- DLDS commenced its operations across the Bharat Mumbai Container Terminal Private Limited (BMCTPL) at JNPT from 1st Apr 2018.

- LDB successfully commenced operations across the 4 Concor ICD's at Tughlakabad, Dadri, Kanakpura, Mulund.

- Vessel Tracking Integration with JNPT has been completed and LDB portal now provides visibility across the sea for export bound container movement.

- Pan India launch of DMICDC's Logistics Databank Operations was announced on 18th Dec 2017, this will enable in bringing Visibility & Transparency across the Indian Supply Chain and reduce the Container Transportation time and the costs.

- LDB service went live across ICD Tughlakabad from 11th March 2018 which will provide visibility of the EXIM container movement.

- Launch of LDB mobile App for android users, is enabling the stakeholders in tracking the EXIM Containers movement across the western corridor.

- Logistics Databank Project(LDB) as on date has provided visibility service for 7,676,212 EXIM Containers across the western corridor of India.
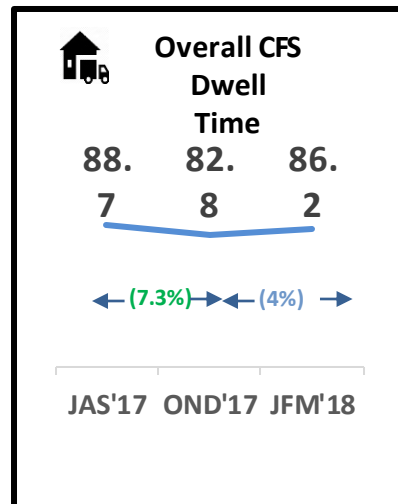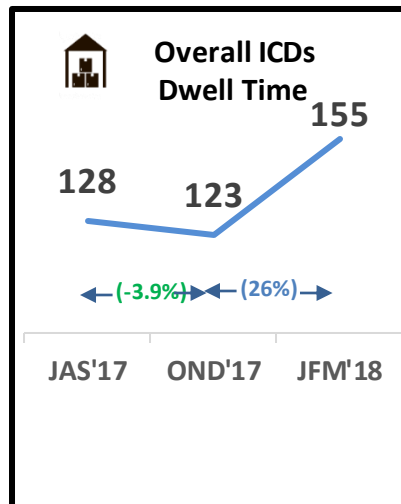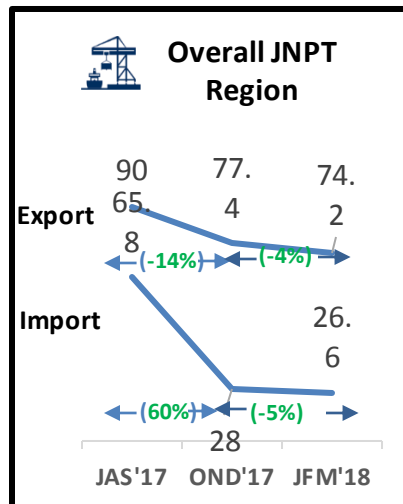
Performance Trend: Quarter on Quarter

DLDS
Logistics Redefined
DMICDC LOGISTICS DATA SERVICES LTD
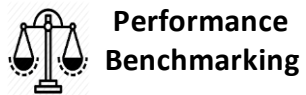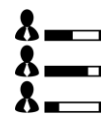
Performance Benchmarking	Performance Index	Container Clearance Time analysis

With help of above activities below results have been achieved :

Overall JNPT Region

Export
90 65 8   77. 4   74. 2
(-14%)   (-4%)

Import
26. 6
(60%)   (-5%)
28
JAS'17   OND'17   JFM'18

Overall ICDs Dwell Time
155
128   123
(-3.9%)   (26%)
JAS'17   OND'17   JFM'18

Overall CFS Dwell Time
88. 7   82. 8   86. 2
(7.3%)   (4%)
JAS'17   OND'17   JFM'18

Congestion Analysis	Bottleneck Identification

Overall Port to ICDs average Delivery Time (in hrs.)
110
72.4   76.3   82.9
60
(5.4%)   (8.7%)
10
JAS'17   OND'17   JFM'18

Overall Port to CFS average Delivery Time (in hrs)
2.3   2.6   2.7
0
JAS'17   OND'17   JFM'18

Dwell Time

There has been an improvement in Port dwell time performance for both import and export cycle by 5% and 4% for JFM'17 quarter

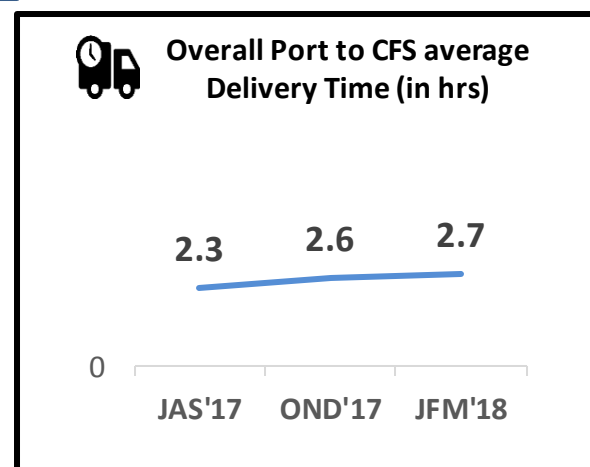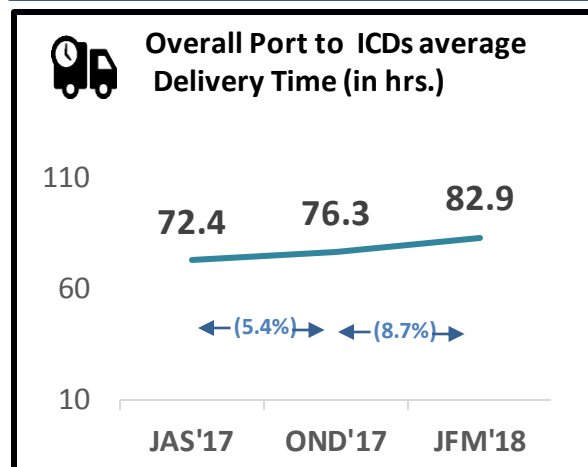ICD dwell time performance has decreased by 26% iin JFM '18 as compared to OND'17 quarter

