 84.8 | |

Port Dwell Time – Export Cycle

- The marked entries showcase increase in performance in comparison to Nov'23
- The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Export Cycle)

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|--------------------|--------------------|------|
| | Overall | 46.3 | 45.3 |

| EXPORT | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|--------------------|--------------------|------|
| | Overall | 85.5 | 78.1 |

Port Dwell Time – Export Cycle

Container Lifecycle (Export Cycle)



The marked entries showcase increase in performance in comparison to Nov'23



The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|---------|--------------------|--------------------|---|
| | Overall | 27.1 | 21.7 | ↑ |



CFS Dwell Time

| CFS | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|-----|-----|--------------------|--------------------|---|
| | CFS | 104.1 | 69.2 | ↑ |



| EXPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|---------|--------------------|--------------------|---|
| | Overall | 124.8 | 110.9 | ↑ |

Port Dwell Time – Export Cycle



The marked entries showcase increase in performance in comparison to Nov'23



The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Export Cycle)

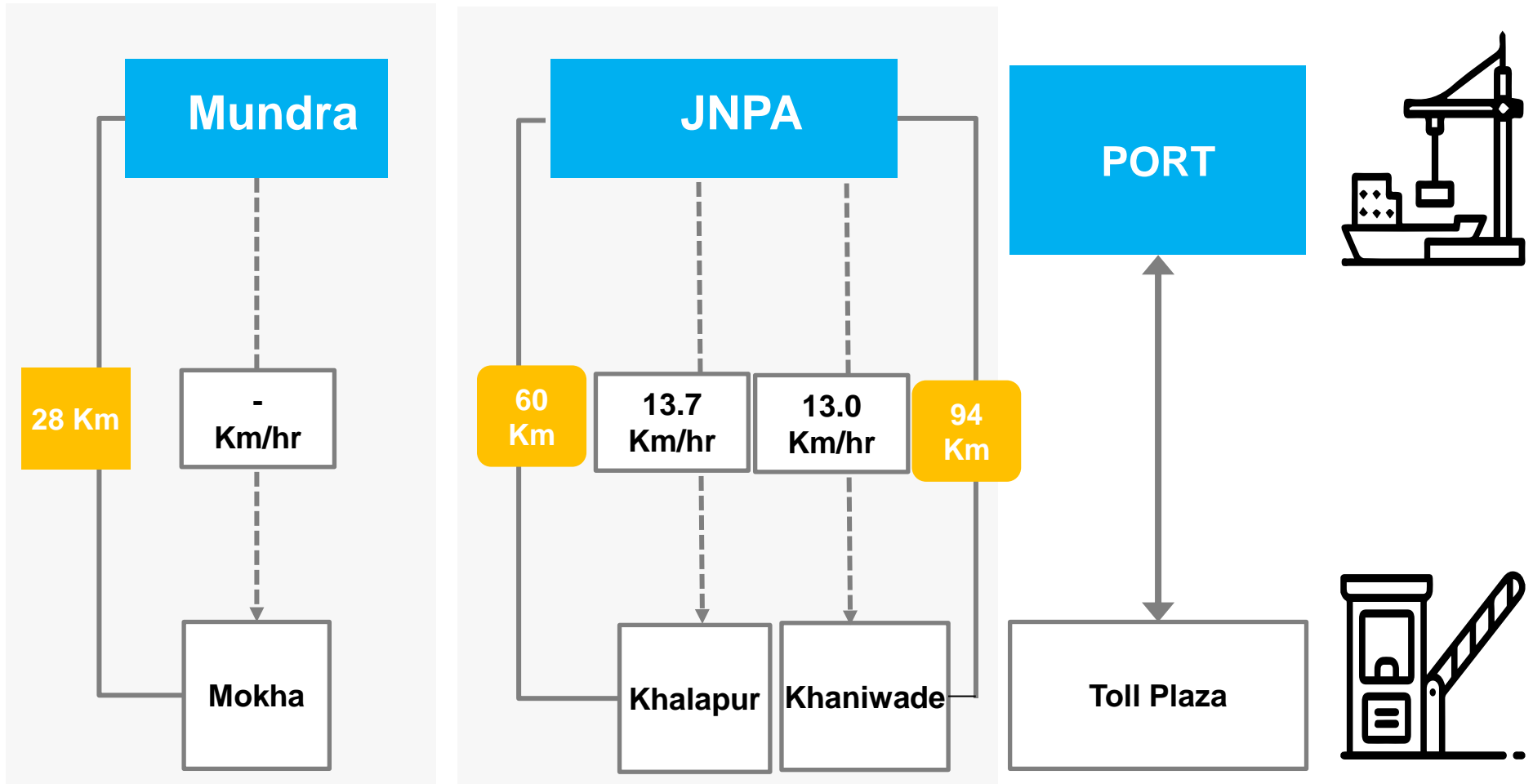
Toll Plaza Analysis: Western Region

The average speed taken by trucks to cover the distance between Port terminal to the nearest Toll Plaza, and from one Toll Plaza to next Toll Plaza:

| Route | Source | Destination | Inter Distance (Km) | Speed (in km/hrs.) |
|--------------------------------------|-----------------|-------------------|---------------------|--------------------|
| JNPA to Vasad (Route 1) | JNPA | Khaniwade –NH8 | 94 | 13.0 |
| | Khaniwade – NH8 | Charoti – NH8 | 50 | 32.7 |
| | Charoti – NH8 | Boriach | 126 | 22.0 |
| | Boriach | Bharthan | 142 | 32.5 |
| | Bharthan | Vasad | 60 | 29.7 |
| JNPA to Khedshivpur (Route 2) | JNPA | Khalapur – NH4 | 60 | 13.7 |
| | Khalapur – NH4 | Khedshivpur – NH4 | 105 | 25.9 |

Evacuation Efficiency Analysis: Western Region

Average speed taken by trucks to cover the distance between a Port terminal to the nearest Toll Plaza



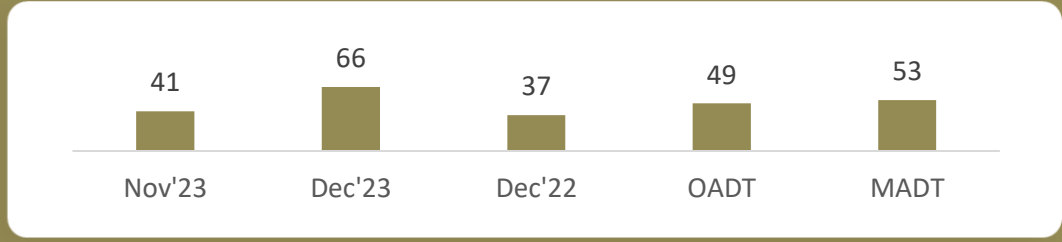
03

SOUTHERN REGION PERFORMANCE



Import Cycle Dwell Time Performance: Southern Region

Southern Region

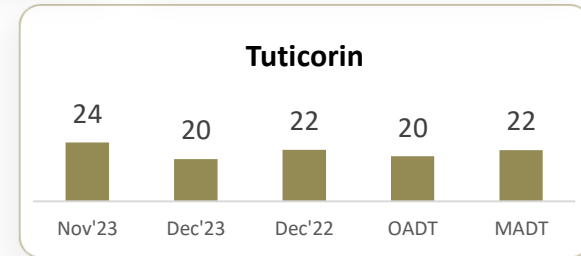
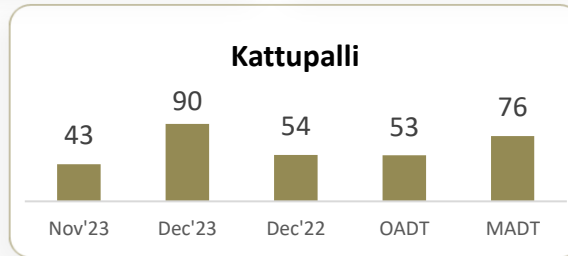
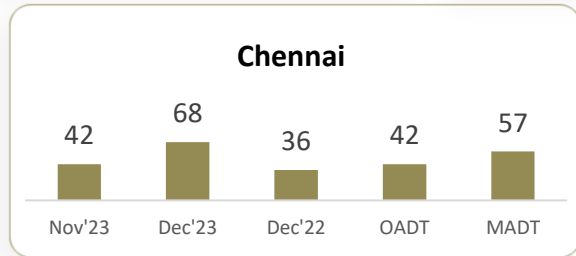
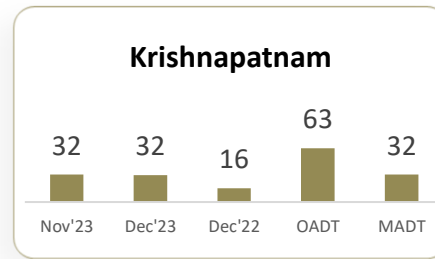
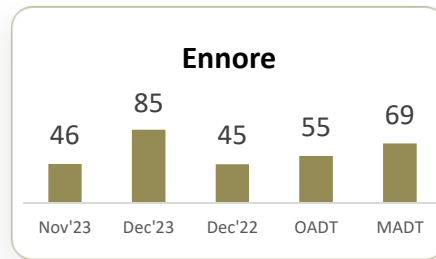
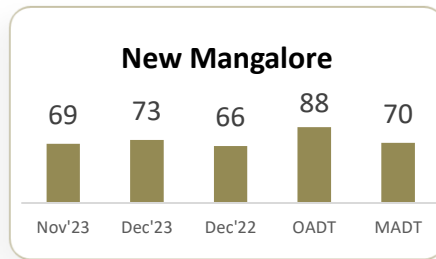
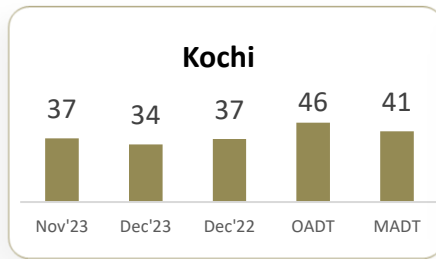


PAN India Average

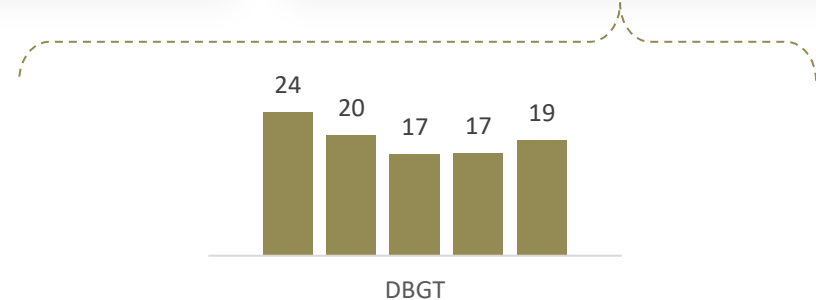
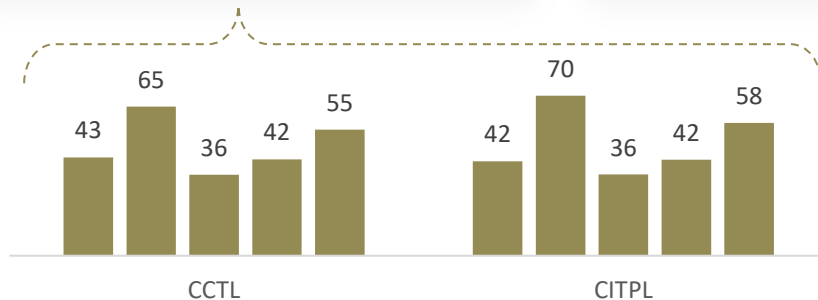
30.8 Hrs.
(Dec'23)

IMPORT

Ports



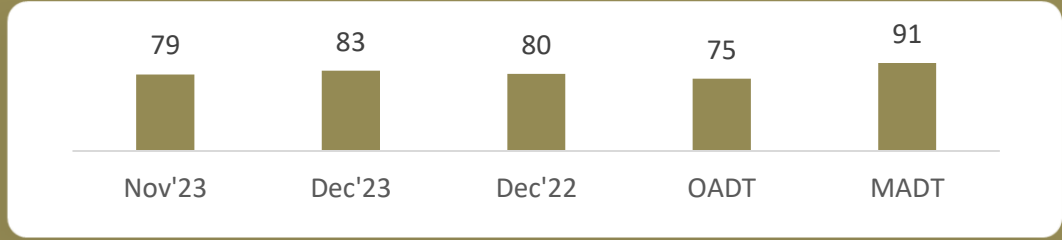
Terminals



OADT – Overall Avg Dwell Time: Overall average since inception
MADT – Monthly Avg Dwell Time: Past five year's average of same month

