

DMICDC Logistics Data Services



LDB Analytics Report:

March 1st – March 31st 2017

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



1. Key Findings at a Glance

Stakeholder	Parameter	Analysis (MAR'17)
JNPT Port Terminals	Dwell Time	Import Truck: 33 Hours Train: 46 Hours Export: Truck: 75 Hours Train: 128 Hours
Container Freight Stations	Dwell Time	Avg Dwell time : 68 Hours (2-3 Days)
Inland Container Depot	Dwell Time	Avg Dwell time: 164 Hours (6-7 days)
Toll Plazas	Travel Time	Avg time taken to cross 100 kms between two consecutive Toll Plazas is between 2 hrs-40 hrs.

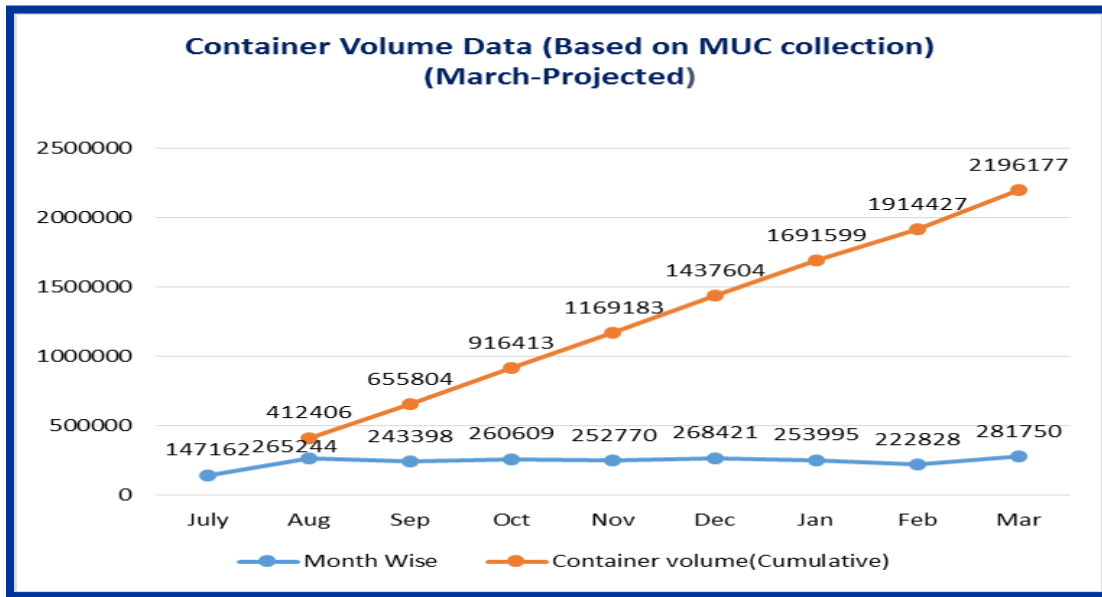
REMARKS:

- On the basis on above data, we find that Port Dwell time is higher for Train bound Export/ Import containers. This trend exists across all the months and addressing the same would help in reducing the overall dwell time at the ports and bring in the efficiency.
- The difference between best performing CFS and low performing CFS is on higher side indicating that the laggards can catch up with the best performers by streamlining the Operations.
- The CFS dwell time is on a higher side and reducing the same will have positive impact on the overall trade.
- 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 ICD's dwell time is on a higher side and reducing the same will have positive impact on the overall trade.
- Avg speed between different Toll Plazas is used to identify the locations wherein delays are occurring which is leading to overall high lead time.

2. Major Updates

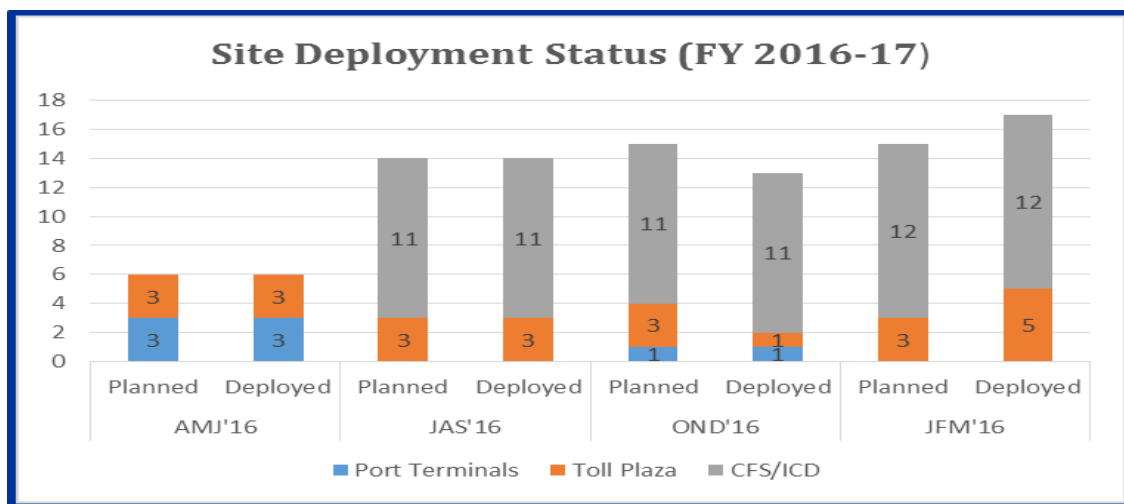
- JNPT's traffic has seen a surge in the month of March as compared to earlier months.
- 4 Port Terminals, 12 toll plazas and 34 CFS/ICDs are currently operational in the western corridor providing visibility services.
- DLDS has successfully provided Container Visibility service for approximately **2.2 million** Export/ Import containers of the JNPT.
- DLDS website has been launched in the mid of Feb and can be accessed through URL <http://dldsl.in/>

2.1 Container Traffic Movement Trends in JNPT



The container volumes handled in the month of March have seen an improvement vis-a-vis traffic handled since the commencement of the LDB Service across the Port terminals of JNPT.

2.2 DLDS Site Deployment Status as on March 31st 2017



2.3 Container Tagging & De-tagging Mar 1st - Mar 31st 2017

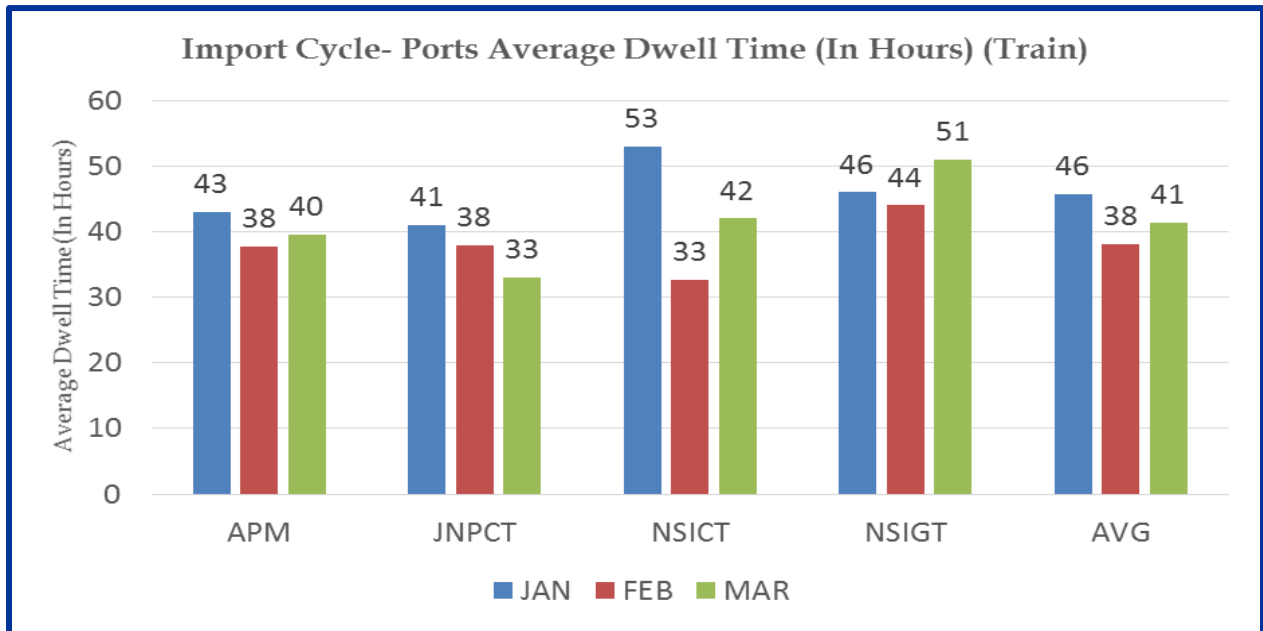
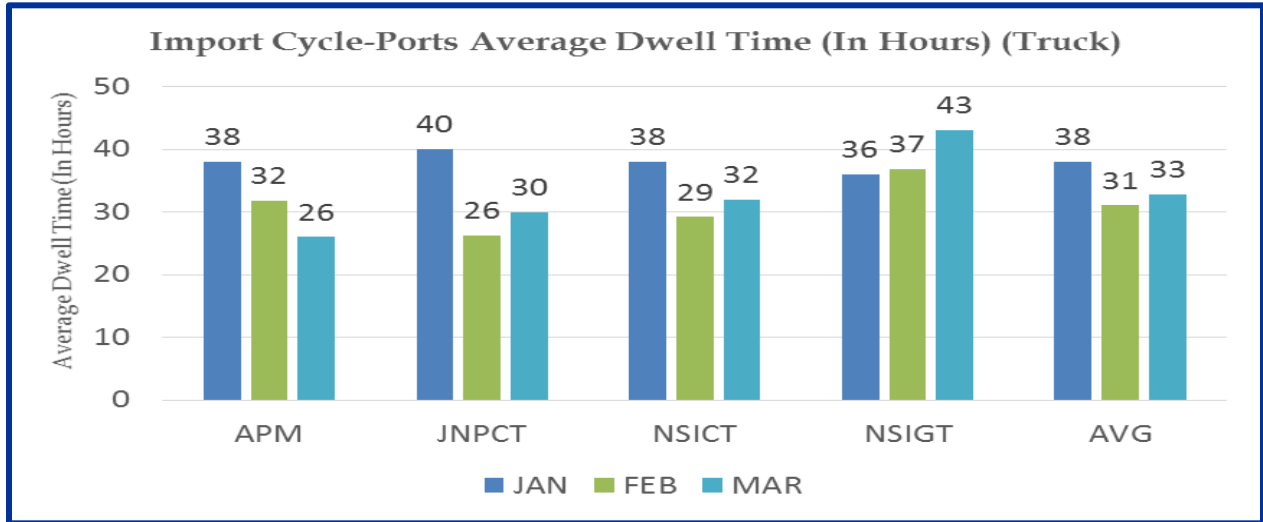
Port Terminals	Tagging	De-Tagging	Total - Terminal Wise Tagged & De-tagged Containers
JNPCT	41648	43401	85049
NSICT	18068	25506	43574
NSIGT	21874	18210	40084
APM	62766	50277	113043
Total Containers	144356	137394	281750

