

# DMICDC Logistics Data Services



## Logistics Databank Operations

Project Report: April 1<sup>st</sup> – April 30<sup>th</sup> 2017

<https://www.ldb.co.in>



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## LDB -Key Findings at a Glance

Stakeholder	Parameter	Analysis (APR'17)
JNPT Port Terminals	Dwell Time	<b>Import</b> Truck: 31 Hours Train: 40 Hours  <b>Export:</b> Truck: 75 Hours Train: 121 Hours
Container Freight Stations	Dwell Time	<b>Avg Dwell time :</b>  70 Hours (2-3 Days)
Inland Container Depot	Dwell Time	<b>Avg Dwell time:</b>  148 Hours (5-6 days)
Toll Plazas	Travel Time	Avg time taken to cross 100 kms between two consecutive Toll Plazas is between 4 hrs-30 hrs.

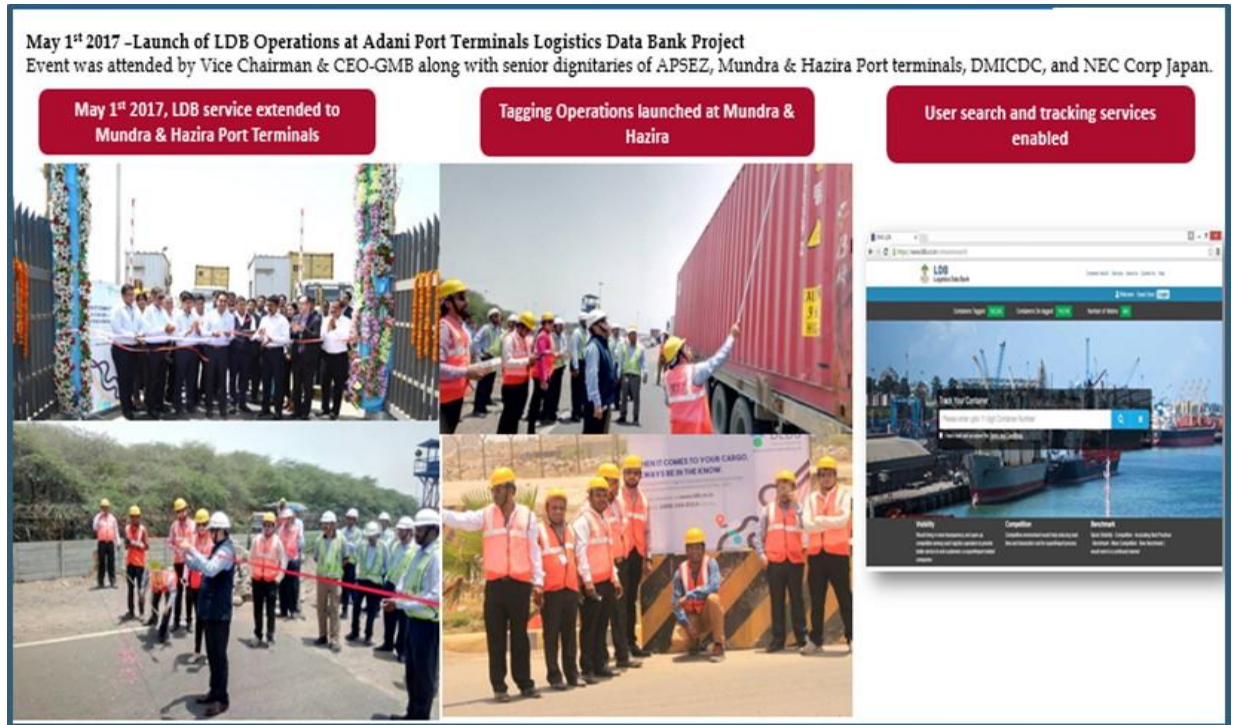
### REMARKS:

- In comparison to the Port Dwell time for the month of March 17 (**Import: 33 Hours & Export: 75 Hours**), there is an improvement in the same for the month of April'17 (**Import: 31 Hours & Export: 75 Hours**) for Truck bound Export/Import containers.
- Port dwell time for train bound container (**Import: 40 Hours & Export: 121 Hours**) is still on higher side, though there is improvement as compared to last month (**Import: Train: 46 Hours & Export: Train: 128 Hours**) and addressing this would help in reducing the overall dwell time at the ports.
- The average CFS dwell time for April month is 70 hours which is on a higher side in comparison to best performing CFS CWC Dronagiri which is 49 hours for the month of April. So improvement in CFS operations & Management across the CFS's are very much essential.
- The ICD's provide for minimal demurrage charges at its facility which is currently enabling the manufacturing companies prefer to stock their goods at ICDs, however this is leading to increase in the Dwell Time of ICD's.

- The performance of the ICD's in terms of dwell time has been improved as compared to last month performance.
- Avg speed between different Toll Plazas is used to identify the locations wherein delays are occurring which is leading to overall high lead time.

## 1. Major Updates

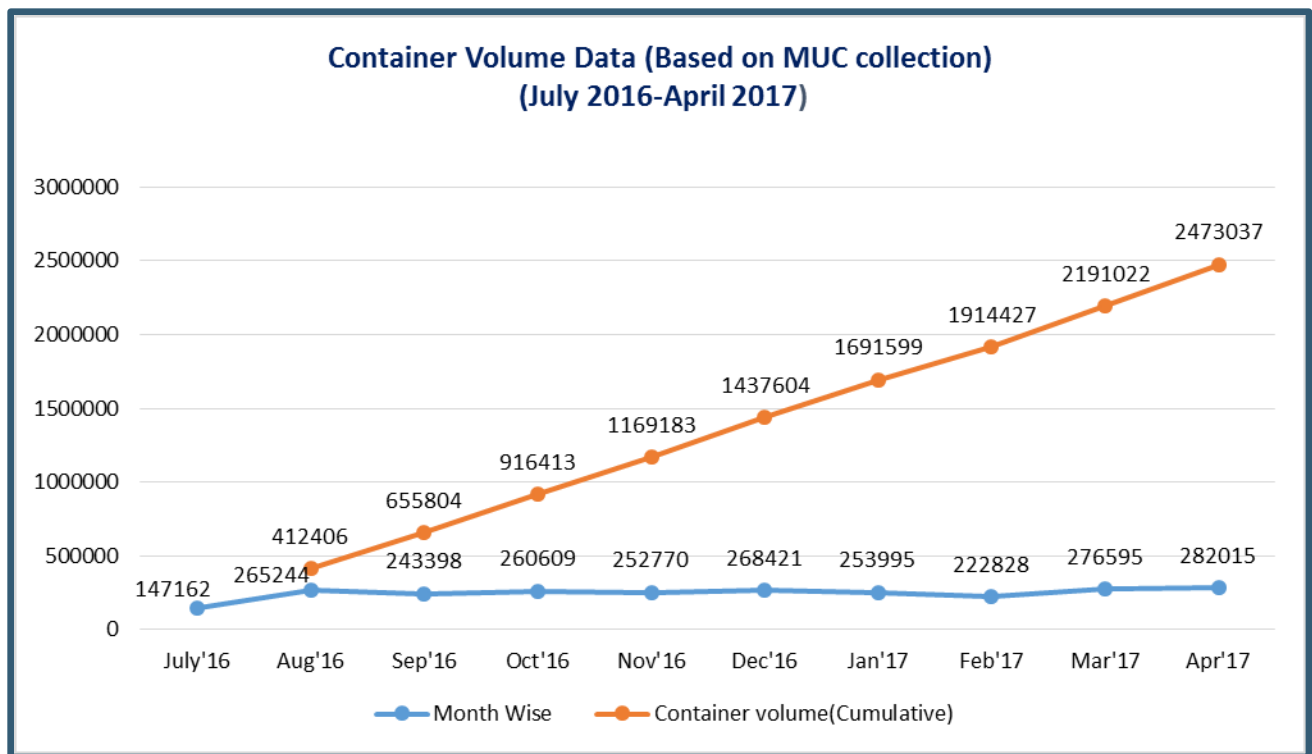
DLDS Successfully launched the LDB Project across the port terminals of Mundra & Hazira starting May 1<sup>st</sup> 2017. The Inauguration ceremony was attended by major stakeholder from Gujarat Maritime Board, Adani Ports Special Economic Zone in Mundra & Hazira Port terminals, DMICDC, DLDS & NEC Corp Japan team members.



- With the coverage of Mundra and Hazira Port terminals, DLDS would be able to provide container tracking services to approximately 70% of the container traffic in India.
- JNPT's container traffic has seen a surge in the month of April as compared to earlier months.
- Another milestone achieved wherein DLDS has received the approval from the Railway Board for FOIS integration with LDB System which would help in providing in-transit rail container movement.
- DLDS has successfully provided Container Visibility service for approximately **2.5 million** Export/ Import containers of the JNPT.