Export Cycle Dwell Time Performance: Southern Region

Southern Region

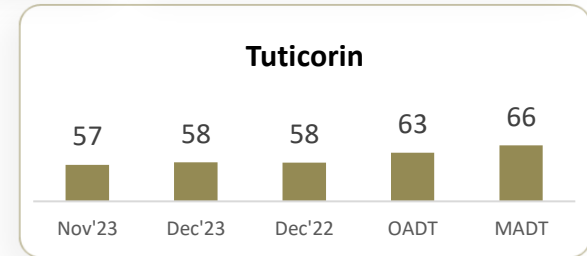
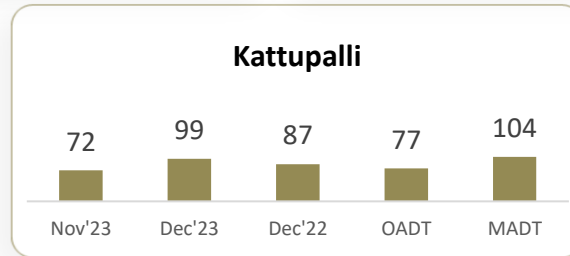
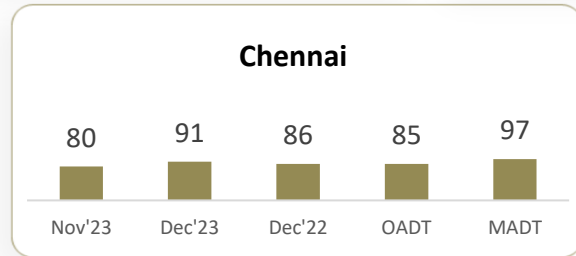
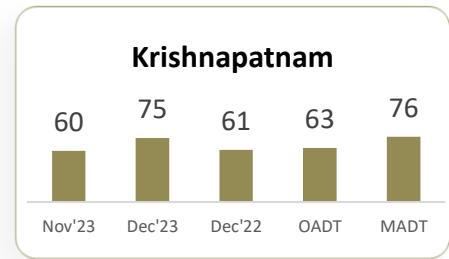
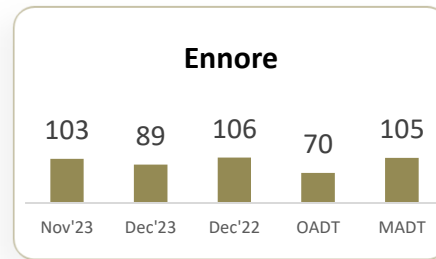
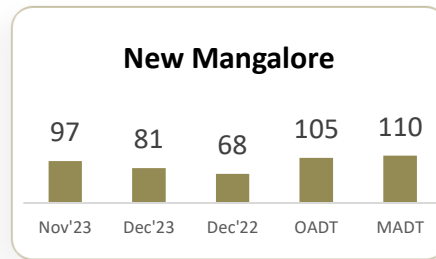
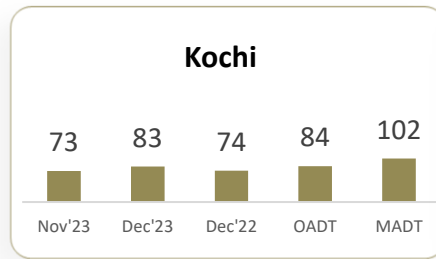


PAN India Average

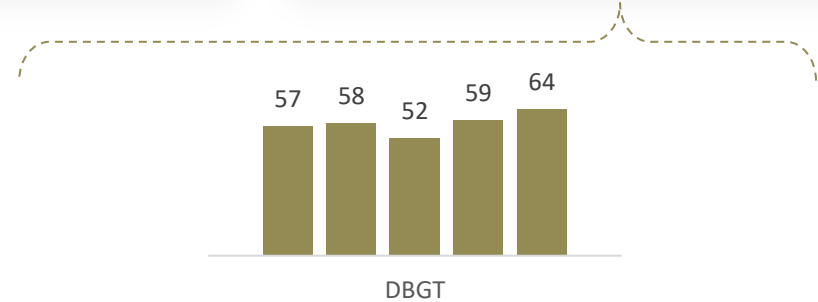
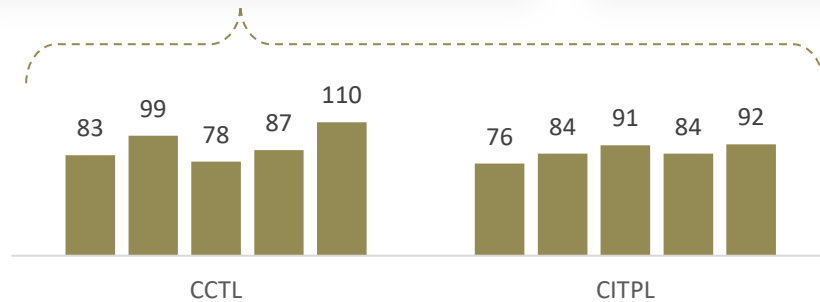
85.2 Hrs.
(Dec'23)

EXPORT

Ports



Terminals



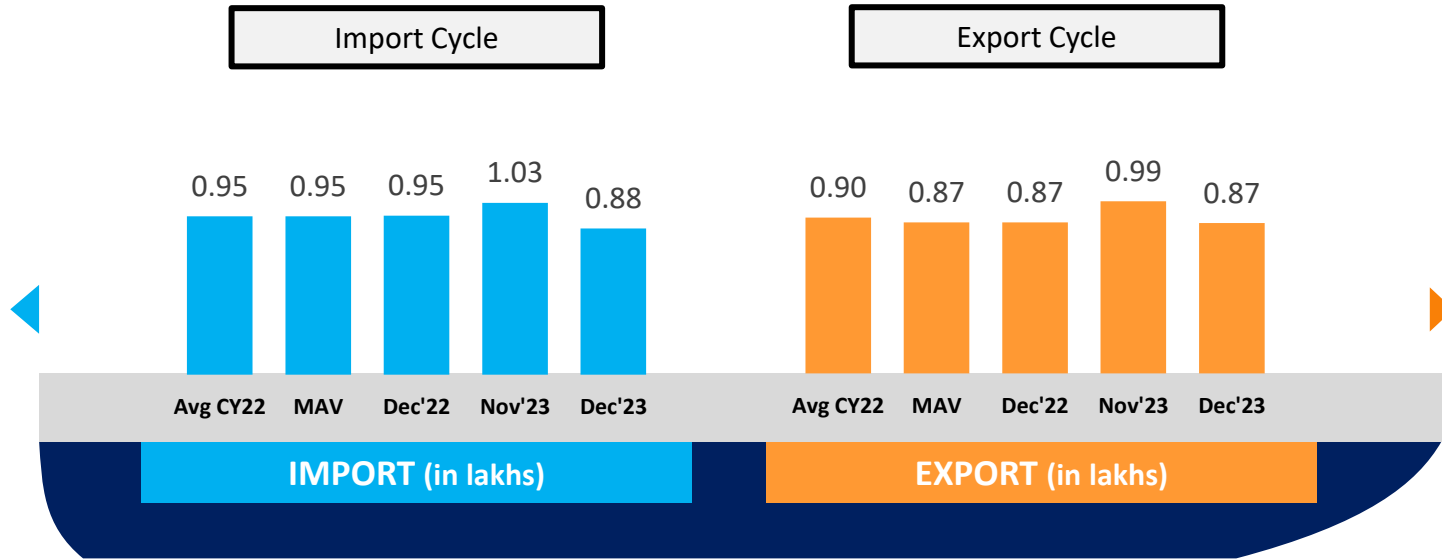
OADT – Overall Avg Dwell Time: Overall average since inception.

MADT – Monthly Avg Dwell Time: Past five year's average of same month

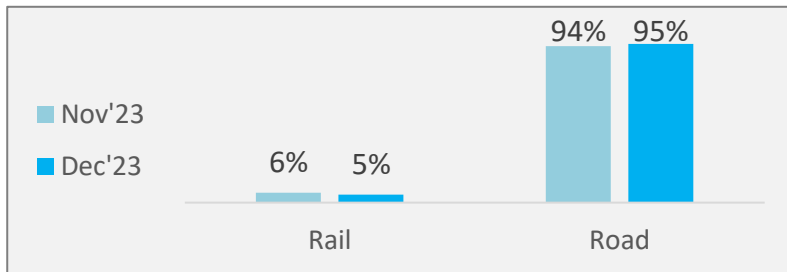
Container Count: Southern Region

Container count analysis showcase the number of boxes over the time period for all the ports.

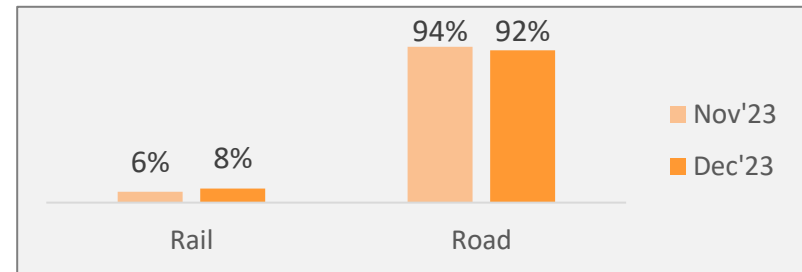
Southern Region



Import number of boxes



Export number of boxes



Avg CY22 – Avg from Jan22 to Dec22

MAV – Past five year's similar month average of the boxes

Container Turnaround Analysis: Southern Region

The Container Turnaround Analysis showcase the containers number of boxes percentage retained by the respective ports. Here we have analyzed the number of containers getting imported and exported from the same port along with its time duration from the cycle.

| Port In (Import Cycle) | Port Out (Export Cycle) | No. of Boxes Handled (in Percentage) | | | Turnaround Time (in Days) | | |
|---------------------------|----------------------------|---|--------|--------|------------------------------|--------|--------|
| | | Dec'22 | Nov'23 | Dec'23 | Dec'22 | Nov'23 | Dec'23 |
| Kochi | Kochi | 100% | 100% | 100% | 21.3 | 22.6 | 24.8 |
| | Other Ports | 0% | 0% | 0% | - | - | - |
| Ennore | Ennore | 95% | 92% | 87% | 28.5 | 28.1 | 26.4 |
| | Other Ports | 5% | 8% | 13% | 42.5 | 33.6 | 30.5 |
| Tuticorin | Tuticorin | 100% | 100% | 100% | 26.2 | 31.8 | 36.8 |
| | Other Ports | 0% | 0% | 0% | - | - | - |
| Chennai | Chennai | 79% | 78% | 74% | 25.5 | 22.9 | 27.1 |
| | Kattupalli | 18% | 19% | 22% | 27.9 | 23.2 | 28.6 |
| | Other Ports | 3% | 3% | 4% | 52.0 | 31.6 | 36.7 |
| Kattupalli | Kattupalli | 75% | 62% | 63% | 36.9 | 30.0 | 32.0 |
| | Chennai | 24% | 37% | 35% | 26.2 | 25.6 | 29.6 |
| | Other Ports | 1% | 1% | 2% | 54.4 | 41.9 | 61.6 |

Container Transportation: Southern Region

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|-------------|---|
| | | Train | 48.7 | 57.9 | ↓ |
| | | Truck | 40.9 | 66.4 | ↓ |
| | | Overall | 41.1 | 66.2 | ↓ |

| EXPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|-------------|---|
| | | Train | 102.2 | 83.0 | ↑ |
| | | Truck | 78.3 | 83.3 | ↓ |
| | | Overall | 79.3 | 83.3 | ↓ |

Port Dwell Time – Export Cycle

CFS Dwell Time

| | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--|--------------------|--------------------|-------|---|
| | CFS | 110.1 | 110.2 | ↓ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Export Cycle)

Port Performance Benchmarking: Southern Region

The component benchmarks the port terminals by examining dwell time taken by each terminal to crater a given number of container boxes. The values are standardized for comparison

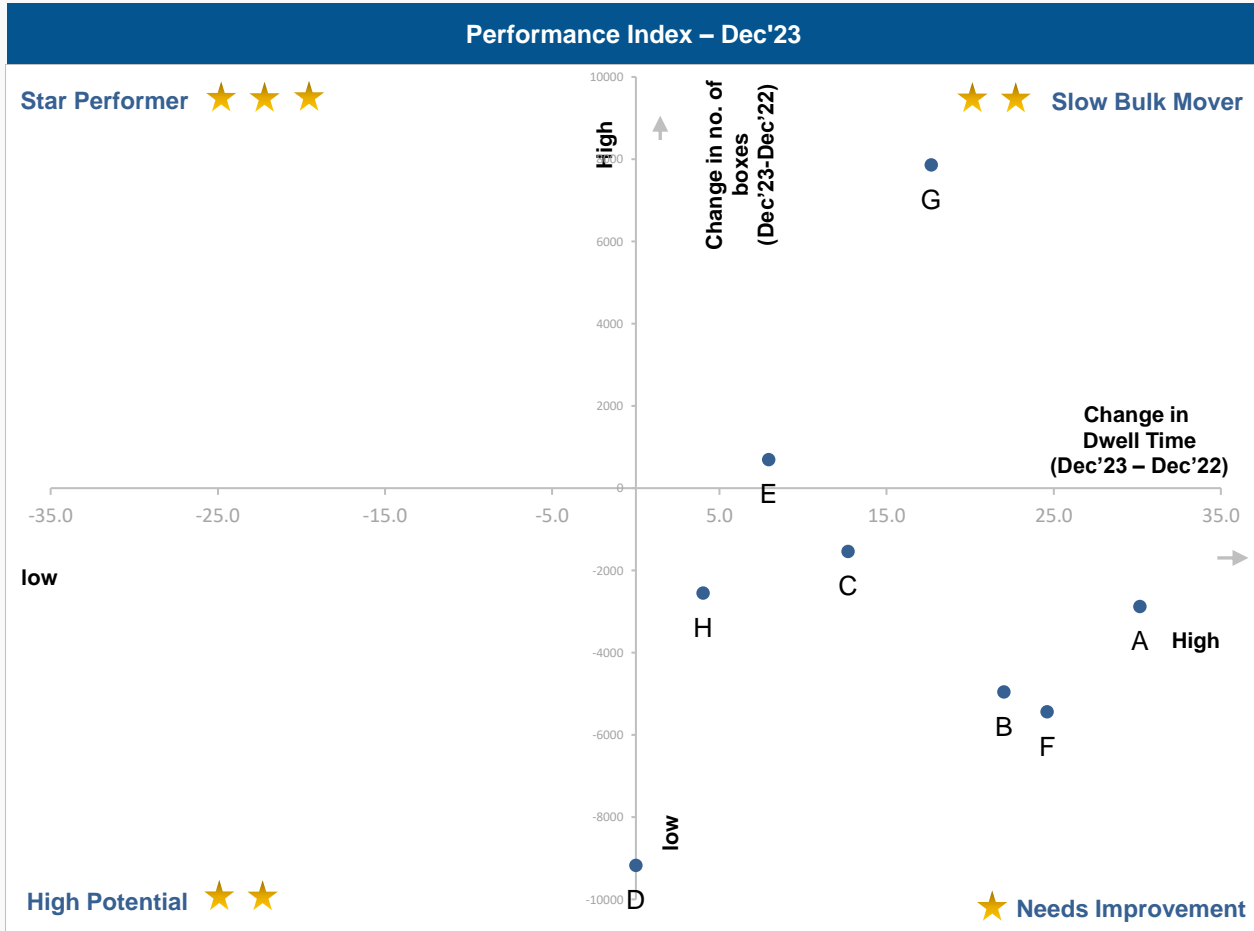


| Abb. | Name of Terminal |
|------|---|
| A | Chennai Container Terminal Pvt. Ltd. (CCTL) |
| B | Chennai International Terminals Pvt Ltd (CITPL) |
| C | Dakshin Bharat Gateway Terminal (DBGT) |
| D | PSA SICAL Terminals |
| E | International Container Transhipment Terminal, Kochi |
| F | Adani Kattupalli Port Private Limited (AKPPL) |
| G | Mangalore Container Terminal Private Limited (MCTPL) |
| H | Adani Ennore Container Terminal |
| I | Adani Krishnapatnam Container Terminal Pvt Ltd (AKCTPL) |