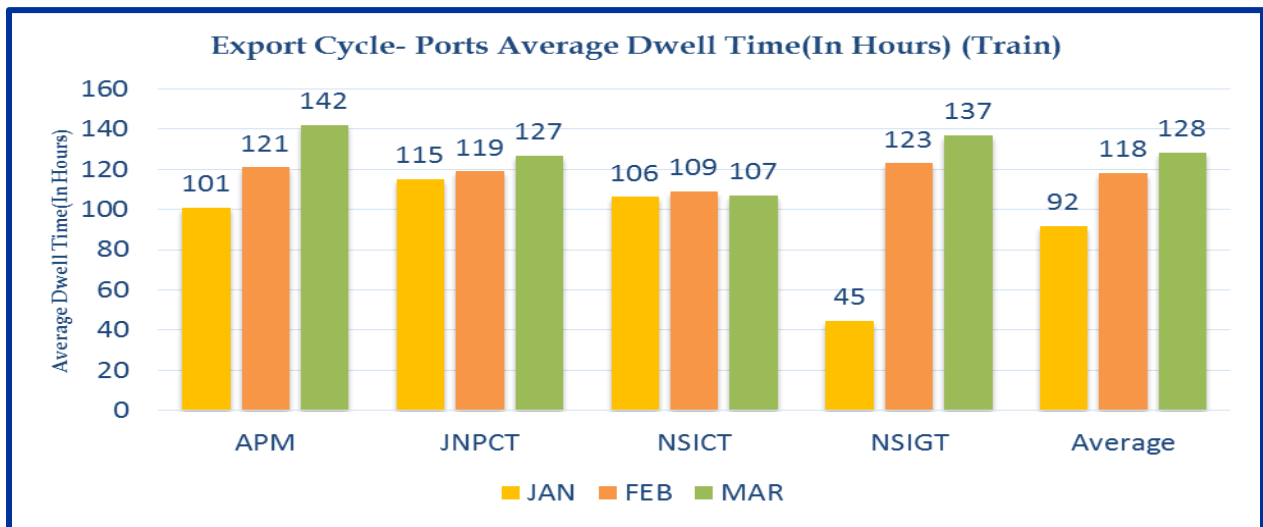
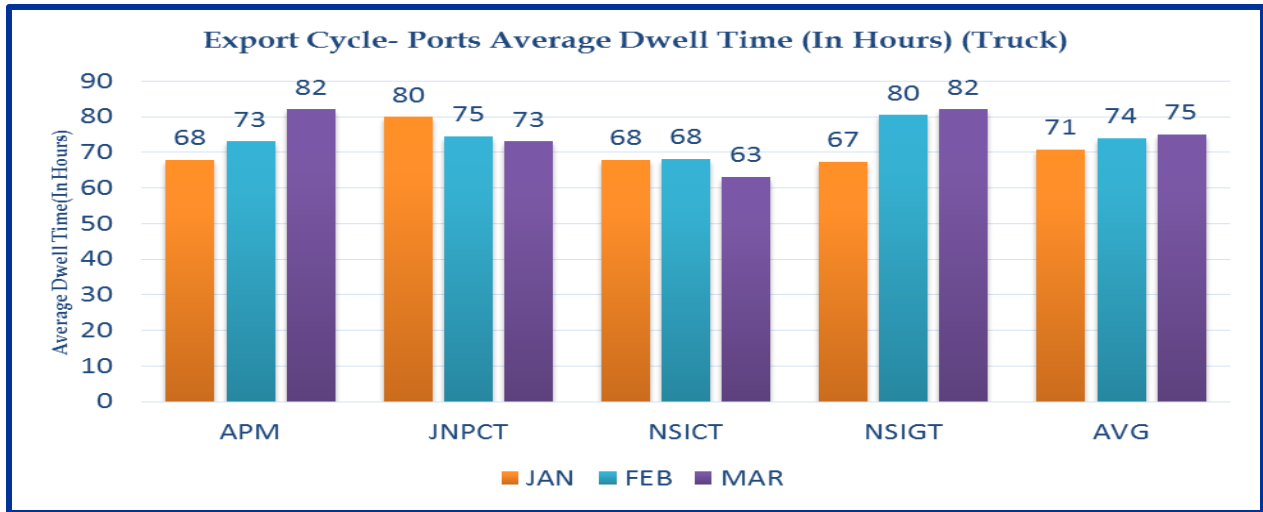
2.4 Overall Container Tagging & De-tagging from 1st July 2016 to 31st March 2017:

Total Import Containers Handled	1086731
Total Export Containers Handled	1171159
Total Containers Handled	2257890

3. LDB Analytics

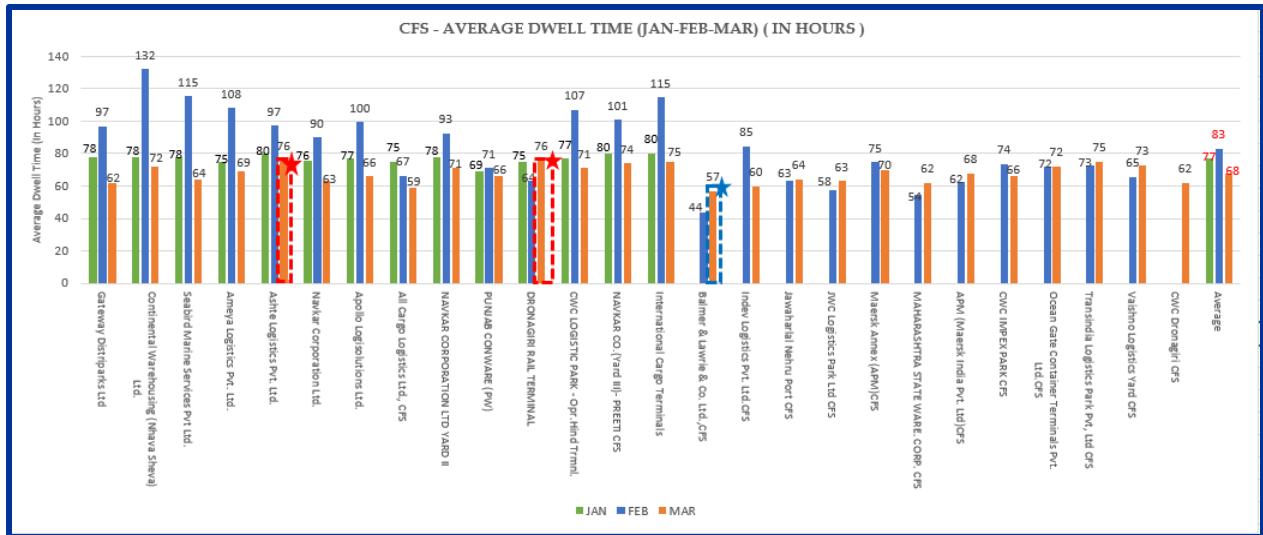
3.1 Port Dwell Time for Truck and Train based containers (JAN-FEB-MAR)





