

# DLDS Monthly Report JNPT

July 2017



- Executive Summary
- LDB Analytics
- LDB Operations
- LDB Service Roadmap



DLDS's Logistics Databank Project is currently providing Container visibility services for more than 70% of India's Container Volume and as on date has provided services for more than **3.8 million EXIM Containers of India** in the western corridor starting from the port till the ICD's through a single window.

DLDS successfully completed a year of its operations across the **JNPT Port terminals**, and in this period of time it has delivered multiple benefits to the stakeholders in terms of **Container Tracking, Performance Benchmarking, Congestion & Bottleneck Analysis & Value added services** which is enabling the Users/ Trade in identifying the inefficiencies/ bottlenecks across the supply chain and bringing in the desired efficiencies.

Across the other Port terminals, JNPCT terminal has better performance wherein it has cleared more than 73% of import containers via train within 5 days.

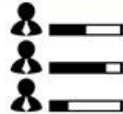
In the current month report we have highlighted the areas of improvement over a period of time across the JNPT region.



# LDB Footprint at JNPT- From OND 2016- AMJ 2017



Performance Benchmarking



Performance Index



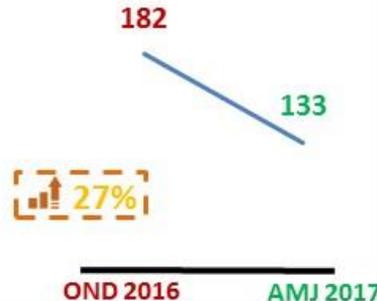
Container Clearance Time analysis



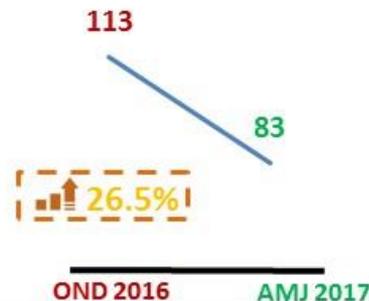
Overall JNPT Region



Overall ICDs Dwell Time



Overall CFS Dwell Time



Visibility & Transparency helping in streamlining Business Processes resulting in lesser time for clearances.



Congestion Analysis



Bottleneck Identification



Overall Port to ICDs average Delivery Time (in Days)



Overall Port to CFS average Delivery Time (in hrs)



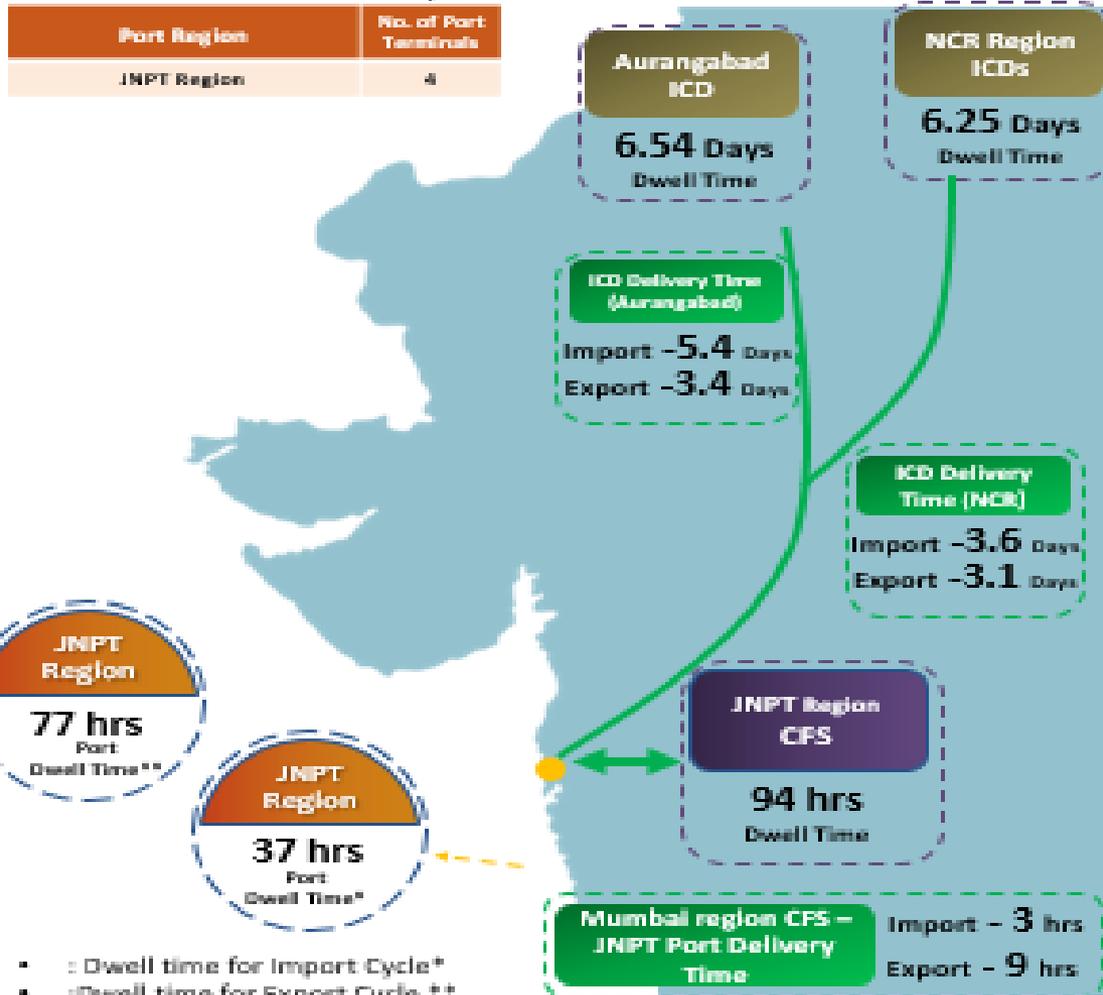
Publishing Performance Benchmarking with Stakeholders providing them view of their performance vis-à-vis competitors & inculcating competition.

Identifying bottlenecks helping in addressing the challenges effectively.



## Western corridor : At a glance

The below figure depicts overall scenario of India's western corridor for month of July'17



## JNPT Region

### Top Performing Terminal

<b>JNPCT</b>	Dwell Time : 57hrs.
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### Low Performing Terminal

<b>NSIGT</b>	Dwell Time : 65hrs.
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### Top Performing ICD

<b>CMA CGM Agencies ICD, Dadri</b>	Dwell Time : 102 hrs.
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### Low Performing ICD

<b>Allcargo Logistics Park ICD, Dadri</b>	Dwell Time : 163 hrs.
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### Top Performing CFS's

<b>CWC Dronagiri CFS, Navi Mumbai</b>	Dwell Time : 67 hrs.
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<b>Speedy Multimode CFS, JNPT</b>	Dwell Time : 68 hrs.
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### Low Performing CFS's

<b>Vaishno Logistics CFS, Navi Mumbai</b>	Dwell Time :122 hrs.
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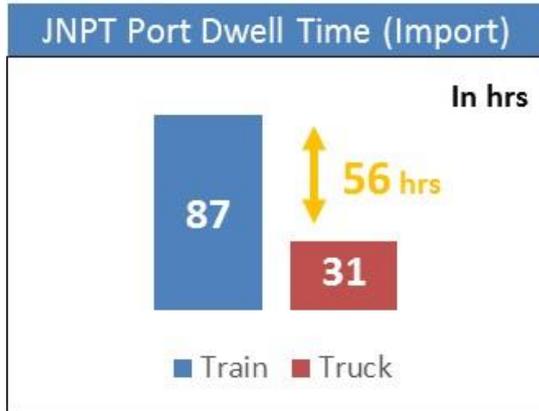
<b>Ashte Logistics CFS, Panvel</b>	Dwell Time :113 hrs.
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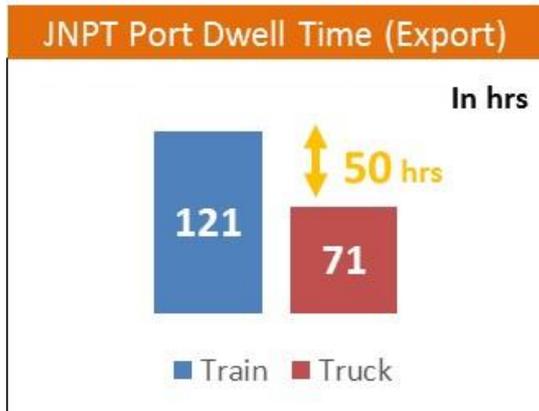
# LDB Analytics



# Key Findings- High Port Dwell Time Analysis



Majority of Train Bound Containers at JNPT taking > 5 days for clearance leading to High Dwell Time at Port Terminals



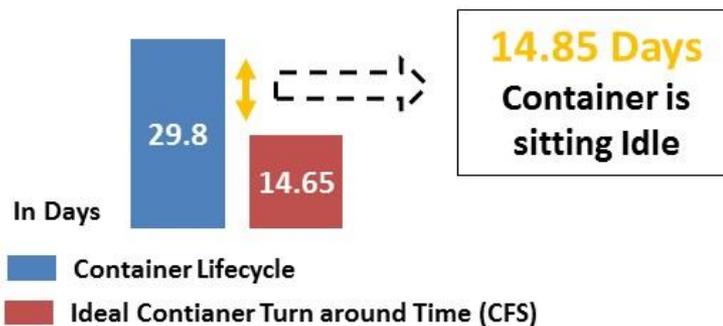
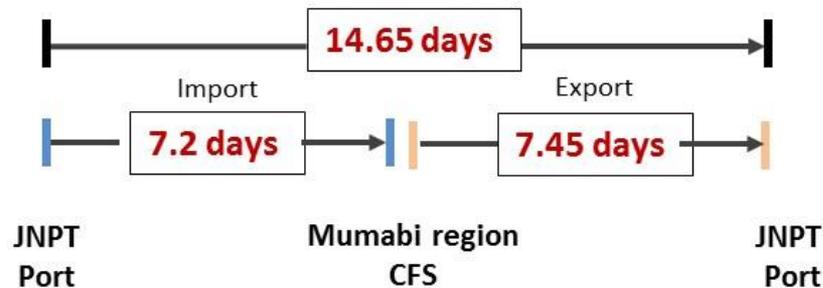
# Key Findings- High Container Waiting Time

Container Movement	Time Taken
Container Lifecycle (i.e. import via JNPT and export via JNPT) *	29.8 days
Time taken from JNPT port in to CFS out ( import) **	<b>7.2 days</b>
Time taken from CFS in to JNPT Port out (for Export)**	<b>7.45 days</b>

\* : data from January'17 to June'17

\*\* : data of month of July'17

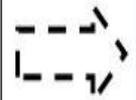
## Ideal Container Turn around time (CFS) : Based on LDB data



Shanghai Port  
China  
Container  
Lifecycle  
**13 days**

Source : Paper by CMA CGA

## High Export Delivery Time – CFS to Port Terminals



JNPT Terminal	Congestion at Gate (Export)
GTI	High
JNPCT	Medium
NSICT	Medium
NSIGT	High

Pre-arrival of container at port gate from CFS and factories

Congestion due to bad roads



## 2.1 Highpoints :

JNPCT terminal Container  
Clearance for import

< 5 days — 73%

JNPCT terminals cleared 73% of import container volume via train before 5 days while maintaining its performance from previous month unlike other terminals

Congestion Reduced At

NSICT By  
JNPT gate ↓ 21.8%

Gate Congestion has reduced at the following Port terminal:

- NSICT(Import cycle) by 21.8 %

Congestion Index  
Congestion reduced (Import )

↓ JNPT Area 17%  
Sonari area, JNPT road 14%

- There has been a decrease in traffic congestion around
  - JNPT area by 17 %
  - Sonari area, JNPT road by 14% from past month in import cycle

 Speed Index

Speed increase  
between two  
toll plaza 5 points

Speed between two toll plaza has increased this month at 5 points

- JNPT Khaniwade - 18%
- Khaniwade - Charoti - 24%
- Charoti- Boriach -16%
- Bharthan-Vasad -20%
- Kishanagarh-Daulatpura -12.5%



## Low Performers for month of July'17



Low performer of month of July'17	Dwell Time
Port Terminal :NSIGT	48 hrs
CFS : Vaishno Logistics CFS, Navi Mumbai	122 hrs
ICD : Allcargo Logistics Park ICD, Dadri	163 hrs

## JNPT Port terminals container clearance via train,

> 5 days

50% Export  
40% Import

Port container clearance process via trains- Degraded performance compared to earlier.