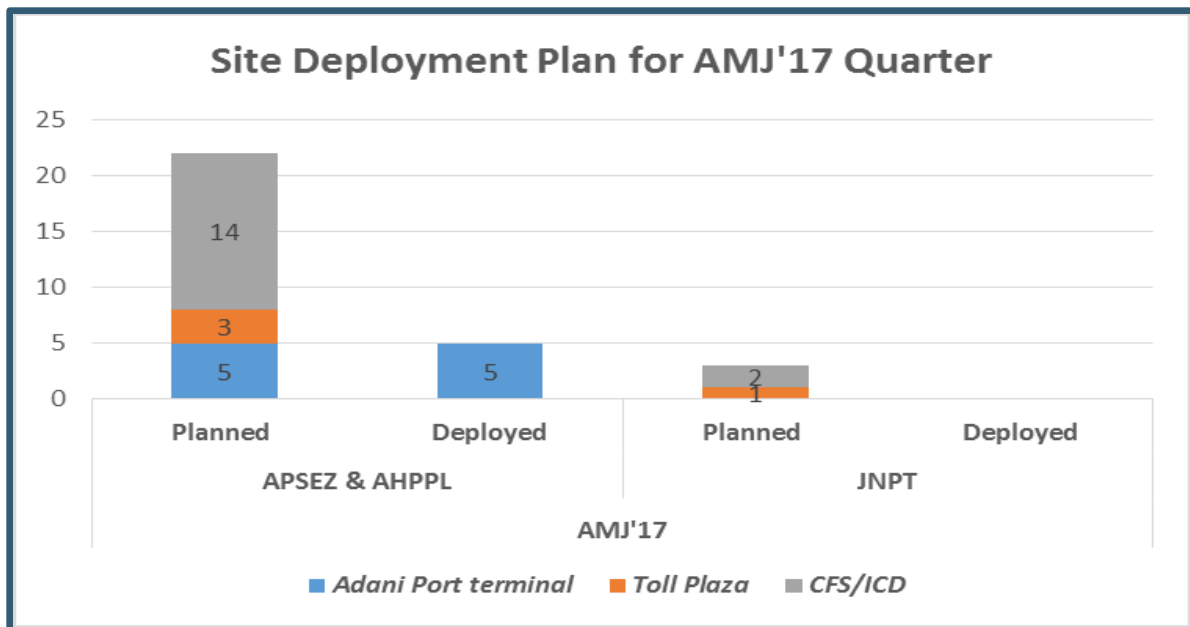
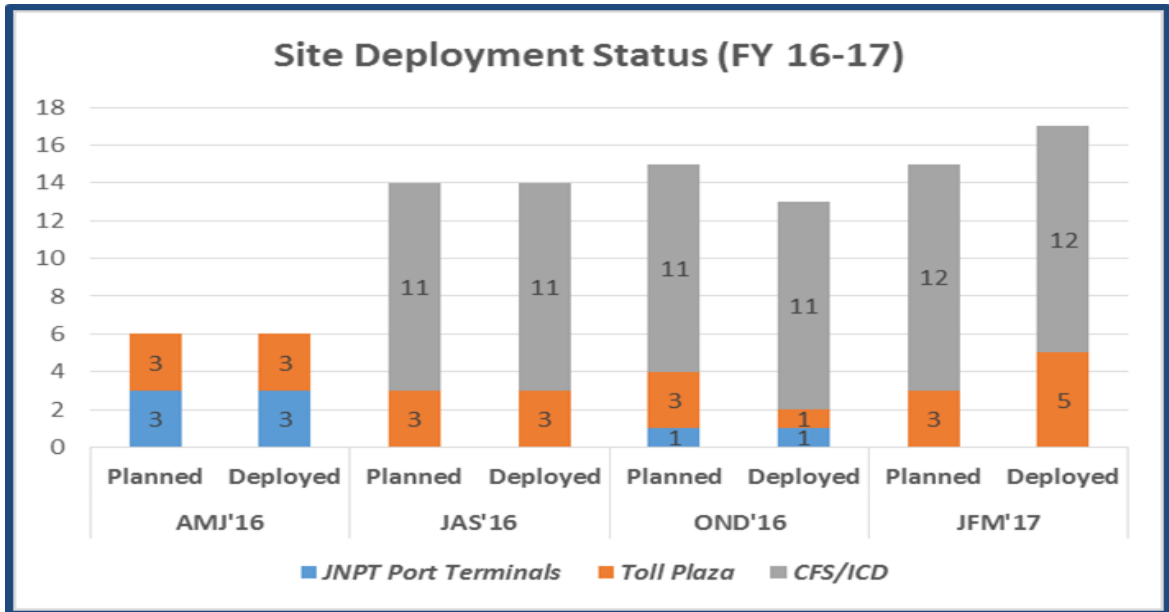
- DLDS website is live and can be accessed through URL <http://www.dldsl.in/>
- LDB Project Flyer are shared with different stakeholders and users of LDB services through mails for creating awareness and expanding its reach.
- **4 JNPT Port Terminals**, 12 toll plazas and 34 CFS/ICDs are currently operational in the western corridor providing visibility services.
- **4 Port Terminals at Mundra & 1 port Terminal at Hazira** are now operational for providing container tracking services through LDB Portal.

## 2.1 Container Traffic Movement Trends in JNPT



**Based on the trend, there is significant increase of EXIM container volume for last two months since the commencement of the LDB Service across the Port terminals of JNPT.**

## 2.2 Site Deployment Status (FY 16-17) & Deployment Plan for AMJ 2017 Quarter:





### 2.3 Container Tagging & De-tagging April 1st - April 30th 2017

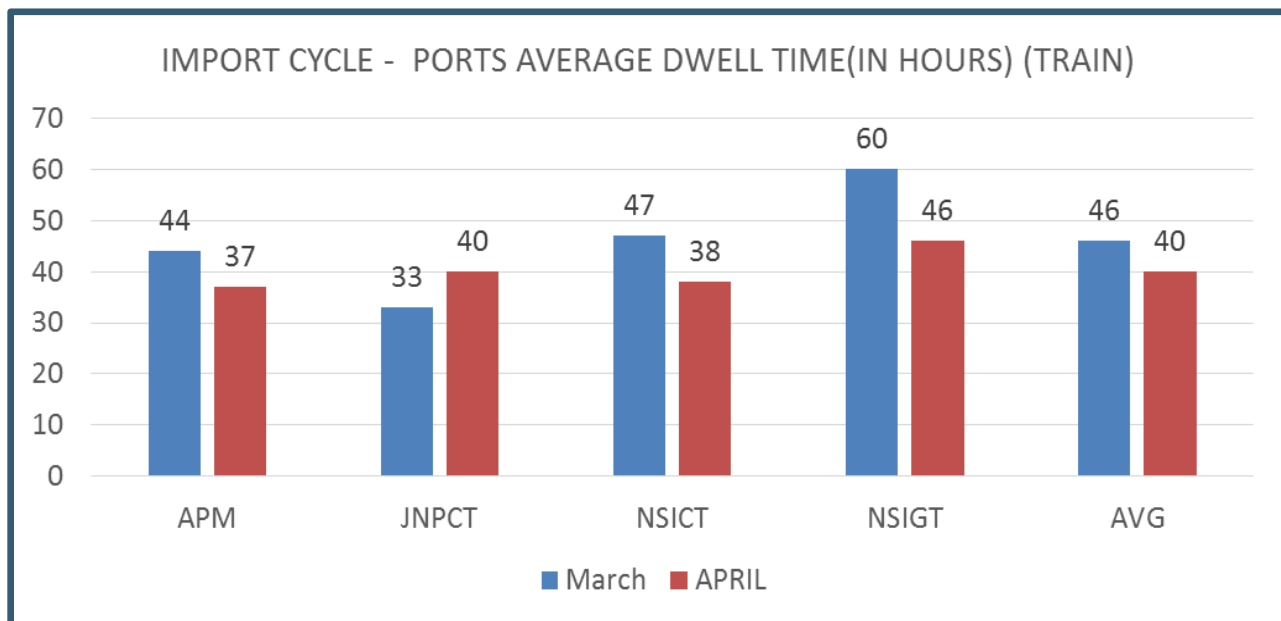
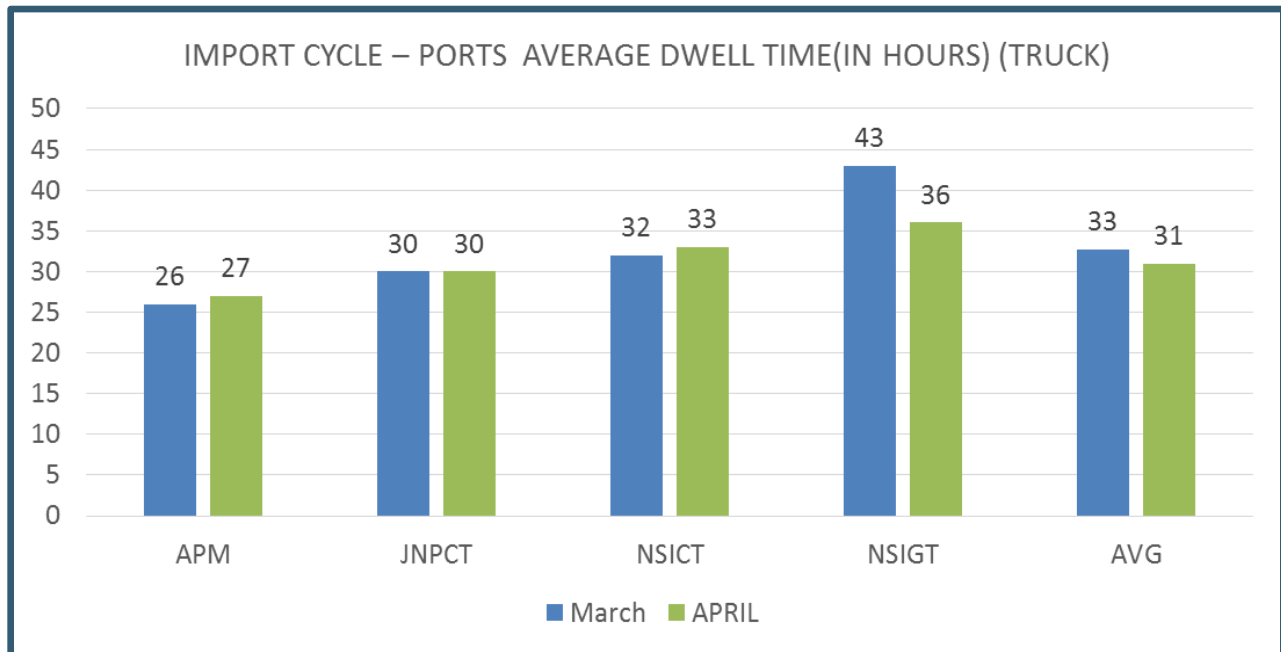
Port Terminals	Tagging	De-Tagging	Total - Terminal Wise Tagged & De-tagged Containers
JNPCT	50391	44571	94962
NSICT	18860	22864	41724
NSIGT	15423	16825	32248
APM	63506	49575	113081
<b>Total Containers</b>	<b>148180</b>	<b>133835</b>	<b>282015</b>