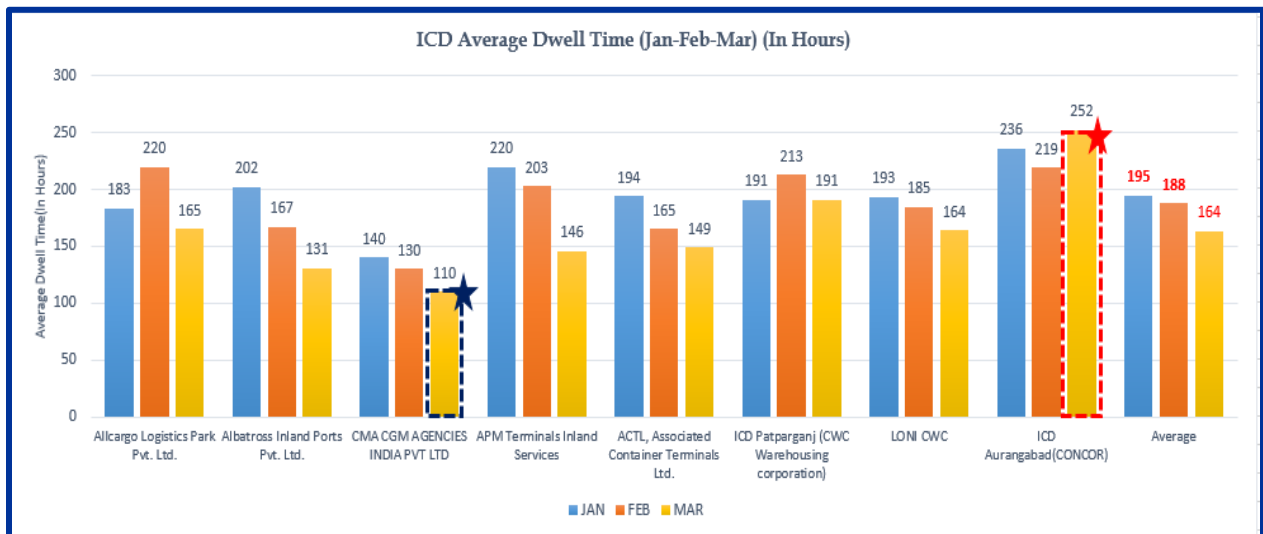
*****On the basis on above data, we find that Port Dwell time is higher for Train bound Export/Import containers and addressing the same would help in reducing the overall dwell time at the ports and bring in the efficiency.***

3.2 Container Freight Station Average Dwell Time (JAN-FEB-MAR) (Hours)



- Industry Average : 68 Hours(MAR)
- Industry Best : 57 Hours(MAR)
- Industry Worst : 76 Hours(MAR)

3.3 Inland Container Depot Average Dwell time (JAN-FEB-MAR)(Hours)

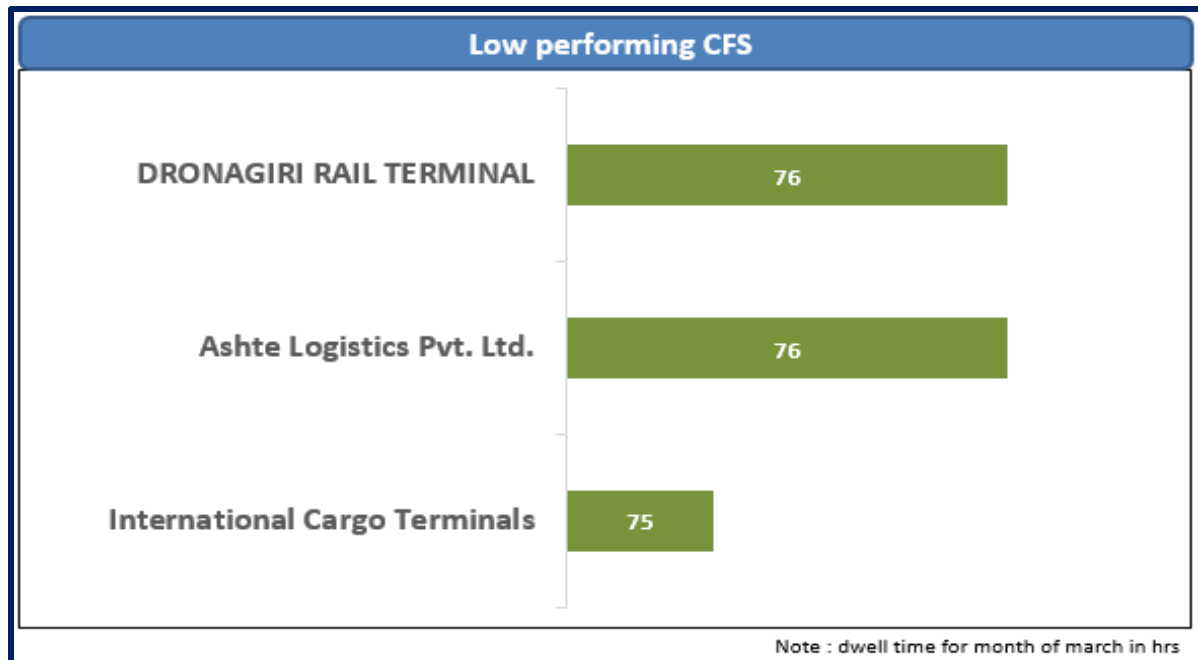


- Industry Average : 164 Hours(MAR)
- Industry Best : 110 Hours(MAR)
- Industry Worst : 252 Hours(MAR)

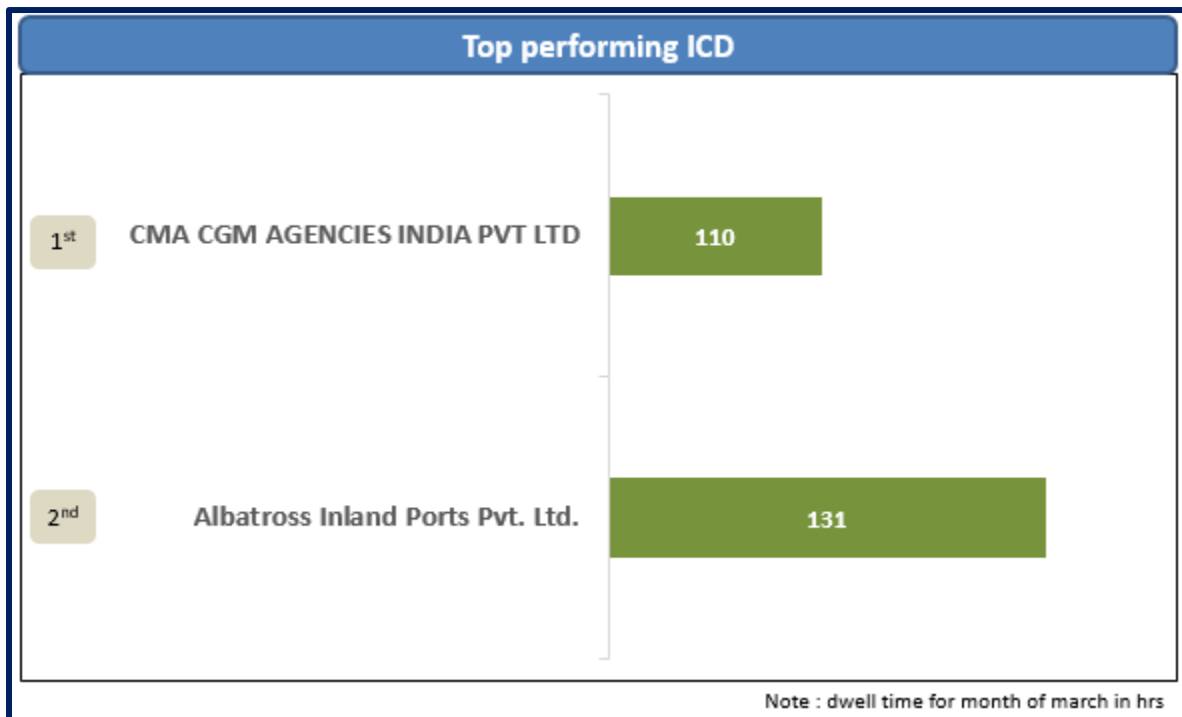
3.4 Top Performing CFS - Dwell Time (Mar 2017)