Transit Time Reduction

There has been an increase of 8.7 % in Port to ICD delivery time in JFM'18 as compared to OND'17

IMPLEMENTATION

- 5 Port Terminals at JNPT
- 4 Port Terminals at Mundra
- 1 Port Terminal at Hazira
- 46 CFSs across Western Corridor
- 14 ICDs near NCR
- 19 Toll Plazas
- 280 Operators at Ports

INTEGRATION

- Integrated with 10 Port Systems
- Integrated with FOIS (Railways)

Providing Truck and Train based end to end Container Visibility Services.

SERVICES

- Basic Search through a single window for end to end tracking
- Basic Analytics (Dwell Time, Transit Time, Alerts, Google Map View etc.)
- Detailed Analytics (Container Heat Map, Congestion Analysis, Performance Benchmarking, etc.)

- Visibility services for 70% of India's Container Volume.
- Visibility provided for more than 7.5 million EXIM Containers

LDB Analytics

Performance Benchmarking

Performance benchmarking for JNPT Region for JFM'18 quarter

Port Terminals

Top Performing Terminal		Low Performing Terminal	
Gateway Terminals India (GTI)	Dwell Time : **43.1** hrs.	Nhava Sheva International Container Terminal (NSICT)	Dwell Time : **54.7** hrs.

Performance benchmarking for APSEZ Region for JFM'18 quarter

Port Terminals

Top Performing Terminal		Low Performing Terminal	
Adani Hazira Port Private Limited (AHPPL)	Dwell Time : **53.1** hrs.	Adani International Container Terminal (AICT)	Dwell Time **: 77** hrs.

Performance benchmarking for JNPT Region CFS for quarter JFM'18

CFS

Top Performing CFS's		Low Performing CFS's	
JWR CFS	Dwell Time : **55.1** hrs.	Take Care Logistics CFS	Dwell Time : **122.2** hrs.

Performance benchmarking for APSEZ Region CFS for quarter JFM'18

CFS

Top Performing CFS's		Low Performing CFS's	
Adani CFS Eximyard, Mundra	Dwell Time : **50.4** hrs.	Hind Mundra Terminals CFS, Mundra	Dwell Time : **118.2** hrs.

Performance Benchmarking- ICD

Performance benchmarking for ICDs for quarter JFM'18

ICD

Top Performing ICD	
CMA CGM Agencies ICD, Dadri	Dwell Time : **93.2** hrs.

Low Performing ICD	
APM Terminals ICD, Dadri	Dwell Time : **166** hrs.

Note: All the CONCOR ICD's/ CFS are excluded from this comparative analysis

Performance Benchmarking- Western Corridor

Port Terminals

Top Performing Terminal		Low Performing Terminal	
Gateway Terminals India (GTI)	Dwell Time : **43.1** hrs.	**Adani International Container Terminal (AICT)**	Dwell Time : **77** hrs.

Below depicts the best performing Container freight station (CFS) across western corridor for quarter JFM'18

CFS

Top Performing CFS's		Low Performing CFS's	
Adani CFS Eximyard, Mundra	Dwell Time : **50.4** hrs.	**Take Care Logistics CFS**	Dwell Time : **122.2** hrs.

Overall Port Performance Index

DLDS
Logistics Redefined
DMICDC LOGISTICS DATA SERVICES LTD

Star Performer: High container volume in lower dwell time

Slow Bulk Movers : Higher container volume at higher dwell time

High Potential : Lower container volume in lower dwell time

Laggard : Lower container volume at higher dwell time

Overall Port Terminal Performance Index : JFM'18

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

High | Container Volume

GTI

JNPCT

low

Dwell Time | High

Quadrant : III
High Potential

Quadrant : IV
Laggard

AMCT

AICT

MICT

NSIGT

NSICT

AHPPL

low

ACMTPL

JNPT CFS Performance Index

JNPT region CFS Performance Index for JFM'18

Quadrant : II

Quadrant : I

Container Volume — High

CWC Hind Terminal CFS, Navi Mumbai

Star performer

Slow Bulk Movers

Punjab Conware CFS, Navi Mumbai

International Cargo Terminals (ULA) CFS, Navi Mumbai

Transindia Logistics…

Gateway Distriparks CFS, Navi Mumbai

Dwell Time — High

Ameya Logistics CFS, Navi…

low

Speedy Multimode CFS, JNPT

Navkar Corporation Yard 3 CFS, Panvel

Quadrant : III

Continental Warehousing CFS, Navi Mumbai

Quadrant : IV

Apollo Logisolutions CFS, Panvel

JWR CFS

High Potential

International Cargo Terminal CFS

Laggard

Ashte Logistics CFS, Panvel

All Cargo Logistics CFS, Navi Mumbai

Seabird CFS, Navi…

Maersk Annex (APM)CFS, Navi Mumbai

TG Terminals CFS

Ocean Gate CFS, Panvel

Dronagiri Rail Terminal CFS, Navi Mumbai

Navkar Corporation Yard 2 CFS, Panvel

Indev…

Balmer & Lawrie CFS, Navi Mumbai

Take Care Logistics CFS

Navkar Corporation Yard 1 CFS, Panvel

JWC Logistics Park CFS

Dronogiri Rail Terminal CFS, Navi Mumbai

APM (Maersk India) CFS, …

Maharashtra State Corp CFS

SBW Logistics CFS, Navi Mumbai

Vaishno Logistics CFS, Navi Mumbai

CWC Dronagiri CFS, Navi Mumbai

low

Legends

Top in category

Star performer

Slow bulk mover

High potential

Laggard

Gujarat CFS Performance Index

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Gujarat CFS Performance Index for JFM'18

Quadrant : II

Star performer

Container Volume — High

Quadrant : I

Slow Bulk Movers

Saurashtra CFS, Mundra

Adani CFS, Hazira

Ashutosh CFS,...

