

DLDS Logistics Databank Analytics Report- September 2018



Western Corridor (JNPT & Gujarat Port Terminals)

- Rail bound container handling performance for Import Containers has improved significantly by 44% in comparison to previous month

Import Port Dwell Time	Month
85.9 hours	Sep'18
152 hours	Aug'18

- Overall Port Dwell time performance across the Western corridor for Import cycle has increased by 4% in comparison to previous month

Import Port Dwell Time	Month
38.5 hours	Sep'18
40 hours	Aug'18

- Overall Inland container depot's (ICD) & Container Freight Station (CFS) Dwell time performance has improved by 5% & 14% respectively comparison to previous month.

JNPT Port Terminals

- Significant improvement has been seen in the Dwell time performance of Rail bound Import container handling across the port terminals of JNPT as below:
 - **54% improvement based on a Month-on-Month Analysis (Aug'18 vs Sep'18)**
 - **34% improvement based on Year-on-Year Analysis (Sep'17 vs Sep'18)**
- Dwell time performance of CFS around JNPT region has improved by 17% (81.3 hrs in Sep'18 from 97.8 hrs in August'18)

CFS Dwell Time Performance	Month
81.3 hours	Sep'18
97.8 hours	Aug'18

- Dwell time performance of Direct Port Delivery(DPD) container has increased by 18% as compared to previous month. (53.2 hrs in Sep'18 from 65.0 hrs in Aug'18)

DPD Dwell Time	Month
53.2 Hours	Sep'18
65 Hours	Aug'18

Gujarat Port Terminals (Adani Ports Special Economic Zone)

- Port Dwell time performance in export cycle has decreased by 8% in comparison to previous month (from 100.0 hrs in August'18 to 107.7 hrs in September'18)

Export Port Dwell Time	Month
107.7 Hours	Sep'18
100 Hours	Aug'18

- CFS Dwell time performance has seen an improvement of around by 6% in comparison to previous month
- Transit performance between ICDs and Mundra Port has improved for both Import and Export cycle by 4% and 9% respectively in comparison to previous month

Congestion Analysis

- Transit performance between 6 toll plaza routes (out of 7) in Gujarat region has decreased as compared to previous month

Toll Plaza Routes	% change in performance (speed)	
Mokha to Makhel	39%	↓
Mokha to Surajbari	47%	↓
Makhel to Bhalgam	11%	↓
Bhalgam to Uthamam	16%	↓
Uthamam to Indranagar	51%	↓

↑↓ The arrows depict increase/decrease in performance of the stakeholders as compared to previous month

Container Transportation- Western Corridor Performance (JNPT + Gujarat)

Port Dwell Time

IMPORT

Mode	Aug'18 (in hrs)	Sep'18 (in hrs)
Overall	40.0	38.5
Truck	33.3	34.1
Train	152.0	85.9

EXPORT

Mode	Aug'18 (in hrs)	Sep'18 (in hrs)
Overall	78.3	80.6
Truck	76.0	78.3
Train	93.1	96.1

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



Inland
Container
Depot (ICD)