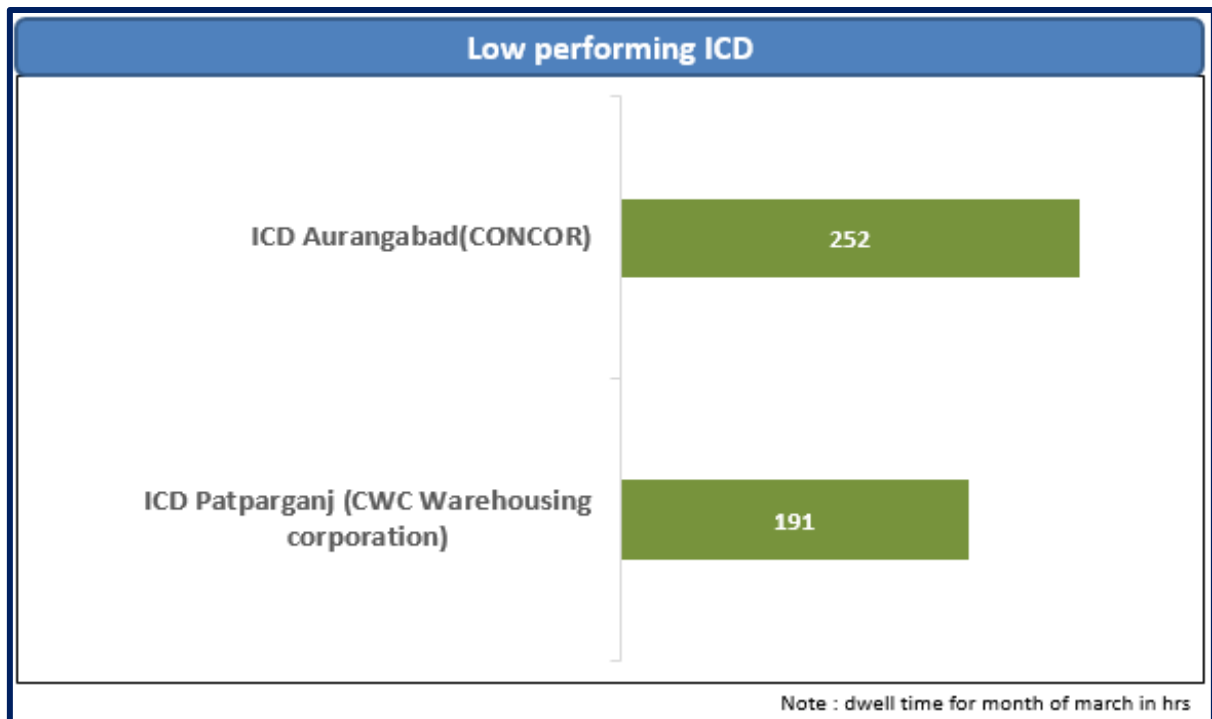
3.5 Low Performing CFS - Dwell Time (Mar 2017)



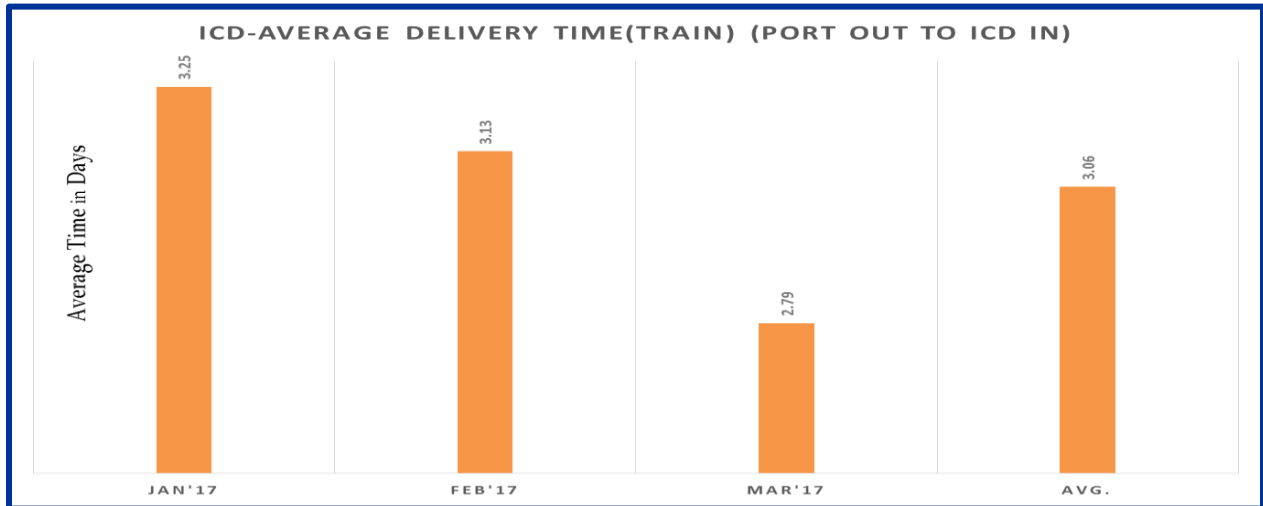
3.6 Top Performing ICD - Dwell Time (Mar 2017)



3.7 Low Performing ICD - Dwell Time (Mar 2017)

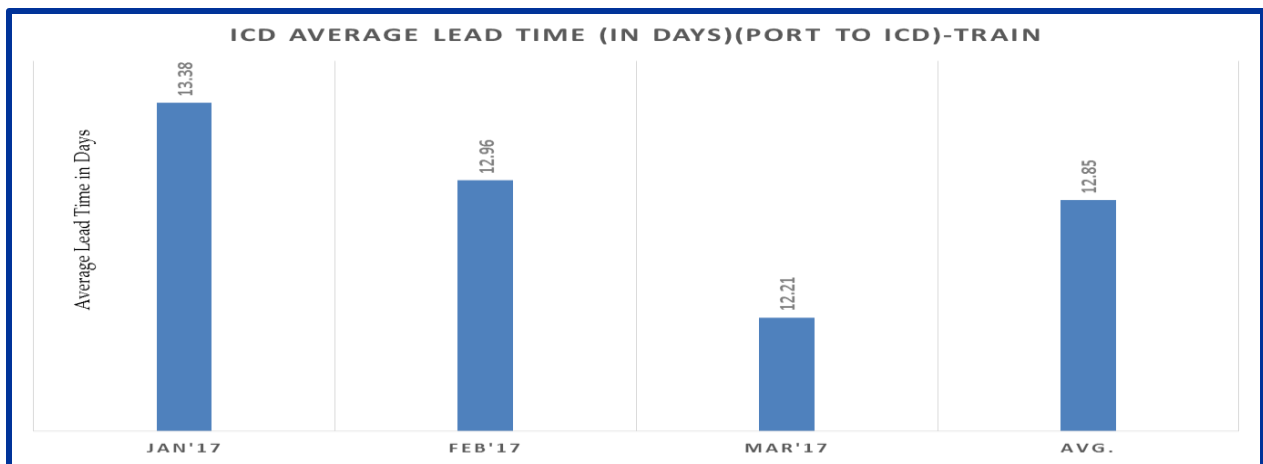


3.8 Inland Container Depot Average Delivery time (JAN-FEB-MAR) (IN Days)



- 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.