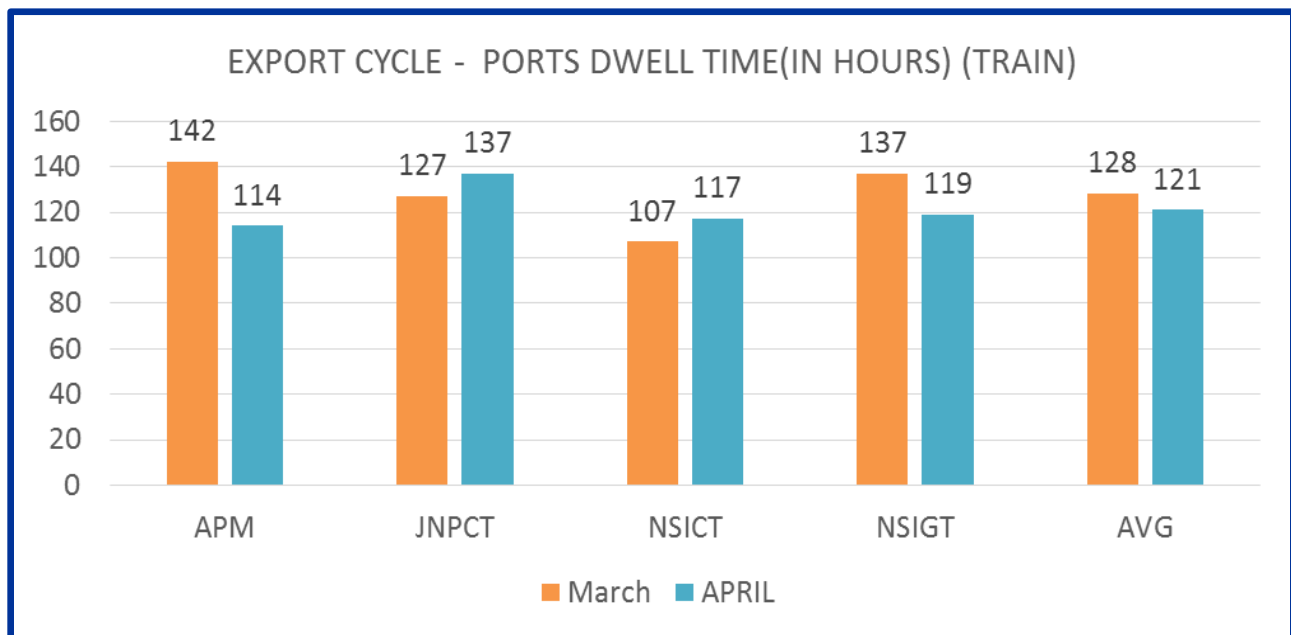
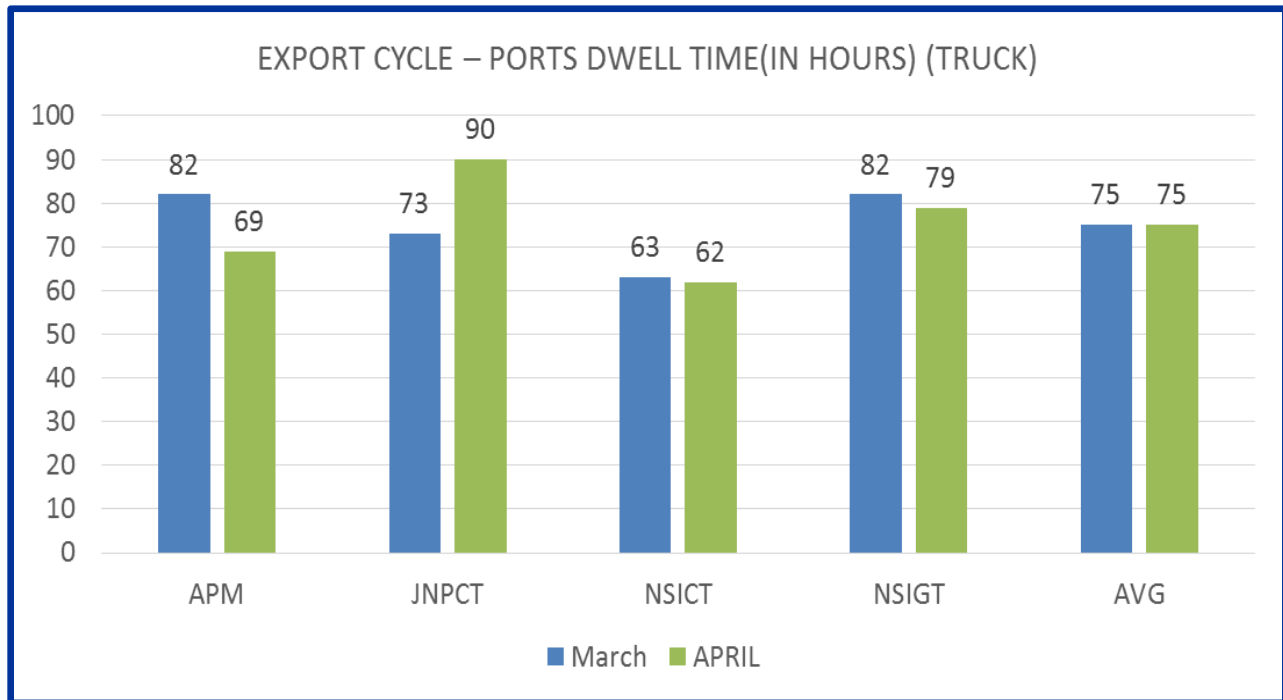
### 2.4 Overall Container Tagging & De-tagging from 1<sup>st</sup> July 2016 to 30<sup>th</sup> April 2017:

Total Import Containers Handled	1181119
Total Export Containers Handled	1291917
Total Containers Handled	2473036

## 2. LDB Analytics

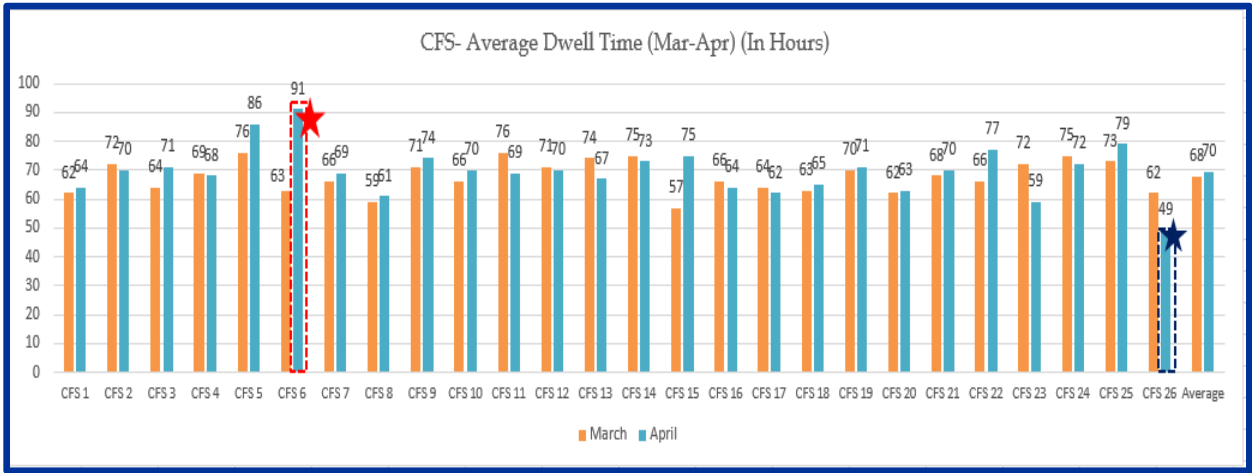
### 3.1 Port Dwell Time for Truck and Train based containers (MAR - APR 2017)





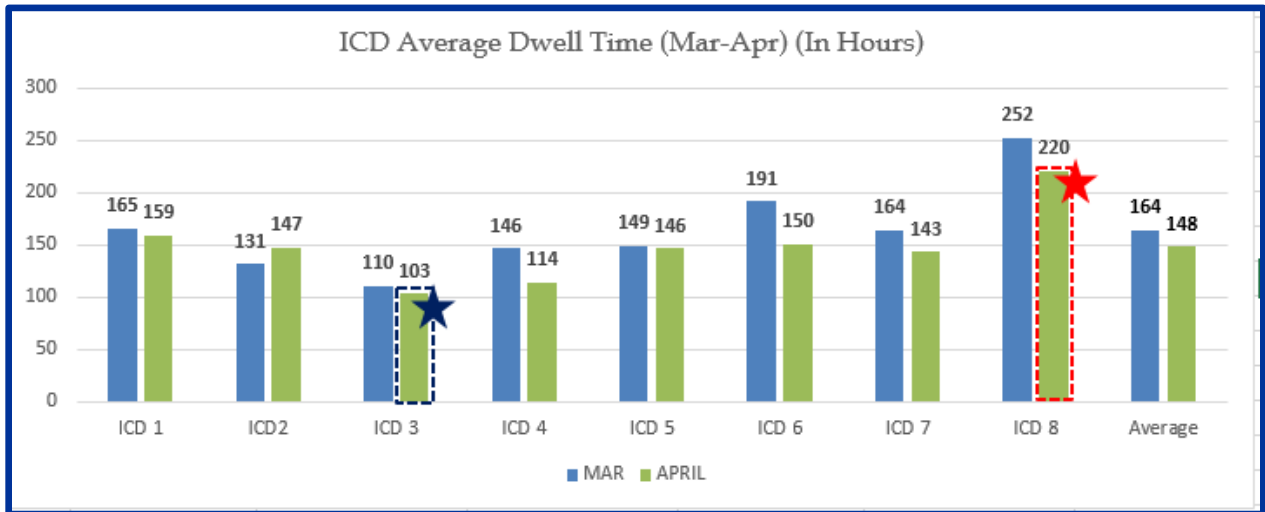
***\*\*On the basis on above data, we find that Port Dwell time is higher for Train bound Export/Import containers and addressing the same would help in reducing the overall dwell time at the ports and bring in the efficiency.***