Hind...

Seabird CFS, Hazira

Dwell Time — High

low

MICT CFS, Mundra

Quadrant : III
High Potential

Mundhra CFS, Mundra

TG Terminals CFS, Mundra

Transworld CFS, Mundra

Adani CFS Eximyard, Mundra

Honey Comb...

Seabird CFS, Mundra

All Cargo CFS, Mundra

Hind Terminal CFS, Hazira

Quadrant : IV Laggard

low

Legends

Top in category

🟩	**Star performer**
🟫	**Slow bulk mover**
🟦	**High potential**
🟧	**Laggard**

ICD Performance Index

ICD Performance Index for JFM'18

Quadrant : II
Star performer

Quadrant : I
Slow Bulk Movers

Container Volume — High / low

Gateway Rail ICD

APM Terminals ICD, Dadri

Adani ICD

Dwell Time — low / High

Quadrant : III
High Potential

Quadrant : IV
Laggard

Allcargo Logistics Park ICD, Dadri

Albatross Inland Ports ICD, Dadri

CWC ICD, Loni

CWC ICD, Patparganj

ACTL

CMA CGM Agencies ICD, Dadri

Legends

Top in category

- 🟩 **Star performer**
- 🟫 **Slow bulk mover**
- 🟦 **High potential**
- 🟧 **Laggard**

Transit Time Analysis

JNPT Congestion Analysis

Cluster 1	Cluster 2
JNPT Area	Bhendkhal area, Khopate road

Cluster 3	Cluster 4
Sonari area,JNPT road	Chirle area , JNPT road

Cluster 5	Cluster 6
Plaspa area, Coachi kanyakumari Highway	Salva apta rd area, Bangalore highway

Cluster 7	Cluster 8
Patilpada area, Khopate JNPT road	Taloja, Navi Mumbai

Legends
- High Congestion
- Medium Congestion
- Low Congestion
- Cluster with bottleneck
- Cluster without bottleneck

It is seen that Cluster 1 has congestion bottleneck throughout the JFM'18 quarter

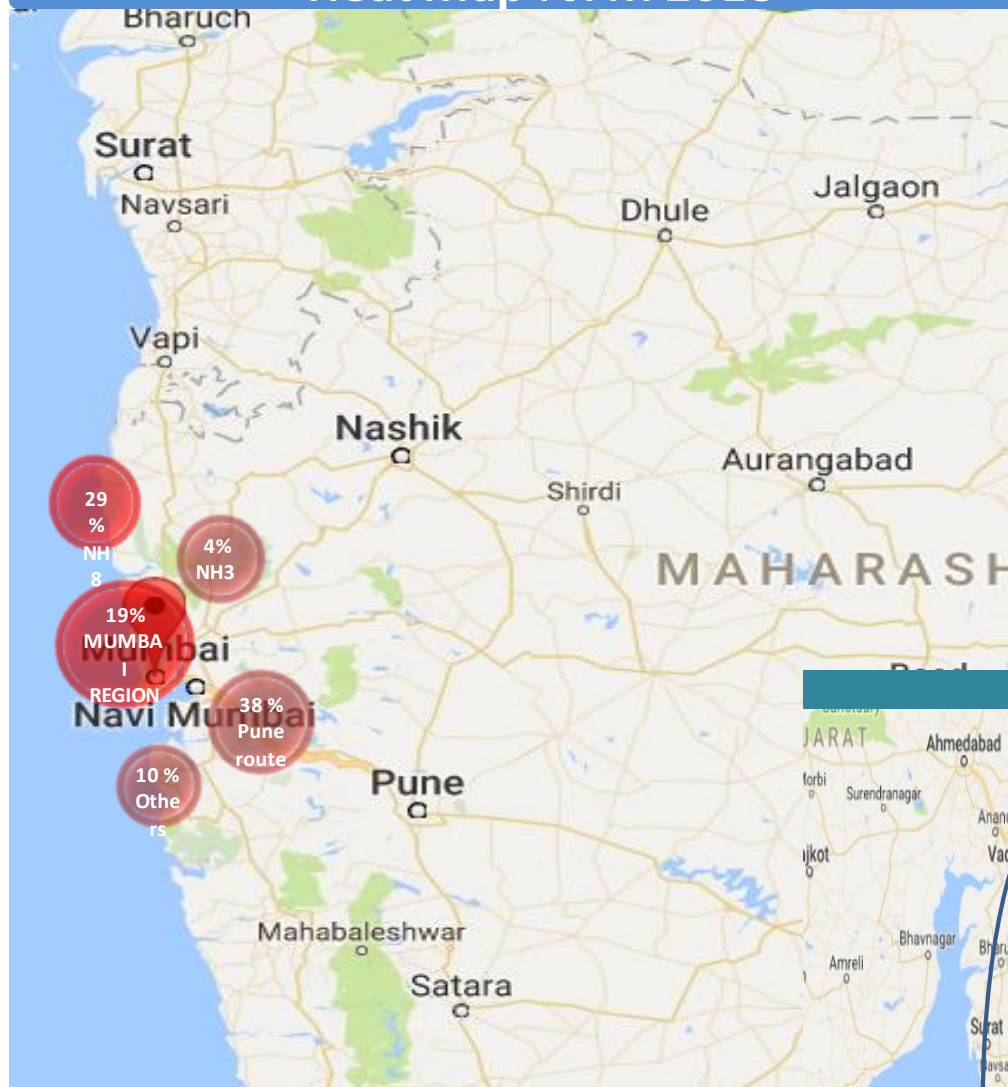| GTI Terminal	JNPCT Terminal	NSICT Terminal	NSIGT Terminal
Congestion Level	Congestion Level	Congestion Level	Congestion Level
Export Cycle :-	Export Cycle :-	Export Cycle :-	Export Cycle :-
Import Cycle :-	Import Cycle :-	Import Cycle :-	Import Cycle :-