Container
Freight
Stations

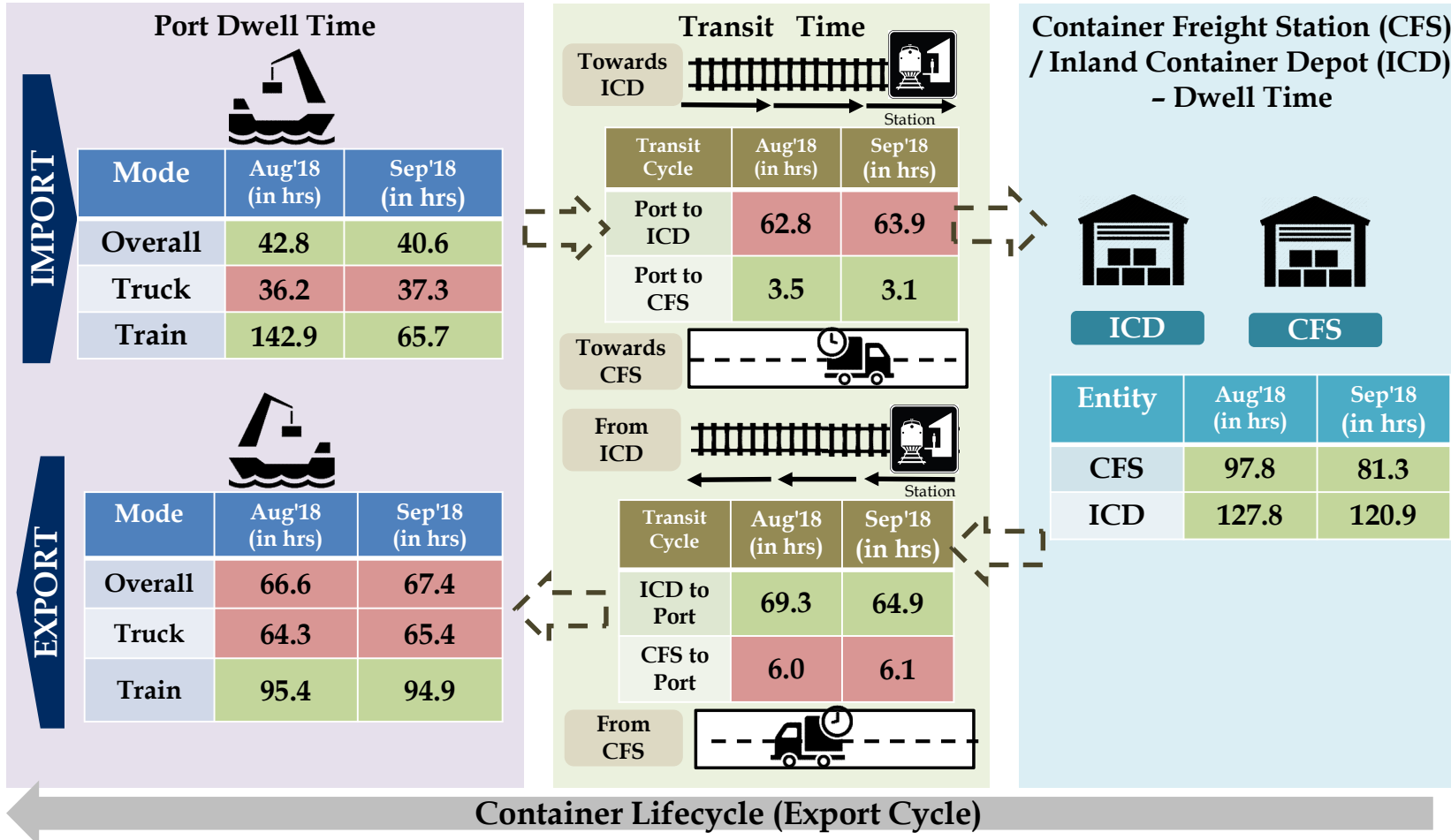
Entity	Aug'18 (in hrs)	Sep'18 (in hrs)
CFS	100.1	85.9
ICD	127.8	120.9

The marked entries showcase increase in performance as comparison to previous month

The marked entries showcase decrease in performance as comparison to previous month

Container Transportation- JNPT Port Terminals

Container Lifecycle (Import Cycle)



The marked entries showcase the increase in performance as compared to previous month

The marked entries showcase the decrease in performance as compared to previous month