### 3.2 Container Freight Station Average Dwell Time (Mar-Apr) (Hours)



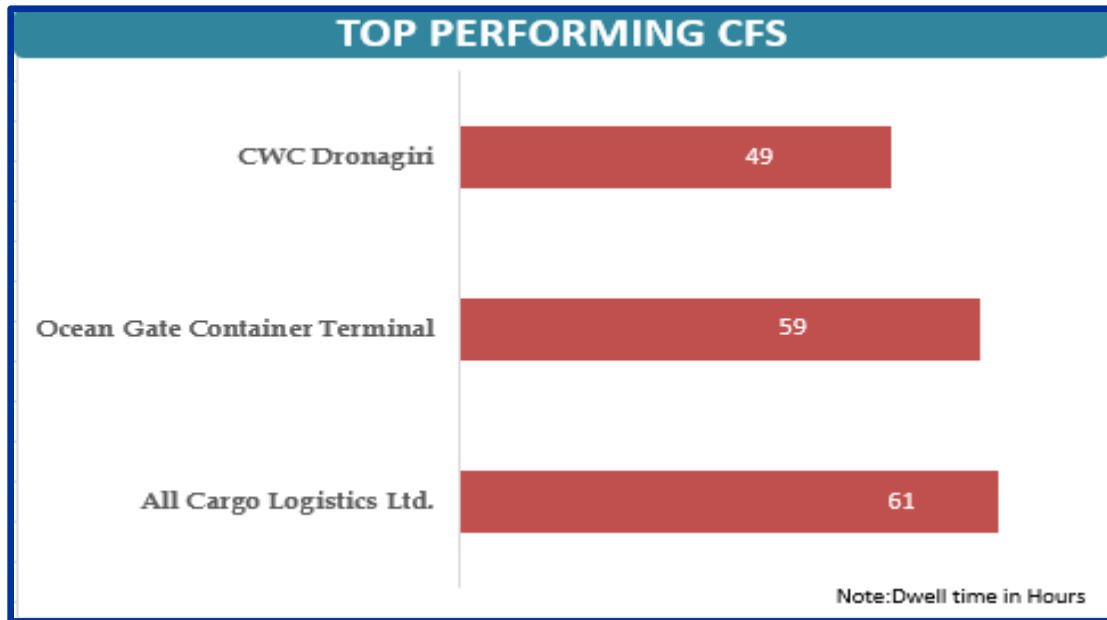
- Industry Average : 70 Hours(MAR)
- Industry Best : 49 Hours(MAR)
- Industry Worst : 91 Hours(MAR)

### 3.3 Inland Container Depot Average Dwell time (Mar-Apr) (Hours)

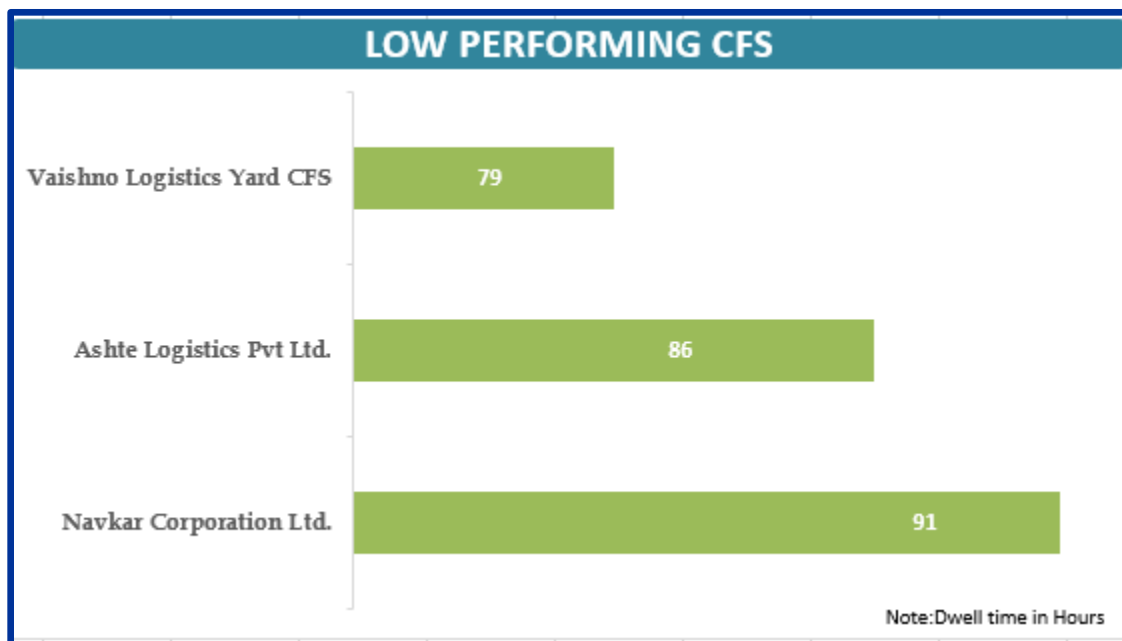


- Industry Average : 148 Hours(Apr)
- Industry Best : 103 Hours(Apr)
- Industry Worst : 220 Hours(Apr)

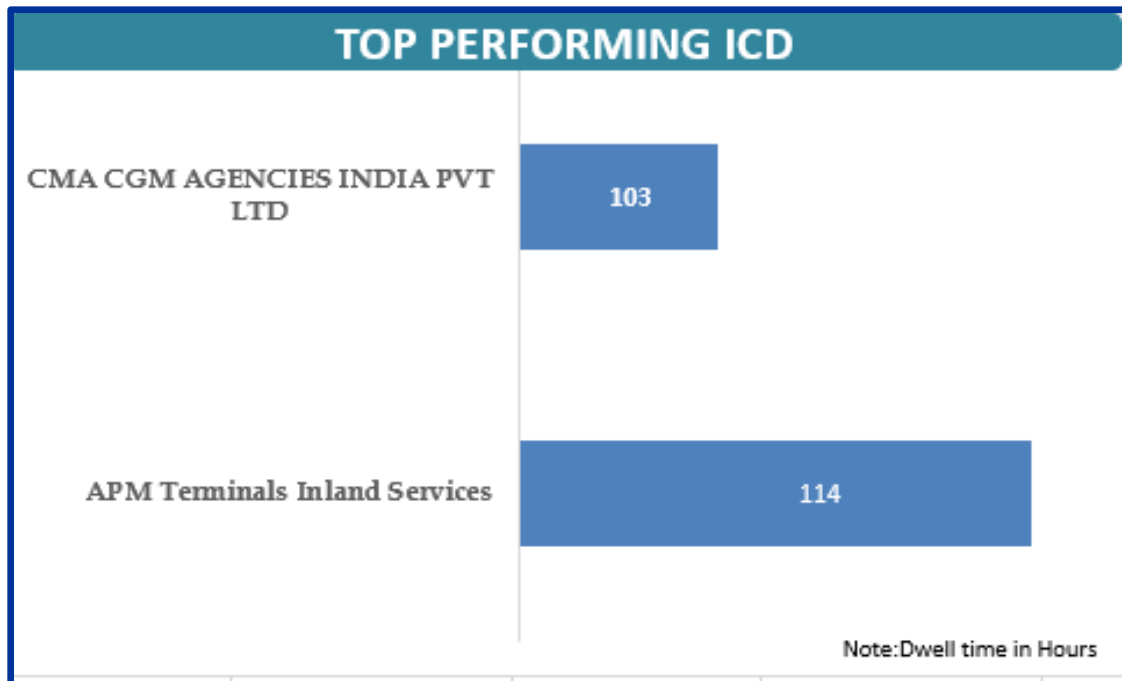
### 3.4 Top Performing CFS - Dwell Time (Apr 2017)



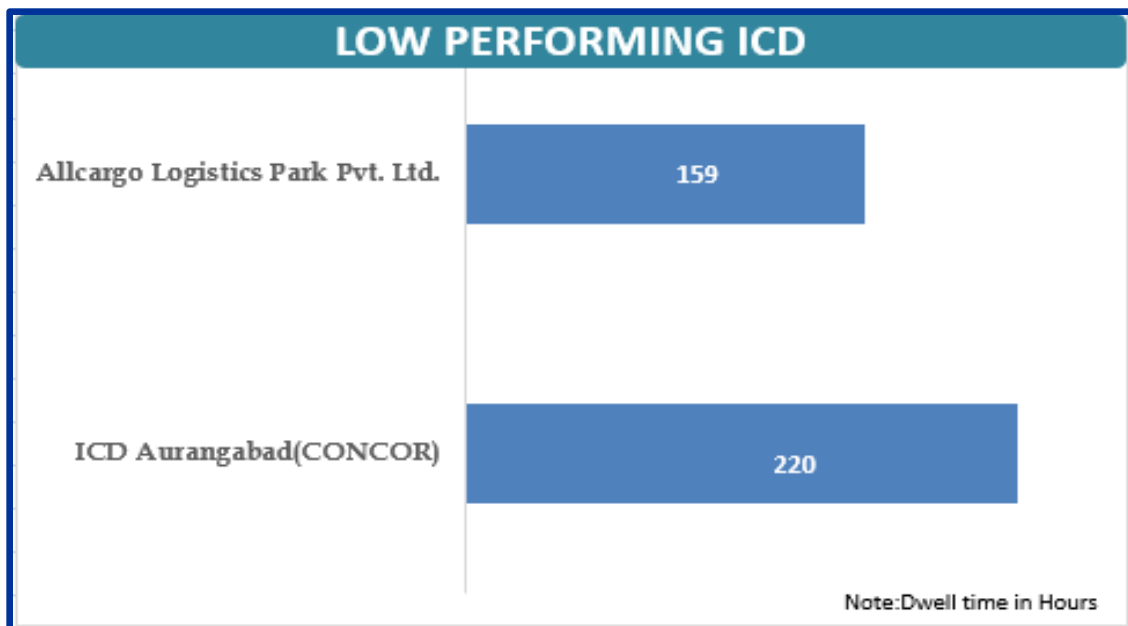
### 3.5 Low Performing CFS - Dwell Time (Apr 2017)