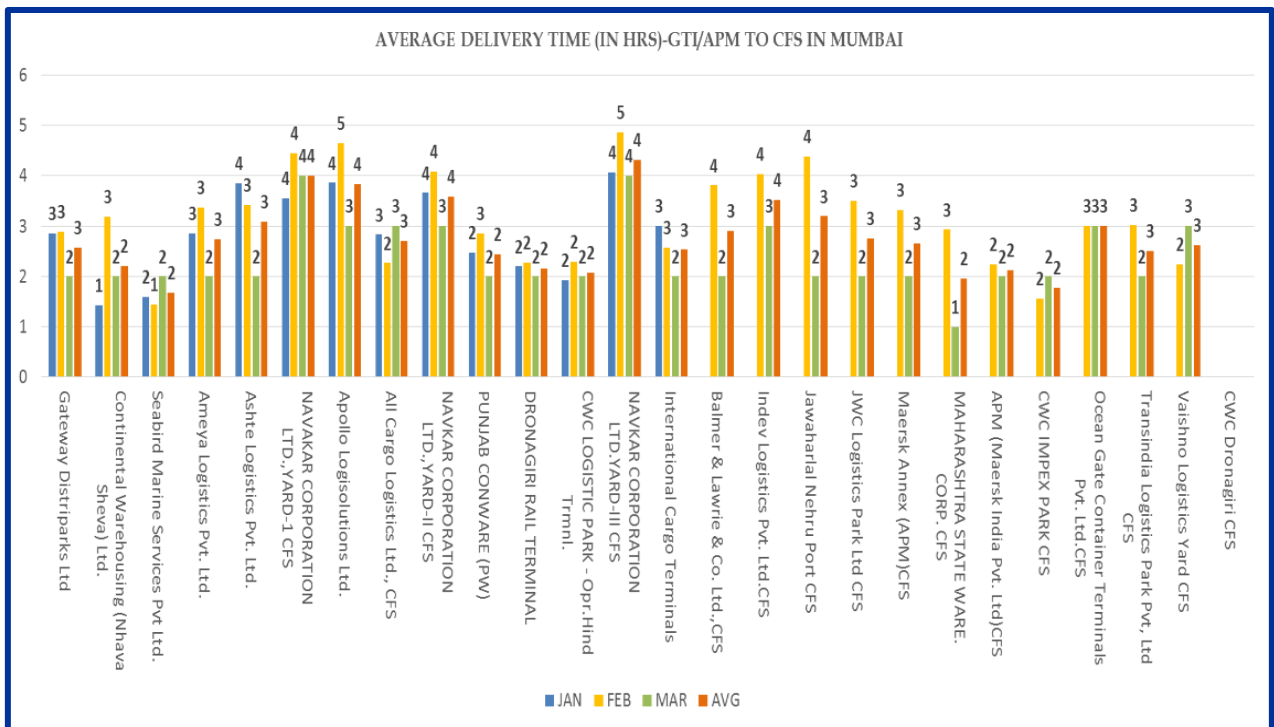
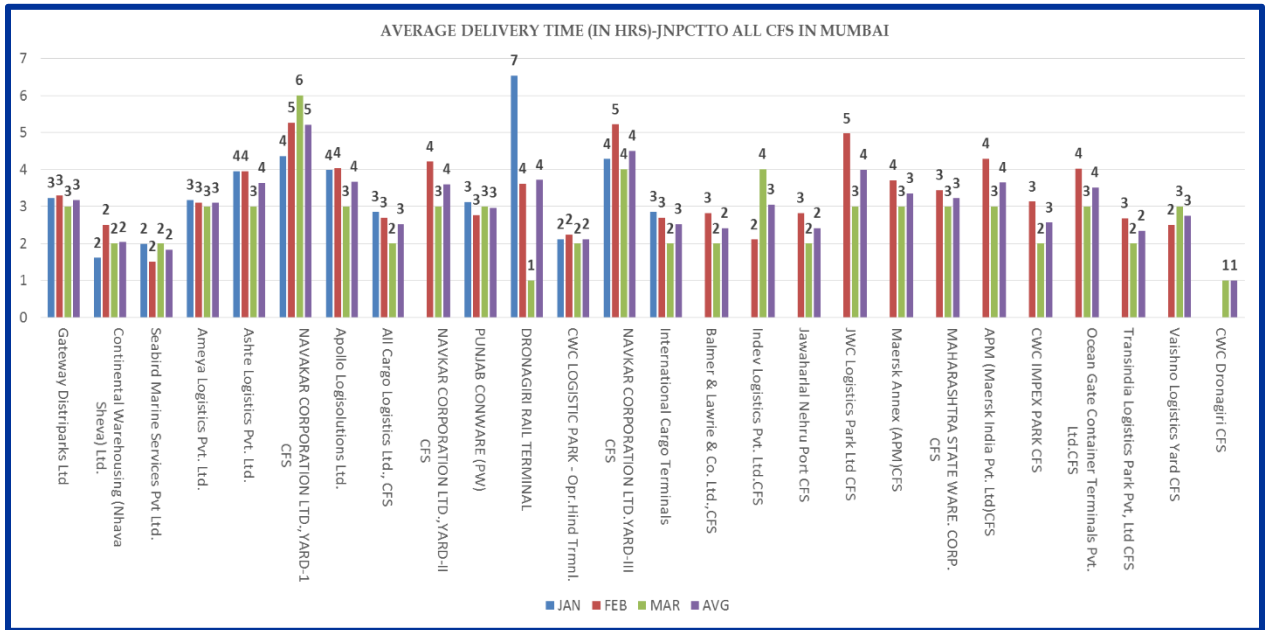
3.9 Inland Container Depot Average Lead time (JAN-FEB-MAR) (IN Days)

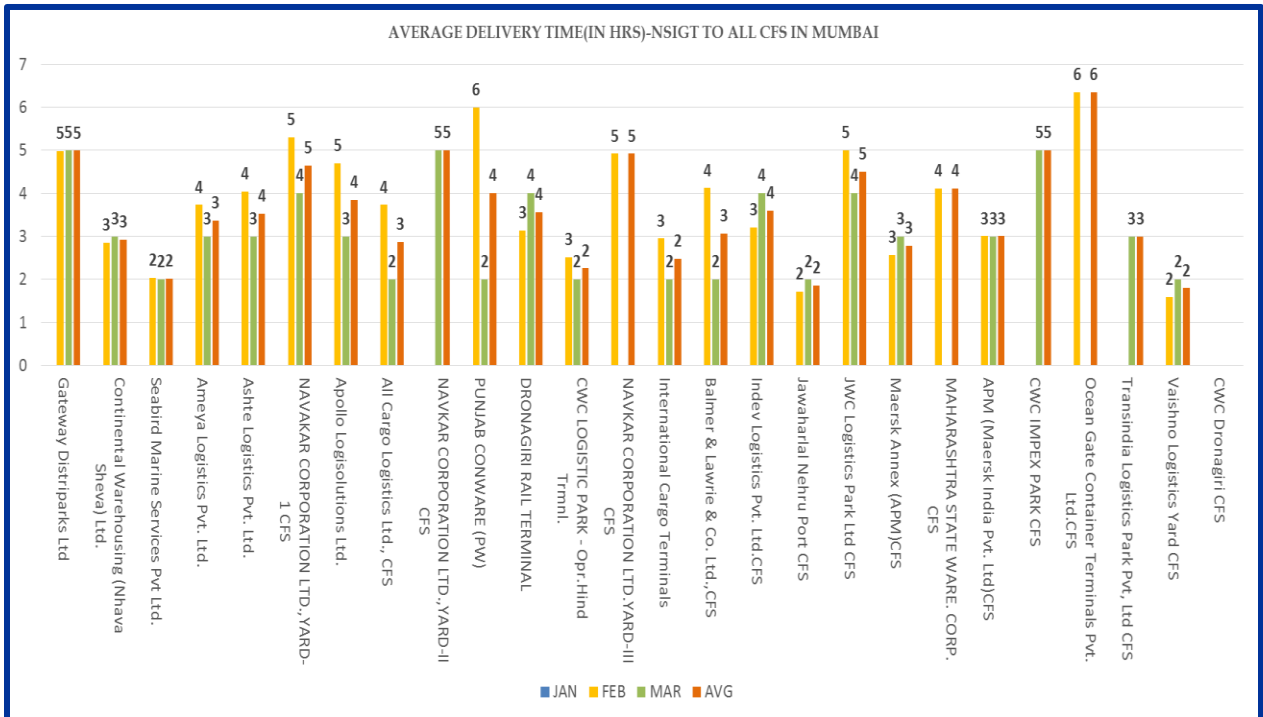
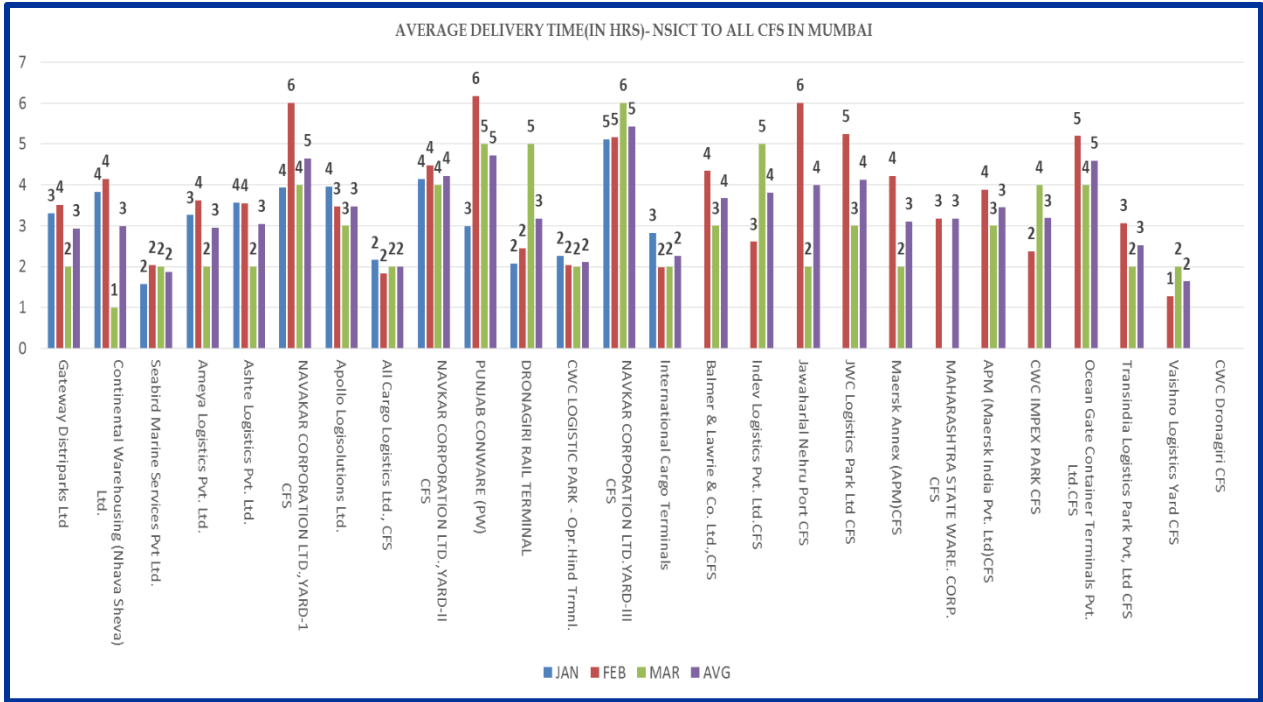