In export cycle 50% and in import only 60 % containers were cleared before 5 days

## Congestion Index

Congestion increase (import )



Cluster 5	264%
Cluster 6	69%

In import cycle high traffic congestion is spotted around following area

- Plaspa area, Coachi Kanyakumari **Cluster 5**
- HighwayPatilpada area
- Salva apta rd area, Banglore highwa **Cluster 6**

## Gate Congestion at



APM

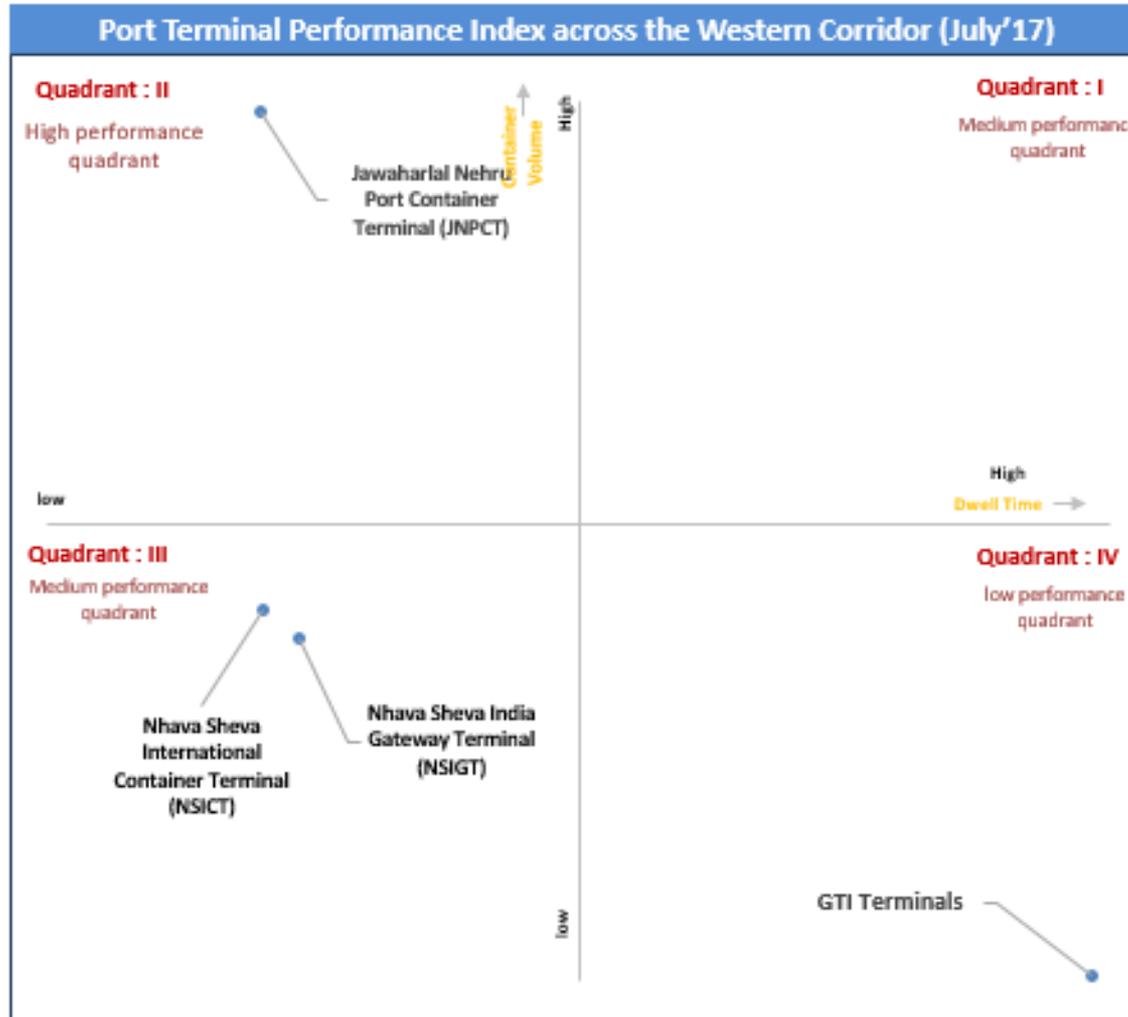
JNPT terminals

Gate Congestion has increased at the following Port terminals:

- APM Terminal

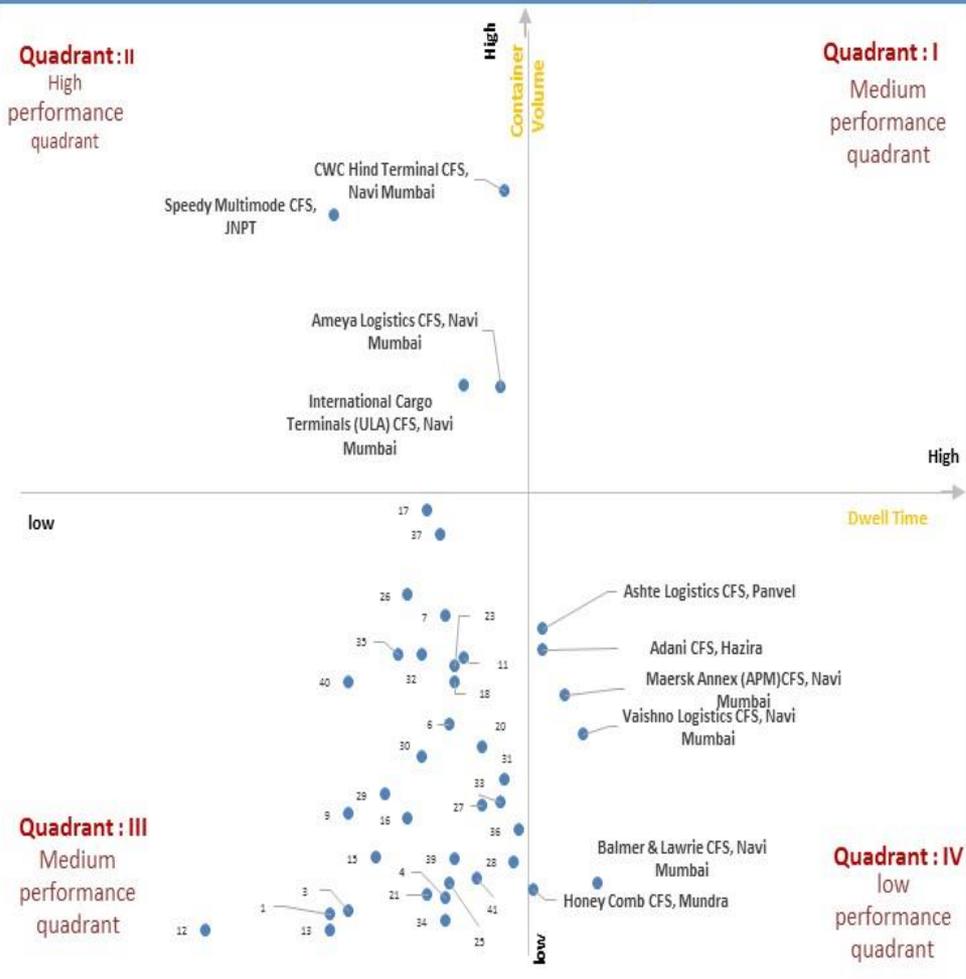
This can be attributed to the **Ransomware** attack at the terminal, due to which all the operations this month at the gate were performed manually

# Performance Index- Port Terminals

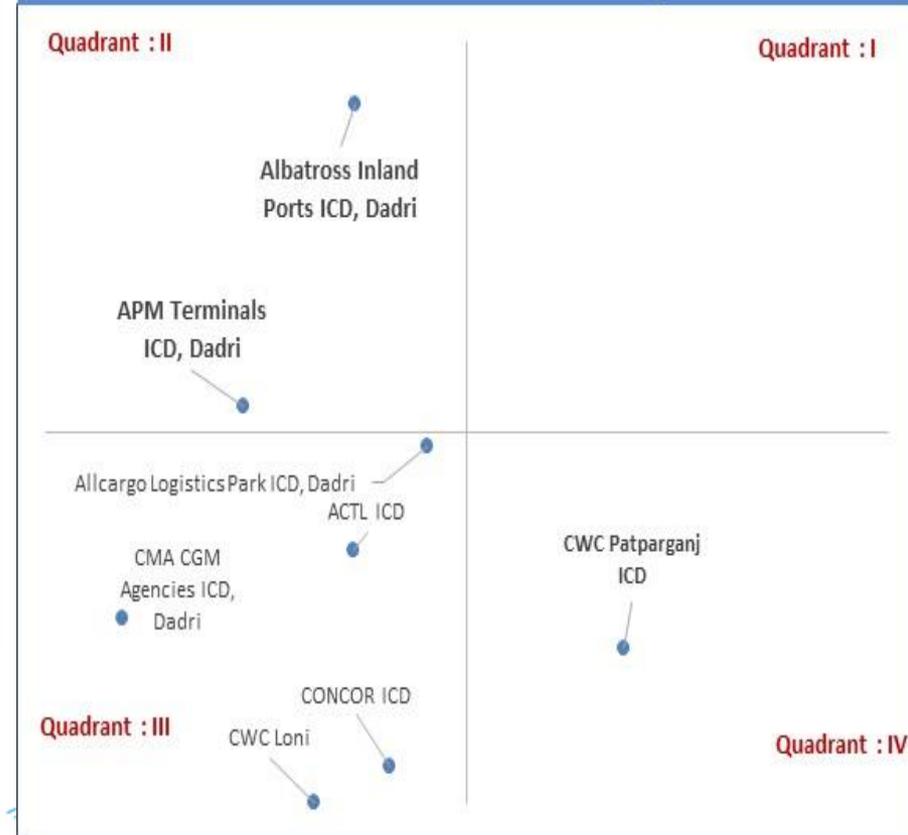


# Performance Index- CFS & ICD's

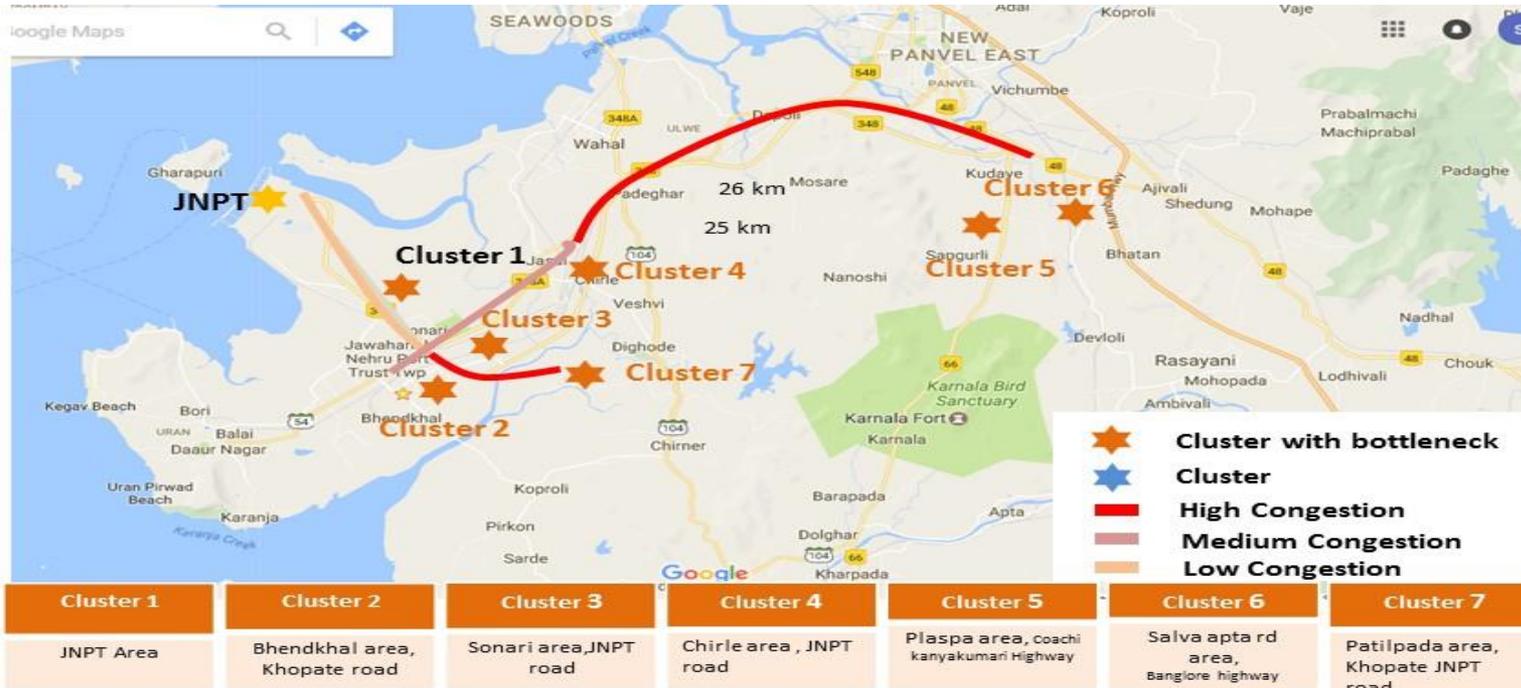
## CFS Performance Index for July'17



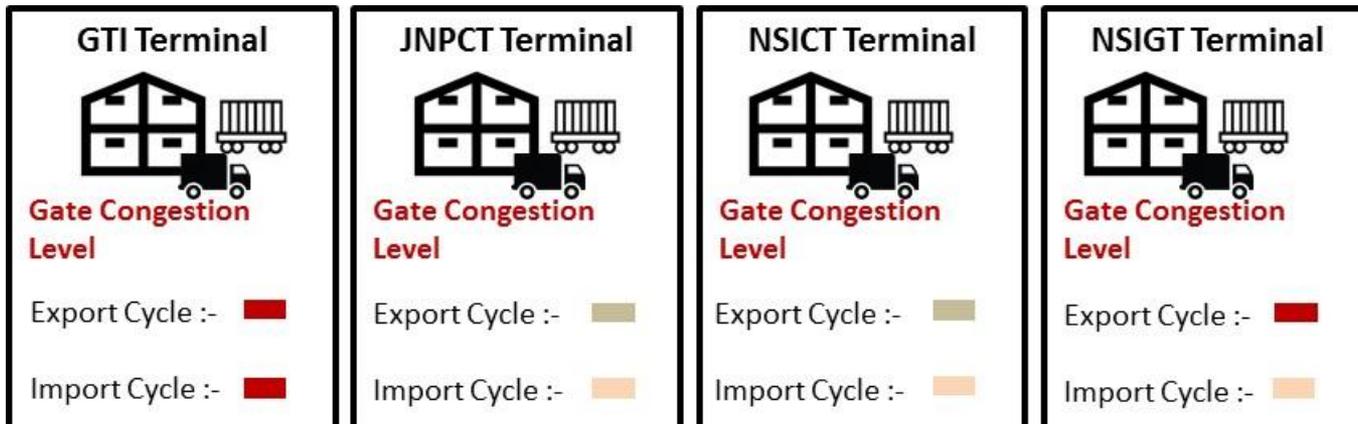
## ICD Performance Index for July'17



# LDB Analytics- Congestion Analysis



Note: Please find the respective CFS in each cluster in annexure section

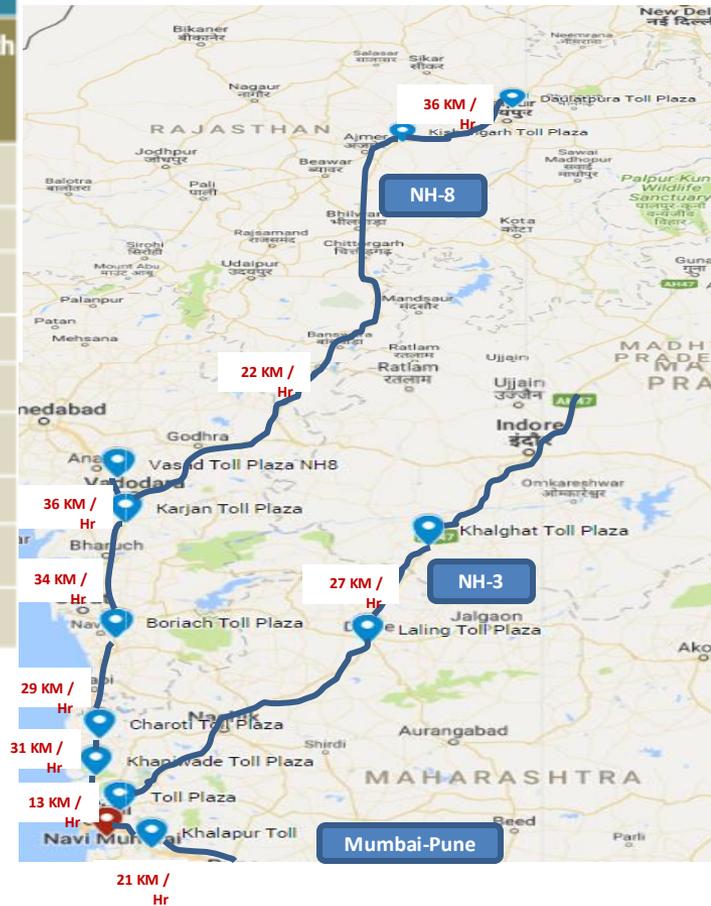


Scale : High Congestion Medium Congestion Low Congestion

# LDB Analytics- Congestion Analysis- Toll Plaza

Avg. Travel Time & Speed between Toll Plazas (July'17)