Container Transportation- JNPT Port Terminals

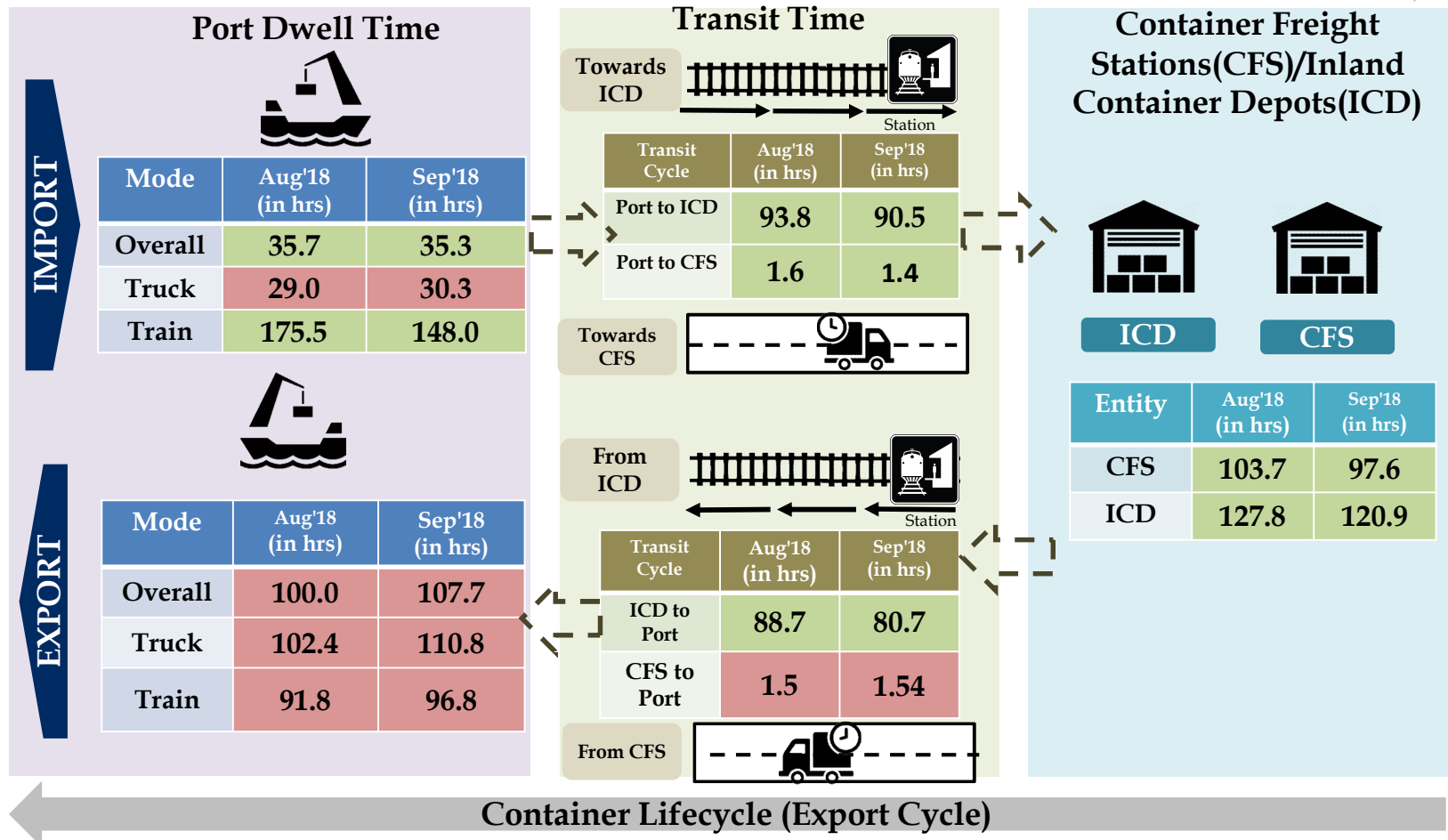
IMPORT CYCLE (Sep'18 - in hrs)			Compared to Aug18
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	40.6	5% ↑
	Port Dwell Time for Truck Bound Containers	37.3	3% ↓
	Port Dwell time for Train Bound Containers	65.7	54% ↑
	Port Dwell time Direct Port Delivery (DPD) containers	53.2	18% ↑
	Port Dwell time Containers bound for CFS	34.2	6% ↓
	Port Dwell time Containers bound for ICD	53.7	65% ↑
TRANSIT TIME	Port to ICD	63.9	2% ↓
	Port to CFS	3.1	13% ↑

EXPORT CYCLE (Sep'18- in hrs)			Compared to Aug18
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	67.4	1% ↓
	Port Dwell Time for Truck Bound Containers	65.4	2% ↓
	Port Dwell time for Train Bound Containers	94.9	1% ↑
	Port Dwell time Direct Port Entry (DPE) containers	65.5	5% ↓
	Port Dwell time Containers bound from CFS	63.7	2% ↑
	Port Dwell time Containers bound from ICD	91.2	5% ↑
TRANSIT TIME	ICD to Port	64.9	6% ↑
	CFS to Port	6.1	2% ↓

↑↓ The arrows depict increase/decrease in performance of the stakeholders as compared to previous month