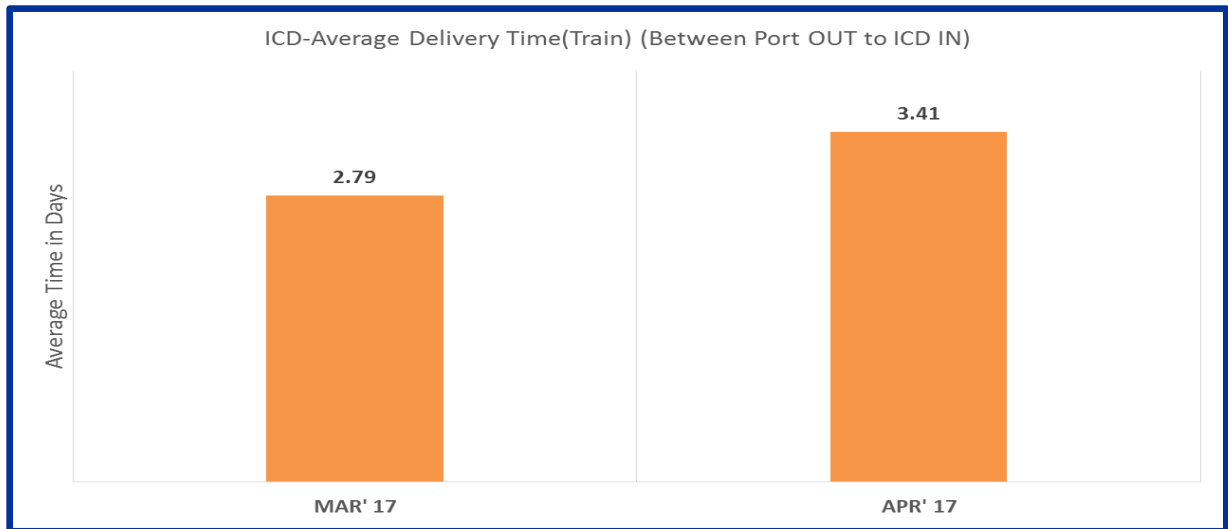
### 3.6 Top Performing ICD - Dwell Time (Apr 2017)



### 3.7 Low Performing ICD - Dwell Time (Apr 2017)

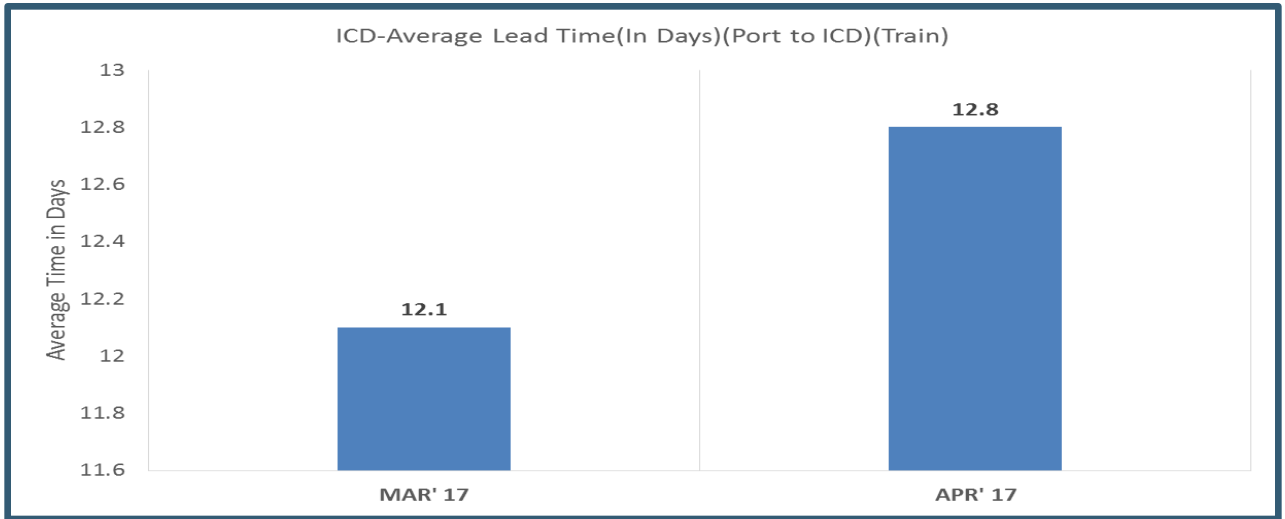


### 3.8 Inland Container Depot Average Delivery time (Mar-Apr) (In Days)



The Delivery time has been calculated considering the time taken by the trains moving from the terminals at JNPT to ICDs at Delhi/NCR region and ICD Aurangabad at Mumbai region where LDB service is available.

### 3.9 Inland Container Depot Average Lead time (Mar-Apr) (In Days)

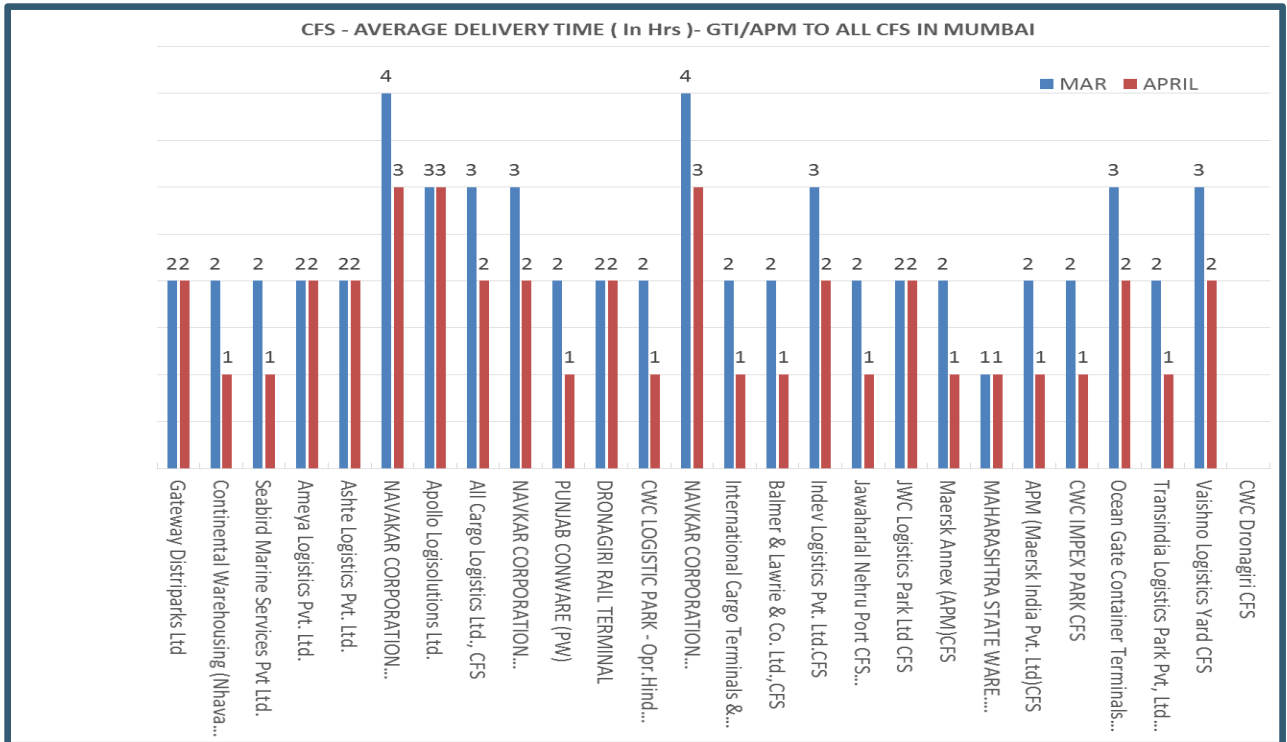
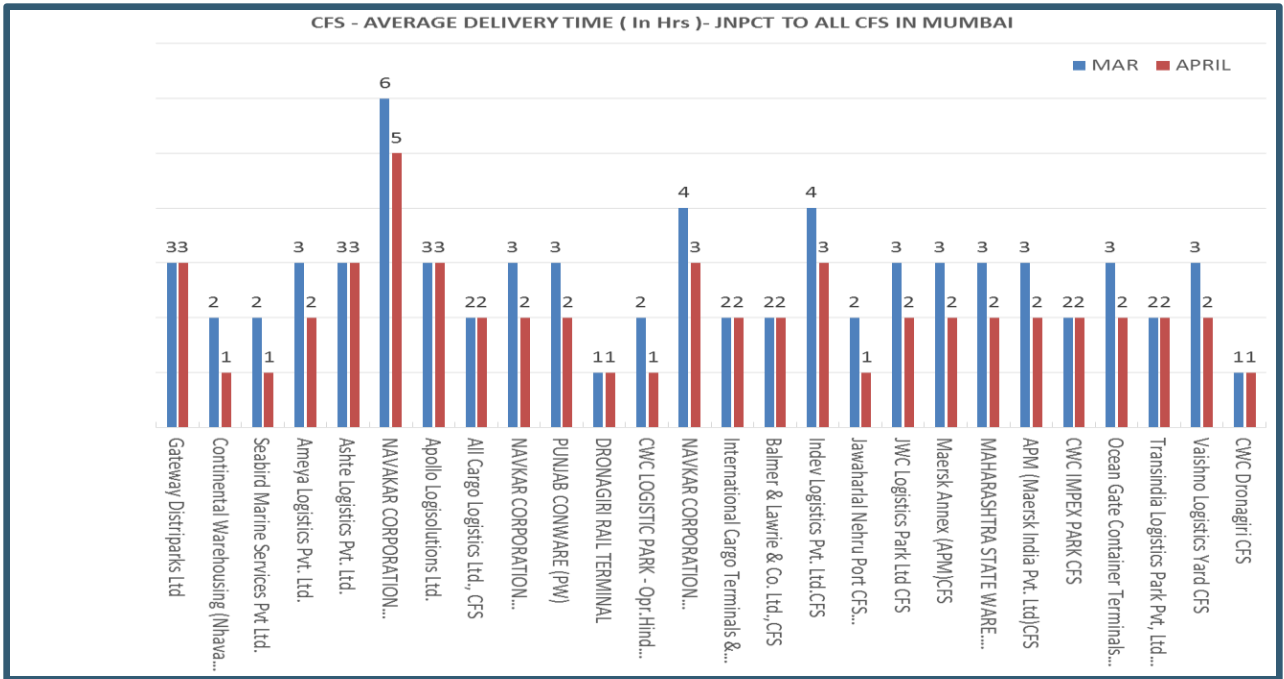


To calculate the ICD average lead time for the container to reach port to ICD through Train:

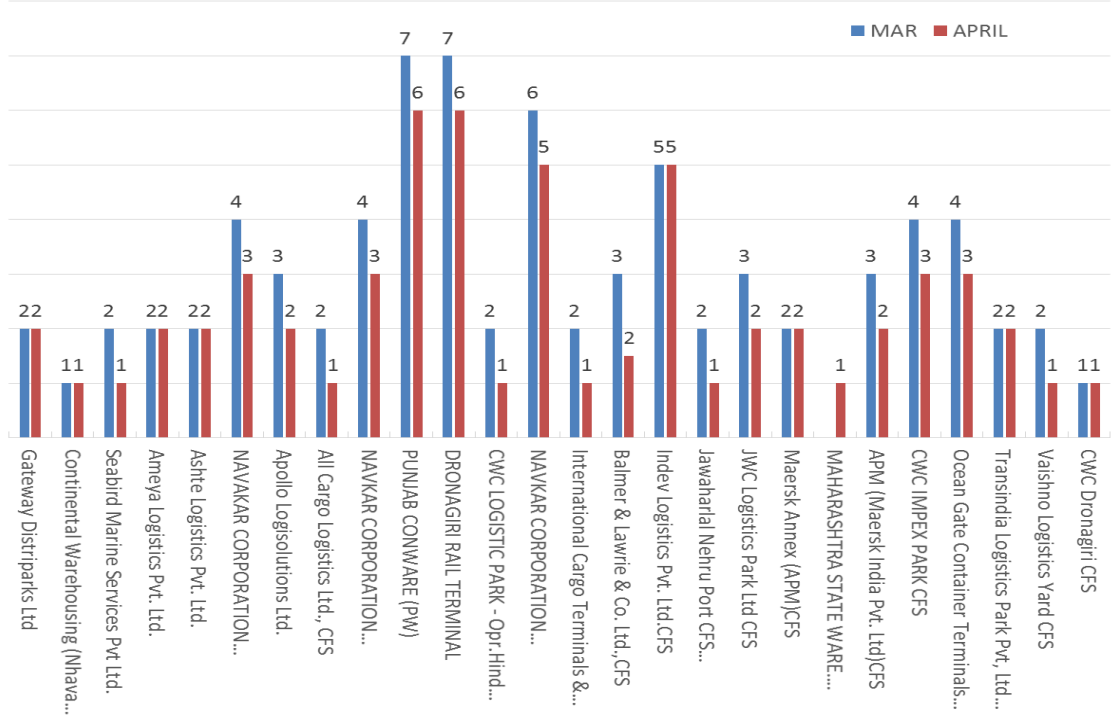
$$\underline{\text{(Port Dwell Time + Port to ICD Delivery Time + ICD Dwell Time = Avg. Lead Time from Port to ICD)}}$$



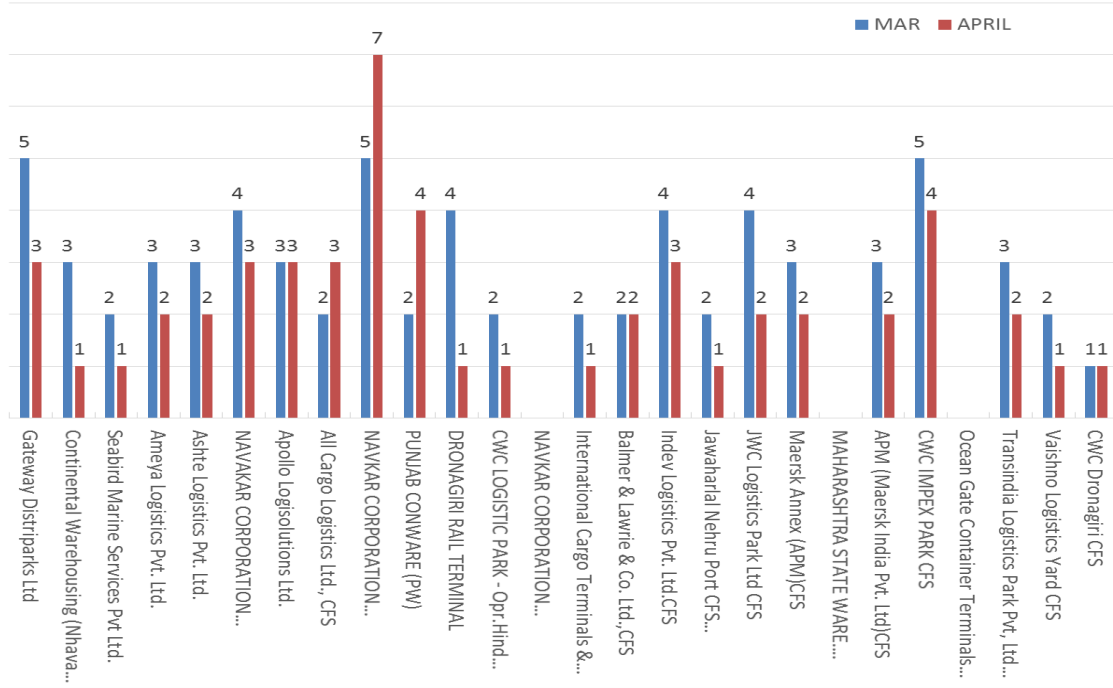
### 3.10 Container Freight Station Average Delivery Time (Mar-Apr) (In Hours)



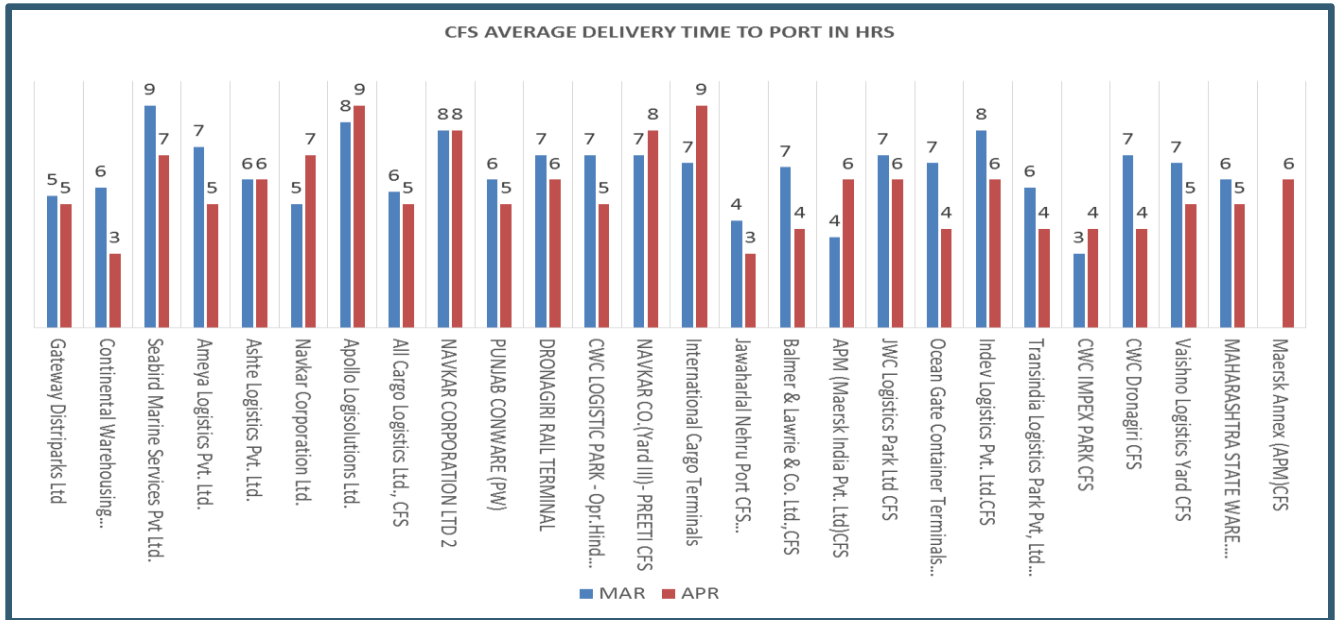
CFS - AVERAGE DELIVERY TIME ( In Hrs )- NSICT TO ALL CFS IN MUMBAI



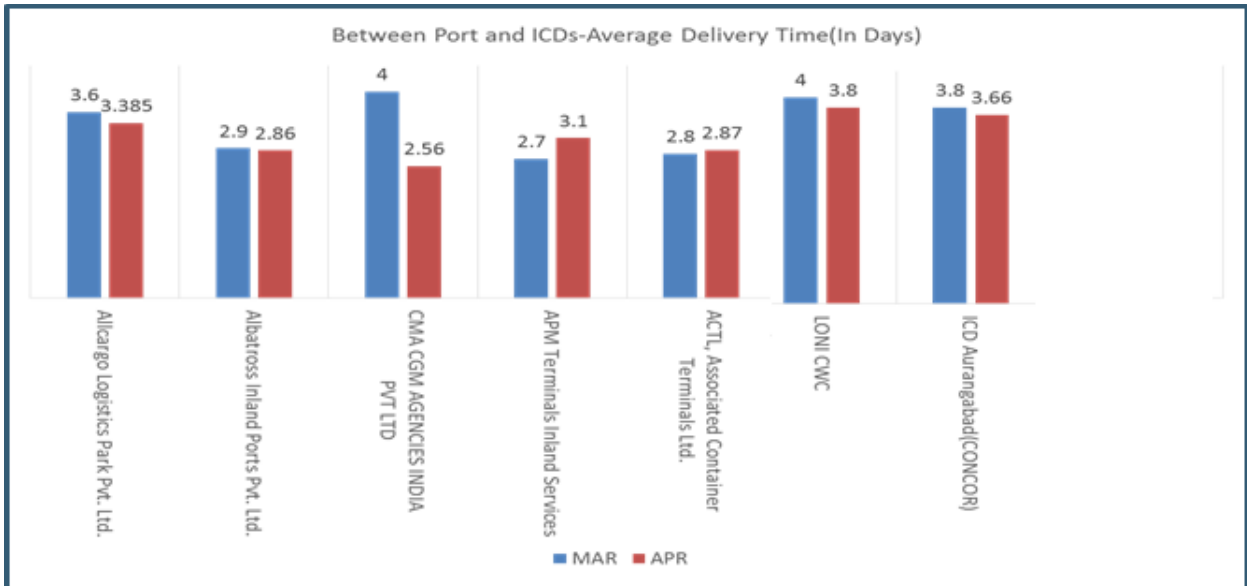
CFS - AVERAGE DELIVERY TIME ( In Hrs )- NSIGT TO ALL CFS IN MUMBAI