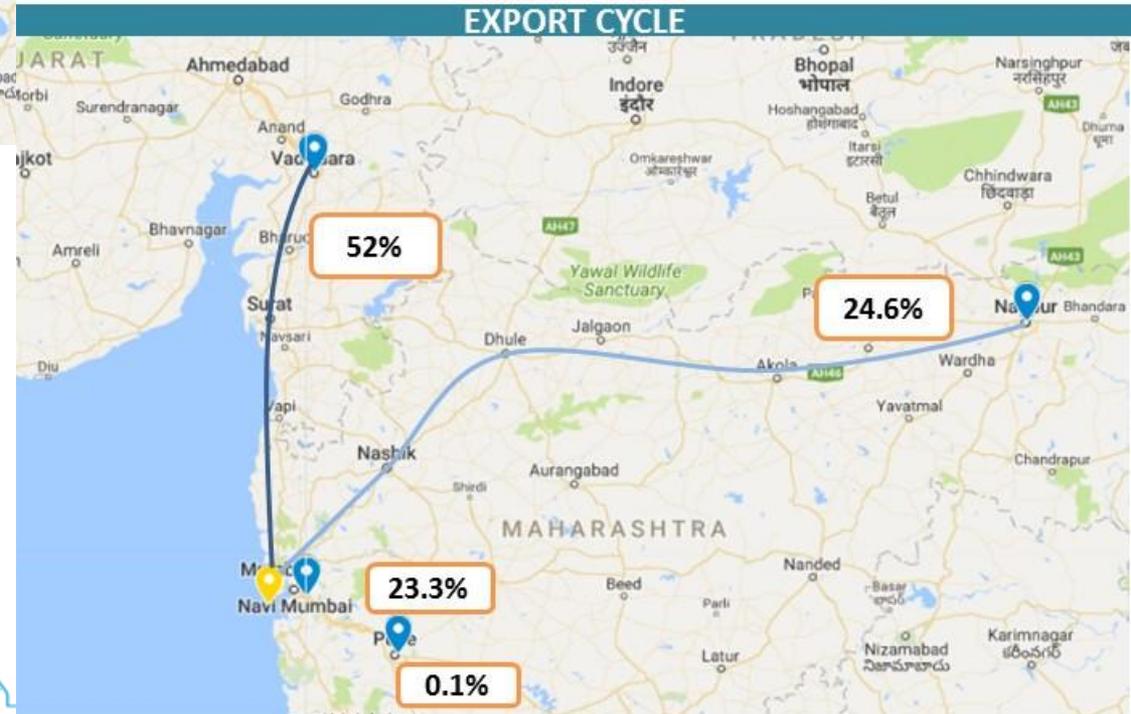
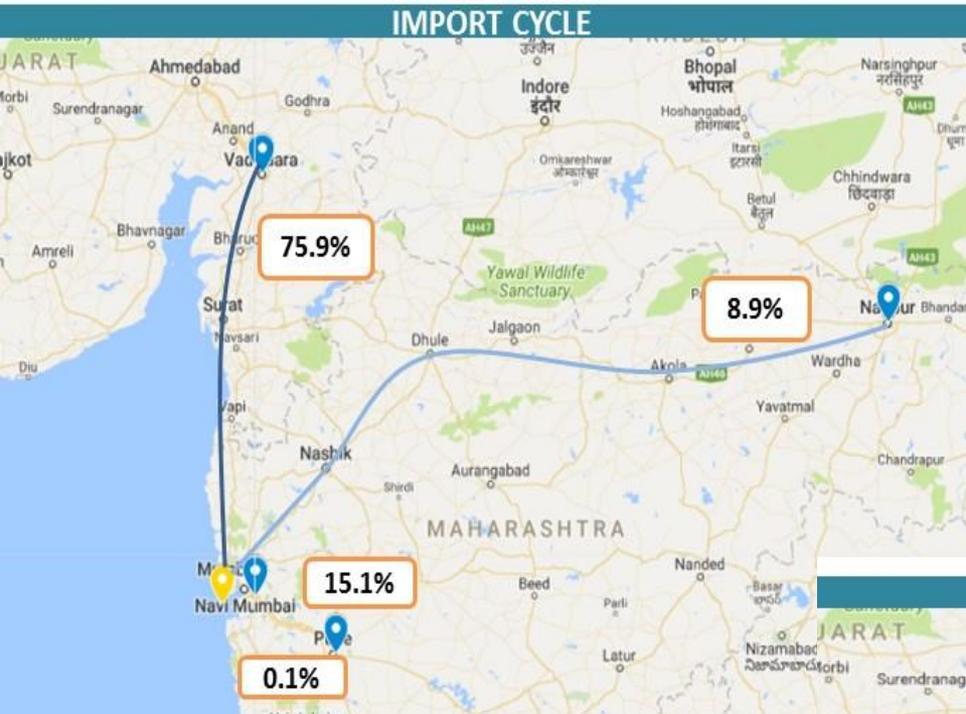
Source	Destination Toll Plaza	Inter Distance (Km)	Avg. Travel Time (Hr)	Avg. Speed (Km/Hr.)	Previous month Avg. speed (km/hr.)
JNPT	Khaniwade	94	5	13	11
JNPT	Khalapur	60	2	21	22
Khaniwade	Charoti	50	1.25	31	25
Charoti	Boriach	126	4	29	25
Boriach	Bharthan	142	4	34	36
Bharthan	Kishangarh	686	29	22	24
Bharthan	Vasad	60	1.25	36	30
Kishangarh	Daulatpura	128	3	36	32
Dhule	Khalghat	186	7	27	27



Average speed from **Bharthan to Kishangarh** and **Boriach to Barthan** has decreased from the previous month showing the signs of traffic congestion in the Barthan area.



# LDB Analytics- Container Heatmap Via Train- JNPT



# LDB Analytics- Container Heatmap Via Truck- JNPT

## Heat Map :JNPCT Port Terminal

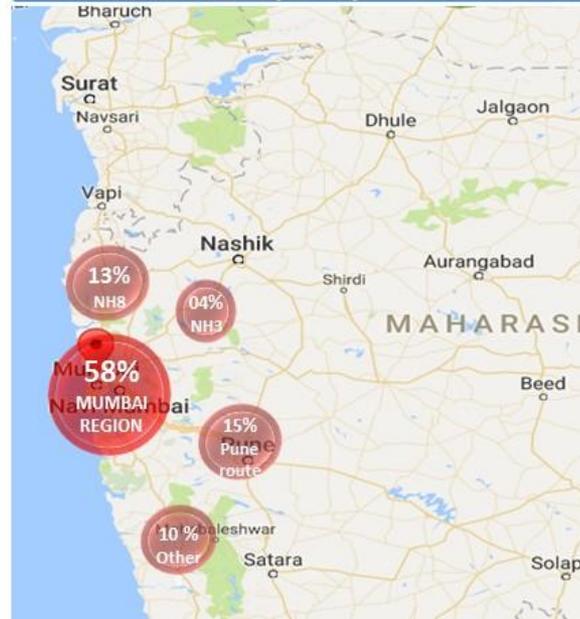
Heat Map : July 2017



Region	June'17	July'17
Mumbai Region	64%	59%
Pune	12%	14%
NH8	12%	14%
NH3	2%	3%
Others	10%	10%

## HEAT MAP : NSICT Port Terminal

Heat Map : July 2017

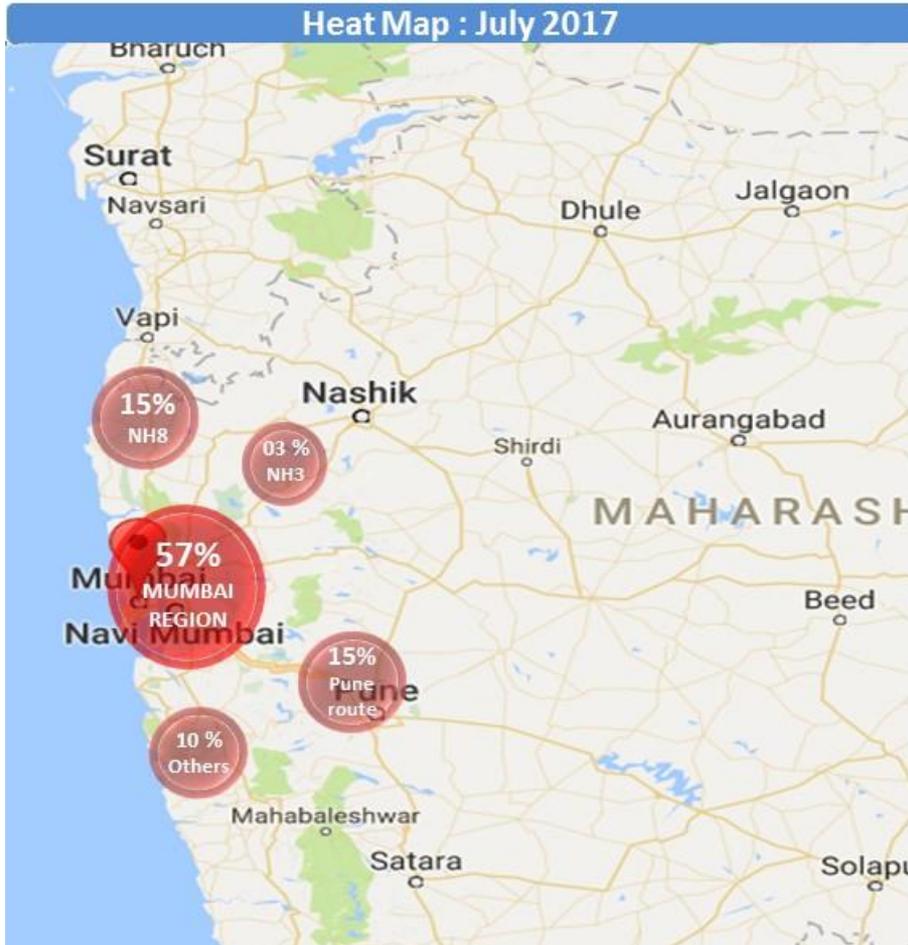


Region	June'17	July'17
Mumbai Region	58%	51%
Pune	15%	19%
NH8	13%	16%
NH3	4%	4%
Others	10%	10%



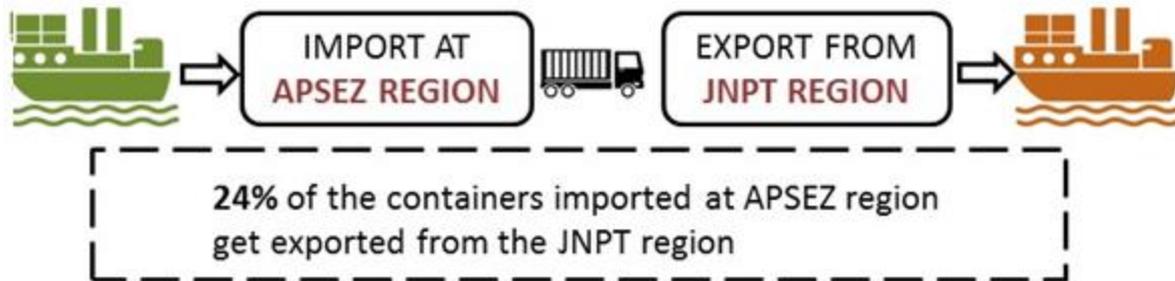
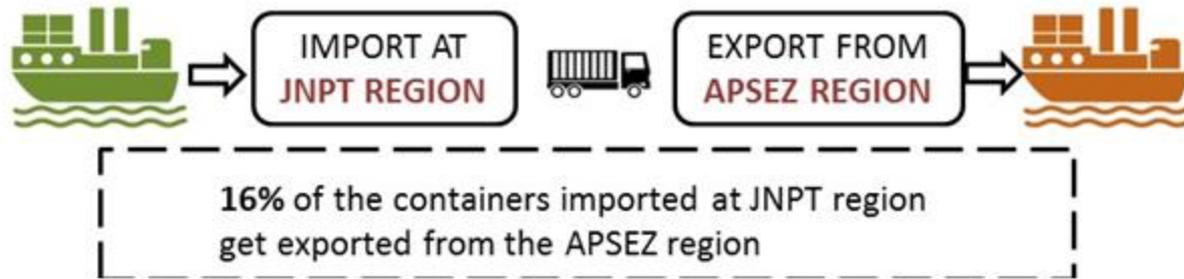
## JNPT Region

Heat Map : July 2017



Region	June'17	July'17
Mumbai Region	63%	57%
Pune	13%	15%
NH8	12%	15%
NH3	2%	3%
Others	10%	10%





## Vessel Turn Around Time & Avg Vessel berthing Volume

Port	Turn Around Time	Avg. no. of vessel Calling per month
<b>JNPT , Mumbai</b>	<b>2-2.5 days</b>	<b>160</b>
<b>APSEZ ,Mundra</b>	<b>0-1 day</b>	<b>190</b>
Shanghai , China	0-1 day	1500
Singapore	1-2 days	1500
Rotterdam , Netherland	1-2 days	600
Port Klang, Malaysia	0-1 day	1000
Hamburg , Germany	1-2 days	400