Container Transportation- Gujarat Port Terminals

Container Lifecycle (Import Cycle)



Container Transportation- Gujarat Port Terminals

IMPORT CYCLE (Sep'18- in hrs)			Compared to Aug'18
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	35.3	1% ↑
	Port Dwell Time for Train Bound Containers	148.0	16% ↑
	Port Dwell time for Truck Bound Containers	30.3	4% ↓
TRANSIT TIME	Port to ICD	90.5	10% ↑
	Port to CFS	1.4	9% ↑

EXPORT CYCLE (Sep'18- in hrs)			Compared to Aug'18
PORT DWELL TIME	Overall Dwell Time of Truck and Train Bound Containers	107.7	8% ↓
	Port Dwell Time for Train Bound Containers	96.8	5% ↓
	Port Dwell time for Truck Bound Containers	110.8	8% ↓
TRANSIT TIME	ICD to Port	80.7	4% ↑
	CFS to Port	1.54	3% ↓

↑↓ The arrows depict increase/decrease in performance of the stakeholders as compared to previous month

Western Corridor- Port Performance Benchmarking & Performance Index




Performance Benchmarking - Port Terminals



Performance benchmarking for Port Terminals covered under LDB project for September'18


Top Performing Terminal

Gateway Terminals India (GTI)



Aug'18	Sep'18
54.5 hrs	51.6 hrs 

Low Performing Terminal

Adani CMA Mundra Terminal (ACMTTL)

Aug'18	Sep'18
90.2 hrs	85.7 hrs 

Note: The performance benchmarking is based on performance index

  The arrows depict increase/decrease in overall performance of the stakeholders as compared to previous month

Performance Index-Port Terminals

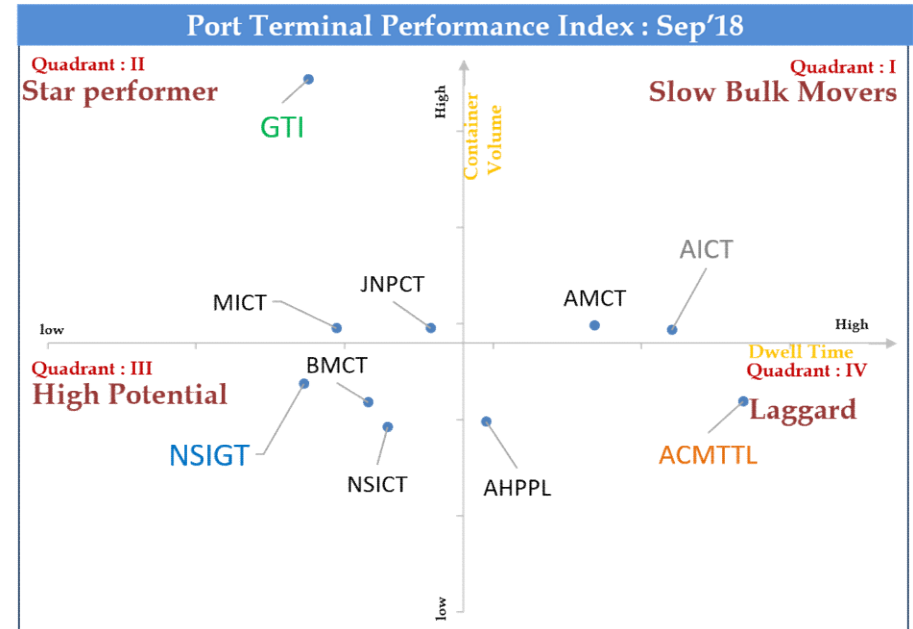
In order to assess the relative performance of Port terminals, the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of these two combined factors i.e. Dwell time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

Star Performer: consist of Ports which have catered relatively high container volume in lower dwell time

Slow Bulk Movers : consist of Ports which have catered higher container volume at higher dwell time

High Potential : consist of Ports which have catered relatively lower container volume in lower dwell time

Laggard : consist of Ports which have catered relatively lower container volume at higher dwell time




Western Corridor- CFS Performance Benchmarking & Performance Index

Performance Benchmarking - CFS(s)