Note : Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals(
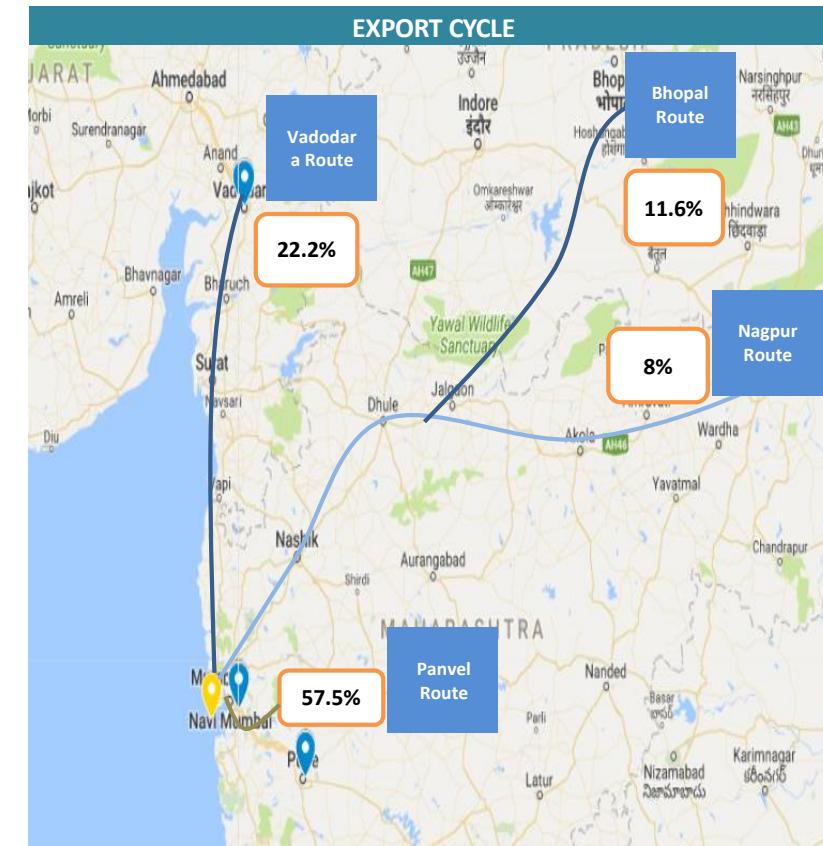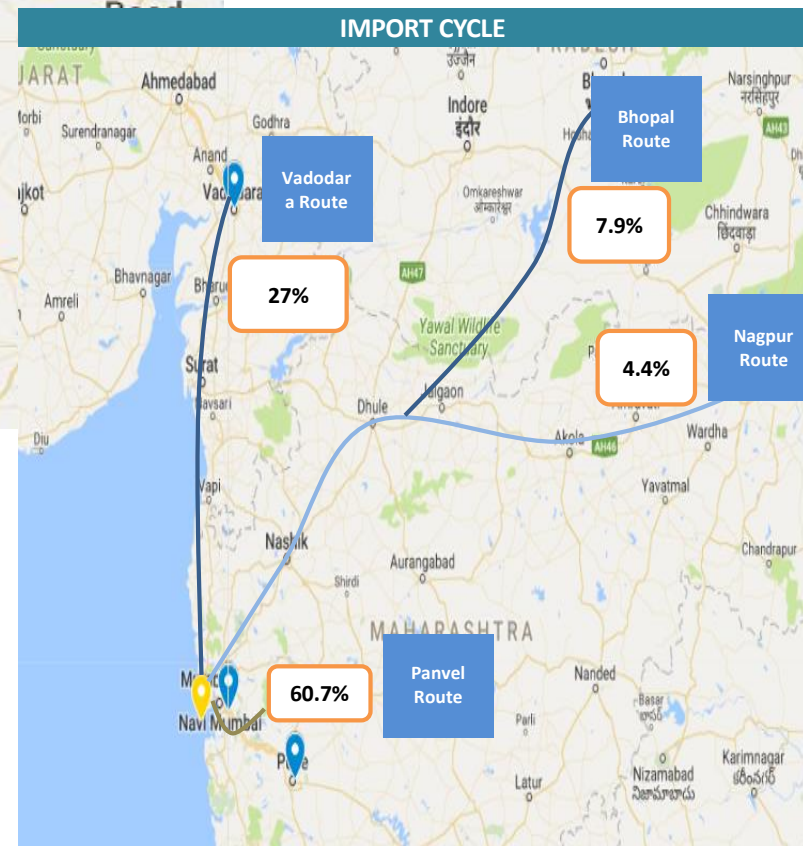
Below mentioned are all the CFS in the respective Clusters :