**Source:** Indian Ports Association, Merko Analytics.

**Source:** LDB Data, Logistics Performance Index, World Bank.

## Average Port Dwell Time

Ports	Dwell Time(in Hrs)
<b>JNPT, India*</b>	<b>48</b>
<b>APSEZ , Mundra*</b>	<b>53</b>
Singapore	31
Jabel Ali, Dubai	29
Hong Kong	17
Port Klang , Malaysia	17
Hamburg , Germany	37
Shanghai , China	20

## Global Ranking of Top Container Ports (FY 16)

Countries	Container Handled (IN Million TEU's)	Port	Container Handled (IN Million TEU's)
Shanghai , China	37	<b>JNPT , Mumbai</b>	<b>4.5</b>
Singapore	30.9		
Shenzhen , China	23.9	<b>Adani Port SEZ , Mundra</b>	<b>3.9</b>
Rotterdam , Netherland	12.23		
Port Klang , Malaysia	11.89		
Hamburg , Germany	8.8		

**Source:** Indian Ports Association, Logistics Performance Index



Port	Average Lead Time (In Days)
Shanghai , China	6.5
JNPT , Mumbai*	14
APSEZ , Mundra*	14

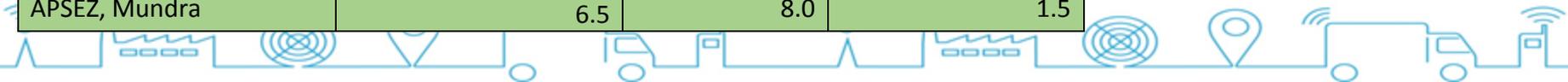
**Source:** LDB Data, Logistics Performance Index

Container Ports of India vis-à-vis Asia for the year 2016	
Port Custom Clearance Time (2016)	
Port	Port Custom Clearance Time
Singapore	10 minutes
Indonesia(Tanjung Priok)	0.6 days
JNPT	4 days

Source : Marine and port authority of Singapore , Central Board of Exercise and Custom, The Jakarta Post

Arrival v/s Departure handling time for rail bound containers (Port/ICD rail bottleneck in Hrs.)			
Port Terminal	Arrival handling duration	Departure handling duration	Difference
ICDs, Dadri	3.0	5.9	2.9
JNPT, Mumbai	3.1	7.7	4.6
APSEZ, Mundra	6.5	8.0	1.5

**Source:** LDB Data



# LDB Operations

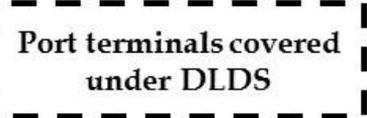


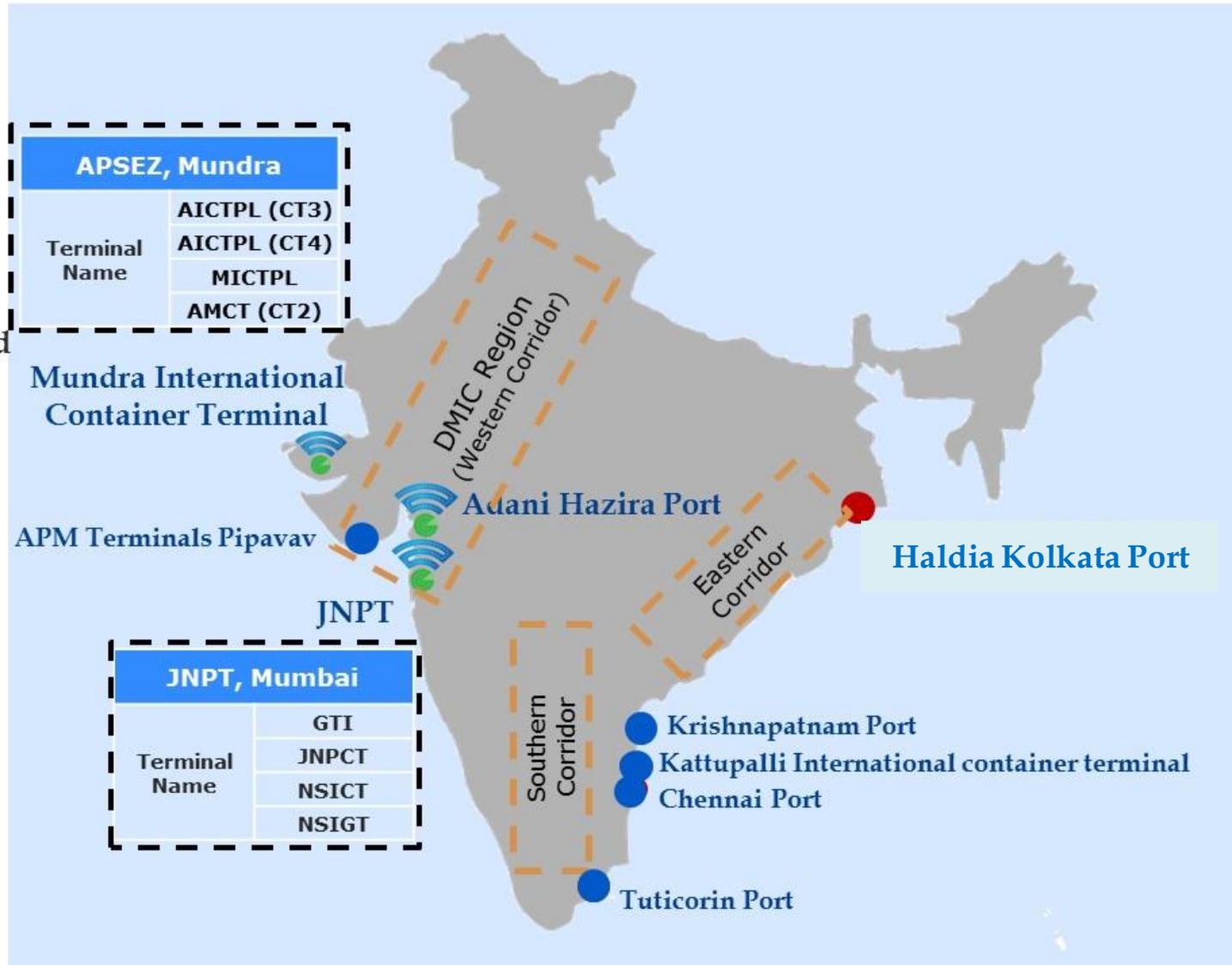
# Port Terminals

 Ports where LDB service is Operational

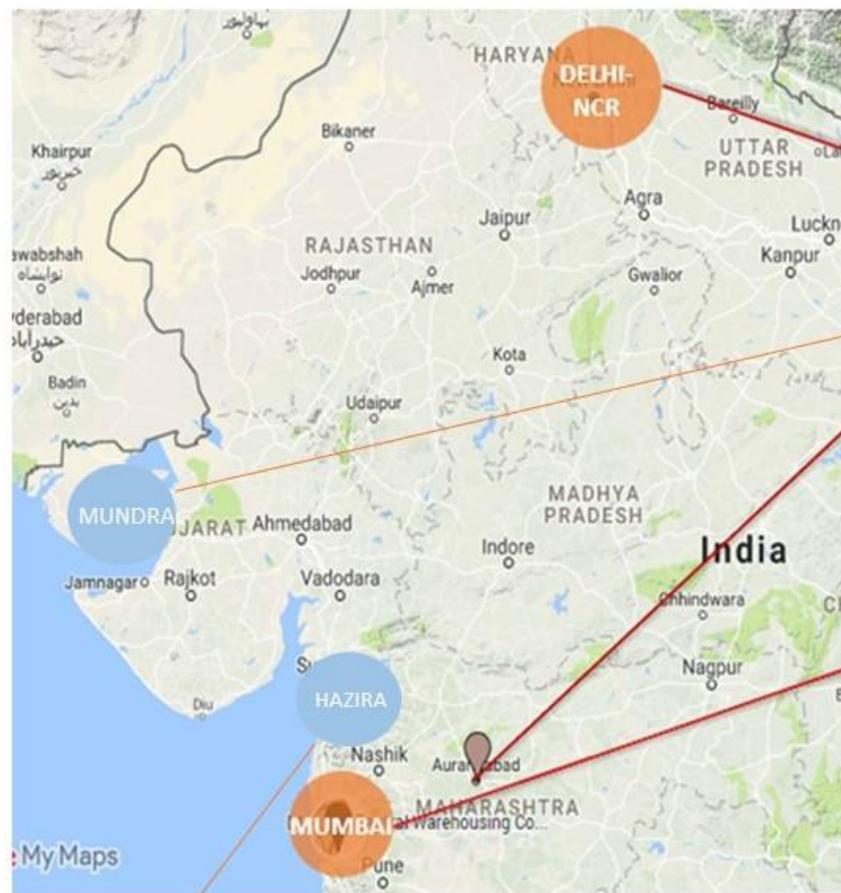
 Ports to be covered in next phase

 Ports to be covered in the Final Phase

 Port terminals covered under DLDS



# ICD/ CFS Coverage in Western Corridor



- 1. APM ICD- DADRI
- 2. ALBATROSS ICD - DADRI
- 3. CMA CGM ICD - DADRI
- 4. ALL CARGO ICD - DADRI
- 5. ACTL ICD -FARIABAD
- 6. CWC ICD - PATPARGANJ
- 7. CWC ICD - LONI

- ### HONEYCOMB CFS
- ALLCARGO CFS
  - MUNDRA CFS
  - SAURASHTRA CFS
  - CWC CFS
  - TG TERMINALS CFS
  - TRANSINDIA CFS
  - MICT CFS
  - ADANI EXIM YARD

- 1. CONCOR ICD - AURANGABAND

- 1. AMEYA CFS
- 2. SEABIRD CFS
- 3. GATEWAY DISTRI PARKS CFS
- 4. CONTINENTAL WEARHOUSIG
- 5. ASTHE LOGISTICS
- 6. OCEAN GATE CFS
- 7. INDEV LOGISTICS
- 8. JWC LOGISTIC PARK
- 9. JNPT CFS (Speedy)
- 10. BALMER LAWRIE CFS
- 11. TRANSINDIA LOGISTICS
- 12. MAERSK CFS APM
- 13. MAERSK ANNEXE CFS (APM)

- 14. NAVKAR CORPORATION YARD 1
- 15. NAVKAR CORPORATION YARD 2
- 16. NAVKAR CORPORATION YARD 3
- 17. APOLLO LOGI-SOLUTIONS
- 18. ALCARGO LOGISTICS
- 19. ULA ICT
- 20. PUNJAB CONWARE CFS
- 21. DRT- CONCOR
- 22. CWC LOGISTICS PARK
- 23. CWC CFS IMPEX PARK
- 24. CWC CFS DRONAGIRI NODE
- 25. VAISHNAV LOGISTIC CFS
- 26. MAHARASHTRA CFS

- SEABIRD CFS
- ADANI EXIMWAY CFS

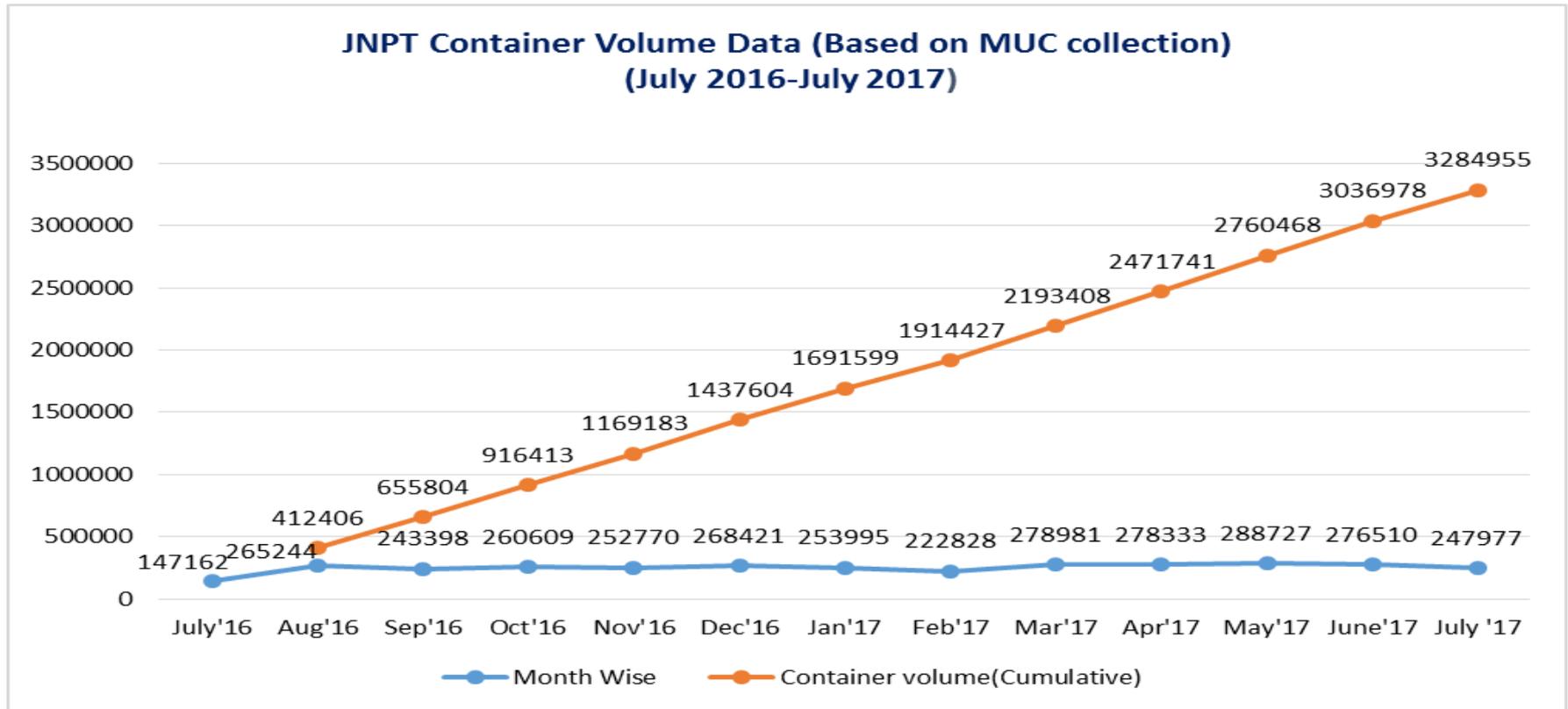
43 Container Freight Stations & 8 Inland Container Depot's currently providing LDB service across the western corridor