- To calculate the ICD average lead time for the container to reach port to ICD through Train:

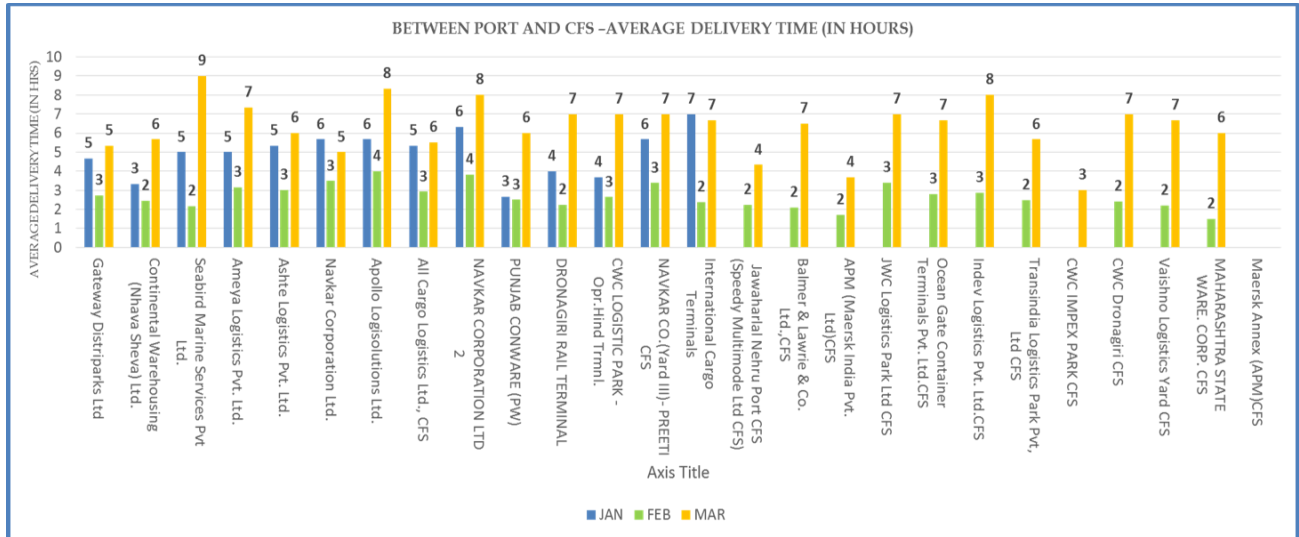
(Port Dwell Time + Port to ICD Delivery Time + ICD Dwell Time = Avg. Lead Time from Port to ICD)

3.10 Container Freight Station Average Delivery Time (JAN-FEB-MAR) (In Hours)

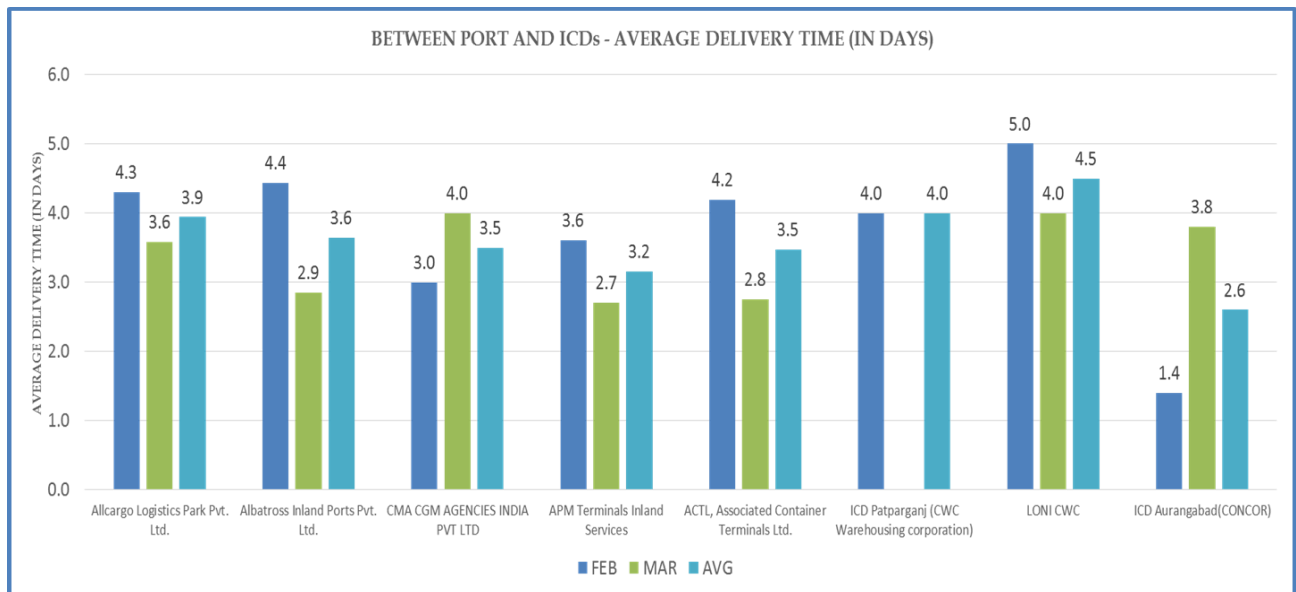




3.11 Average Delivery Time between Port and CFS (In Hours)



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



3.13 Average Travel Time between Toll Plazas

Average Speed required for container at different stretches of Western corridor

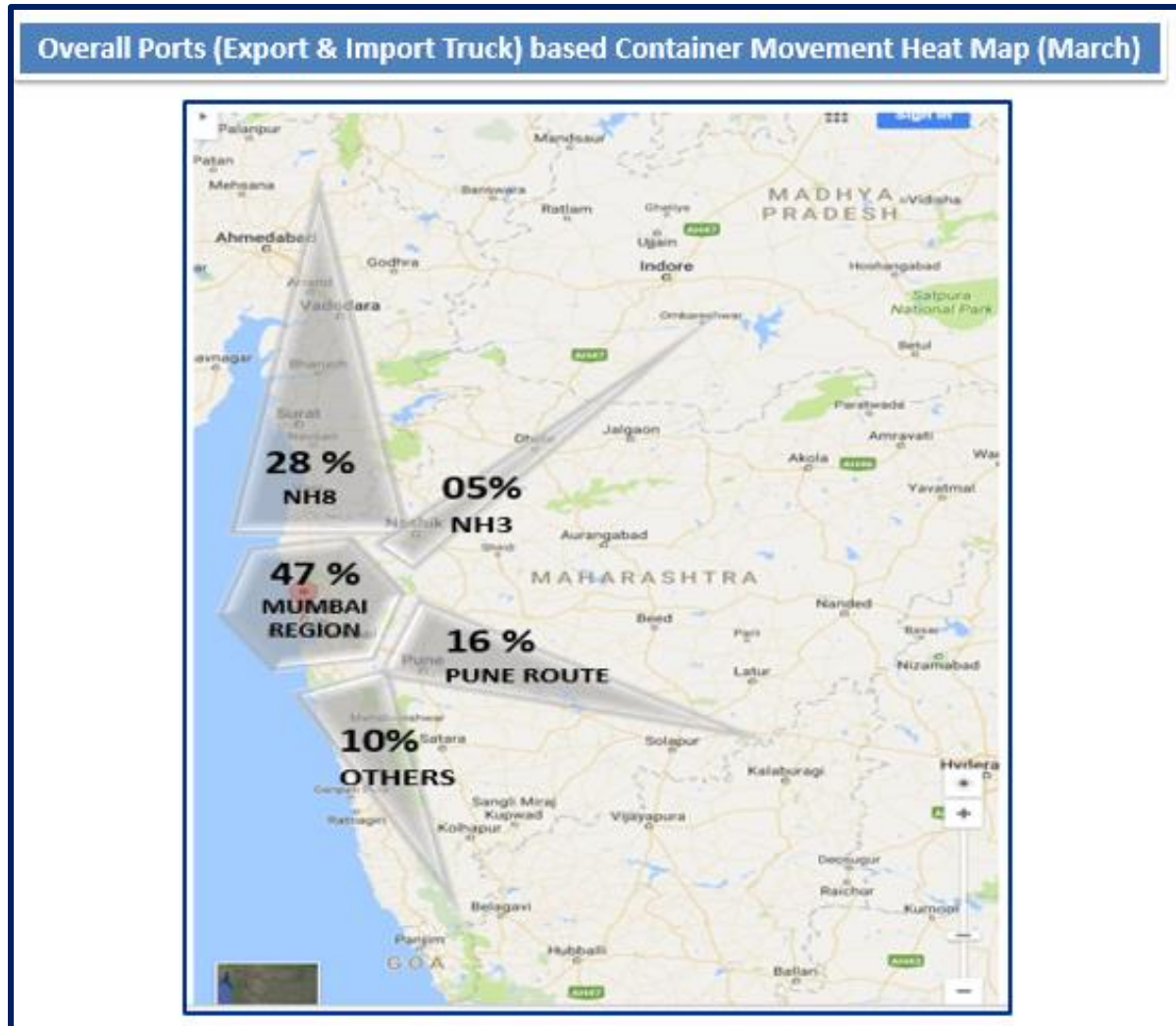


Average speed in the initial stretch is on the lower side than usual (Time taken is higher), as the dwell time of the nearby CFS and ICDs has also been considered in the calculation.