Southern Region

Port Individual Performance Comparison (Previous year same month): Southern Region

The component highlights & compare the change in performance of various terminals by examining dwell time taken by each terminal to crater a given number of container boxes in the present month as compared to the same month previous year. The analysis is to understand the extend of improvement individual terminals have done over the course of time.



| Abb. | Name of Terminal |
|------|--|
| A | Chennai Container Terminal Pvt. Ltd. (CCTL) |
| B | Chennai International Terminals Pvt Ltd (CITPL) |
| C | Dakshin Bharat Gateway Terminal (DBGT) |
| D | PSA SICAL Terminals |
| E | International Container Transhipment Terminal, Kochi |
| F | Adani Kattupalli Port Private Limited (AKPPL) |
| G | New Mangalore Port Trust |
| H | Adani Ennore Container Terminal |

X-axis

Change in Dwell time in Dec'23 w.r.t. previous year same month (Dec'22)

Y-axis

Change in no. of boxes in Dec'23 w.r.t. previous year same month (Dec'22)

Port Performance Benchmarking (Based on Capacity & Dwell time): Southern Region

The component benchmarks the port terminals by examining dwell time taken by each terminal with respect to their capacity to handle volume (TEU). The values are standardized for comparison.



| Abb. | Name of Terminal |
|------|---|
| A | Chennai Container Terminal Pvt. Ltd. (CCTL) |
| B | Chennai International Terminals Pvt Ltd (CITPL) |
| C | Dakshin Bharat Gateway Terminal (DBGT) |
| D | International Container Transshipment Terminal, Kochi |
| E | Adani Kattupalli Port Private Limited (AKPPL) |
| F | Adani Ennore Container Terminal |
| G | Adani Krishnapatnam Container Terminal Pvt Ltd (AKCTPL) |

X-axis
Relative Port Dwell time

Y-axis
Relative Port TEU capacity

CFS Performance Benchmarking: Southern Region



Container Transportation: Chennai Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|----------------|--------------------|-------------|--------------------|--------|
| | Nov'23 | Dec'23 | Nov'23 | Dec'23 |
| Train | 24.2 | 35.5 | ↓ | |
| Truck | 42.9 | 68.6 | ↓ | |
| Overall | 42.3 | 67.9 | ↓ | |

Transit Time – Import Cycle

| | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------------------|--------------------|--------|--------------------|--------|
| | Nov'23 | Dec'23 | Nov'23 | Dec'23 |
| Port to CFS | 2.93 | 3.53 | ↓ | |

CFS Dwell Time

| | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|------------|--------------------|--------|--------------------|--------|
| | Nov'23 | Dec'23 | Nov'23 | Dec'23 |
| CFS | 102.5 | 106.8 | ↓ | |

- The marked entries showcase increase in performance in comparison to Nov'23
- The marked entries showcase decrease in performance in comparison to Nov'23

| | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|----------------|--------------------|-------------|--------------------|--------|
| | Nov'23 | Dec'23 | Nov'23 | Dec'23 |
| Train | 110.8 | 114.8 | ↓ | |
| Truck | 79.1 | 90.1 | ↓ | |
| Overall | 79.5 | 90.5 | ↓ | |

| | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------------------|--------------------|--------|--------------------|--------|
| | Nov'23 | Dec'23 | Nov'23 | Dec'23 |
| CFS to Port | 6.94 | 6.89 | ↑ | |

Port Dwell Time – Export Cycle

Transit Time – Export Cycle

Container Lifecycle (Export Cycle)

Container Transportation: Kochi Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Overall | 37.2 | 33.7 | ↑ |

Transit Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Port to CFS | 0.12 | 0.11 | ↑ |

CFS Dwell Time

| CFS | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|-----|-----------------|-------|-----------------|---|
| | CFS | 144.2 | 103.7 | ↓ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

| EXPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Overall | 72.9 | 82.9 | ↓ |

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | CFS to Port | 0.87 | 1.06 | ↓ |

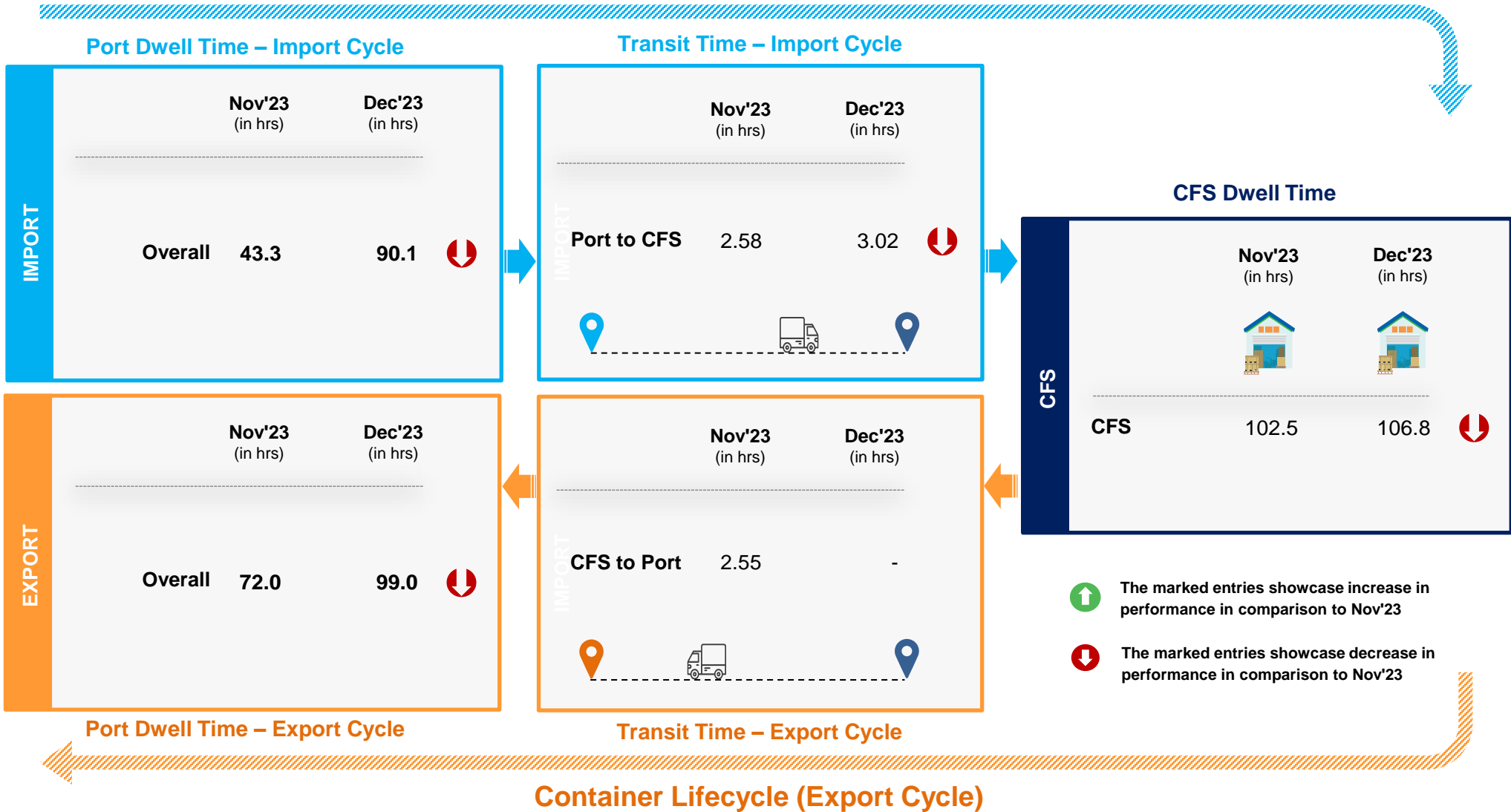
Port Dwell Time – Export Cycle

Transit Time – Export Cycle

Container Lifecycle (Export Cycle)

Container Transportation: Kattupalli Port

Container Lifecycle (Import Cycle)



Container Transportation: Tuticorin Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Overall | 23.7 | 19.8 | ↑ |
| | | | | |

Transit Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Port to CFS | 2.05 | 1.67 | ↑ |
| | | | | |

CFS Dwell Time

| CFS | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|-----|-----------------|-------|-----------------|---|
| | CFS | 140.7 | 127.4 | ↑ |
| | | | | |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

| EXPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Overall | 57.0 | 58.2 | ↓ |
| | | | | |

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | CFS to Port | 1.39 | 2.06 | ↓ |
| | | | | |

Port Dwell Time – Export Cycle

Transit Time – Export Cycle

Container Lifecycle (Export Cycle)

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| | | | | |
|--------|----------------|---------------------------|---------------------------|---|
| IMPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
| | Overall | 32.2 | 31.5 | ↑ |

| | | | | |
|--------|----------------|---------------------------|---------------------------|---|
| EXPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
| | Overall | 59.9 | 74.7 | ↓ |

Port Dwell Time – Export Cycle

CFS Dwell Time

| | | | | |
|-----|------------|---------------------------|---------------------------|---|
| CFS | | Nov'23 (in hrs) | Dec'23 (in hrs) | |
| | CFS | 141.9 | 85.7 | ↑ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Export Cycle)

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|------|---|
| | | Train | 24.7 | 29.2 | ↓ |
| | | Truck | 46.4 | 87.6 | ↓ |
| | | Overall | 45.5 | 85.4 | ↓ |

| EXPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|------|---|
| | | Train | 110.6 | 82.6 | ↑ |
| | | Truck | 102.1 | 89.4 | ↑ |
| | | Overall | 102.7 | 89.0 | ↑ |

Port Dwell Time – Export Cycle

CFS Dwell Time

| | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--|--------------------|--------------------|---------|
| | CFS | 102.5 | 106.8 ↓ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Export Cycle)

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|--------------------|--------------------|------|
| | Overall | 68.7 | 73.4 |

| EXPORT | Nov'23 (in hrs) | Dec'23 (in hrs) | |
|--------|--------------------|--------------------|------|
| | Overall | 97.4 | 81.3 |

Port Dwell Time – Export Cycle

Container Lifecycle (Export Cycle)

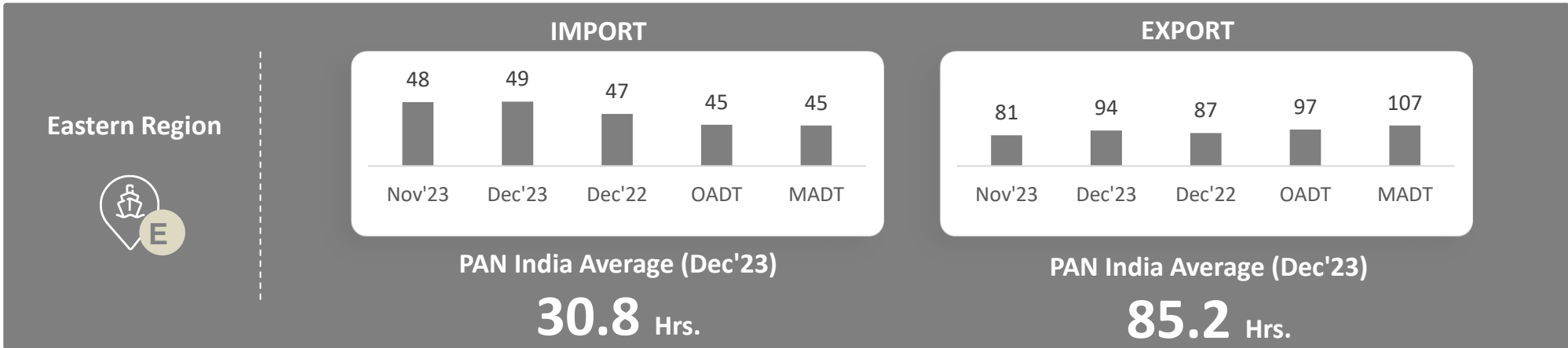
- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