All 12 Operational Toll Plazas in western corridor covering NH3, NH8 & Mumbai - Pune expressway Route

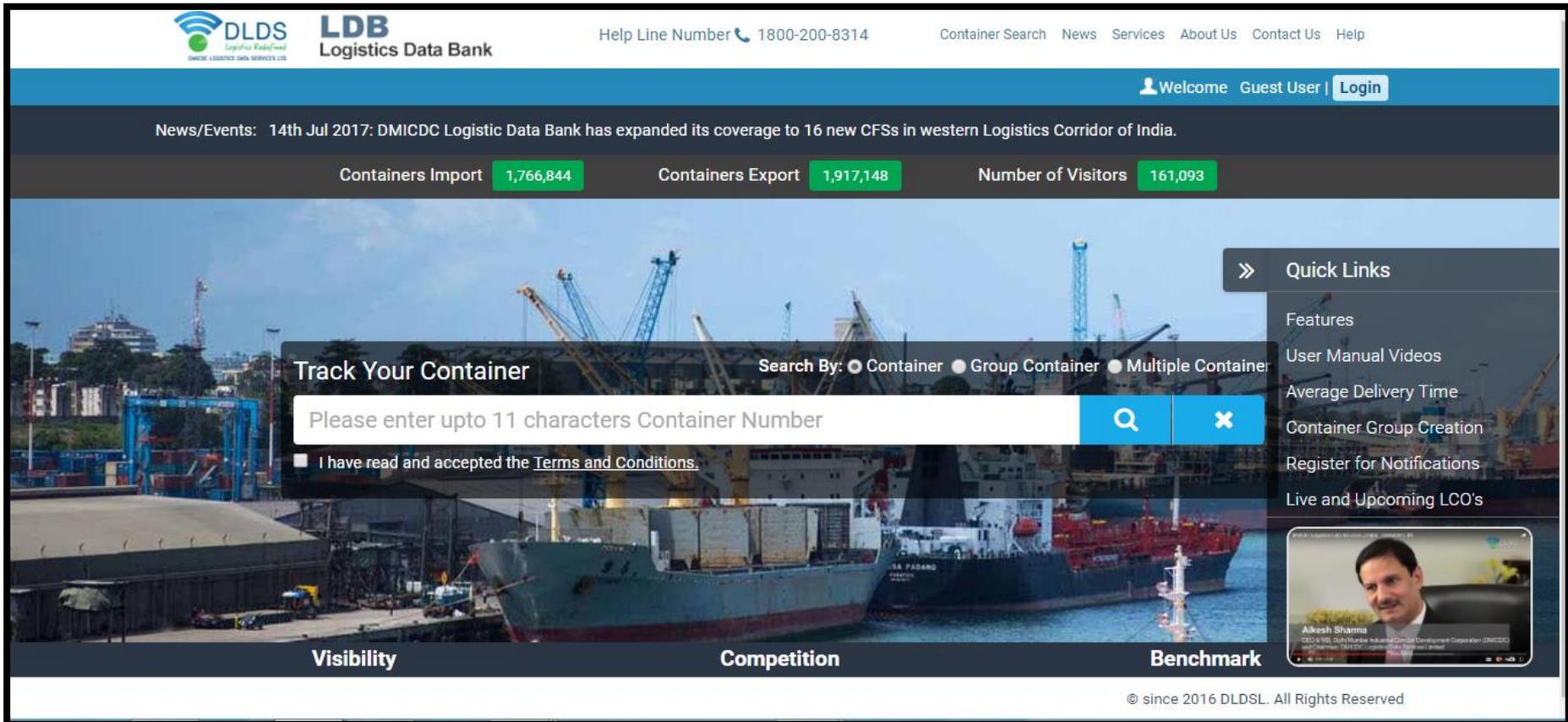
Sr. No	Toll Plaza Name	State	NH
1	Charoti	MH	8
2	GVK Kishangarh	Rajasthan	8
3	LnT VBTL	Gujarat	8
4	Daulatpura	Rajasthan	8
5	Boriyach	Gujarat	8
6	Kharegaon (Dismantled)	MH	3
7	Dhule	MH	3
8	Khaniwade	MH	8
9	Khalapur	MH	MSRDC
10	Kalyan	MH	MSRDC
11	Vasad	Gujarat	8
12	Khalghat	MP	3

12 Toll Plazas currently providing LDB service across the western corridor

## Container Traffic Movement Trends in JNPT



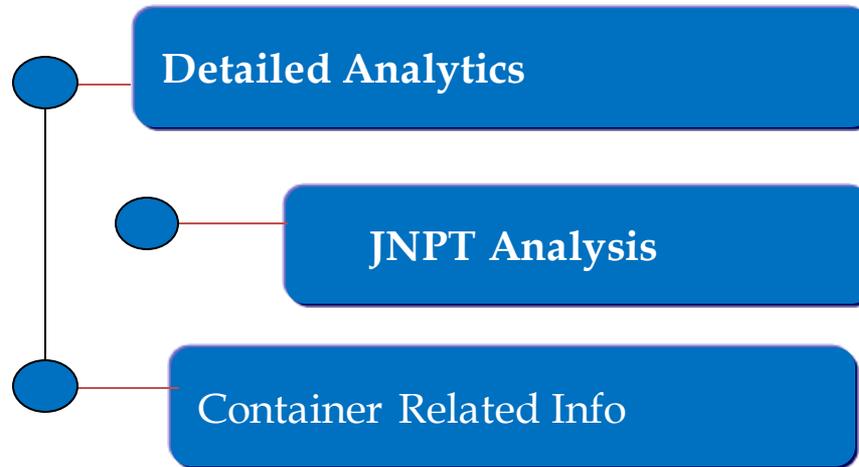
Decrease of EXIM container volume across the Port terminals of JNPT for month of July 2017



The screenshot displays the LDB Portal interface. At the top, the DLDS logo and 'LDB Logistics Data Bank' are visible, along with a help line number (1800-200-8314) and navigation links for Container Search, News, Services, About Us, Contact Us, and Help. A user status bar shows 'Welcome Guest User | Login'. A news banner reports that on 14th Jul 2017, DMICDC Logistic Data Bank expanded its coverage to 16 new CFSS in the western Logistics Corridor of India. Below this, three statistics are shown: Containers Import (1,766,844), Containers Export (1,917,148), and Number of Visitors (161,093). The main content area features a 'Track Your Container' search form with a search bar, search buttons, and a checkbox for terms and conditions. A 'Quick Links' sidebar lists features like User Manual Videos, Average Delivery Time, and Container Group Creation. A video player at the bottom right shows a video by Aakash Sharma, CEO & V&E, Delhi Mumbai Industrial Corridor Development Corporation (DMICDC). The page footer includes a copyright notice: '© since 2016 DLDSL. All Rights Reserved'.

- Product roadmap is being planned to provide enhanced services through LDB Portal.
- Enhanced Analytics has been released to provide better services to the stakeholders.
- LDB has embedded the DLDS corporate video in LDB Portal to provide our current and prospective clients an in depth view of the company and its services. The video is available at <https://youtu.be/ofLaJY-ExPo>.
- LDB Link published in JNPT website enabling users to track the container movement across the western corridor.

# **ANNEXURE DLDS JULY MONTH**





## PORT Analysis



## ICDs Analysis



## CFSs Analysis



## Congestion Analysis



## HEAT MAP

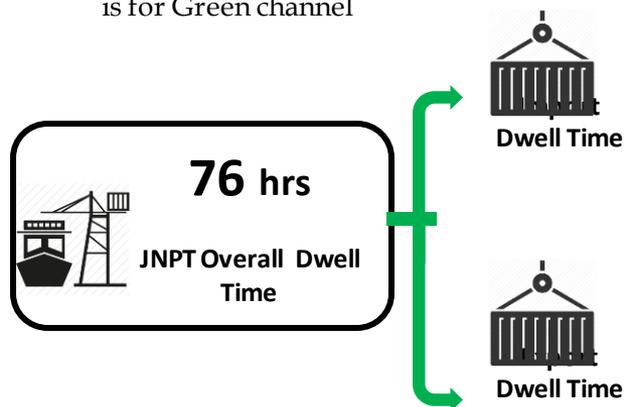


## Container Ports of India vis-à-vis Asia for the year 2016

Port Custom Clearance Time (2016)		
Port	Average Port Dwell Time(in days)	Port Custom Clearance Time
Singapore	1.5	10 minutes
Indonesia (Tanjung Priok)	3.7	0.6 days
JNPT	2.6	4 days

Source : Marine and port authority of Singapore , Central Board of Exercise and Custom, The Jakarta Post

Note : JNPT custom clearance time is for Green channel



Terminals	Average Dwell Time
GTI	NA
JNPCT	47
NSICT	61
NSIGT	101

Terminals	Average Dwell Time
GTI	NA
JNPCT	105
NSICT	94
NSIGT	90

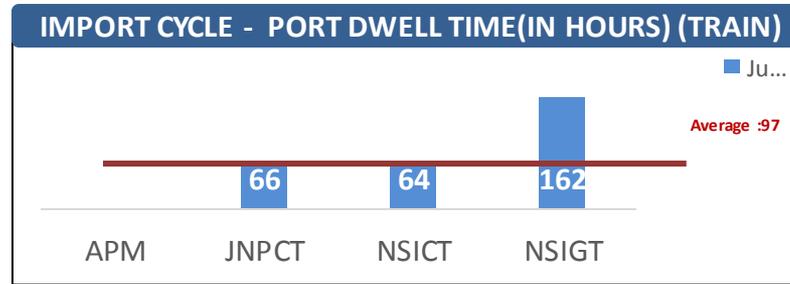
# JNPT Port Import Via Train

## PORT IMPORT via TRAIN

The Port Dwell time data for train movement in import cycle is depicted in the following table.

Port	June'17 (in Hrs)	July'17 (in Hrs)
APM	54	NA
JNPCT	73	66
NSICT	69	64
NSIGT	88	162

The below table depicts the average port dwell time in collation with individual dwell time of respective ports, NSIGT has its dwell time above the average dwell time for this month



## Container Volume Handled : Day wise (via train)

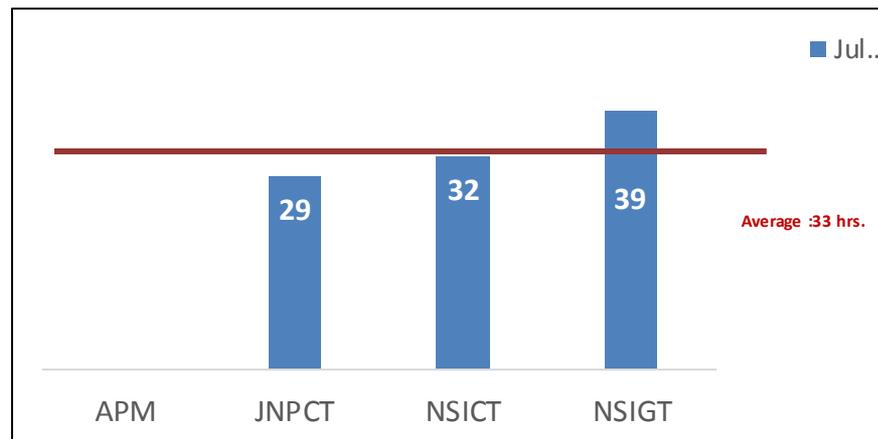


The Port Dwell time for truck movement in import cycle is depicted in the following table.

Port	June'17 (in Hrs)	July'17 (in Hrs)
APM	22	-
JNPCT	25	29
NSICT	28	32
NSIGT	26	39

The below table depicts the average port dwell time in collation with individual dwell time of respective port terminals, NSIGT is the only port terminal with dwell time above the average time for this month

## IMPORT CYCLE - PORT DWELL TIME(IN HOURS) (TRUCK)

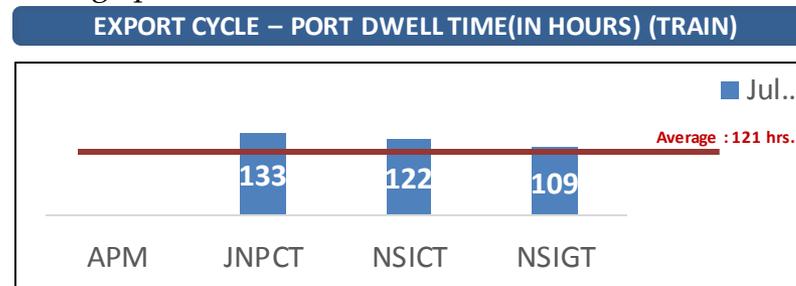


# JNPT Port Export via Train

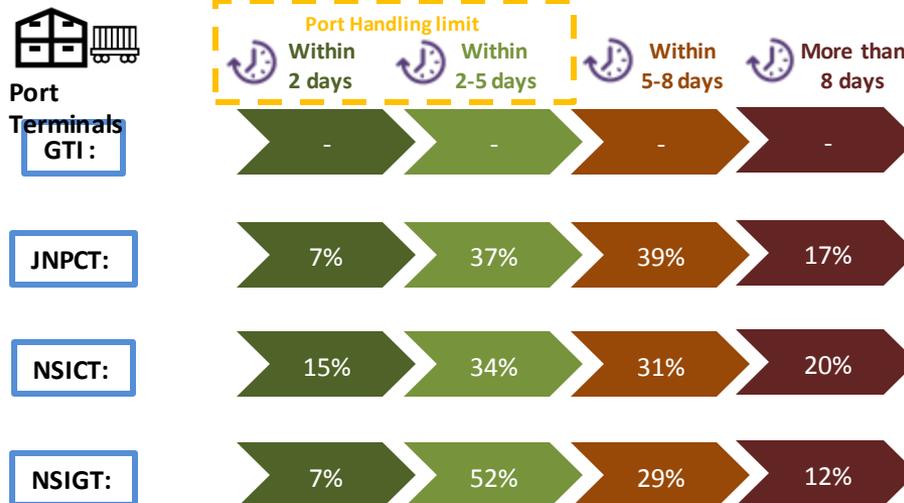
The Port Dwell time for train movement in export cycle is depicted in the following table.