Cluster 1
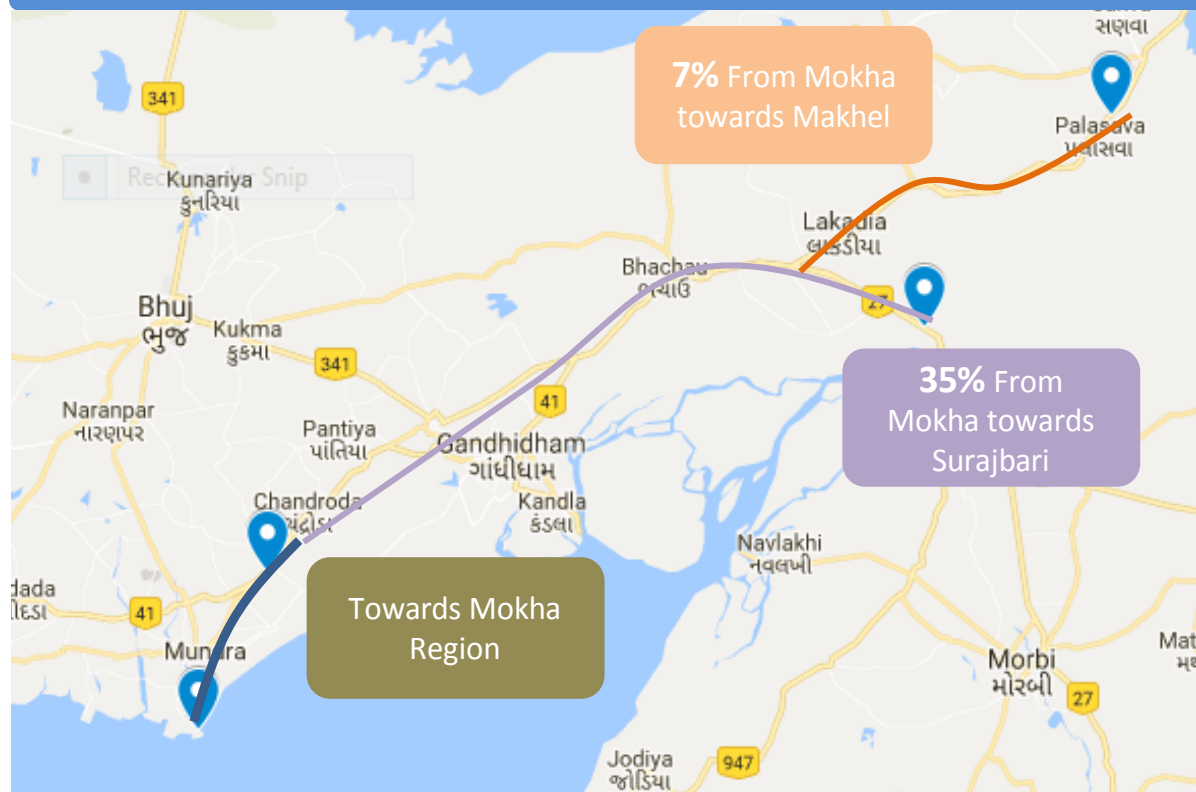(JNPT Area)

- Speedy Multimode CFS,JNPT

Cluster 2
(Bhendkhal area, Khopate road)

- APM (Maersk India) CFS, Navi Mumbai
- Maersk Annex (APM)CFS, Navi Mumbai
- Balmer & Lawrie CFS, Navi Mumbai
- CWC Hind Terminal CFS, Navi Mumbai
- International Cargo Terminals (ULA) CFS, Navi Mumbai & Infrastructure Private Limited
- Gateway Distriparks CFS, Navi Mumbai
- International Cargo Terminal CFS

Cluster 3
Sonari area,JNPT road

- Punjab Conware CFS, Navi Mumbai
- Dronogiri Rail Terminal CFS, Navi Mumbai
- CWC Impex Park CFS, Navi Mumbai
- CWC Dronagiri CFS, Navi Mumbai
- Maharashtra State Corp CFS
- Seabird CFS, Navi Mumbai

Cluster 4
(Chirle area , JNPT road)
- Vaishno Logistics CFS, Navi Mumbai

Cluster 5
(Plaspa area, Coachi kanyakumari Highway)
- JWC Logistics Park CFS
- Ocean Gate CFS, Panvel

Cluster 8
SBW

Cluster 6
(Salva apta rd area, Bangalore highway)

- Ashte Logistics CFS, Panvel
- Apollo Logisolutions CFS, Panvel
- Indev Logistics CFS, Panvel
- Navkar Corporation Yrd 1 CFS, Panvel
- Navkar Corporation Yard 2 CFS, Panvel
- Navkar Corporation Yard 3 CFS, Panvel

Cluster 7
(Patilpada area, Khopate JNPT road)

- All Cargo Logistics CFS, Navi Mumbai
- Transindia Logistics Park, Navi Mumbai
- Ameya Logistics CFS, Navi Mumbai
- Continental Warehousing CFS, Navi Mumbai

JNPT Overall Heatmap

Heat Map : JFM 2018

Region	OND'17	JFM'18
Mumbai Region	48%	19%
Pune	22%	38%
NH8	17%	29%
NH3	3%	4%
Others	10%	10%