04

EASTERN REGION PERFORMANCE

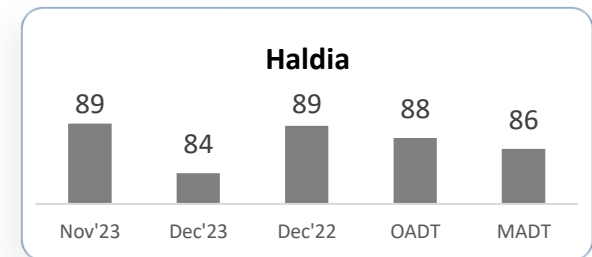
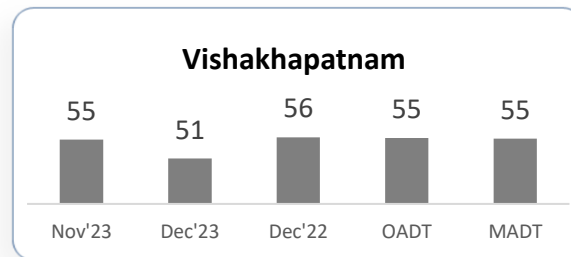
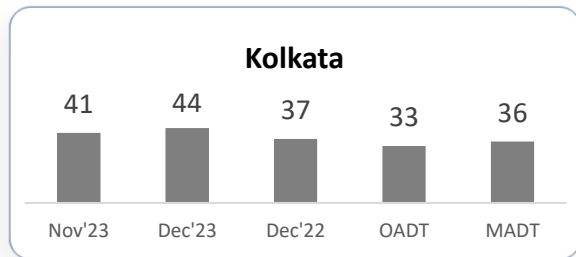


Import/ Export Cycle Dwell Time Performance: Eastern Region



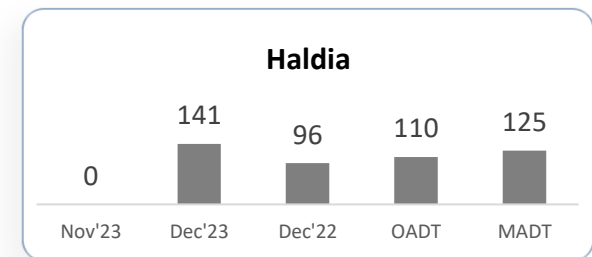
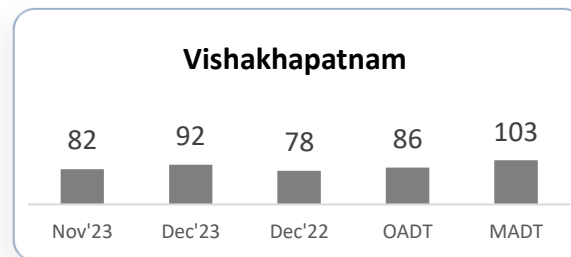
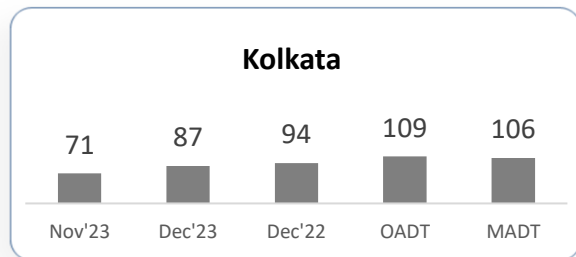
IMPORT

Ports



EXPORT

Ports

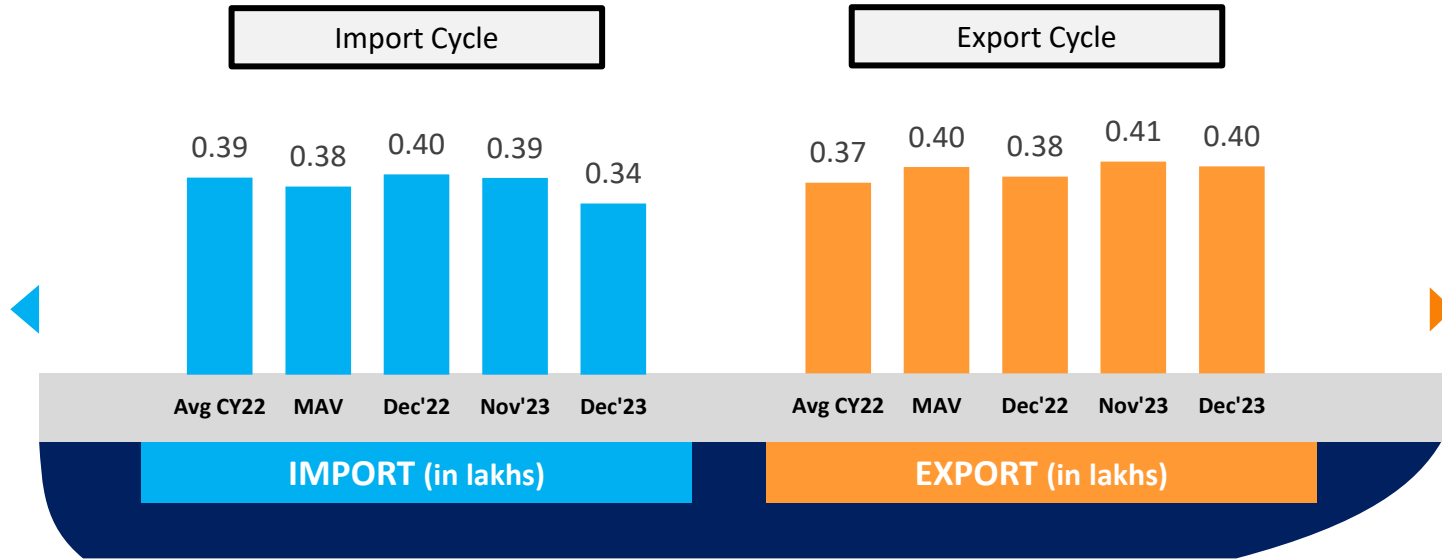


OADT – Overall Avg Dwell Time: Overall average since inception
MADT – Monthly Avg Dwell Time: Past five year's average of same month

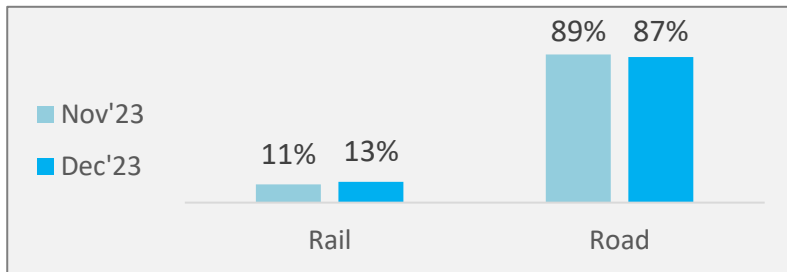
Container Count: Eastern Region

Container count analysis showcase the number of boxes over the time period for all the ports.

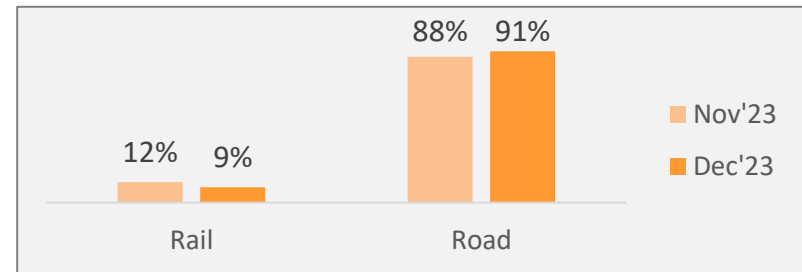
Eastern Region



Import number of boxes



Export number of boxes



Avg CY22 – Avg from Jan22 to Dec22

MAV – Past five year's similar month average of the boxes

Container Turnaround Analysis: Eastern Region

The Container Turnaround Analysis showcase the containers number of boxes percentage retained by the respective ports. Here we have analyzed the number of containers getting imported and exported from the same port along with its time duration from the cycle.

| Port In (Import Cycle) | Port Out (Export Cycle) | No. of Boxes Handled (in Percentage) | | | Turnaround Time (in Days) | | |
|---------------------------|----------------------------|---|--------|--------|------------------------------|--------|--------|
| | | Dec'22 | Nov'23 | Dec'23 | Dec'22 | Nov'23 | Dec'23 |
| Visakhapatnam | Visakhapatnam | 97% | 96% | 97% | 34.8 | 41.2 | 41.3 |
| | Other Ports | 3% | 4% | 3% | 63.8 | 60.2 | 75.1 |
| Kolkata | Kolkata | 92% | 94% | 95% | 34.4 | 37.6 | 34.7 |
| | Haldia | 4% | 1% | 2% | 46.1 | 46.6 | 57.9 |
| | Other Ports | 4% | 5% | 3% | 58.4 | 47.3 | 53.8 |
| Haldia | Haldia | 81% | 77% | 86% | 21.0 | 72.0 | 80.0 |
| | Kolkata | 18% | 22% | 13% | 38.0 | 62.6 | 48.3 |
| | Other Ports | 1% | 1% | 1% | 27.7 | 53.8 | 55.6 |

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|-------------|---|
| | | Train | 188.6 | 197.9 | ↓ |
| | | Truck | 43.3 | 42.8 | ↑ |
| | | Overall | 48.4 | 48.5 | ↓ |

| EXPORT | | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--------|--|--------------------|--------------------|-------------|---|
| | | Train | 113.0 | 120.0 | ↓ |
| | | Truck | 75.8 | 91.3 | ↓ |
| | | Overall | 81.3 | 93.8 | ↓ |

Port Dwell Time – Export Cycle

CFS Dwell Time

| | Nov'23 (in hrs) | Dec'23 (in hrs) | | |
|--|--------------------|--------------------|-------|---|
| | CFS | 146.5 | 144.7 | ↑ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

Container Lifecycle (Export Cycle)

Port Performance Benchmarking: Eastern Region

The component benchmarks the port terminals by examining dwell time taken by each terminal to crater a given number of container boxes. The values are standardized for comparison



| Abb. | Name of Terminal |
|------|--|
| A | Visakha Container Terminal |
| B | Kolkata Dock System (KDS) , Kolkata Port |
| C | Haldia International Container Terminal (HICT) |

Port Individual Performance Comparison (Previous year same month): Eastern Region

The component highlights & compare the change in performance of various terminals by examining dwell time taken by each terminal to crater a given number of container boxes in the present month as compared to the same month previous year.

The analysis is to understand the extend of improvement individual terminals have done over the course of time.



| Abb. | Name of Terminal |
|------|--|
| A | Haldia International Container Terminal (HICT) |
| B | Kolkata Dock System (KDS) , Kolkata Port |
| C | Visakha Container Terminal |

X-axis

Change in Dwell time in Dec'23 w.r.t. previous year same month (Dec'22)

Y-axis

Change in no. of boxes in Dec'23 w.r.t. previous year same month (Dec'22)

Eastern Region

Port Performance Benchmarking (Based on Capacity & Dwell time): Eastern Region

The component benchmarks the port terminals by examining dwell time taken by each terminal with respect to their capacity to handle volume (TEU). The values are standardized for comparison.



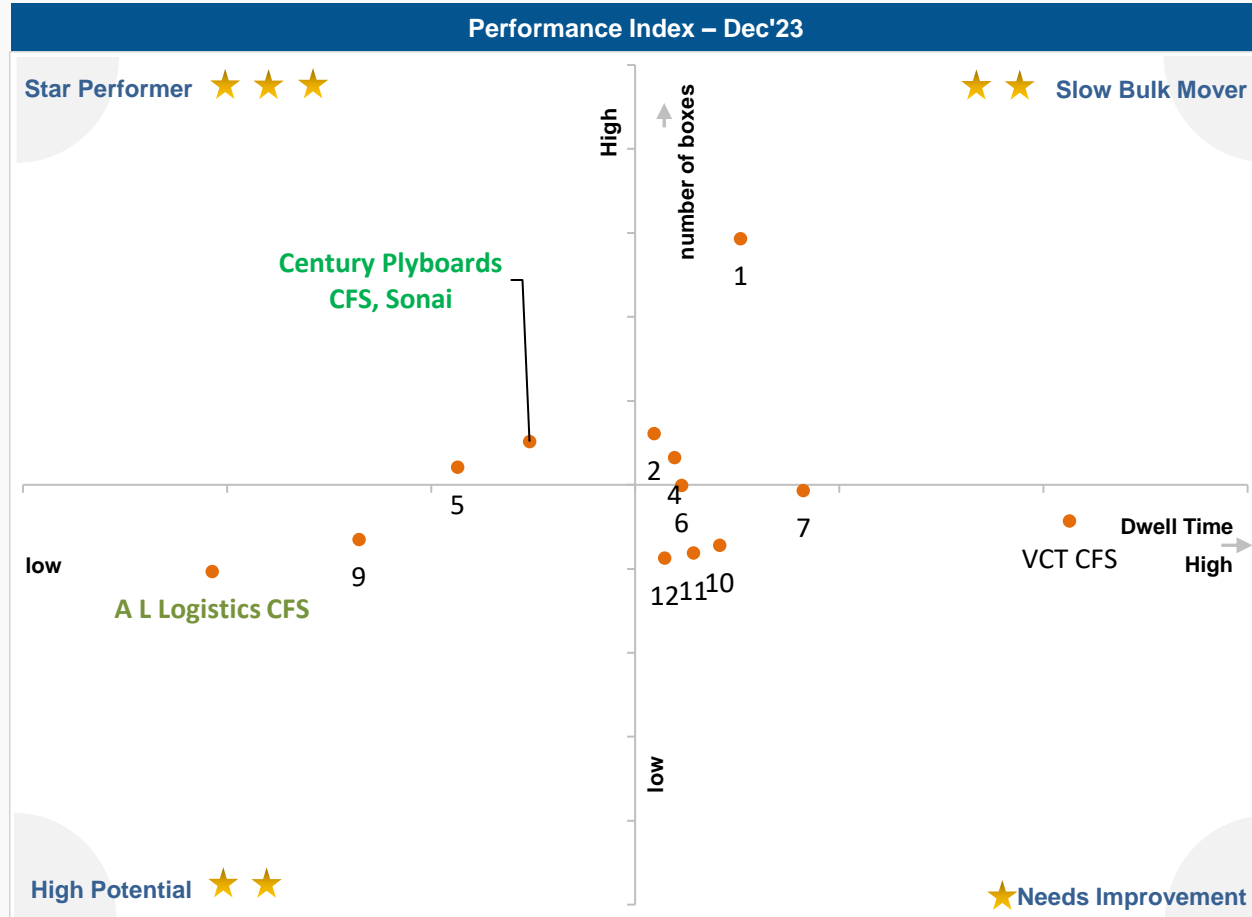
X-axis
Relative Port Dwell time

Y-axis
Relative Port TEU capacity

| Abb. | Name of Terminal |
|------|--|
| A | Haldia International Container Terminal (HICT) |
| B | Kolkata Dock System (KDS) , Kolkata Port |
| C | Visakha Container Terminal |