Performance benchmarking for CFS(s) covered under LDB project for September'18


Top Performing Terminal

JWR CFS

Aug'18	Sep'18
60.0 hrs	58.9 hrs 

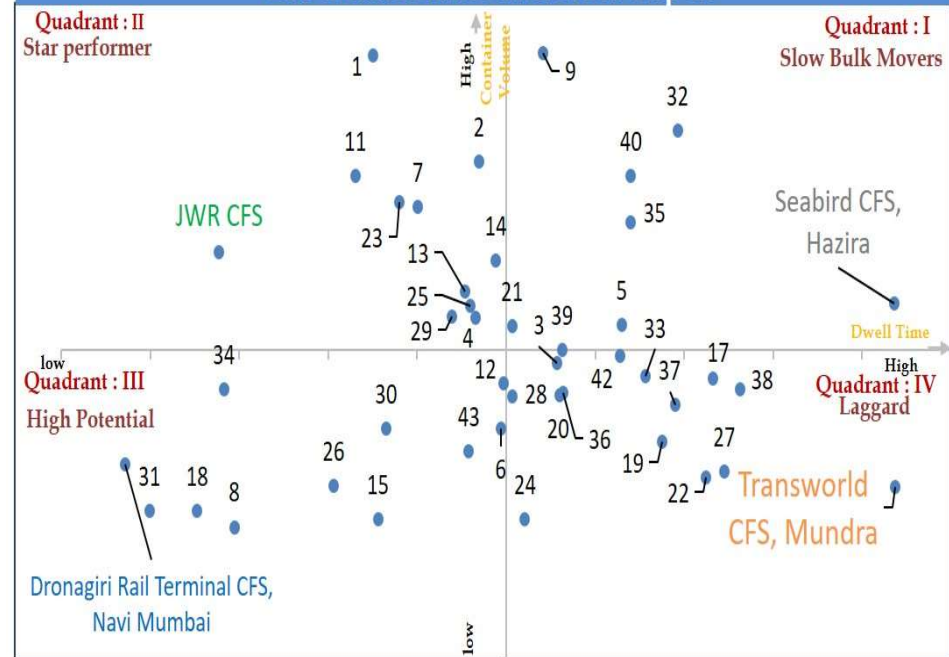
Low Performing Terminal

Transworld CFS, Mundra

Aug'18	Sep'18
99.1 hrs	122.3 hrs 

Note: The performance benchmarking is based on performance index

CFS Performance Index for Sep'18



Western Corridor- ICD Performance Benchmarking & Performance Index

Performance Benchmarking - ICD(s)