Port	June'17(in hrs)	July'17(in hrs)
APM	118	-
JNPCT	110	133
NSICT	118	122
NSIGT	107	109

The below graph depicts the average port dwell time in collation with individual dwell time of respective ports



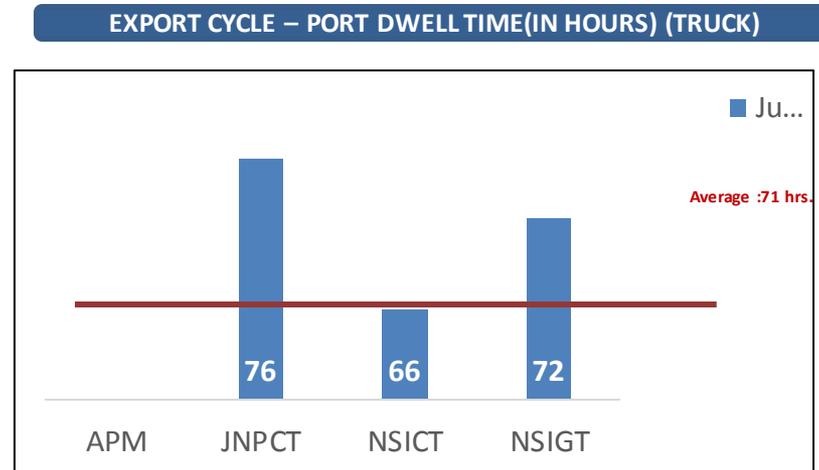
## Container Volume Handled : Day wise (via train)



The Port Dwell time for truck movement in export is depicted in the following table.

Port	June'17(in hrs)	July'17(in hrs)
APM	69	-
JNPCT	75	76
NSICT	73	66
NSIGT	70	72

The below table depicts the average port dwell time in collation with individual dwell time of respective ports



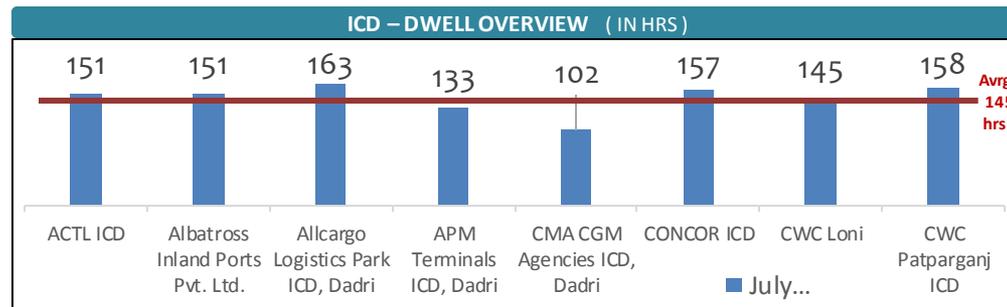
The table on the right depicts the dwell of all ICDs for month of June'17 and July'17.

The below graph depicts the average dwell time in collation with individual dwell time of respective ICD,

Dwell Time (in Hrs)		
ICD	June'17	July'17
ACTL ICD	121	151
Albatross Inland Ports Pvt. Ltd.	104	151
All cargo Logistics Park ICD, Dadri	155	163
APM Terminals ICD, Dadri	120.5	133
CMA CGM Agencies ICD, Dadri	88	102
CONCOR ICD	153	157
CWC Loni	100	145
CWC Patparganj ICD	109.5	158

## ICD DWELL TIME ANALYSIS

ICD with dwell time above Average dwell time for July'17



### Top Performing ICD

**CMA CGM Agencies ICD, Dadri**

Dwell Time : 102 hrs.

### Low Performing ICD

**Allcargo Logistics Park ICD, Dadri**

Dwell Time : 163 hrs.

Below table shows the average delivery time of ICD in import cycle i.e. Port out to ICD in via rail transportation

ICD- AVG DELIVERY TIME PORT OUT TO ICD IN (TRAIN)	
Region	July'17 (in Days)
NCR region	3.6
Aurangabad	5.4

Below table shows the average delivery time of ICD in export cycle i.e. ICD out to port in via rail transportation

ICD- AVG DELIVERY TIME ICD OUT TO PORT IN (TRAIN)	
Region	July'17 (in Days)
NCR region	3.1
Aurangabad	3.4

Below table shows the average lead time of ICD in import cycle i.e. Port in to ICD out via train. The CFS's in NCR region have low dwell time as compare to Aurangabad region, thus making the lead time for the Aurangabad region higher as compare to NCR region

ICD- AVG LEAD TIME (TRAIN)	
Region	July'17 (in Days)
NCR region	14.1
Aurangabad	16.1

Calculation :

Port Dwell Time + Port to ICD Delivery Time + ICD Dwell Time = Avg. Lead Time from Port to ICD

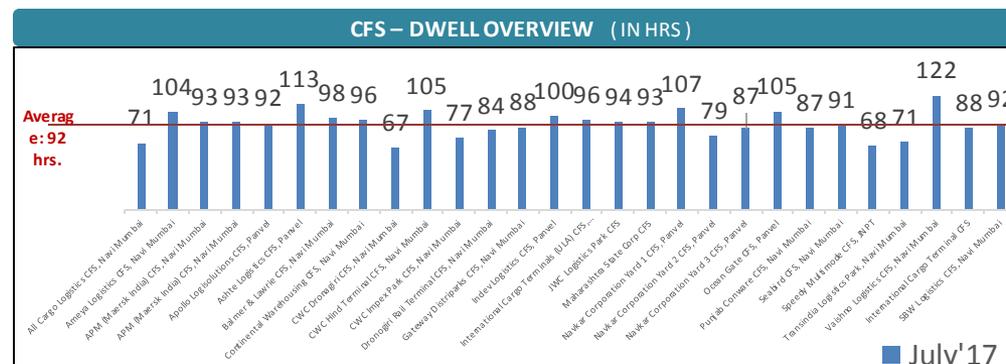
## CFS DWELL TIME ANALYSIS

CFS	CFS Dwell Time (in hrs)		CFS	June'17	July'17
	June'17	July'17			
All Cargo Logistics CFS, Navi Mumbai	65	71	International Cargo Terminals (ULA) CFS, Navi Mumbai	82	96
Ameya Logistics CFS, Navi Mumbai	79	104	JWC Logistics Park CFS	75	94
APM (Maersk India) CFS, Navi Mumbai	79	93	Maharashtra State Corp CFS	76	93
APM (Maersk India) CFS, Navi Mumbai	98	93	Navkar Corporation Yard 1 CFS, Panvel	85	107
Apollo Logisolutions CFS, Panvel	83	92	Navkar Corporation Yard 2 CFS, Panvel	73	79
Ashte Logistics CFS, Panvel	93	113	Navkar Corporation Yard 3 CFS, Panvel	81	87
Balmer & Lawrie CFS, Navi Mumbai	69	98	Ocean Gate CFS, Panvel	81	105
Continental Warehousing CFS, Navi Mumbai	75	96	Punjab Conware CFS, Navi Mumbai	69	87
CWC Dronagiri CFS, Navi Mumbai	57	67	Seabird CFS, Navi Mumbai	79	91
CWC Hind Terminal CFS, Navi Mumbai	88	105	Speedy Multimode CFS, JNPT	66	68
CWC Impex Park CFS, Navi Mumbai	76	77	Transindia Logistics Park, Navi Mumbai	74	71
Dronogiri Rail Terminal CFS, Navi Mumbai	78	84	Vaishno Logistics CFS, Navi Mumbai	96	122
Gateway Distriparks CFS, Navi Mumbai	71	88	International Cargo Terminal CFS	NA	88
Indev Logistics CFS, Panvel	79	100	SBW Logistics CFS, Navi Mumbai	NA	92



**CFS with dwell time above Average dwell time for July'17**

The below graph depicts the a average dwell time in collation with i individual dwell time of respective CFS



# Top and Low Performing CFS's w.r.t Dwell Time

## Top Performing CFS's w.r.t Dwell time (July 2017)

CWC Dronagiri CFS, Navi Mumbai	<b>Dwell Time : 67 Hrs</b>
Speedy Multimode CFS, JNPT	<b>Dwell Time : 68 Hrs</b>

## Low Performing CFS's w.r.t Dwell time (July 2017)

Balmer & Lawrie CFS, Navi Mumbai	<b>Dwell Time : 98 Hrs</b>
Vaishno Logistics CFS, Navi Mumbai	<b>Dwell Time : 122 Hrs</b>

## CFS - AVERAGE DELIVERY TIME - GTI/APM TO ALL CFS's IN MUMBAI

Below table shows the average delivery time in import cycle from GTI/APM to all the CFS's

### AVERAGE DELIVERY TIME ( In Hrs )- GTI/APM TO ALL CFS IN MUMBAI

CFS	June'17	July'17	CFS	June'17	July'17
Speedy Multimode CFS, JNPT	1	1	Indev Logistics CFS, Panvel	3	3
All Cargo Logistics CFS	5	NA	International Cargo Terminals (ULA) CFS, Navi Mumbai	2	3
Ameya Logistics CFS	2	5	JWC Logistics Park CFS	3	28
APM (Maersk India) CFS, Navi Mumbai	2	NA	Maersk Annex (APM)CFS, Navi Mumbai	2	2
Apollo Logisolutions CFS, Panvel	3	7	Maharashtra State Corp CFS	2	17
Ashte Logistics CFS	2	5	Navkar Corporation Yard 1 CFS	3	NA
Balmer & Lawrie CFS, Navi Mumbai	2	NA	Navkar Corporation Yard 2 CFS, Panvel	2	NA
Continental Warehousing CFS	1	NA	Navkar Corporation Yard 3 CFS, Panvel	2	21
CWC Dronagiri CFS, Navi Mumbai	2	NA	Ocean Gate CFS, Panvel	2	NA
CWC Impex Park CFS, Navi Mumbai	1	0	Punjab Conware CFS, Navi Mumbai	2	12
CWC Hind Terminal CFS, Navi Mumbai	1	2	Seabird CFS	1	NA
Dronagiri Rail Terminal CFS	2	1	Transindia Logistics Park, Navi Mumbai	2	3
Gateway Distriparks CFS	2	4			

Below table shows the average delivery time in import cycle from JNPT to all the CFS's

### AVERAGE DELIVERY TIME ( In Hrs )- JNPT TO ALL CFS IN MUMBAI

CFS	June'17	July'17	CFS	June'17	July'17
Speedy Multimode CFS, JNPT	1	1	Indev Logistics CFS, Panvel	3	4
All Cargo Logistics CFS	1	2	International Cargo Terminals (ULA) CFS, Navi Mumbai	2	2
Ameya Logistics CFS	2	3	JWC Logistics Park CFS	2	3
APM (Maersk India) CFS, Navi Mumbai	2	3	Maersk Annex (APM)CFS, Navi Mumbai	2	3
Apollo Logisolutions CFS, Panvel	3	4	Maharashtra State Corp CFS	1	1
Ashte Logistics CFS	2	3	Navkar Corporation Yard 1 CFS	3	4
Balmer & Lawrie CFS, Navi Mumbai	1	2	Navkar Corporation Yard 2 CFS, Panvel	2	3
Continental Warehousing CFS	1	1	Navkar Corporation Yard 3 CFS, Panvel	2	3
CWC Dronagiri CFS, Navi Mumbai	NA	2	Ocean Gate CFS, Panvel	3	3
CWC Impex Park CFS, Navi Mumbai	1	1	Punjab Conware CFS, Navi Mumbai	2	3
CWC Hind Terminal CFS, Navi Mumbai	1	2	Seabird CFS	2	2
Dronagiri Rail Terminal CFS	1	1	Transindia Logistics Park, Navi Mumbai	2	3
Gateway Distriparks CFS	2	3	Vaishno Logistics CFS, Navi Mumbai	1	1

# CFS Delivery Time Analysis

Below table shows the average delivery time in import cycle from NSICT to all the CFS's

## AVERAGE DELIVERY TIME ( In Hrs )- NSICT TO ALL CFS IN MUMBAI

CFS	June '17	July'17	CFS	June'17	July'17
Speedy Multimode CFS, JNPT	1	1	Indev Logistics Pvt. Ltd.CFS	2	3
AllCargo Logistics CFS	1	2	International Cargo Terminals & Infrastructure Private Limited-CFS	2	2
Ameya Logistics Pvt. Ltd.	NA	3	JWC Logistics Park Ltd CFS	3	3
APM (Maersk India Pvt. Ltd)CFS	2	2	Maersk Annex (APM)CFS	2	4
Apollo Logisolutions Ltd.	NA	3	MAHARASHTRA STATE WARE. CORP. CFS	1	1
Ashte Logistics Pvt. Ltd.	2	3	NAVAKAR CORPORATION LTD.,YARD-1 CFS	3	3
Balmer & Lawrie & Co. Ltd.,CFS	1	2	NAVKAR CORPORATION LTD.,YARD-II CFS	4	3
Continental Warehousing (Nhava Sheva) Ltd.	1	1	NAVKAR CORPORATION LTD.YARD-III CFS	2	4
CWC Dronagiri CFS	5	1	Ocean Gate Container Terminals Pvt. Ltd.CFS	2	3
CWC IMPEX PARK CFS	1	1	PUNJAB CONWARE (PW)	2	5
CWC Hind Terminal CFS, Navi Mumbai	NA	2	Seabird Marine Services Pvt Ltd.	NA	2
Dronagiri Rail Terminal CFS	1	1	Transindia Logistics Park Pvt, Ltd CFS	2	2
Gateway Distriparks Ltd	2	3	Vaishno Logistics Yard CFS	1	1

Below table shows the average delivery time in import cycle from NSIGT to all the CFS's