Eastern Region

CFS Performance Benchmarking: Eastern Region



Top Performing CFS

Century Plyboards CFS, Sonai

High Potential CFS

A L Logistics CFS

Low Performing CFS

VCT CFS

Container Transportation: Visakhapatnam Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|--------------------|------|--------------------|--|
| | Overall | 55.0 | 50.6 | |

Transit Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|--------------------|------|--------------------|--|
| | Port to CFS | 1.64 | 1.79 | |

CFS Dwell Time

| CFS | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|-----|--------------------|-------|--------------------|--|
| | CFS | 150.1 | 156.5 | |

- The marked entries showcase increase in performance in comparison to Nov'23
- The marked entries showcase decrease in performance in comparison to Nov'23

| EXPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|--------------------|------|--------------------|--|
| | Overall | 82.3 | 92.4 | |

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|--------------------|------|--------------------|--|
| | CFS to Port | 1.99 | 2.13 | |

Port Dwell Time – Export Cycle

Transit Time – Export Cycle

Container Lifecycle (Export Cycle)

Container Transportation: Kolkata Port

Container Lifecycle (Import Cycle)

Port Dwell Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Overall | 40.8 | 43.5 | ↓ |

Transit Time – Import Cycle

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Port to CFS | 1.32 | 1.27 | ↑ |

CFS Dwell Time

| CFS | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|-----|-----------------|-------|-----------------|---|
| | CFS | 145.5 | 143.5 | ↑ |

- ↑ The marked entries showcase increase in performance in comparison to Nov'23
- ↓ The marked entries showcase decrease in performance in comparison to Nov'23

| EXPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | Overall | 70.6 | 87.2 | ↓ |

| IMPORT | Nov'23 (in hrs) | | Dec'23 (in hrs) | |
|--------|-----------------|------|-----------------|---|
| | CFS to Port | 1.17 | 0.76 | ↑ |

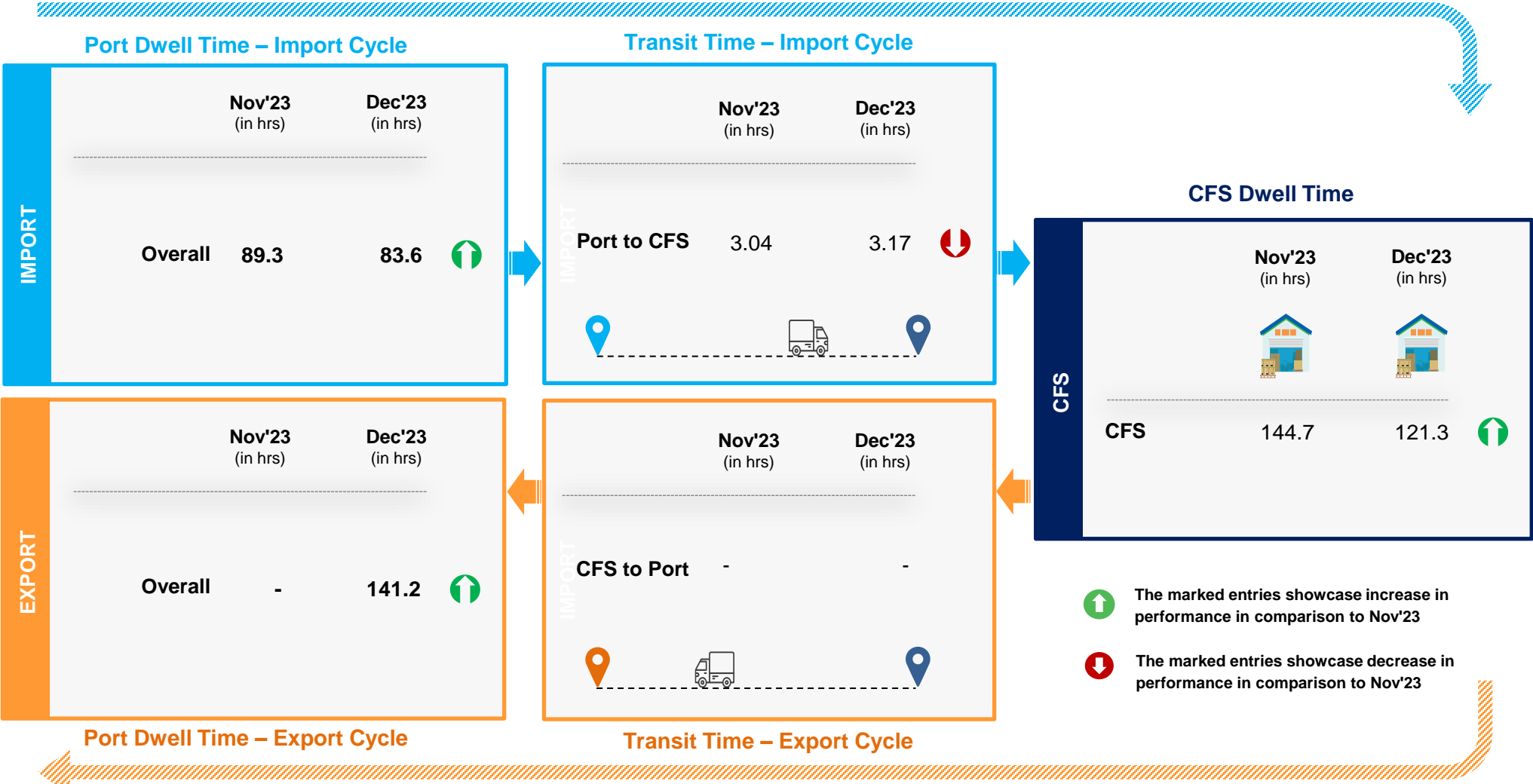
Port Dwell Time – Export Cycle

Transit Time – Export Cycle

Container Lifecycle (Export Cycle)

Container Transportation: Haldia Port

Container Lifecycle (Import Cycle)



Container Lifecycle (Export Cycle)

05 CONGESTION ANALYSIS



Congestion Analysis & Methodology

The amount of traffic near the port is shown by the congestion analysis. To determine transit time to move a container in a specific location, we analyze the transit time that a container takes to move between ports and clusters of CFSs that are nearby. The method's step-by-step details are provided below.

Methodology

Step 1 All the CFS in along side port are divided into clusters based on their vicinity

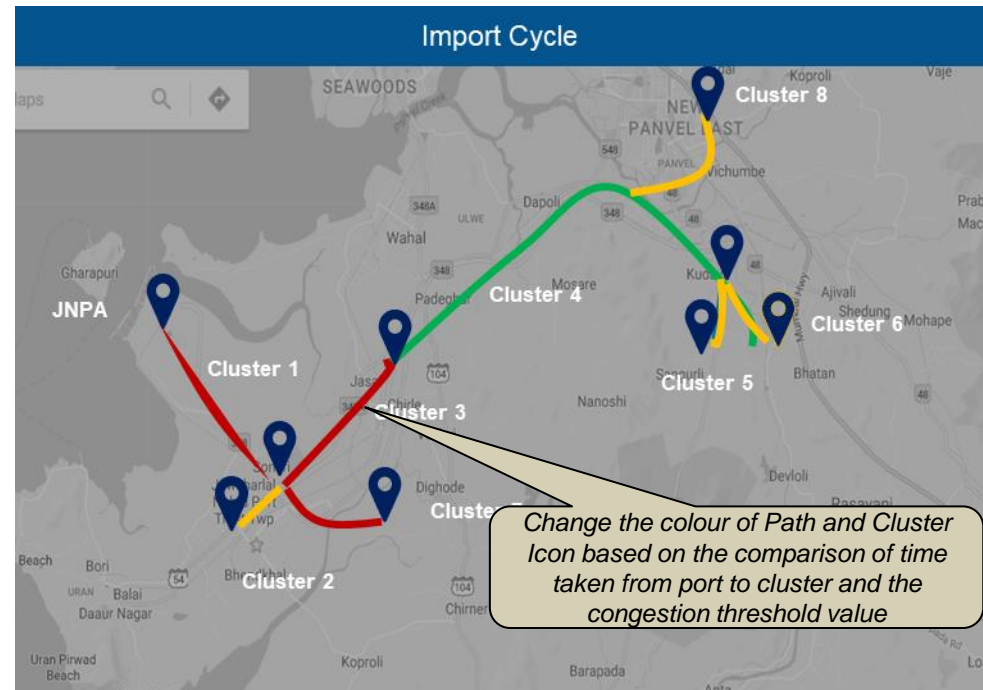
Step 2 Transit time calculation

Import Cycle: In Time Stamp of CFS in cluster – Port Out Time Stamp

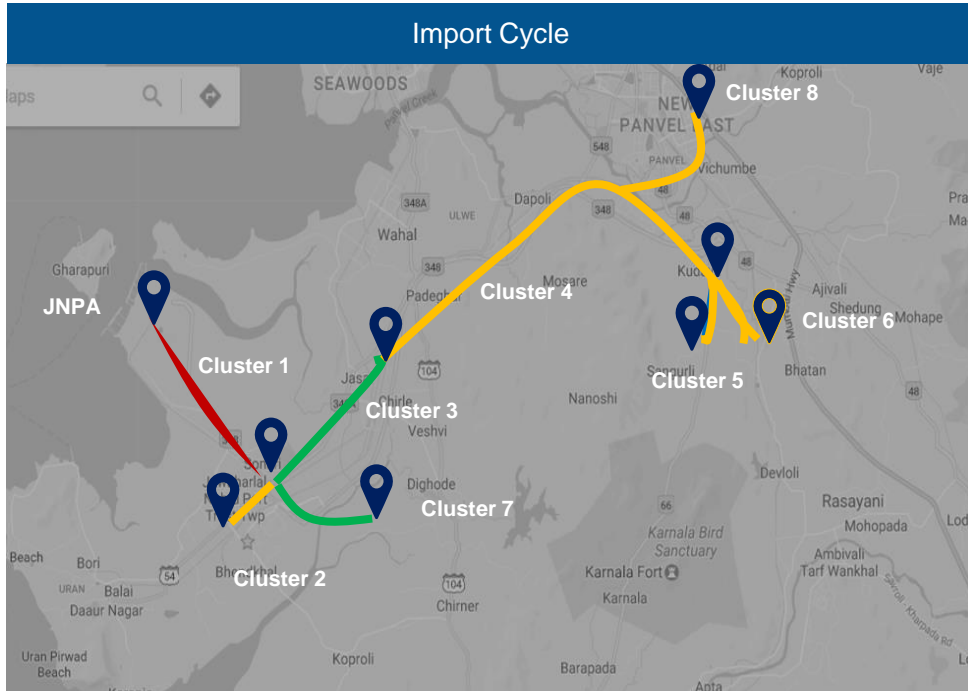
Export Cycle: Port In Time Stamp – Out Time Stamp of CFS in Cluster

Step 3 Benchmarking

1. Actual time is compared with Ideal Time
2. Ideal time is 3X of time showcased on google maps btw the OD pair
3. The classification of actual time is done
 1. High = Greater than Ideal time
 2. Medium = Btw 0 to 50% less than Ideal time
 3. Low- Btw 50% to 100% less than ideal time
4. Clusters with high congestions are marked as bottlenecks



Congestion Analysis: JNPA Region



| Serial | Cluster Name | Congestion |
|-----------|--|------------|
| Cluster 1 | JNPA area | High |
| Cluster 2 | Bhendkhal area, khopate road | Medium |
| Cluster 3 | Sonari area, JNPA road | Low |
| Cluster 4 | Chirle area, JNPA road | Medium |
| Cluster 5 | Plaspa area, coach kanyakumari highway | Medium |
| Cluster 6 | Salva apta rd area, bangalore highway | Medium |
| Cluster 7 | Patilpada area, khopate JNPA road | Low |
| Cluster 8 | Taloja, navi mumbai | Medium |

| Serial | Cluster Name | Congestion |
|-----------|--|------------|
| Cluster 1 | JNPA area | High |
| Cluster 2 | Bhendkhal area, khopate road | High |
| Cluster 3 | Sonari area, JNPA road | High |
| Cluster 4 | Chirle area, JNPA road | High |
| Cluster 5 | Plaspa area, coach kanyakumari highway | High |
| Cluster 6 | Salva apta rd area, bangalore highway | High |
| Cluster 7 | Patilpada area, khopate JNPA road | Medium |
| Cluster 8 | Taloja, navi mumbai | High |