IMPORT CYCLE

Bhopal Route — 7.9%

Vadodara Route — 27%

Nagpur Route — 4.4%

Panvel Route — 60.7%

EXPORT CYCLE

Bhopal Route — 11.6%

Vadodara Route — 22.2%

Nagpur Route — 8%

Panvel Route — 57.5%

APSEZ Overall Heatmap

HEAT MAP : Overall Mundra Region

i.e. all 4 termainals at Mundra port region i.e. MICT, AICT, AMCT, AHPTL

Heat Map : March'18

7% From Mokha towards Makhel

35% From Mokha towards Surajbari

Towards Mokha Region

From Mokha towards		
Region	March'18	February'18
Surajbari	35%	37%
Makhel	7%	7%

EXPORT CYCLE

Jodhpur Jn. Route — 22.5 %

Palanpur Jn. Route — 32.8 %

Ratlam Jn. Route — 22.2 %

Vadodara Jn. Route — 22.4 %

IMPORT CYCLE

Jodhpur Jn. Route — 18.2 %

Palanpur Jn. Route — 30.1 %

Ratlam Jn. Route — 26.1 %

Vadodara Jn. Route — 25.5 %
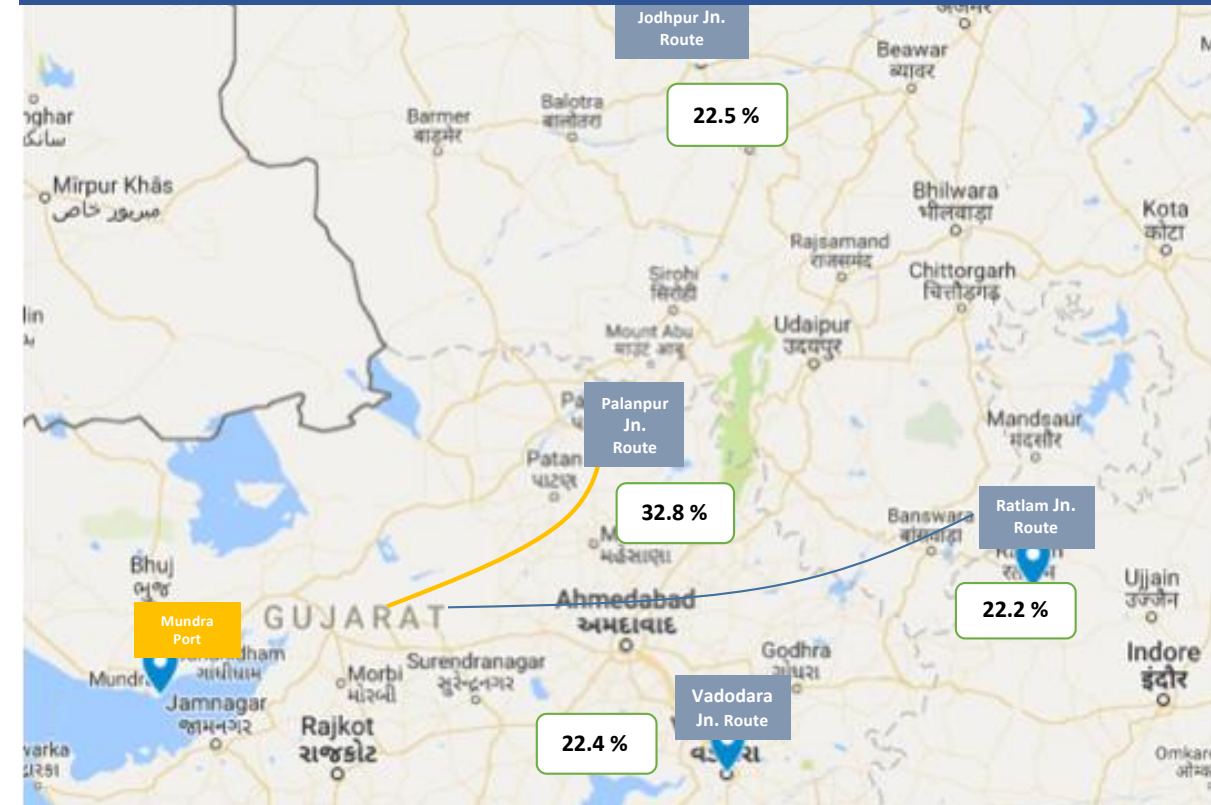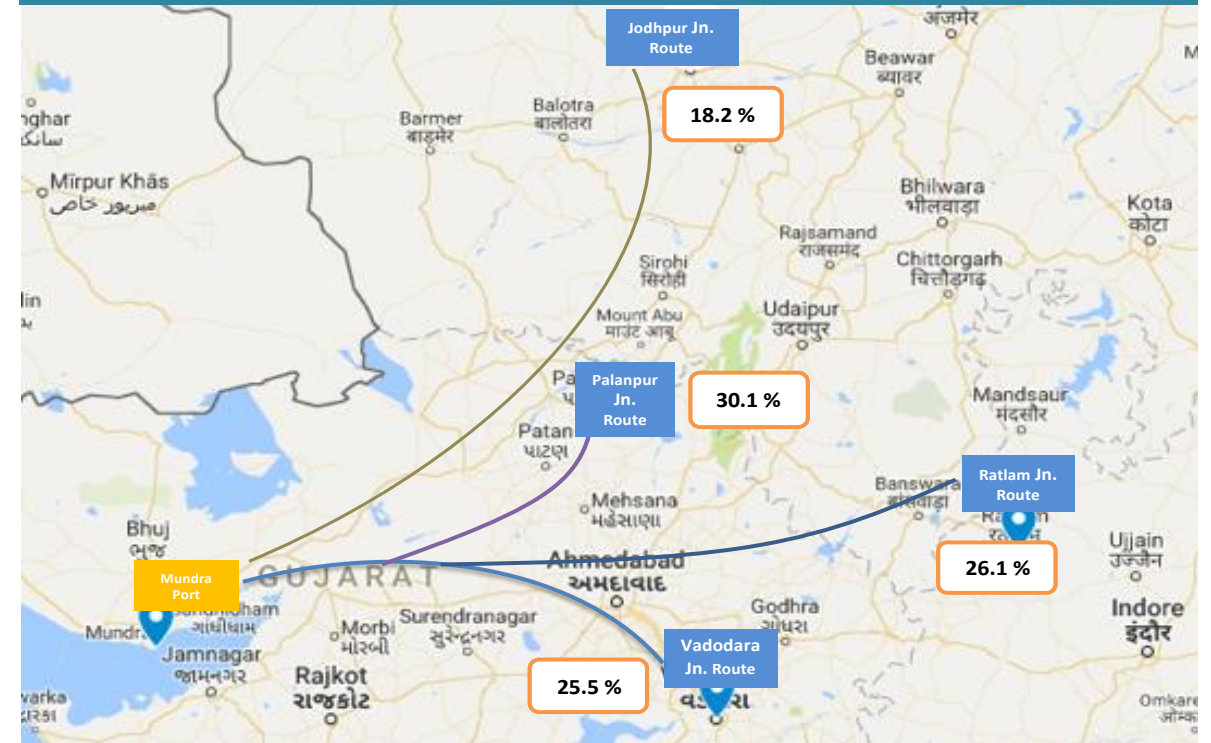
Toll Plaza Speed Analysis