## AVERAGE DELIVERY TIME ( In Hrs )- NSIGT TO ALL CFS IN MUMBAI

CFS	June'17	July'17	CFS	June'17	July'17
Speedy Multimode CFS, JNPT	1	1	Indev Logistics Pvt. Ltd.CFS	3	4
AllCargo Logistics CFS	1	1	International Cargo Terminals & Infrastructure Private Limited-CFS	1	3
Ameya Logistics Pvt. Ltd.	2	3	JWC Logistics Park Ltd CFS	2	4
APM (Maersk India Pvt. Ltd)CFS	2	2	Maersk Annex (APM)CFS	2	4
Apollo Logisolutions Ltd.	NA	4	MAHARASHTRA STATE WARE. CORP. CFS	1	1
Ashte Logistics Pvt. Ltd.	2	3	NAVAKAR CORPORATION LTD.,YARD-1 CFS	4	3
Balmer & Lawrie & Co. Ltd.,CFS	1	2	NAVKAR CORPORATION LTD.,YARD-II CFS	6	3
Continental Warehousing (Nhava Sheva) Ltd.	1	1	NAVKAR CORPORATION LTD.YARD-III CFS	4	3
CWC Dronagiri CFS	NA	2	Ocean Gate Container Terminals Pvt. Ltd.CFS	4	4
CWC IMPEX PARK CFS	2	1	PUNJAB CONWARE (PW)	6	2
CWC Hind Terminal CFS, Navi Mumbai	1	2	Seabird Marine Services Pvt Ltd.	NA	2
Dronagiri Rail Terminal CFS	1	1	Transindia Logistics Park Pvt, Ltd CFS	2	2
Gateway Distriparks Ltd	2	3	Vaishno Logistics Yard CFS	2	1

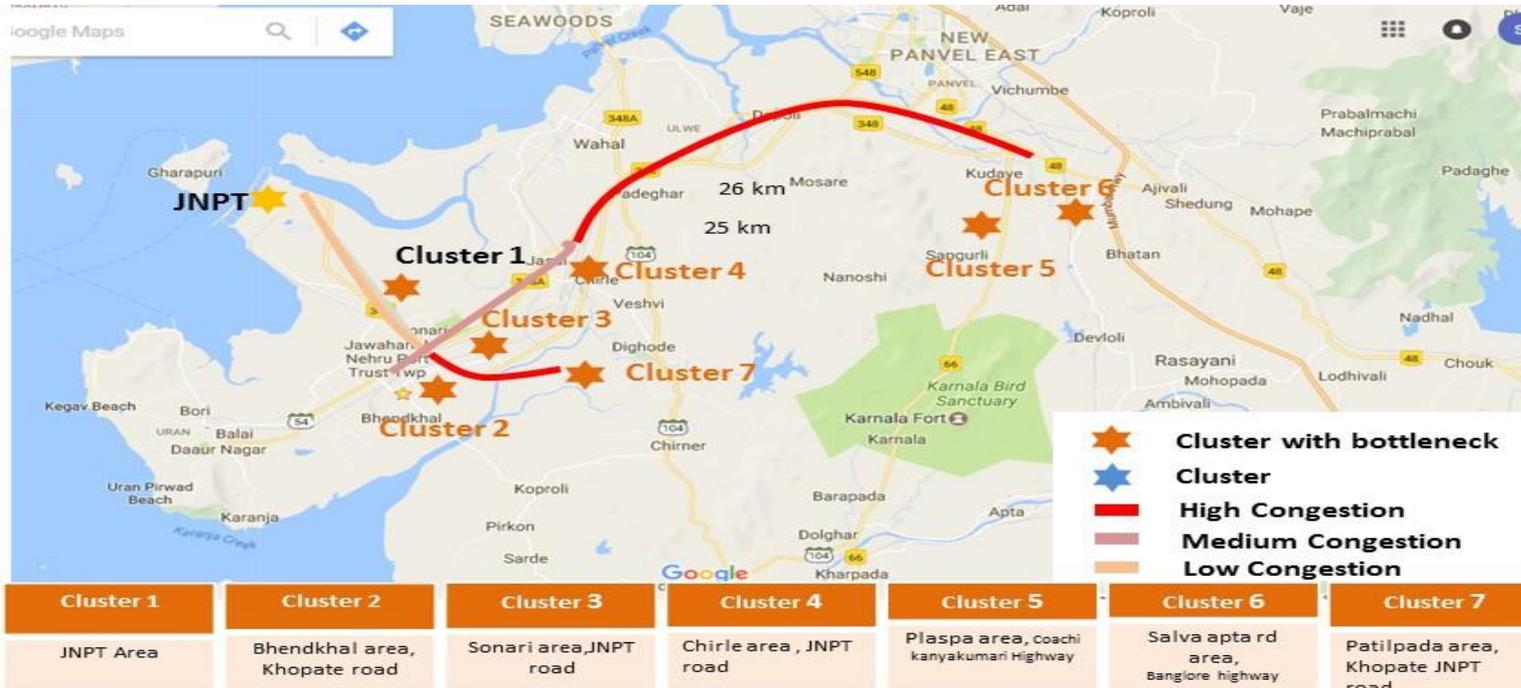
Below table shows the delivery time in export cycle from the CFS's to PORT terminals

Month of July'17				
CFS Out Port in (Export Cycle in Hrs)				
CFS	GTI	JNPCT	NSICT	NSIGT
Gateway Distriparks CFS, Navi Mumbai	9.93	2.79	5.81	14.17
Continental Warehousing CFS, Navi Mumbai	6	2.71	4.68	4.45
Seabird CFS, Navi Mumbai	13.5	3.48	7.89	14.61
Ameya Logistics CFS, Navi Mumbai	9.13	3.67	4.52	9.41
Ashte Logistics CFS, Panvel	18.13	4.50	22.42	4.54
NAVAKAR CORPORATION LTD.,YARD-1 CFS	9.65	17.67	17.92	0.00
Apollo Logisolutions CFS, Panvel	14.6	5.78	13.11	21.88
AllCargo CFS, Navi Mumbai	6.9	4.57	9.72	7.96
Navkar Corporation Yard 1 CFS, Panvel,YARD-II CFS	13.52	6.08	9.77	26.76
Punjab Conware CFS, Navi Mumbai	7.29	3.29	6.89	8.88
Dronogiri Rail Terminal CFS, Navi Mumbai	6.29	2.49	6.57	13.81
CWC Hind Terminal CFS, Navi Mumbai	10.54	3.64	5.31	12.54
Navkar Corporation Yard 1 CFS, PanvelYARD-III CFS	11.79	5.67	5.10	15.99
International Cargo Terminals (ULA) CFS, Navi Mumbai	15.25	4.81	10.68	12.14
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	5.04	2.39	5.89	7.88
Balmer & Lawrie CFS, Navi Mumbai	19.49	3.23	9.81	9.03
APM (Maersk India) CFS, Navi Mumbai	4.95	2.30	5.55	3.69
JWC Logistics Park CFS	6.82	4.70	8.66	11.37
Ocean Gate CFS, Panvel	6.13	3.23	10.53	8.02
Indev Logistics Pvt. Ltd	6.57	4.53	3.57	27.59
Transindia Logistics Park Pvt, Ltd	13.47	6.96	10.74	31.80
CWC Impex Park CFS, Navi Mumbai	4.47	2.74	1.86	3.97
CWC Dronagiri CFS, Navi Mumbai	8.11	3.62	3.86	12.91
Vaishno Logistics CFS, Navi Mumbai	7.6	2.73	6.61	15.72
Maharashtra State Corp CFS	9.5	2.98	2.84	11.12
Maersk Annex (APM)CFS, Navi Mumbai	5.73	16.66	43.18	12.50

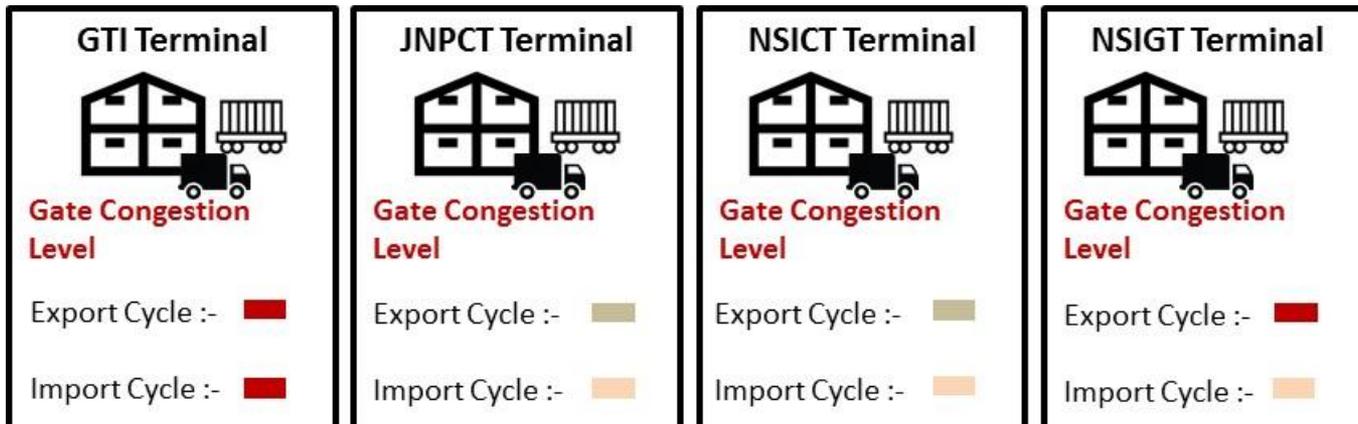
N.A : Not available

Note : specific CFS operates with specific Port terminals

# LDB Analytics- Congestion Analysis



Note: Please find the respective CFS in each cluster in annexure section



Scale : High Congestion Medium Congestion Low Congestion

Base on container movement from port to CFS in Mumbai region, 26 CFS's have been grouped into 7 Clusters on the basis of their vicinity. Below table shows all the clusters and the relevant data for GTI terminal

### CFS Cluster : GTI Terminal

- In export cycle the GTI terminal is having congestion for traffic from cluster 2, cluster 3, cluster 6, cluster 7
- In import cycle the movement of traffic towards cluster 5, cluster 6 is facing congestion

GTI terminal for month of July'17				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	0.88	5.04
Cluster 2	6	13	2.77	10.98
Cluster 3	6	11	7.58	8.19
Cluster 4	1	13	0.81	7.60
Cluster 5	2	25	28.11	6.48
Cluster 6	6	25	8.99	12.38
Cluster 7	4	12	4.66	8.88

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

Below table shows all the clusters and the relevant data for JNPCT terminal

### CFS Cluster : JNPCT Terminal

- In export cycle the JNPCT terminal is having traffic congestion from cluster 2, cluster 6

JNPCT terminal for month of July'17				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	0.62	2.30
Cluster 2	6	13	2.48	5.57
Cluster 3	6	11	1.79	3.10
Cluster 4	1	13	1.02	2.72
Cluster 5	2	25	3.20	3.97
Cluster 6	6	25	3.64	7.37
Cluster 7	4	12	2.13	4.48

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

Below table shows all the clusters and the relevant data for NSICT terminal

- Cluster 2 and Cluster 6 have shown congestion in Export Cycle for NSICT Terminal
- In Import cycle the NSICT terminal is having traffic congestion at Cluster 5 and Cluster 6

## CFS Cluster : NSICT Terminal

NSICT terminal for month of July'17				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	0.81	2.39
Cluster 2	6	13	2.51	5.57
Cluster 3	6	11	1.79	3.10
Cluster 4	1	13	1.05	2.72
Cluster 5	2	25	3.16	3.97
Cluster 6	6	25	3.17	7.37
Cluster 7	4	12	1.96	4.48

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

## CFS Cluster : NSIGT Terminal

- Cluster 5 and cluster 6 have shown congestion in Import cycle at NSIGT Terminal this month
- Cluster 2, Cluster 5 and Cluster 6 have shown traffic congestion in export cycle for reaching NSIGT terminal

Below table shows all the clusters and the relevant data for NSIGT terminal

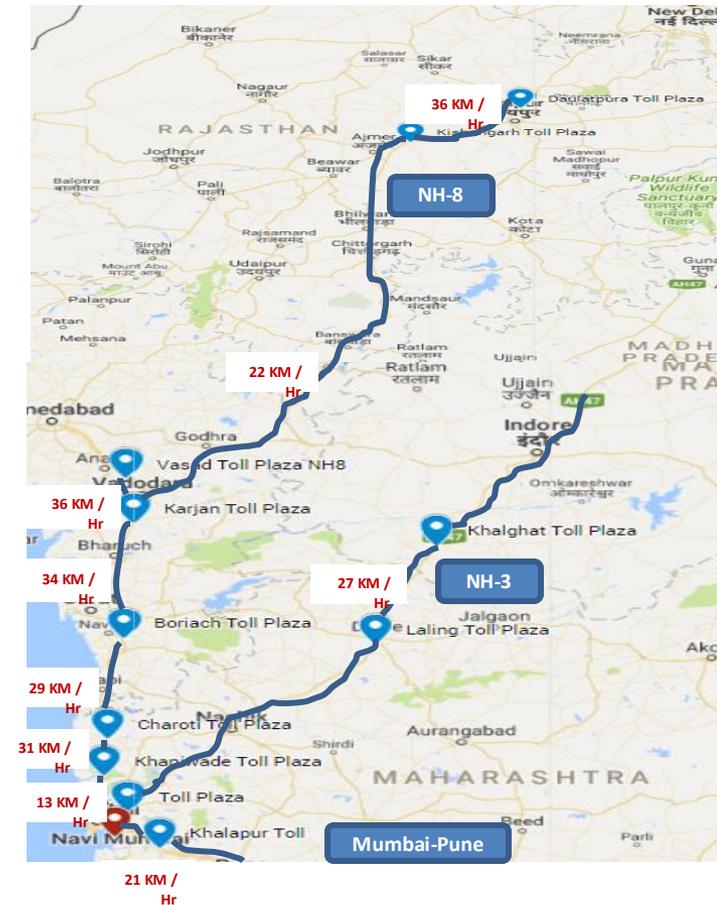
NSIGT terminal for month of July'17				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.01	5.89
Cluster 2	6	13	2.46	13.39
Cluster 3	6	11	1.71	4.99
Cluster 4	1	13	1.30	6.60
Cluster 5	2	25	3.80	9.59
Cluster 6	6	25	3.33	11.98
Cluster 7	4	12	2.03	7.41

Export container usually aren't allowed in the port before the arrival of their respective vessel so this unplanned transportation of the export containers from the CFS's to Port can cause **bottlenecks**