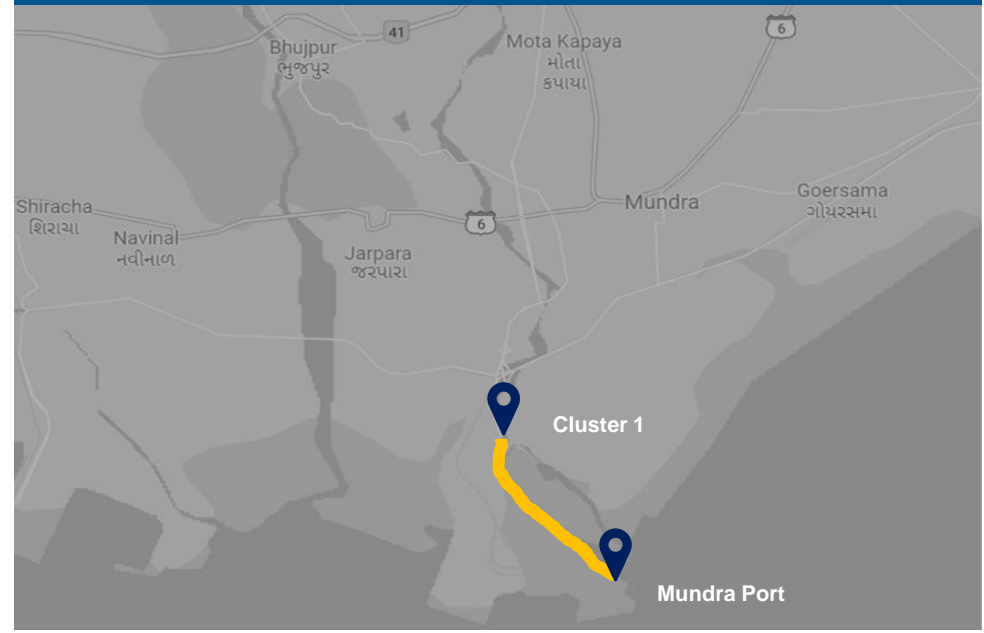
Legend: Route Congestion Level ■ High ■ Medium ■ Low Location Point

Congestion Analysis: Mundra Region

Import Cycle



Export Cycle

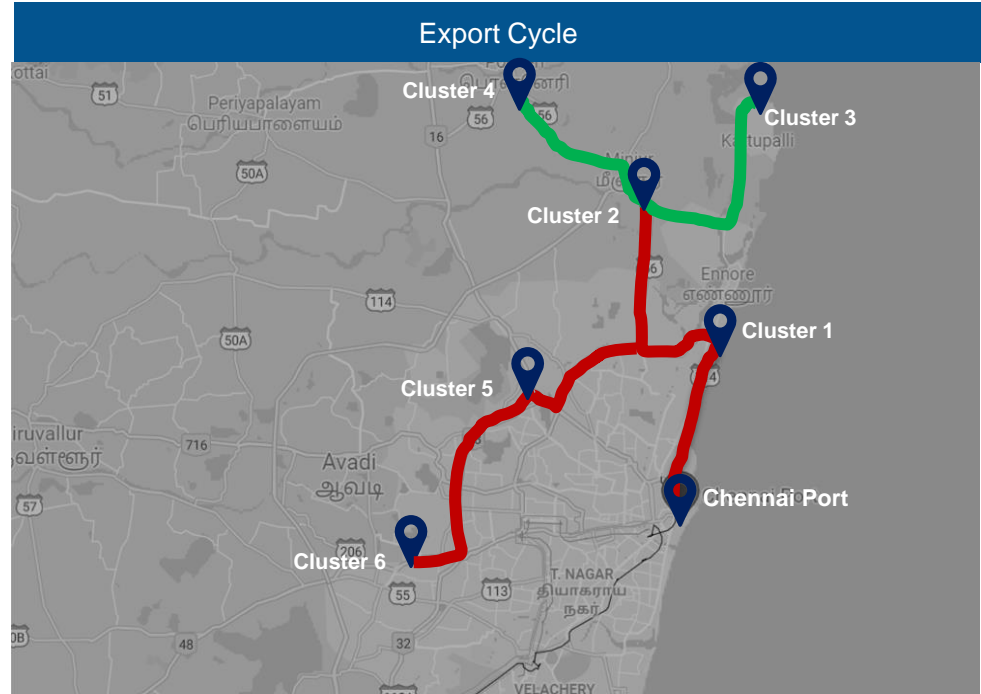


| Serial | Cluster Name | Congestion |
|-----------|--------------|------------|
| Cluster 1 | APSEZ Area | Low |
| Cluster 2 | Hind circle | Medium |
| Cluster 3 | Motakapaya | Medium |

| Serial | Cluster Name | Congestion |
|-----------|--------------|------------|
| Cluster 1 | APSEZ Area | Medium |
| Cluster 2 | Hind circle | - |
| Cluster 3 | Motakapaya | - |

Legend: Route Congestion Level ■ High ■ Medium ■ Low Location Point

Congestion Analysis: Chennai Region



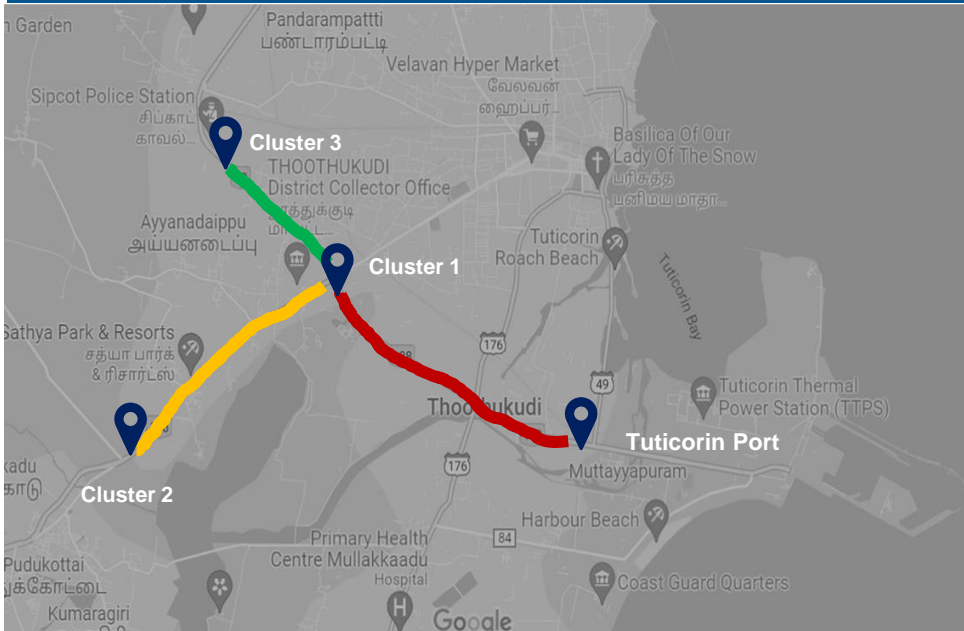
| Serial | Cluster Name | Congestion |
|-----------|--------------------------------------|------------|
| Cluster 1 | Thiruvottiyur High Road Junction | Low |
| Cluster 2 | Aandarkuppam - Melur Junction | Medium |
| Cluster 3 | Kattupalli portbound area | High |
| Cluster 4 | Minjur - Ponneri bound Area | High |
| Cluster 5 | Madhavaram - Moolakadai Junction | Medium |
| Cluster 6 | Poonamallee - Sriperumbadur Junction | Low |

| Serial | Cluster Name | Congestion |
|-----------|--------------------------------------|------------|
| Cluster 1 | Thiruvottiyur High Road Junction | High |
| Cluster 2 | Aandarkuppam - Melur Junction | High |
| Cluster 3 | Kattupalli portbound area | Low |
| Cluster 4 | Minjur - Ponneri bound Area | Low |
| Cluster 5 | Madhavaram - Moolakadai Junction | High |
| Cluster 6 | Poonamallee - Sriperumbadur Junction | High |

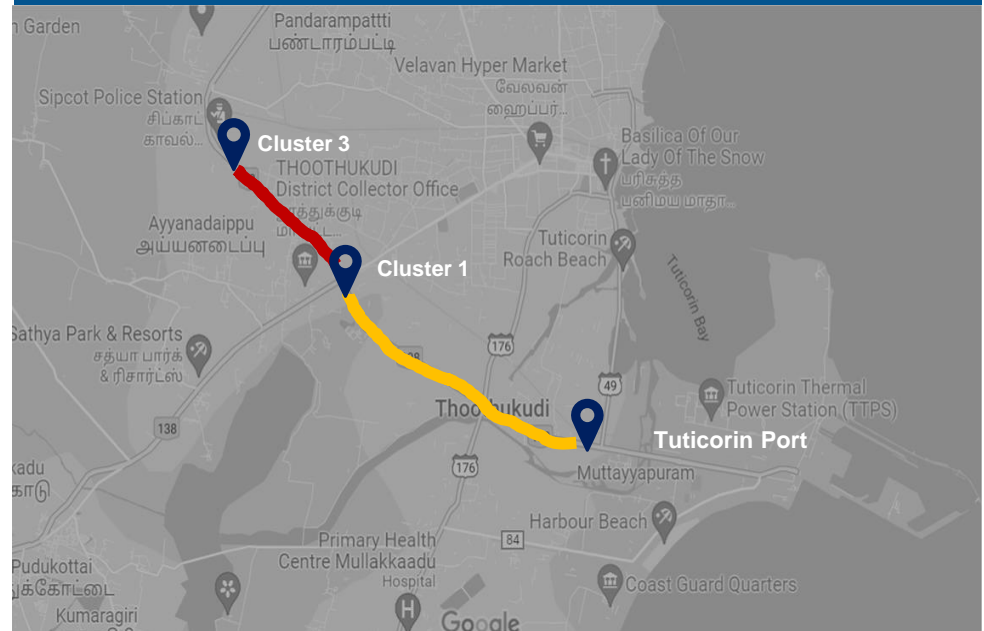
Legend: Route Congestion Level ■ High ■ Medium ■ Low Location Point

Congestion Analysis: Tuticorin Region

Import Cycle



Export Cycle

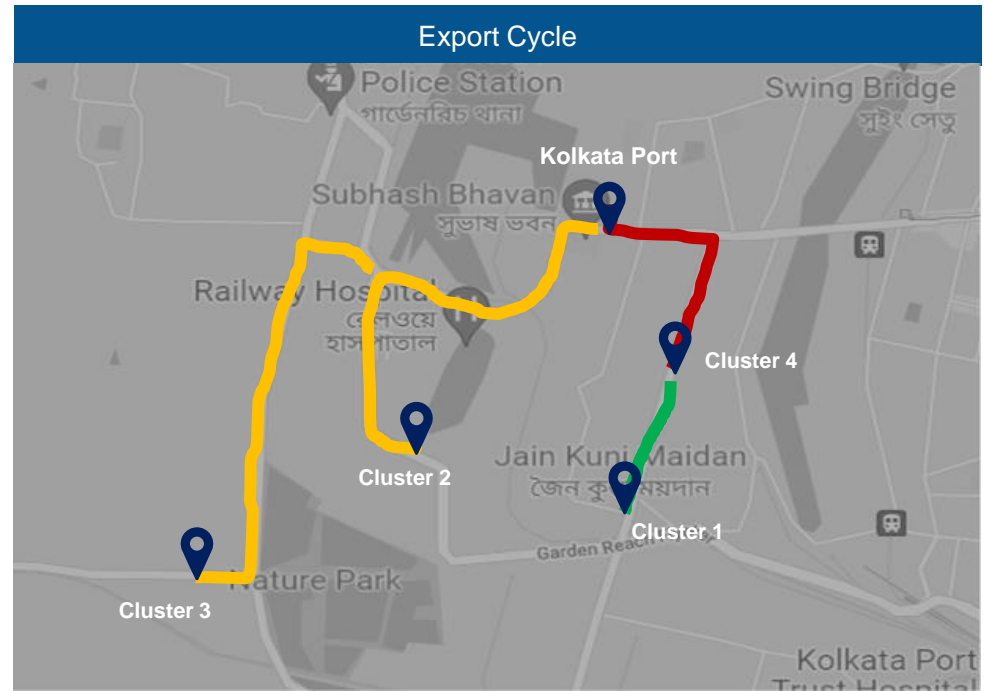
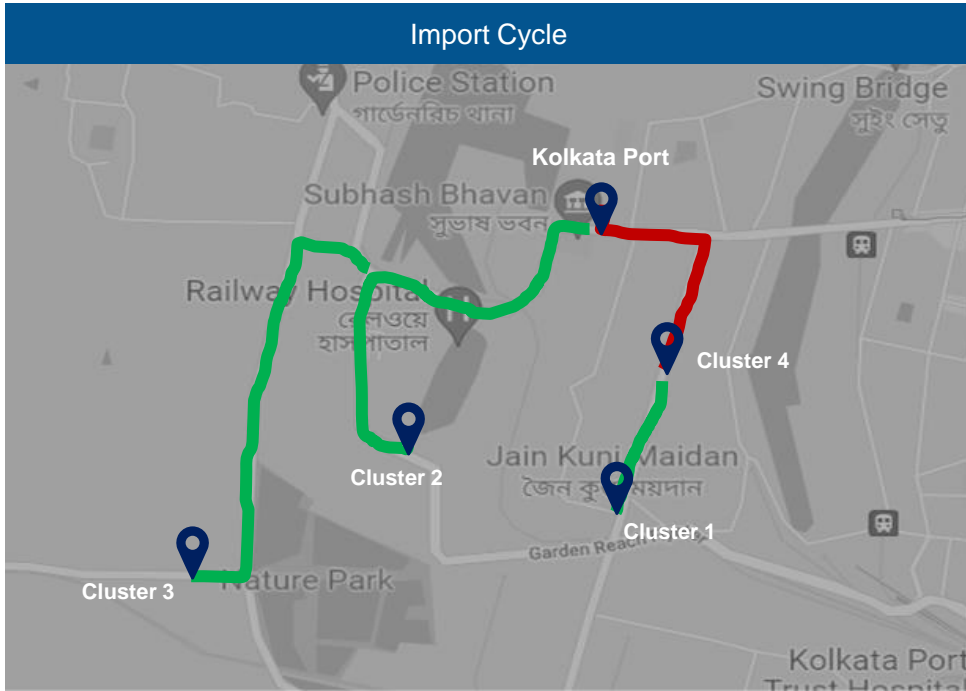