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

Source	Destination Toll Plaza	Inter Distance (Km)	Avg. Travel Time (Hr)	JFM'18 Avg. Speed (Km/Hr.)	OND'17 Avg. Speed (Km/Hr)
JNPT	Khaniwade	94	7.3	12.9	13.7
JNPT	Khalapur	60	4.1	14.6	15.6
Khaniwade	Charoti	50	1.30	38.5	35.7
Charoti	Boriach	126	4.60	27.4	28
Boriach	Bharthan	142	4.30	33.0	33
Bharthan	Kishangarh	686	31.00	22.1	21.1
Bharthan	Vasad	60	1.53	39.2	37.5
Kishangarh	Daulatpura	128	3.10	41.3	40

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

Source	Destination Toll Plaza	Inter Distance (Km)	Avg. Travel Time (Hr)	Avg. Speed JFM'18 (Km/Hr.)	Avg. Speed OND'17 (Km/Hr.)
MICT	Mokha	28	1.2	**23.3**	**23.3**
Mokha	Makhel	150	6.2	**24.2**	**23.8**
Mokha	Surajbari	115	4.8	**24**	**26.7**

Map

Map
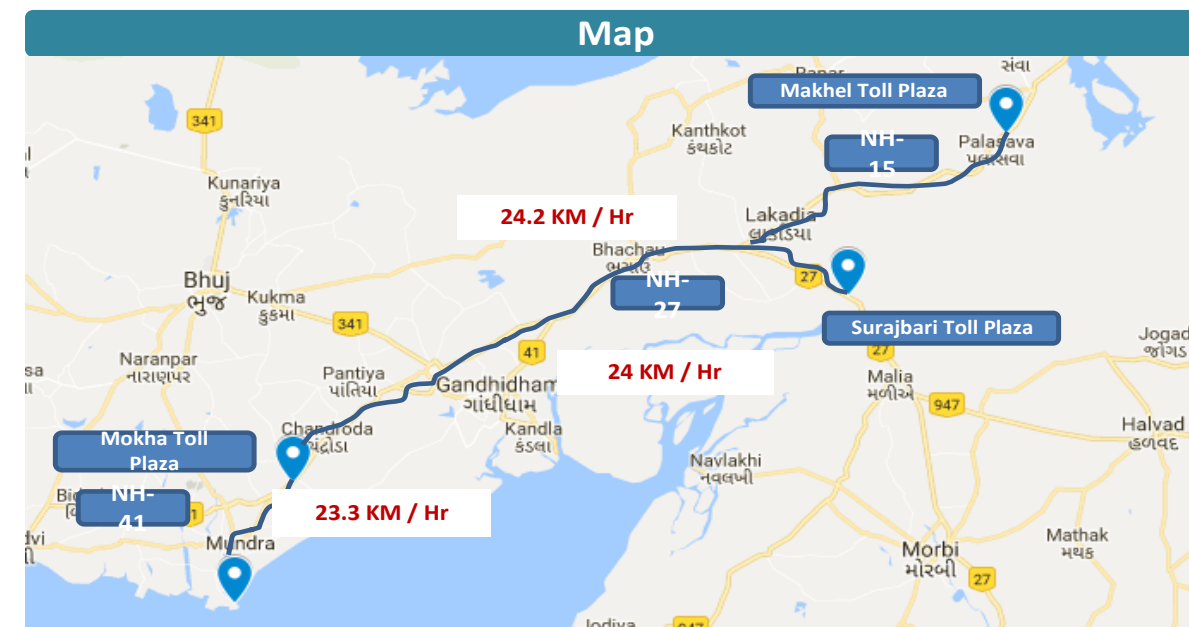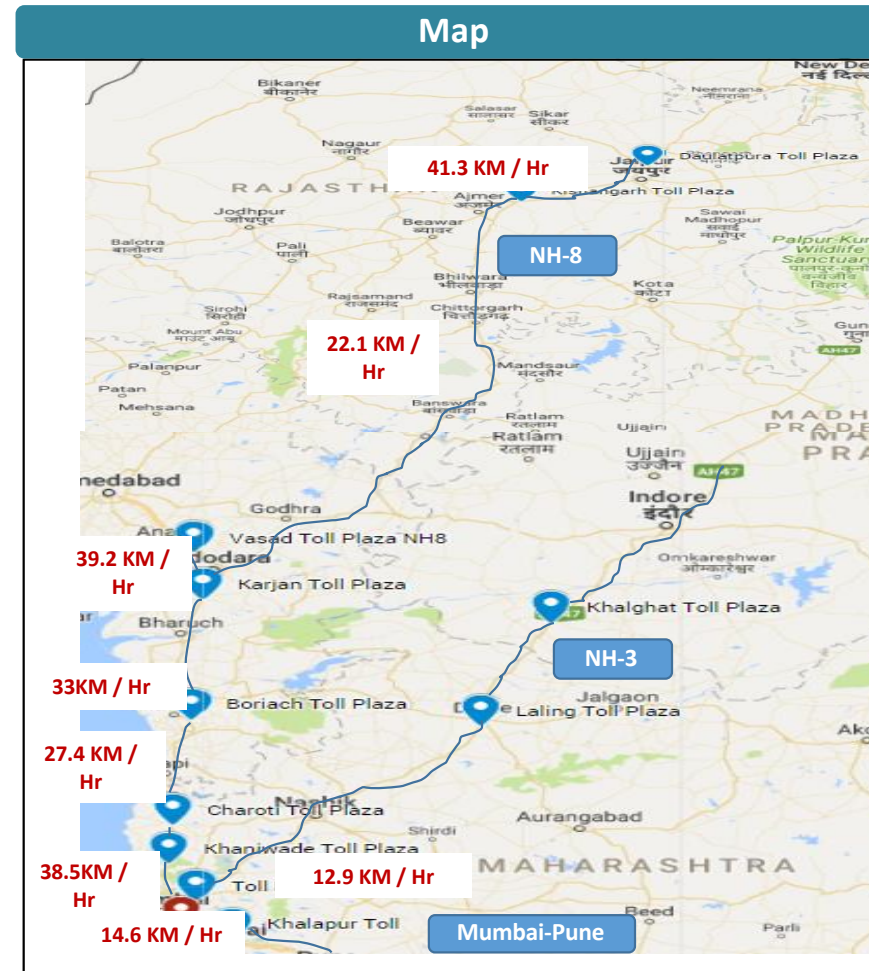
PERFORMANCE TREND METRICS