# LDB Analytics- Congestion Analysis- Toll Plaza

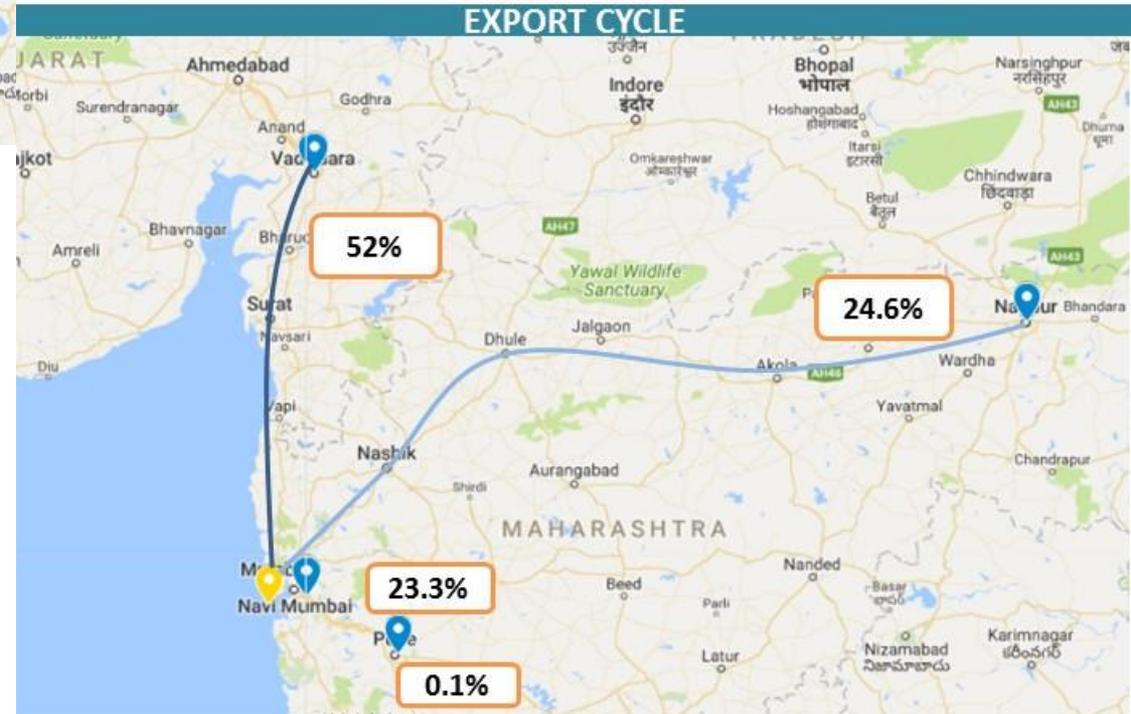
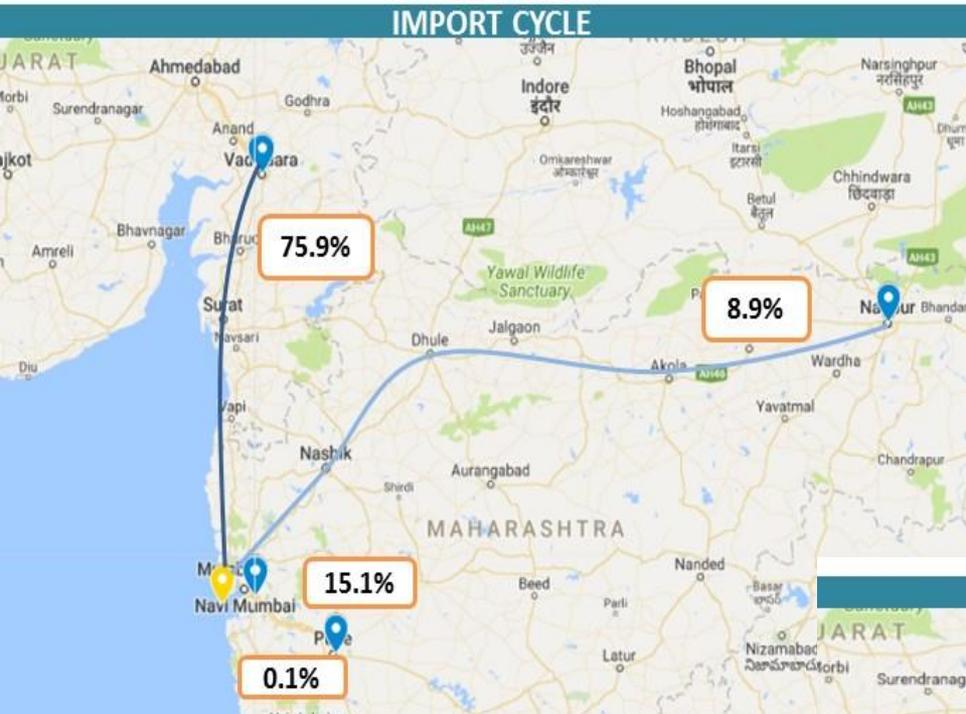
Avg. Travel Time & Speed between Toll Plazas (July'17)

Source	Destination Toll Plaza	Inter Distance (Km)	Avg. Travel Time (Hr)	Avg. Speed (Km/Hr)	Previous month Avg. speed (km/hr)
JNPT	Khaniwade	94	5	13	11
JNPT	Khalapur	60	2	21	22
Khaniwade	Charoti	50	1.25	31	25
Charoti	Boriach	126	4	29	25
Boriach	Bharthan	142	4	34	36
Bharthan	Kishangarh	686	29	22	24
Bharthan	Vasad	60	1.25	36	30
Kishangarh	Daulatpura	128	3	36	32
Dhule	Khalghat	186	7	27	27



Average speed from **Bharthan to Kishangarh** and **Boriach to Barthan** has decreased from the previous month showing the signs of traffic congestion in the Barthan area.

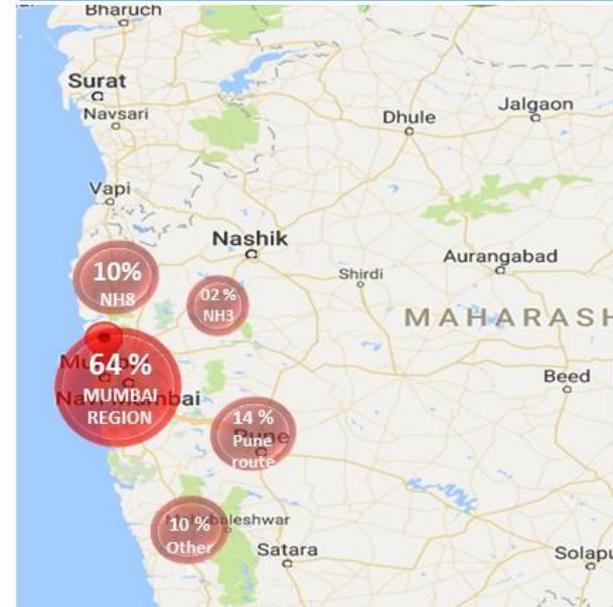
# LDB Analytics- Container Heatmap Via Train- JNPT



# LDB Analytics- Container Heatmap Via Truck- JNPT

## Heat Map :JNPCT Port Terminal

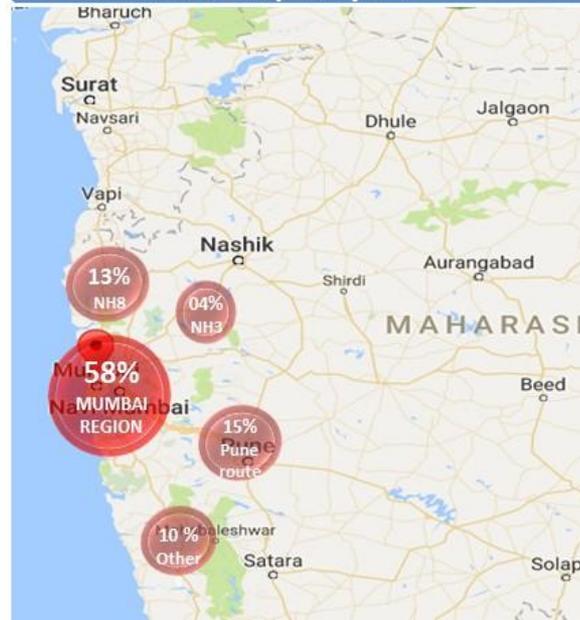
Heat Map : July 2017



Region	June'17	July'17
Mumbai Region	64%	59%
Pune	12%	14%
NH8	12%	14%
NH3	2%	3%
Others	10%	10%

## HEAT MAP : NSICT Port Terminal

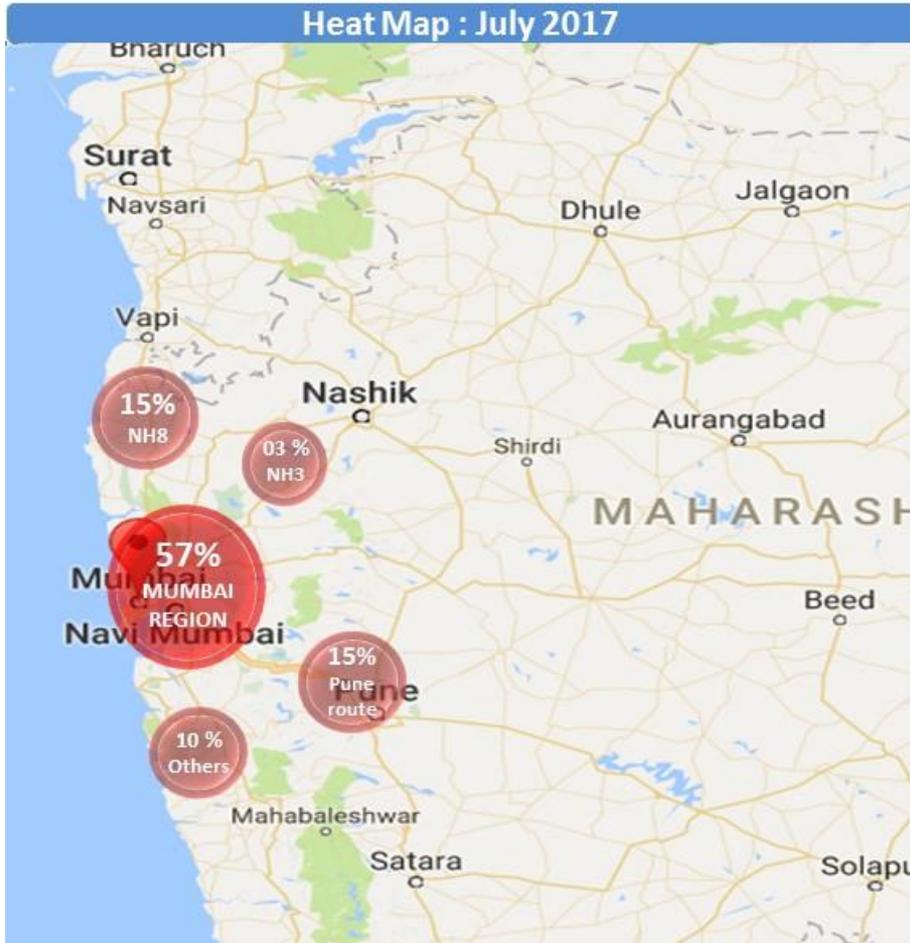
Heat Map : July 2017



Region	June'17	July'17
Mumbai Region	58%	51%
Pune	15%	19%
NH8	13%	16%
NH3	4%	4%
Others	10%	10%

## JNPT Region

Heat Map : July 2017



Region	June'17	July'17
Mumbai Region	63%	57%
Pune	13%	15%
NH8	12%	15%
NH3	2%	3%
Others	10%	10%

# Performance Benchmarking- CFS

## JNPT Region CFS Dwell Time (in hrs)

CFS	June' 17	July' 17	CFS	June' 17	July' 17
All Cargo Logistics CFS, Navi Mumbai	65	71	International Cargo Terminals (ULA) CFS, Navi Mumbai	82	96
Ameya Logistics CFS, Navi Mumbai	79	104	JWC Logistics Park CFS	75	94
APM (Maersk India) CFS, Navi Mumbai	79	93	Maharashtra State Corp CFS	76	93
Maersk Annex (APM)CFS, Navi Mumbai	98	93	Navkar Corporation Yard 1 CFS, Panvel	85	107
Apollo Logisolutions CFS, Panvel	83	92	Navkar Corporation Yard 2 CFS, Panvel	73	79
Ashte Logistics CFS, Panvel	93	113	Navkar Corporation Yard 3 CFS, Panvel	81	87
Balmer & Lawrie CFS, Navi Mumbai	69	98	Ocean Gate CFS, Panvel	81	105
Continental Warehousing CFS, Navi Mumbai	75	96	Punjab Conware CFS, Navi Mumbai	69	87
CWC Dronagiri CFS, Navi Mumbai	57	67	Seabird CFS, Navi Mumbai	79	91
CWC Hind Terminal CFS, Navi Mumbai	88	105	Speedy Multimode CFS, JNPT	66	68
CWC Impex Park CFS, Navi Mumbai	76	77	Transindia Logistics Park, Navi Mumbai	74	71
Dronogiri Rail Terminal CFS, Navi Mumbai	78	84	Vaishno Logistics CFS, Navi Mumbai	96	122
Gateway Distriparks CFS, Navi Mumbai	71	88	International Cargo Terminal CFS	NA	88
Indev Logistics CFS, Panvel	79	100	SBW Logistics CFS, Navi Mumbai	NA	92

## Mundra region CFS (Dwell Time in hrs)

CFS	July'17
AllCargo CFS, Mundra	92
Ashutosh CFS, Mundra	71
CWC CFS, Mundra	40
Hind Mundra Terminals CFS, Mundra	94
Honey Comb CFS, Mundra	111
MICT CFS, Mundra	84
Mundhra CFS, Mundra	100
Saurashtra CFS, Mundra	104
Seabird CFS, Mundra	108
TG Terminals CFS, Mundra	94
Transworld CFS, Mundra	99
Adani CFS Eximyard, Mundra	67

## APSEZ Hazira Region Dwell Time (in Hrs)

CFS	June'17	July'17
Adani CFS, Hazira	110	113
Seabird CFS, Hazira	53	75

■ Best performer  
■ Low performer

Dwell Time (in Hrs)		
ICD	June'17	July'17
ACTL ICD	121	151
Albatross Inland Ports Pvt. Ltd.	104	151
Allcargo Logistics Park ICD, Dadri	155	163
APM Terminals ICD, Dadri	120.5	133
CMA CGM Agencies ICD, Dadri	88	102
CONCOR ICD	153	157
CWC Loni	100	145
CWC Patparganj ICD	109.5	158

 Best performer  
 Low performer



**Thank You !!**