Performance benchmarking for ICDs covered under LDB project for September'18

Top Performing Terminal

Adani Logistics Park ICD, Gurgaon

Aug'18	Sep'18
112.6 hrs	118.0 hrs



Low Performing Terminal

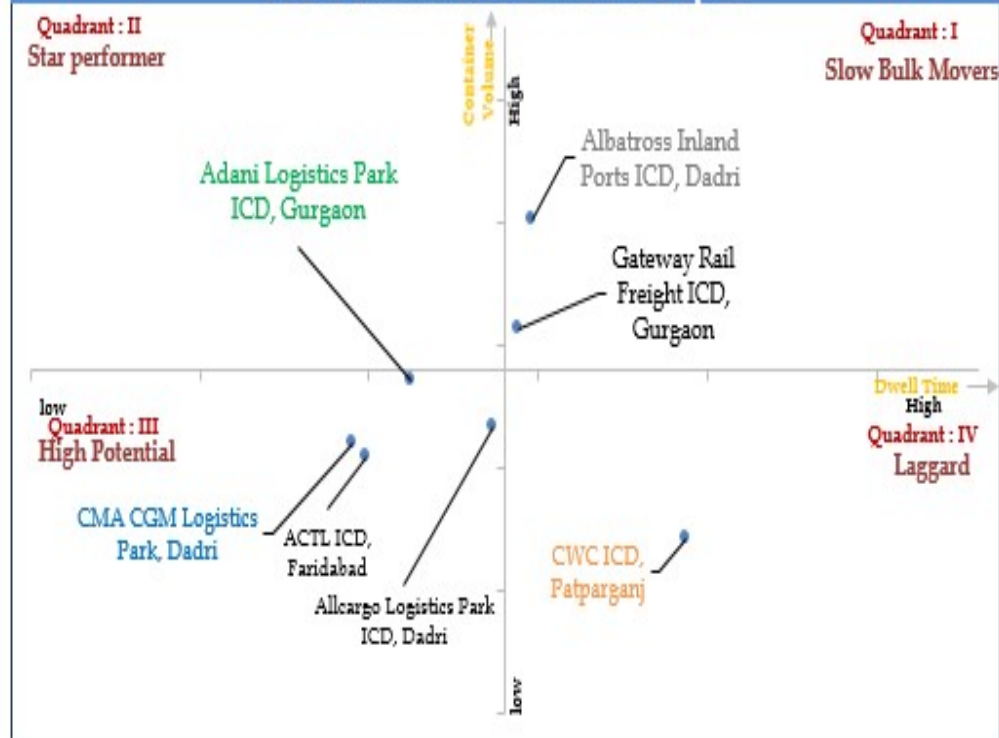
CWC ICD, Patparganj

Aug'18	Sep'18
191.6 hrs	167.2 hrs



Note: The performance benchmarking is based on performance index

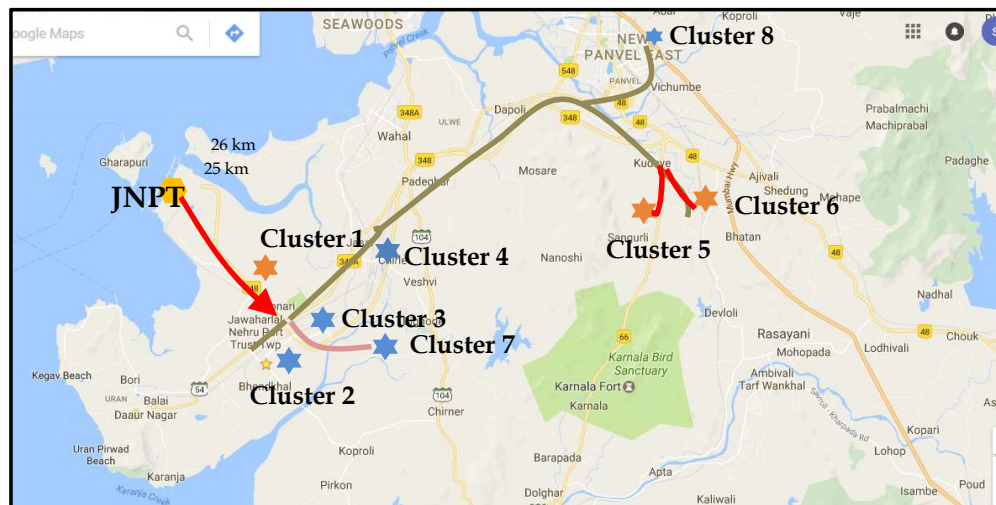
ICD Performance Index for Sep'18



Congestion Analysis

JNPT Congestion Analysis

JNPT - Import - Sep'18



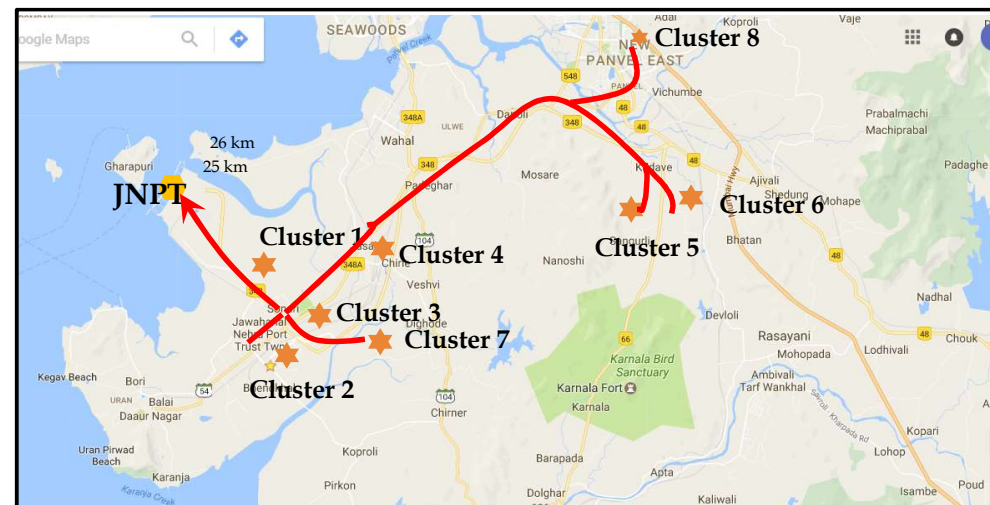
Clusters with bottleneck

Cluster 1	JNPT Y Junction Area
Cluster 5	Plaspa area, Coachi kanyakumari Highway
Cluster 6	Salvaapta rd area, Bangalore highway