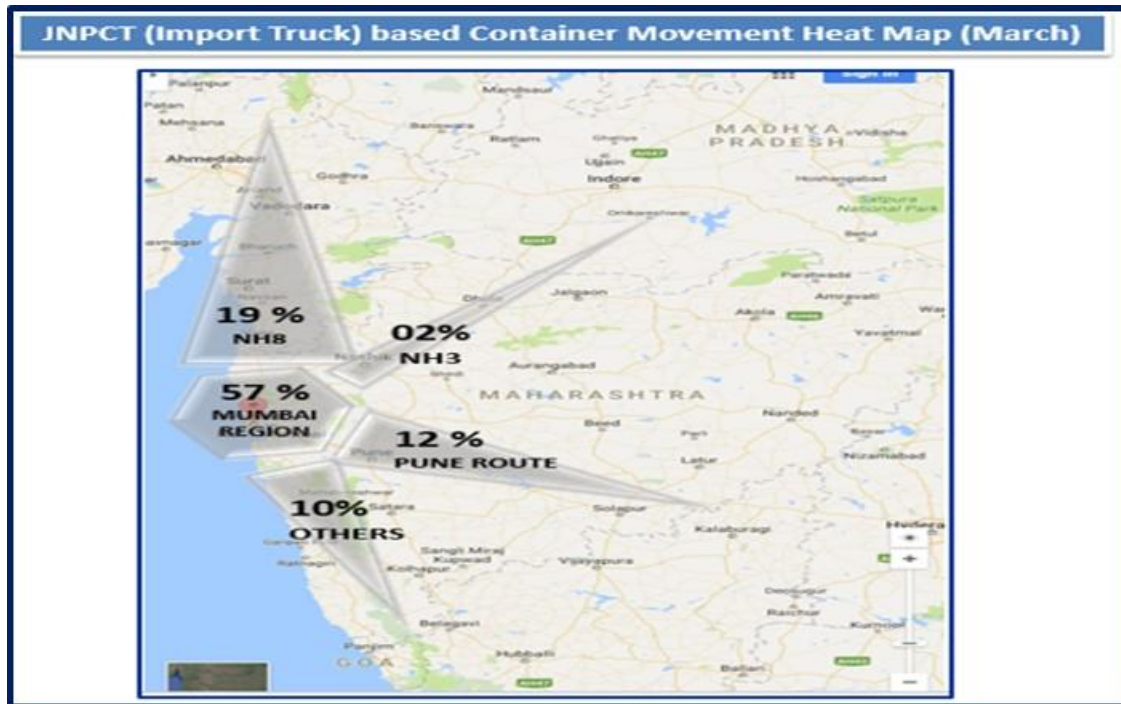
Avg. Travel Time between Toll Plazas

Source	Destination Toll Plaza	Inter Distance (Km)	Avg. Travel Time (Hrs)	Avg. Speed (Km/Hrs)
JNPT	Kharegaon	48	9	5
JNPT	Khaniwade	94	7	13
JNPT	Khalapur	60	4	15
Khaniwade	Charoti	50	2	25
Charoti	Boriach	126	8	16
Boriach	Bharthan	142	6	24
Bharthan	Kishangarh	686	40	17
Bharthan	Vasad	60	2	30
Kishangarh	Daulatpura	128	4	32
Kharegaon	Dhule	290	17	17
Dhule	Khalghat	186	10	19

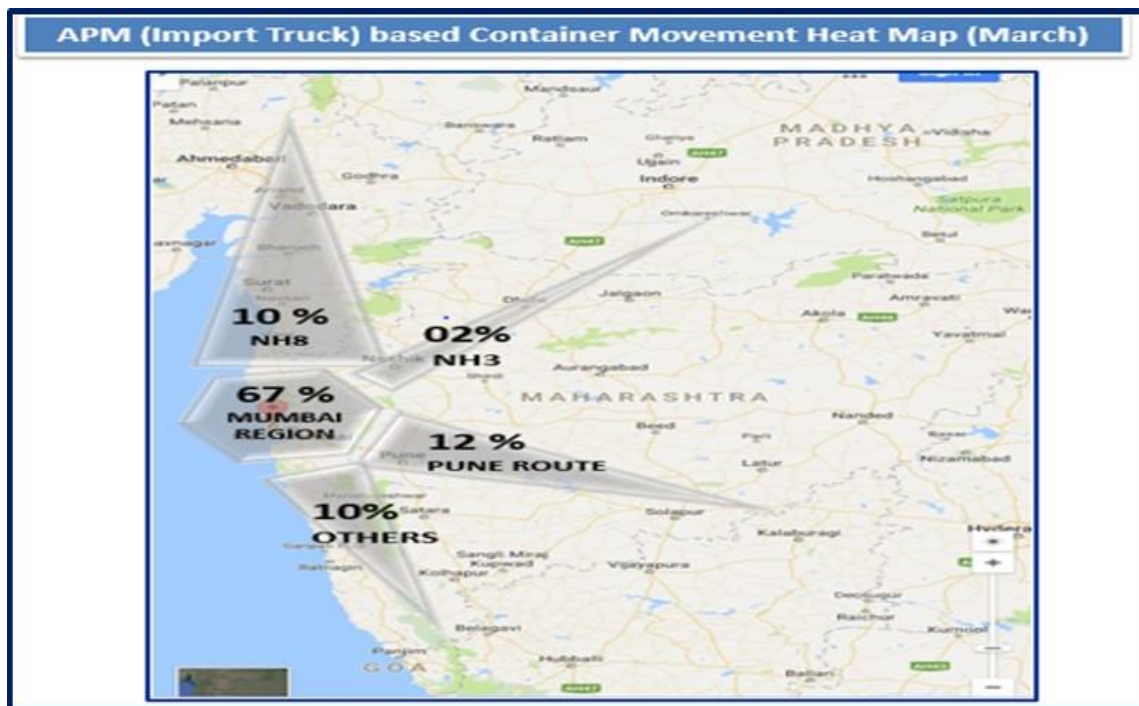
3.14 Container Movement Heat Map-Overall Port Terminals at JNPT



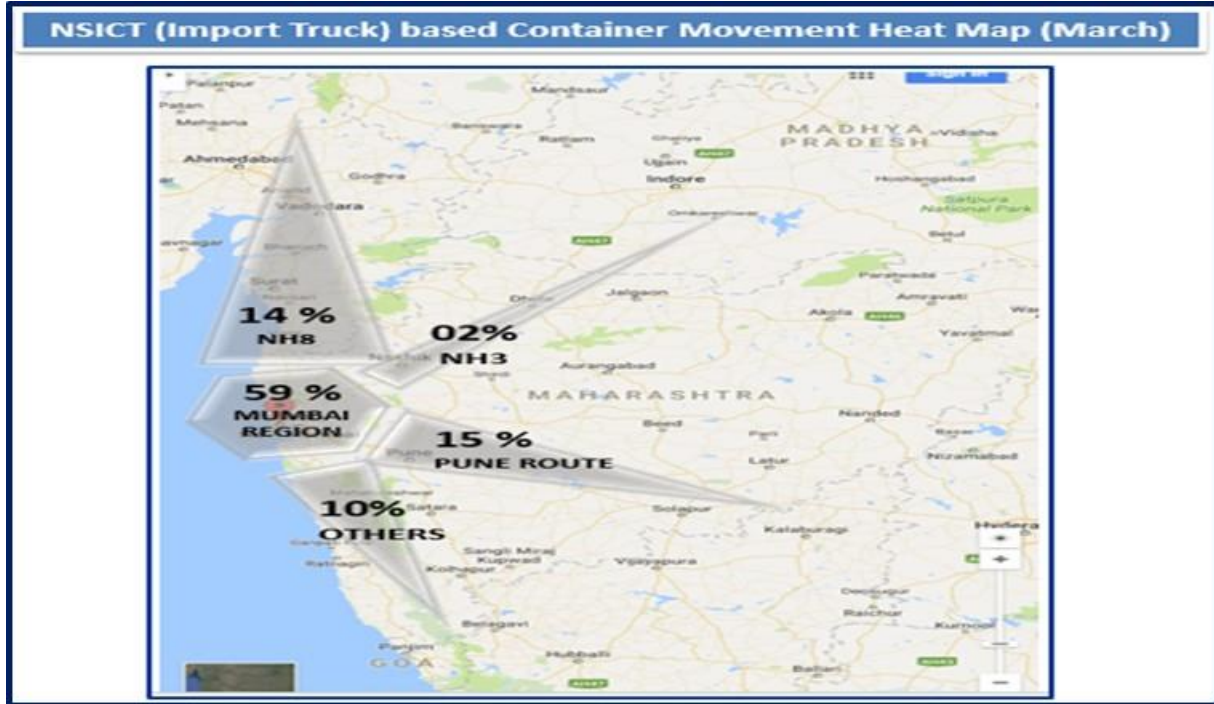
3.15 Container Movement Heat Map- JNPCT Terminal