| Serial | Cluster Name | Congestion |
|-----------|---|------------|
| Cluster 1 | Periyannayagapuram, Thoothukudi, Madurai Road | High |
| Cluster 2 | Tirunelveli road near by Podukottai | Medium |
| Cluster 3 | Sipcot area near by Madurai road | Low |

| Serial | Cluster Name | Congestion |
|-----------|---|------------|
| Cluster 1 | Periyannayagapuram, Thoothukudi, Madurai Road | Medium |
| Cluster 2 | Tirunelveli road near by Podukottai | - |
| Cluster 3 | Sipcot area near by Madurai road | High |

Legend: Route Congestion Level ■ High ■ Medium ■ Low Location Point

Congestion Analysis: Kolkata Region

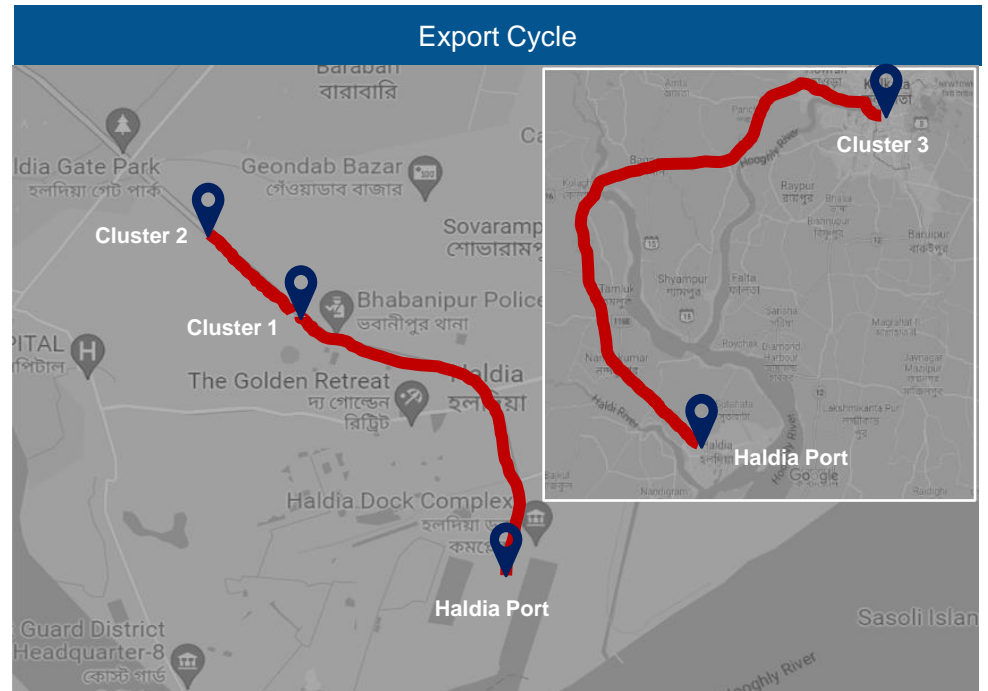
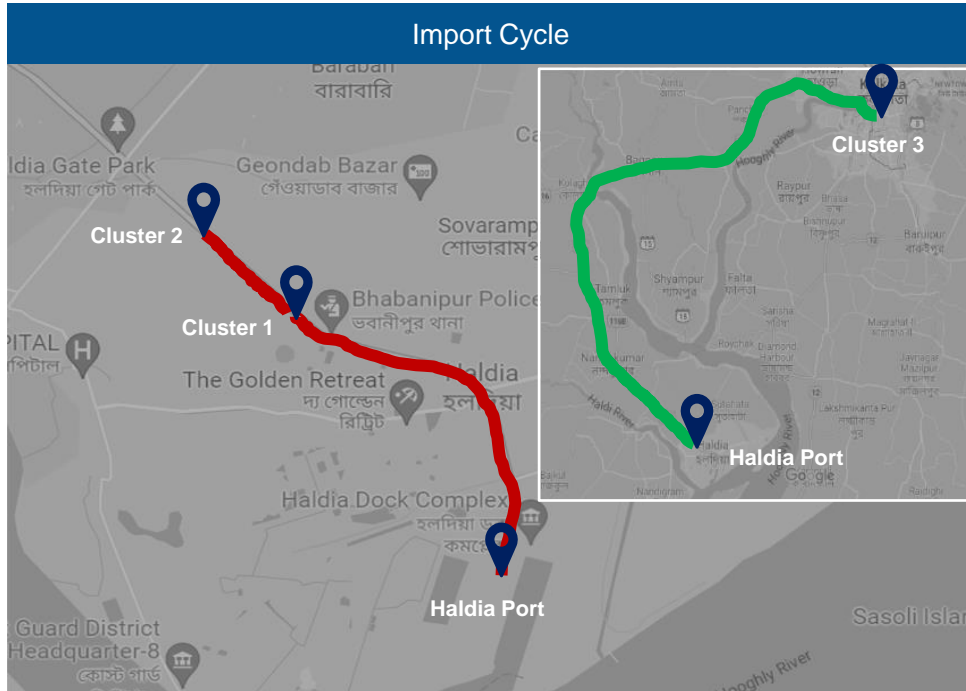


| Serial | Cluster Name | Congestion |
|-----------|-------------------|------------|
| Cluster 1 | Base bridge area | Low |
| Cluster 2 | Sonapur road area | Low |
| Cluster 3 | Nature park area | Low |
| Cluster 4 | Babu bazar area | High |

| Serial | Cluster Name | Congestion |
|-----------|-------------------|------------|
| Cluster 1 | Base bridge area | Low |
| Cluster 2 | Sonapur road area | Medium |
| Cluster 3 | Nature park area | Medium |
| Cluster 4 | Babu bazar area | High |

Legend: Route Congestion Level ■ High ■ Medium ■ Low Location Point

Congestion Analysis: Haldia Region



| Serial | Cluster Name | Congestion |
|-----------|-----------------------------------|------------|
| Cluster 1 | Talpukur area, Kolkata highway | High |
| Cluster 2 | City centre area, Kolkata highway | High |
| Cluster 3 | Silpodanga area | Low |

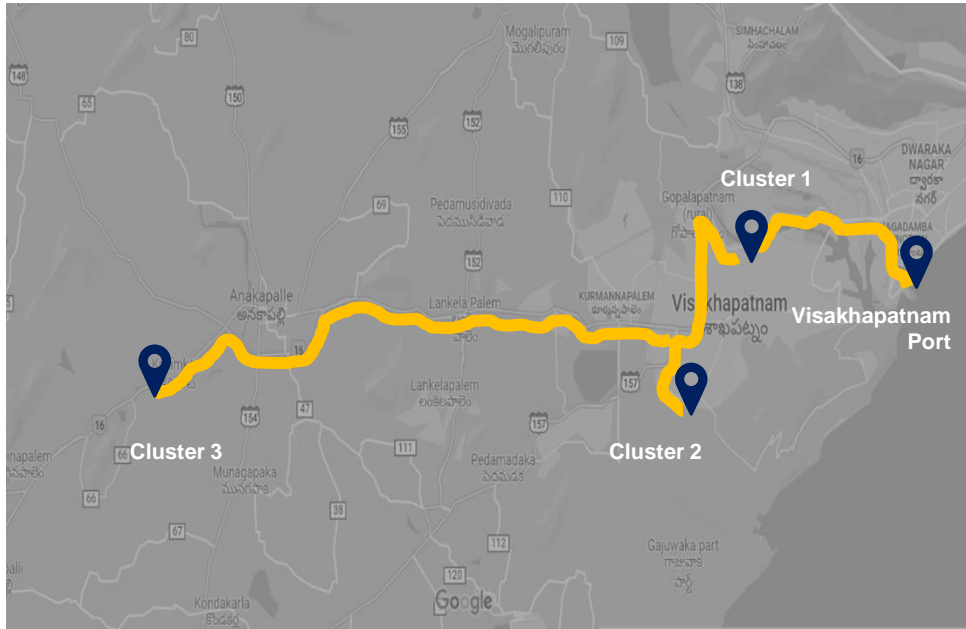
| Serial | Cluster Name | Congestion |
|-----------|-----------------------------------|------------|
| Cluster 1 | Talpukur area, Kolkata highway | High |
| Cluster 2 | City centre area, Kolkata highway | High |
| Cluster 3 | Silpodanga area | High |

Legend: Route Congestion Level ■ High ■ Medium ■ Low Location Point

Note: Haldia CFS to Port transit data has discrepancy.

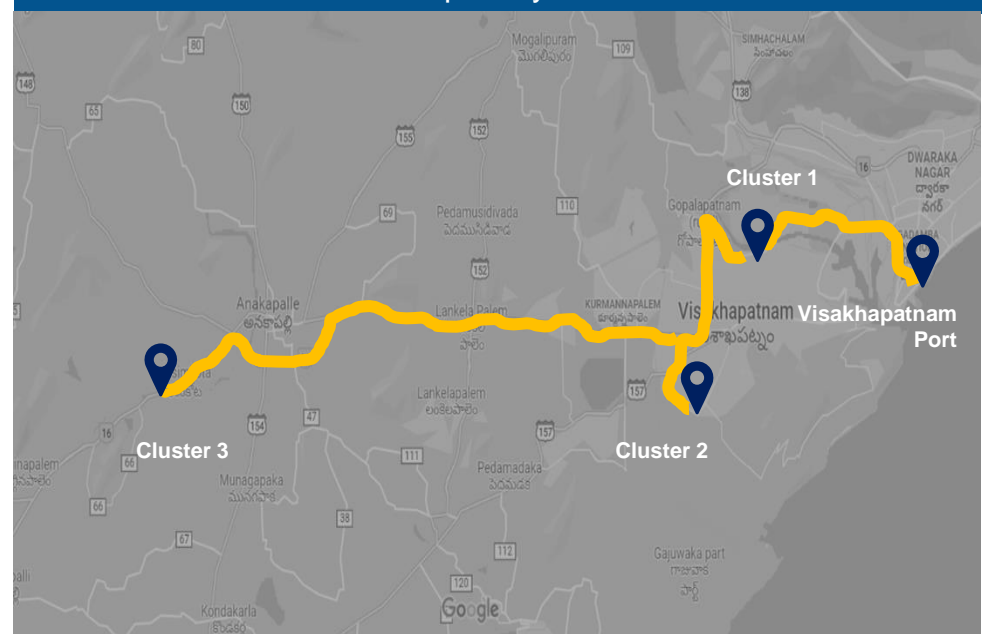
Congestion Analysis: Visakhapatnam Region

Import Cycle



| Serial | Cluster Name | Congestion |
|-----------|--|------------|
| Cluster 1 | Port road, Gopalapatnam area | Medium |
| Cluster 2 | Autonagar, Gajuwaka area | Medium |
| Cluster 3 | Chennai – Kolkata highway, Bayyavaram area | Medium |

Export Cycle



| Serial | Cluster Name | Congestion |
|-----------|--|------------|
| Cluster 1 | Port road, Gopalapatnam area | Medium |
| Cluster 2 | Autonagar, Gajuwaka area | Medium |
| Cluster 3 | Chennai – Kolkata highway, Bayyavaram area | Medium |