Clusters without bottleneck

Cluster 2	Bhendkhal area, Khopate road
Cluster 3	Sonari area, JNPT road
Cluster 4	Chirle area, JNPT road
Cluster 7	Patilpada area, Khopate JNPT road
Cluster 8	Taloja, Navi Mumbai

JNPT - Export - Sep'18



Cluster with bottleneck

Cluster 1	JNPT Area
Cluster 2	Bhendkhal area, Khopate road
Cluster 3	Sonari area, JNPT road
Cluster 4	Chirle area, JNPT road
Cluster 5	Plaspa area, Coachi kanyakumari Highway
Cluster 6	Salva apta rd area, Bangalore highway
Cluster 7	Patilpada area, Khopate JNPT road
Cluster 8	Taloja, Navi Mumbai

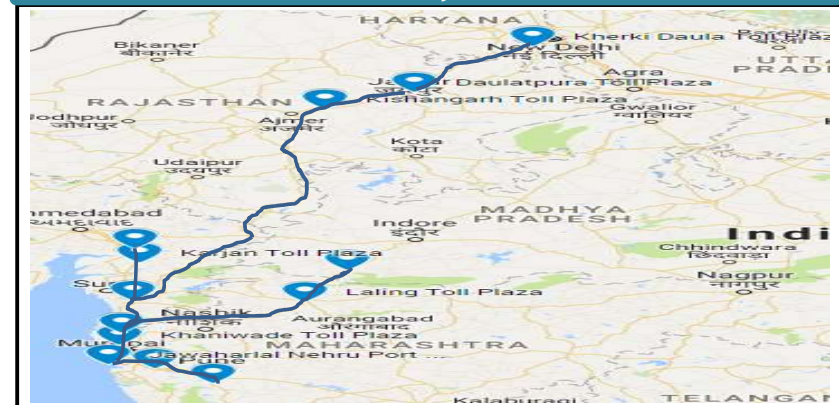
Western Corridor Toll Plaza Analysis

Avg. Travel Time & Speed between Toll Plazas (Sep'18)

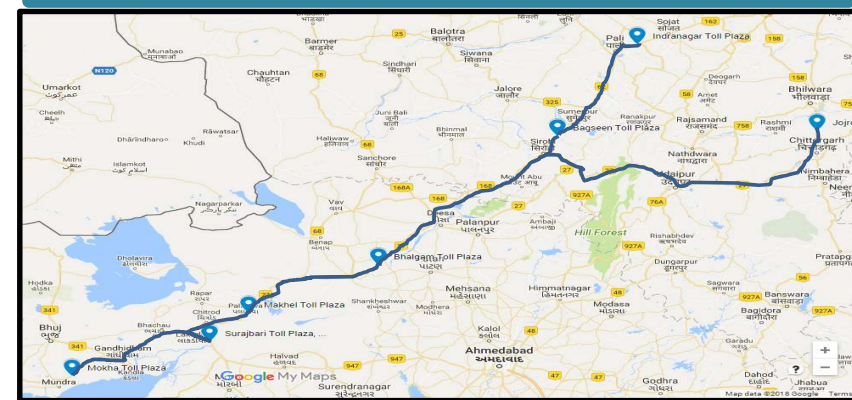
	Source	Destination Toll Plaza	Inter Distance (Km)	Aug'18 Avg. Speed (Km/Hr.)	Sep'18 Avg. Speed (Km/Hr.)	
JNPT	JNPT	Khaniwade	94	7.2	11.9	↑
	JNPT	Khalapur	60	4.9	6.0	↑
	Khaniwade	Charoti	50	31.2	36.2	↓
	Charoti	Boriach	126	25.7	25.2	↓
	Boriach	Bharthan	142	30.1	30.6	↑
	Bharthan	Vasad	60	43.4	42.3	↓
	Khalapur	Khedshivpur	105	26.8	28.6	↑
	Daulatpura	Kherki	199	23.8	22.0	↓
APSEZ	MICT	Mokha	28	22.3	22.6	↑
	Mokha	Makhel	150	24.5	15.0	↓
	Mokha	Surajbari	115	27.4	14.6	↓
	Makhel	Bhalgam	108	37.4	33.1	↓
	Bhalgam	Uthamam	209	29.4	24.6	↓
	Uthamam	Indranagar	109	36.3	17.8	↓