3.16 Container Movement Heat Map- APM Terminal



3.17 Container Movement Heat Map-NSICT Terminals



Operations Overview

4. Operations Overview

4.1 Port Operations

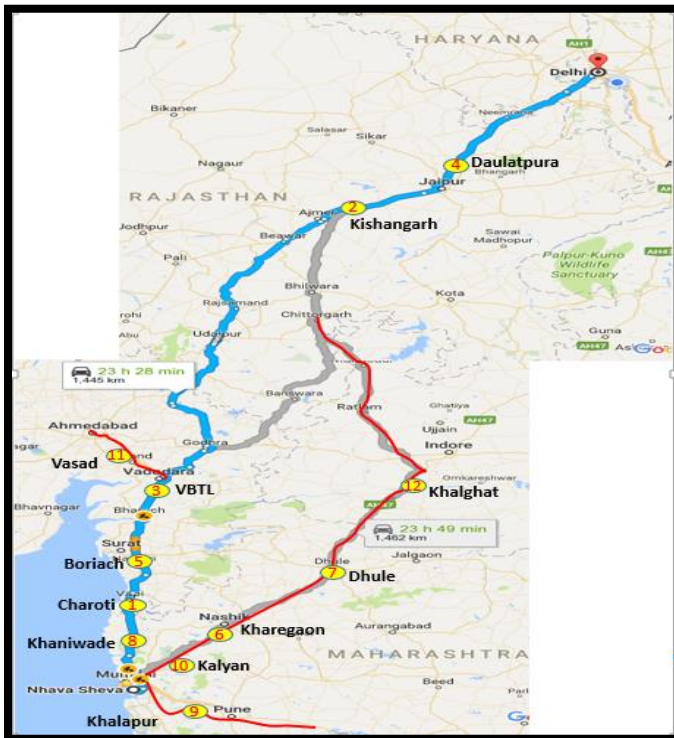
Port update (JNPT, Mumbai):

- 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.
- Total 22, 92,913 (from 1st July till Date) numbers of containers have been handled at all four terminals of JNPT.
- The movement of tagging/ de-tagging manpower to wharf area for NSICT and NSIGT terminals is planned in the third week of April.

4.2 Toll Operations

- The number of Toll plazas operational till date is **12**.
- For JFM'17 deployment, Site survey along with implementation for 5 toll plazas (i.e. Khalapur, Khalghat, Khaniwade, Kalyan & Vasad) has been completed and are operational.

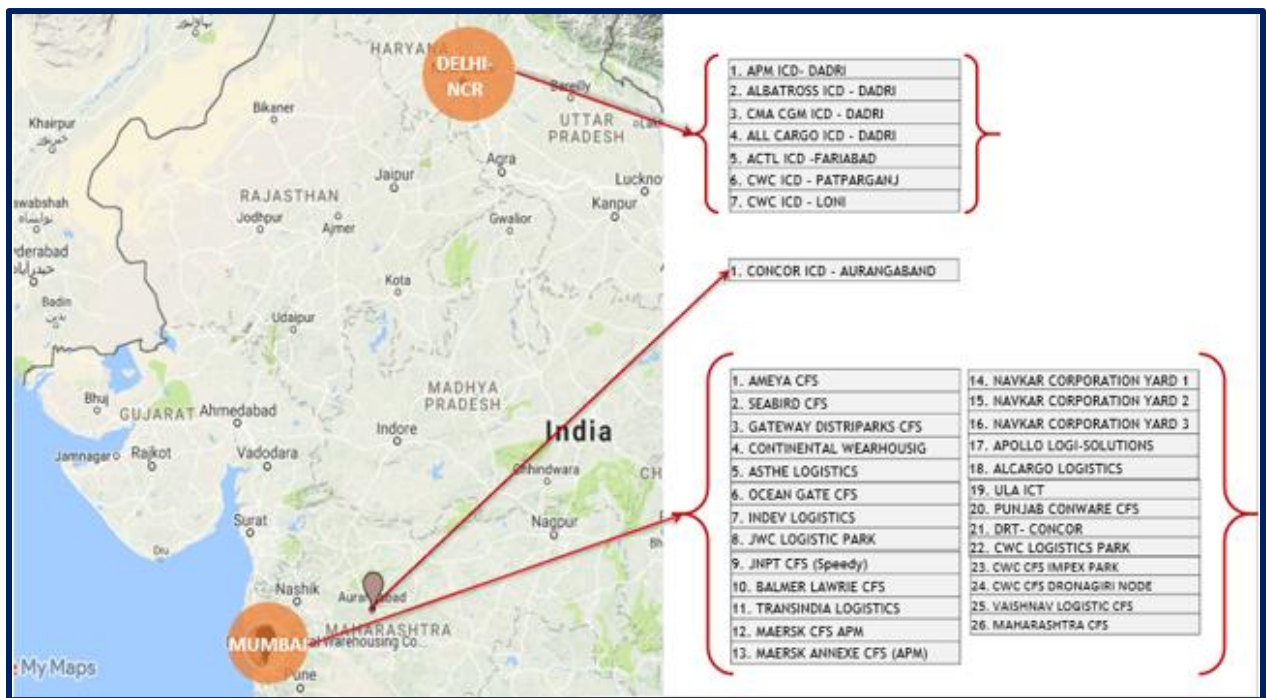
The below MAP depicts the number of Toll Plazas operational till date:



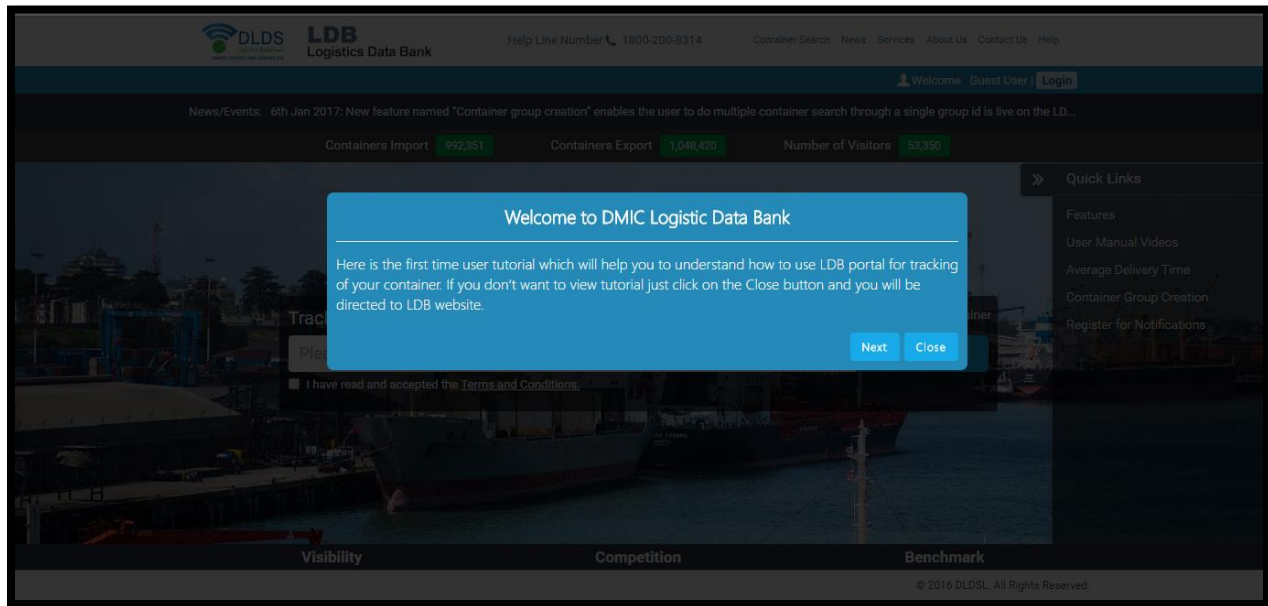
Sr. No	Toll Plaza Name	State	NH
1	Charoti	MH	8
2	GVK Kishangarh	Rajasthan	8
3	LnT VBTL	Gujarat	8
4	Daulatpura	Rajasthan	8
5	Boriyach	Gujarat	8
6	Kharegaon	MH	3
7	Dhule	MH	3
8	Khaniwade	MH	8
9	Khalapur	MH	MSRDC
10	Kalyan	MH	MSRDC
11	Vasad	Gujarat	8
12	Khalghat	MP	3

4.3 Container Freight Stations/ Inland Container Depot Operations

- a. After phase-4, total 34 CFS-ICD are “Live” and operational.
- b. The configuration is being done at all locations and data is received at LDB system.
- c. All 12 CFS selected for JFM quarter are live and data are being received by LDB Data Center
- d. By 15th of February, all 12 CFS were successfully implemented and were made live for receiving data.



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.
- Number of Visitors on LDB Portal as on date: **69,663**
- “Average Delivery Time” analytics feature released which provides the time of required from Source to Destination.
- Video of free screens to showcase the usage of features.