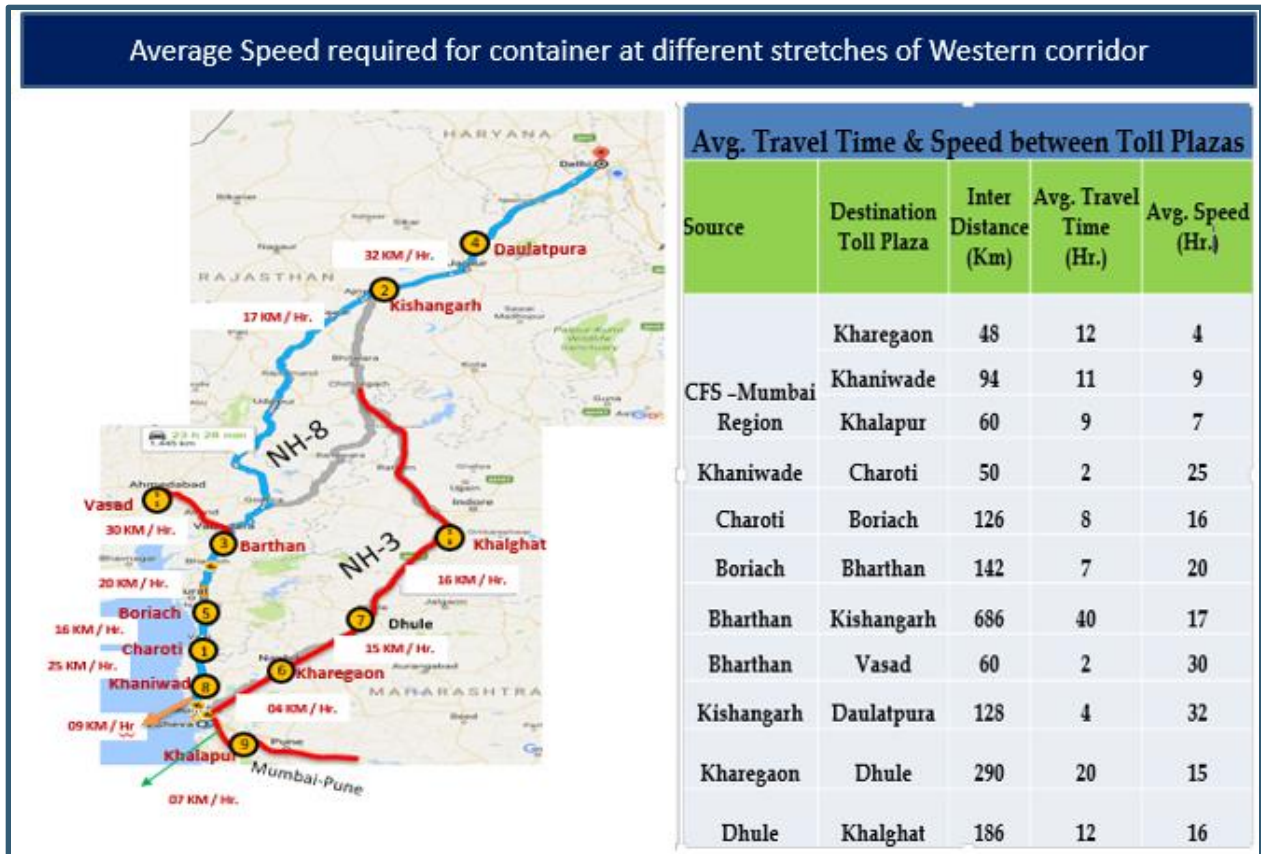
### 3.11 Average Delivery Time between Port and CFS (In Hours)



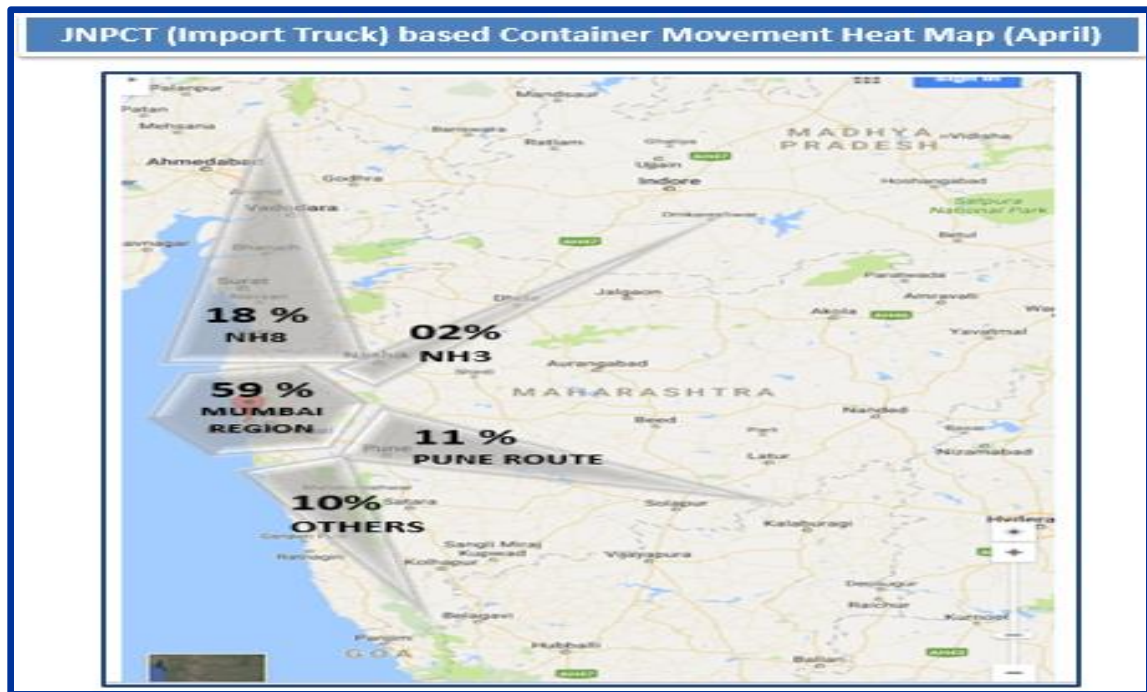
### 3.12 Average Delivery Time between Port and ICDs (In Days)



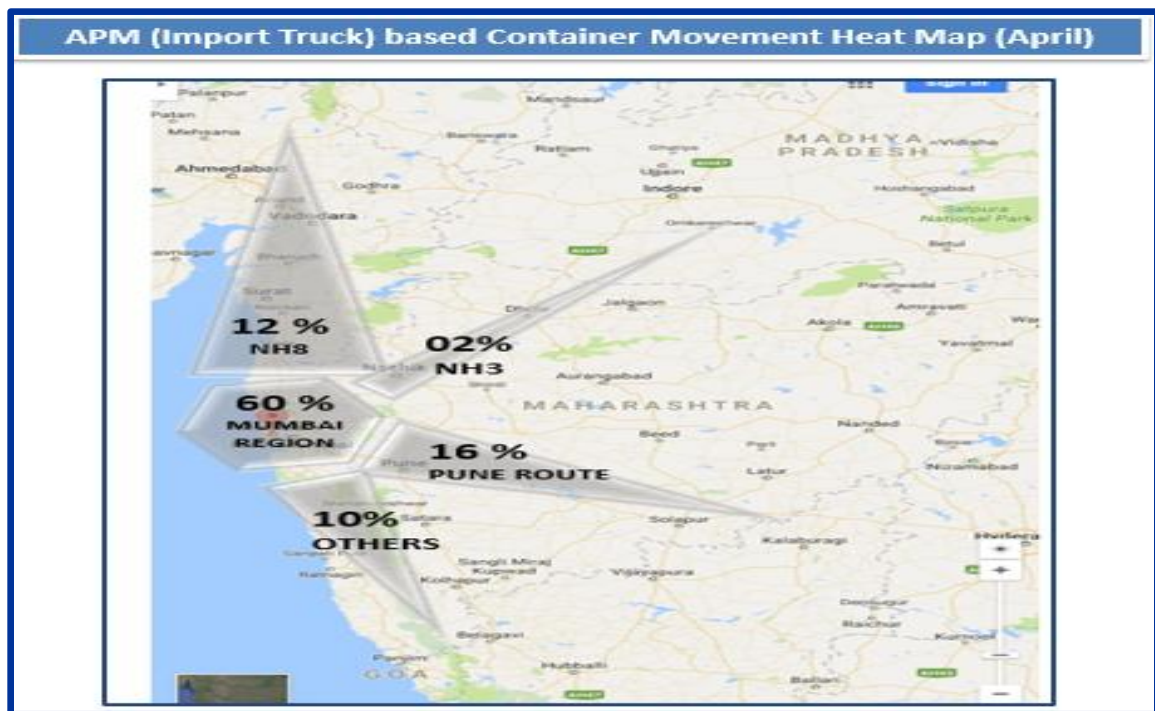
### 3.13 Average Travel Time between Toll Plazas in April