↑↓ The arrows depict increase/decrease in overall performance of the stakeholders as compared to previous month

Toll Plaza - JNPT Port



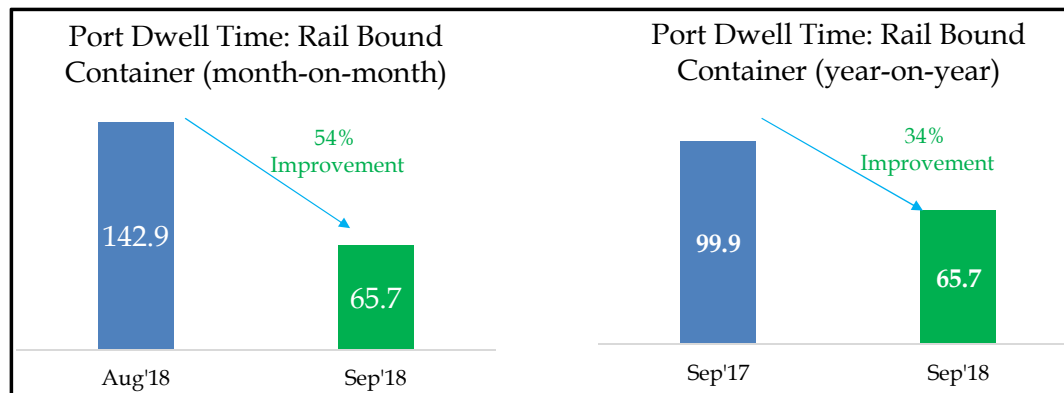
Toll Plaza - APSEZ Port



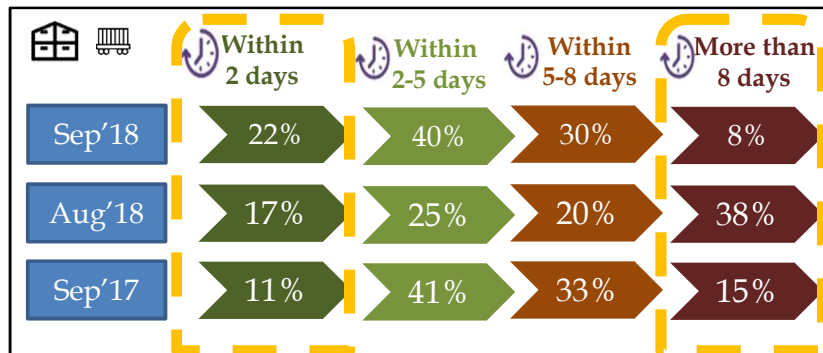
KEY FINDINGS

Rail Bound Container Analysis: JNPT Port

There has been a significant improvement in handling rail bound containers at JNPT port in Sep'18 as compared to previous months, further analysis has been done to understand its impact on container import lifecycle



There has been an increase in number of containers getting cleared from port within 2 days. Also, there has been significant reduction in number of containers taking more than 8 days to get cleared from port



Impact

Improvement in Container Import Lifecycle

This improvement has made **positive impact on container import lifecycle** (via rail).

AVERAGE CONTAINER IMPORT LIFECYCLE TIME (via RAIL)

Import Cycle	Aug'18 (in days)	Sep'17 (in days)	Sep'18 (in days)
	13.9	11.9	10.4

This has led to **25% and 12% of improvement** respectively in **month-on-month & year-on-year** import lifecycle performance

Container import lifecycle = Port Dwell Time + Port to ICD Delivery Time + ICD Dwell Time



THANK YOU