Legend: Route Congestion Level

High

Medium

Low



Location Point

06 CONTAINER MOVEMENT ACROSS INDIA



Transit Movement across ICPs

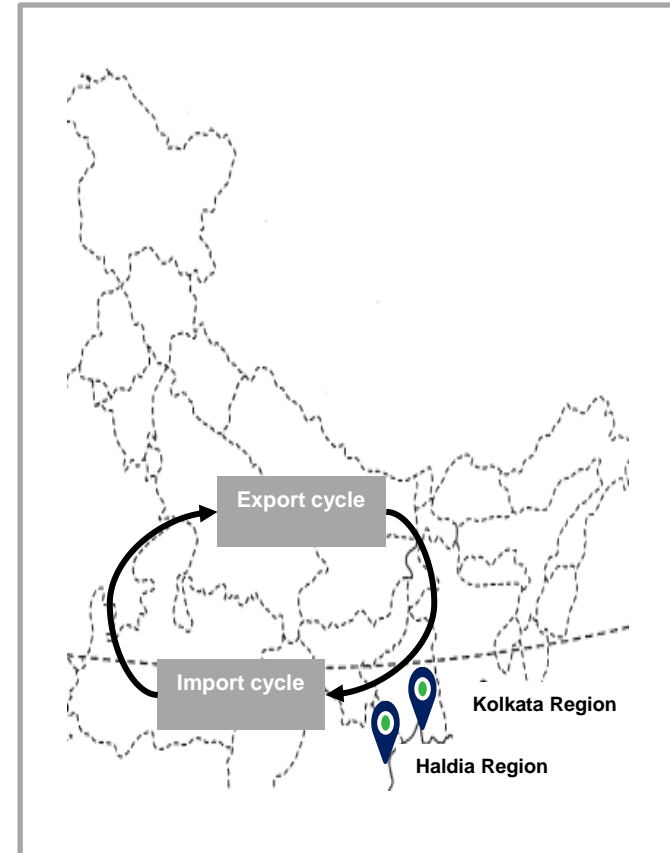
Transit movement across ICPs from Kolkata Port Terminal:

Kolkata Port Terminal

| Import Cycle | Mode | ICP Raxaul | ICP Jogbani |
|--------------|---------|------------|-------------|
| | Overall | 120.4 hrs | 87.1 hrs |
| | Road | 110.4 hrs | 87.1 hrs |
| | Rail | 123.2 hrs | - |

Haldia Port Terminal

| Import Cycle | Mode | ICP Raxaul | ICP Jogbani |
|--------------|---------|------------|-------------|
| | Overall | 95.6 hrs | - |



Note: Export data has discrepancy

Evacuation Efficiency Analysis: Other Major Ports

Average speed taken by trucks to cover the distance between a Port terminal to the nearest Toll Plaza

| Port | Adjacent Toll Plaza | Distance (in km) | Average Speed (in km/ h) | | |
|--------------------|---------------------------------------|---------------------|--------------------------|--------|--------|
| | | | Sep'23 | Nov'23 | Dec'23 |
| Chennai Port | NallurToll Plaza (NH 5), Tamil Nadu | 23 | 2.3 | 3.0 | 3.3 |
| Tuticorin Port | VoCPT CheckPost1 | 4.3 | 19.2 | - | 13.6 |
| Haldia Port | Debra Toll Plaza (NH 6), West Bengal | 100 | 7.0 | 6.0 | 4.8 |
| Kochi Port | GIPL Paliyekkara Toll Plaza | 71 | 9.9 | 5.2 | 5.9 |
| Kolkata Port | Dankuni Toll Plaza | 24 | 3.1 | 2.8 | 3.0 |
| New Mangalore Port | Brahamarakotlu Toll Plaza, NH 73 | 25 | - | - | 11.7 |

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 within 2 days.

ICD Transit Time Analysis

Below is the average transit time taken by the containers while moving from Port terminals to the ICDs across India:

| Port | ICD | Distance (in km) | Average Speed (in km/ h) |
|---------|---|------------------|--------------------------|
| Mundra | The Thar Dry Port ICD Ahmedabad | 320 | 7.3 |
| | Hind Terminals Logistics Park ICD, Palwal | 1170 | 10.2 |
| | CONCOR Kanakpura ICD, Jaipur | 890 | 17.7 |
| | CMA CGM Logistics Park, Dadri | 1230 | 8.2 |
| | CONCOR Tughlakabad ICD, New Delhi | 1190 | 6.4 |
| | Adani Logistics Park ICD, Gurgaon | 1100 | 6.5 |
| | APM Terminals ICD, Dadri | 1105 | 12.0 |
| | Kribhco ICD, Meerut | 1270 | 7.0 |
| | ACTL ICD, Faridabad | 1166 | 12.5 |
| Pipavav | CONCOR Tughlakabad ICD, New Delhi | 1210 | 5.7 |
| | CMA CGM Logistics Park, Dadri | 1220 | 7.3 |
| | Allcargo Logistics Park ICD, Dadri | 1255 | 8.4 |

Distance is based on the railways website with the closest station as reference for Origin Destination.

07

ANNEXURE



Annexure – Name of the Ports

| Abbreviation | Terminal Name | Port Name |
|--------------|--|-----------|
| BMCT | Bharat Mumbai Container Terminal(PSA) | JNPA |
| GTI | Gateway Terminals India | JNPA |
| NSFT | Nhava Sheva Freeport Terminal | JNPA |
| NSIGT | Nhava Sheva India Gateway Terminal | JNPA |
| NSICT | Nhava Sheva International Container Terminal | JNPA |
| ACMTTL | Adani CMA Mundra Terminal | Mundra |
| AICT | Adani International Container Terminal | Mundra |
| AMCT | Adani Mundra Container Terminal | Mundra |
| AMCT-2 | Adani Mundra Container Terminal-2 | Mundra |
| MICT | Mundra International Container Terminal | Mundra |
| APM | APM Terminals Pipavav, Gujarat | Pipavav |
| KICT | Kandla International Container Terminal | Kandla |
| AHPL | Adani Hazira Port Limited | Hazira |
| MPT | Mormugao Port Trust | Goa |

| Abbreviation | Terminal Name | Port Name |
|--------------|---|---------------|
| CCTL | Chennai Container Terminal Pvt. Ltd. | Chennai |
| CITPL | Chennai International Terminals Pvt Ltd | Chennai |
| ICTT | International Container Transshipment Terminal, Kochi | Kochi |
| AKPPL | Adani Kattupalli Port Private Limited | Kattupalli |
| AECT | Adani Ennore Container Terminal | Ennore |
| DBGT | Dakshin Bharat Gateway Terminal | Tuticorin |
| PSA Sical | PSA SICAL Terminals | Tuticorin |
| AKCTPL | Adani Krishnapatnam Container Terminal Pvt Ltd | Krishnapatnam |
| NMPT | New Mangalore Port Trust Terminal | New Mangalore |
| KDS | Kolkata Dock System | Kolkata |
| HICT | Haldia International Container Terminal | Haldia |
| VCTPL | Visakha Container Terminal | Visakhapatnam |
| Paradip | Paradip International Cargo Terminal | Paradip |

Annexure – Western Region

List of CFS name used in Southern CFS Performance Index

| | | | |
|----|---------------------------------|----|--|
| 1 | Adani CFS Eximyard, Mundra | 18 | Navkar Corporation Yard 2 CFS, Panvel |
| 2 | Saurashtra CFS, Mundra | 19 | Vaishno Logistics CFS, Navi Mumbai |
| 3 | Punjab Conware CFS, Navi Mumbai | 20 | Balmer & Lawrie CFS, Navi Mumbai |
| 4 | TG Terminals CFS, Mundra | 21 | Navkar Corporation Yard 1 CFS, Panvel |
| 5 | Speedy Multimode CFS, JNPT | 22 | Apollo Logisolutions CFS, Panvel |
| 6 | Honey Comb CFS, Mundra | 23 | Dronagiri Rail Terminal CFS, Navi Mumbai |
| 7 | CWC CFS, Mundra | 24 | Seabird CFS, Navi Mumbai |
| 8 | EFC Logistics India | 25 | Gateway Distriparks CFS, Navi Mumbai |
| 9 | CWC Conex Terminal CFS | 26 | Rishi CFS, Mundra |
| 10 | Seabird CFS, Mundra | 27 | Hind Terminal CFS, Hazira |
| 11 | MICT CFS, Mundra | 28 | CWC Polaris logistics park |
| 12 | Sarveshwar CFS | 29 | Contrans Logistic CFS, Pipavav |
| 13 | Landmark CFS, Mundra | 30 | Ameya Logistics CFS, Navi Mumbai |
| 14 | JWC Logistics Park CFS | 31 | Continental Warehousing CFS, Navi Mumbai |
| 15 | LCL Logistics CFS, Pipavav | 32 | APM (Maersk India) CFS, Navi Mumbai |
| 16 | CWC Impex Park CFS, Navi Mumbai | 33 | Ashte Logistics CFS, Panvel |
| 17 | JWR CFS | 34 | Empezar Logistics CFS |

List of CFS name used in Eastern CFS Performance Index

| | |
|----|--|
| 1 | Adani ICD, Tumb |
| 2 | The Thar Dry Port ICD Ahmedabad |
| 3 | Pristine ICD Chawapail , Ludhiana |
| 4 | Continental Warehousing Corporation Nhava Sheva pvt. |
| 5 | Hind Terminals Logistics Park ICD, Palwal |
| 6 | Vaishno Container Terminal-ICD Tarapur |
| 7 | KLPL ICD, Kanpur |
| 8 | ACTL ICD, Faridabad |
| 9 | The Thar Dry Port Jodhpur |
| 10 | Gateway Rail Freight ICD, Pyala |
| 11 | Allcargo Logistics Park ICD, Dadri |
| 12 | CMA CGM Logistics Park, Dadri |
| 13 | APM Terminals ICD, Dadri |
| 14 | ICD Jajpur (Jindal Stainless Ltd.) |
| 15 | Gateway Rail Freight ICD, Gurgaon |
| 16 | Albatross Inland Ports ICD, Dadri |
| 17 | ICD Timmapur, Telangana |
| 18 | Gateway Rail ICD, Sahnewal |
| 19 | Pegasus Inland Container Depot |
| 20 | ICD KIFTPL Kashipur |
| 21 | Gateway Rail Freight Limited ICD |

Annexure – Southern & Eastern Region

List of CFS name used in Southern CFS Performance Index

| | | | |
|----|---|----|---|
| 1 | Sical CFS, Chennai Tiruvallur Tamil Nadu | 17 | MIV CFS |
| 2 | Sanco Trans CFS, Chennai | 18 | A S Shipping Agencies CFS, Tiruvallur |
| 3 | Gateway Distriparks CFS, Chennai | 19 | Hari CFS |
| 4 | Kerry Indev Logistics ICD, Kanchipuram | 20 | Hind Terminals CFS, Chennai |
| 5 | Triway CFS, Chennai | 21 | Chola Logistics Pvt Ltd |
| 6 | Ennore Cargo Container Terminal CFS, Chennai | 22 | Raja Agencies CFS |
| 7 | Kailash Shipping Services CFS, Chennai | 23 | Diamond CFS Park |
| 8 | Continental Warehousing Corporation CFS (Nhava Seva), Chennai | 24 | Glovis India CFS, Kanchipuram |
| 9 | Adani CFS, Kattupalli Tiruvallur Tamil Nadu | 25 | A.S.Shipping Agencies Pvt Ltd |
| 10 | STP Services CFS, Chennai | 26 | Apm Terminals India CFS, Tiruvallur |
| 11 | ICBC CFS Chennai | 27 | Kerry Indev Logistics Private Limited / Continental Container Freight Station |
| 12 | Continental Warehousing Corporation Nhava Sheva Ltd. | 28 | St. John Freight Systems Ltd. - ICD Division |
| 13 | Sattva Hi-Tech And Conware CFS, Chennai | 29 | Prompt Terminals (P) Ltd |
| 14 | ALS Tuticorin Terminal Private Limited | 30 | Viking Warehousing CFS, Chennai |
| 15 | Sudharsan Logistics CFS, Chennai | 31 | O Yard CFS Chennai |
| 16 | GDKL CFS | | |

List of CFS name used in Eastern CFS Performance Index

| | |
|----|--------------------------------|
| 1 | Phonex CFS |
| 2 | Transworld Terminals Pvt. Ltd. |
| 3 | Century Plyboards CFS, Sonai |
| 4 | Century Plyboards CFS, JJP |
| 5 | Balmer Lawrie CFS |
| 6 | Gateway East India CFS |
| 7 | Sravan CFS-1 |
| 8 | VCT CFS |
| 9 | SICAL CFS |
| 10 | Allcargo Logistics CFS |
| 11 | Sravan CFS-2 |
| 12 | CWC CFS, Kolkata |
| 13 | A L Logistics CFS |

LDB AT A GLANCE

66 MILLION⁺

CONTAINERS HANDLED

96

Toll Plaza Coverage

415+

CFS/ICD/ICP/PY/
IZ Coverage

600+

Operators
deployed at ports

100%

EXIM Container
Terminals covered*

2850+

RFID readers
deployed PAN India

EDI

with FOIS and
28 Port Terminals

* Operation in Gangavaram port (NSDT) yet to be started.


PORT PERFORMANCE

(November'23 vs December'23)

DWELL TIME


WESTERN REGION

Import Cycle : 3.1% 
(22.3 hrs to 23 hrs)

Export Cycle : 3.6% 
(88.3 hrs to 85.1 hrs)

TOP-PERFORMER :
Gateway Terminals
India (GTI)


EASTERN REGION

Import Cycle : 0.2% 
(48.4 hrs to 48.5 hrs)

Export Cycle : 15.4% 
(81.3 hrs to 93.8 hrs)

TOP-PERFORMER :
Kolkata Dock
System (KDS), Kolkata Port

SOUTHERN REGION

Import Cycle : 61.0% 
(41.1 hrs to 66.2 hrs)

Export Cycle : 5.0% 
(79.3 hrs to 83.3 hrs)

TOP-PERFORMER :
Chennai International Terminals
Pvt Ltd (CITPL)

TOP PERFORMERS OF DECEMBER 2023 PAN INDIA



TERMINAL

Gateway Terminals
India (GTI)



CFS

Adani CFS Eximyard,
Mundra



ICD

Continental Warehousing
Corporation Nhava Shev Pvt.





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