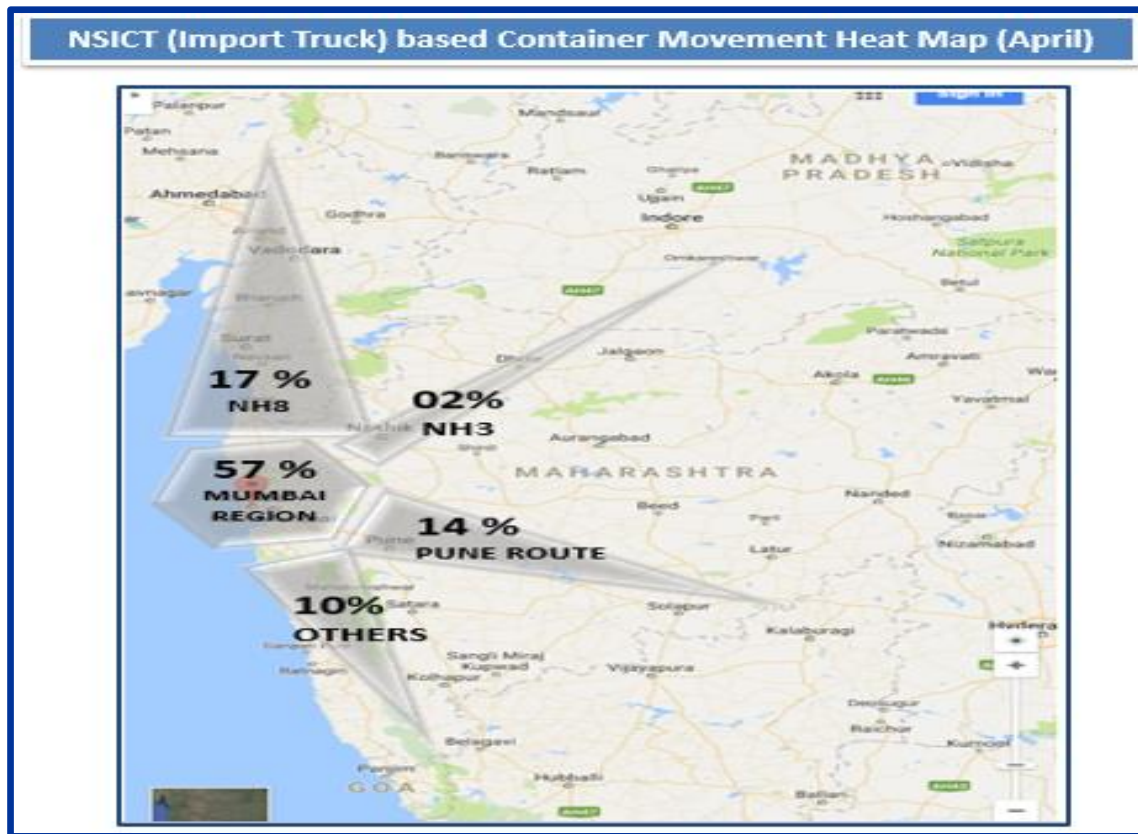
### 3.14 Container Movement Heat Map- JNPCT Terminal



### 3.15 Container Movement Heat Map- APM Terminal



### 3.16 Container Movement Heat Map- NSICT Terminals



# Operations Overview

### **3. Operations Overview**

#### **4.1 Port Operations**

##### **Port update (JNPT, Mumbai):**

- 4 Port Terminals, 12 toll plazas and 34 CFS/ICDs are currently operational in western corridor. All 50 locations planned for FY 2016-17 have been covered in which RFID installations have been completed.
- For phase 5 deployment, 2 CFS/ICDs and 1 Toll Plazas has been selected for RFID implementation.
- Installation of readers at NSICT and NSIGT completed, however the movement of manpower to wharf area is expected to be done by 10th May 2017.
- Total 24, 73,037 (from 1<sup>st</sup> July till Date) numbers of containers have been handled at all four terminals of JNPT.

##### **Port Update (APSEZ, Mundra & AHPPL, Hazira - Gujarat):**

- LDB Project successfully launched across the container terminals of Adani Ports & DP World (MICT) in APSEZ, Mundra & AHPPL, Hazira from 1<sup>st</sup> May 2017.
- At Mundra, the tagging/de-tagging operations are being carried out at Custom gates for truck bound containers and at Rail-sidings of the terminals for train bound containers.
- At Hazira, the tagging/de-tagging operations are being carried out at terminal gates for truck bound containers. There is no rail movement of the containers.
- There are five container terminals covered at Mundra & Hazira.

##### **Mundra**

- Mundra International Container Terminal (MICT).
- Adani Mundra Container Terminal (CT2)
- Adani International Container Terminal (CT3)
- Adani CMA Mundra Terminal (CT4).

##### **Hazira**

- Adani Hazira Port Private Limited



- Installation of fixed readers at North Gate (Rangoli Gate), APSEZ- Mundra and at Pre-authorization gate and port gate at AHPPL, Hazira is expected to be completed by end of May 2017.



**Map view for APSEZ, Mundra**



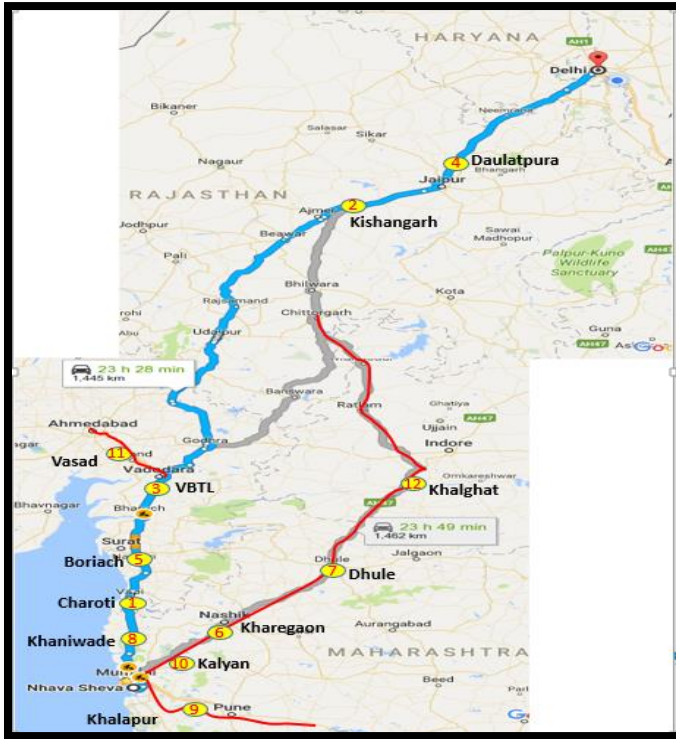
**Map view for AHPPL, Hazira**

There are 12 CFSs near APSEZ, Mundra and 2 CFSs near AHPPL, Hazira. Installation of RFID readers at these CFSs are expected to be completed by end of June'17.

## 4.2 Toll Operations

- Total of 12 Toll Plazas are now operational in the western corridor covering NH3, NH8, Mumbai-Pune expressway route.

The below MAP depicts the number of Toll Plazas operational till date:



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	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

- Kharegaon Toll Plaza (NH 3) operation will be permanently shut down from 13th May 2017 as per NHAI notification. The LDB RFID equipment will be uninstalled by 10th May 2017.
- Toll Plaza Approval Letter for Mundra APSEZ is pending from NHAI. DMICDC has already sent the letter to NHAI for approval.
- Phase 5 Deployment is going to be started by 3rd week of May 2017.
- The Toll Plaza selected for Phase 5 deployment (AMJ) are:
  - Mokha Toll Plaza, NH 8A, Gujarat
  - Sonwa Toll Plaza, NH 12, Rajasthan
  - Uthamam Toll Plaza, NH 14, Rajasthan
  - Khedshivapur Toll Plaza, NH 4, Maharashtra

### 4.3 Container Freight Stations/Inland Container Depot Operations

- Total of 34 CFS-ICD are operational and data are being received by LDB Data Center.

The below Map depicts all CFS/ICDs Operational till date:

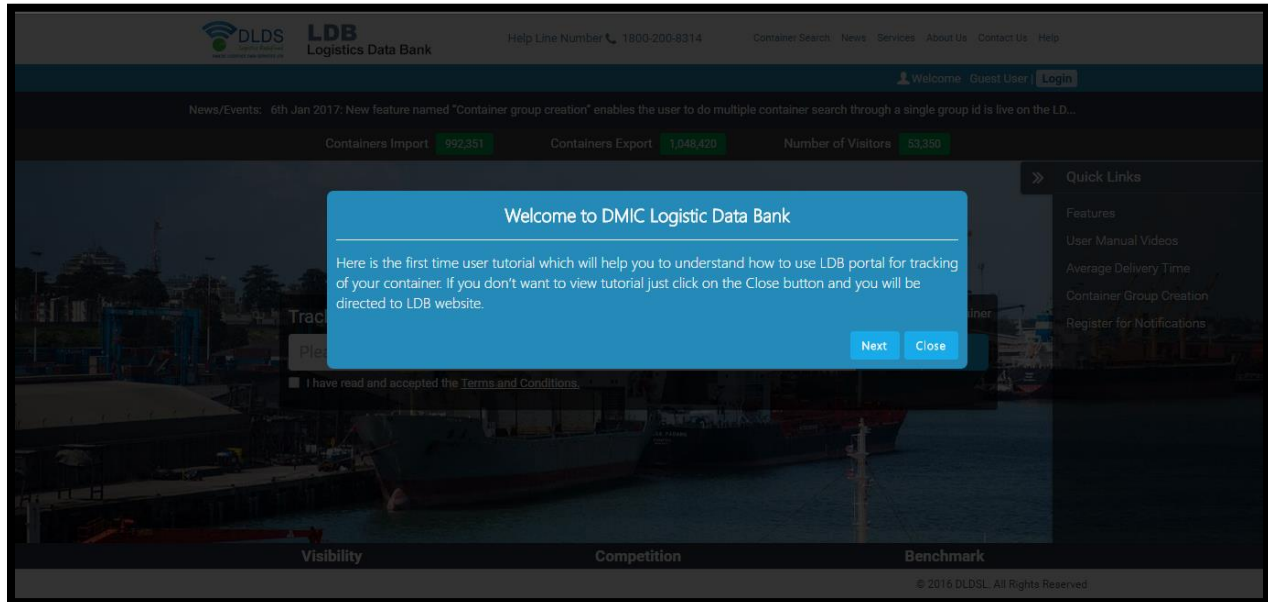


- For AMJ'17 Quarter, 2 CFS/ICDs sites has been planned for implementation at Mumbai region at JNPT and 14 CFS/ICDs are planned for implementation at Mundra & Hazira Port, Gujarat.

#### 4. Railway FOIS Integration

Approval from Railway Board for FOIS integration has been received for sharing of container related data with DMICDC LDB system.

#### 5. LDB Portal/ Other Updates



Below are few new features which have been added in the LDB Portal website.

- LDB user tutorial has been added as a new feature for first time visitor to guide the working of LDB portal.
- User Manual Video of free screens to illustrate the usage of features has been added.
- “Average Delivery Time” analytics feature released which provides the time of required from Source to Destination.
- Map View for tracking points of containers is available through Google Map.
- Group & Multiple container search option is available to track all containers together.
- Number of Visitors till 7th May 2017: 89,212