JNPT Port Dwell Time

DLDS
Logistics Redefined
DMICDC LOGISTICS DATA SERVICES LTD
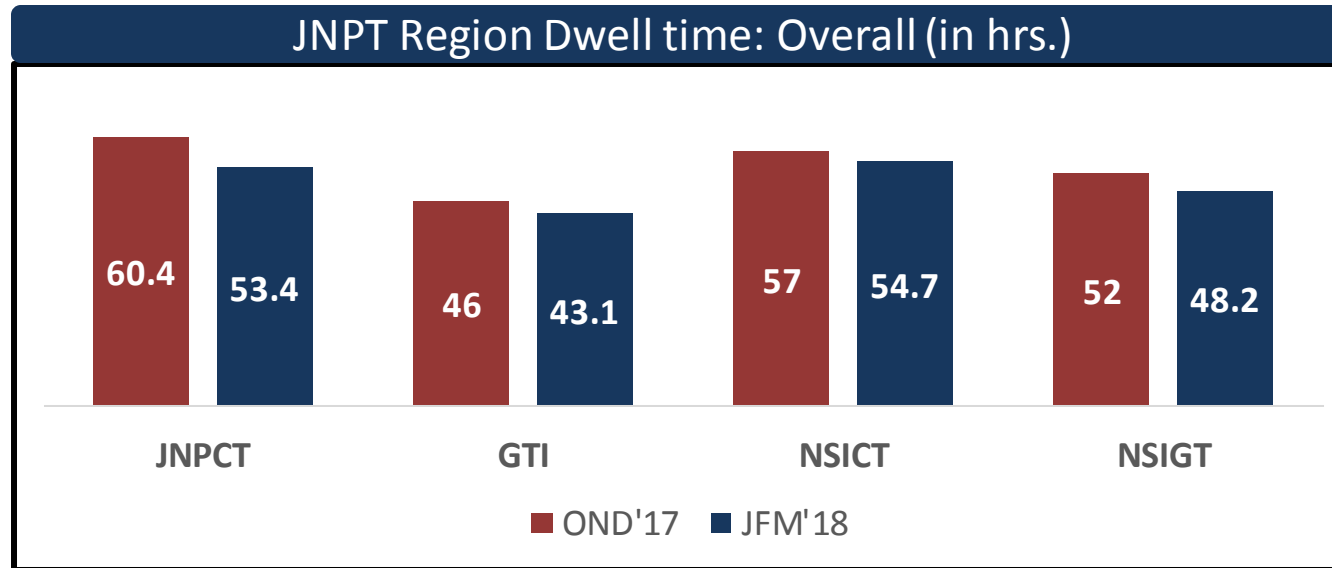
JNPT port dwell time trend :

The below table shows the overall port dwell time (i.e. import and export cycle combine) trend of all the JNPT* Port terminal s for quarter JFM'17. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal
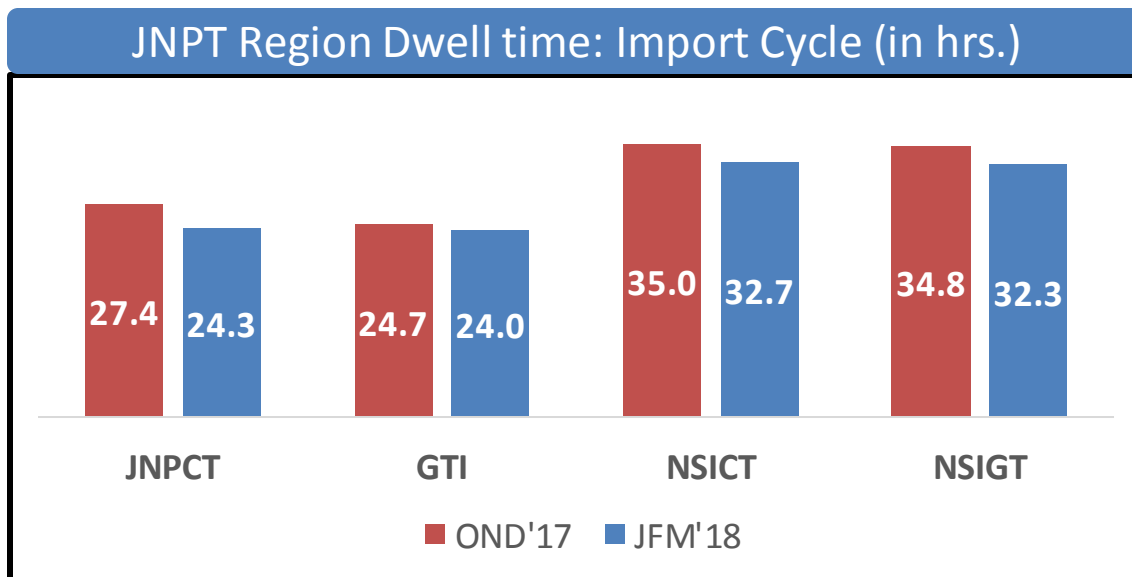
JNPT Region Dwell time: Overall (in hrs.)

Terminal	OND'17	JFM'18
JNPCT	60.4	53.4
GTI	46	43.1
NSICT	57	54.7
NSIGT	52	48.2

■ OND'17 ■ JFM'18

The overall JNPT region average dwell time for JFM'17 quarter is 48.3 hrs. which has improved from 52.3 hrs in OND'17 quarter

Below table showcases Import and Export cycle dwell time for both rail and truck bound containers for JFM'18
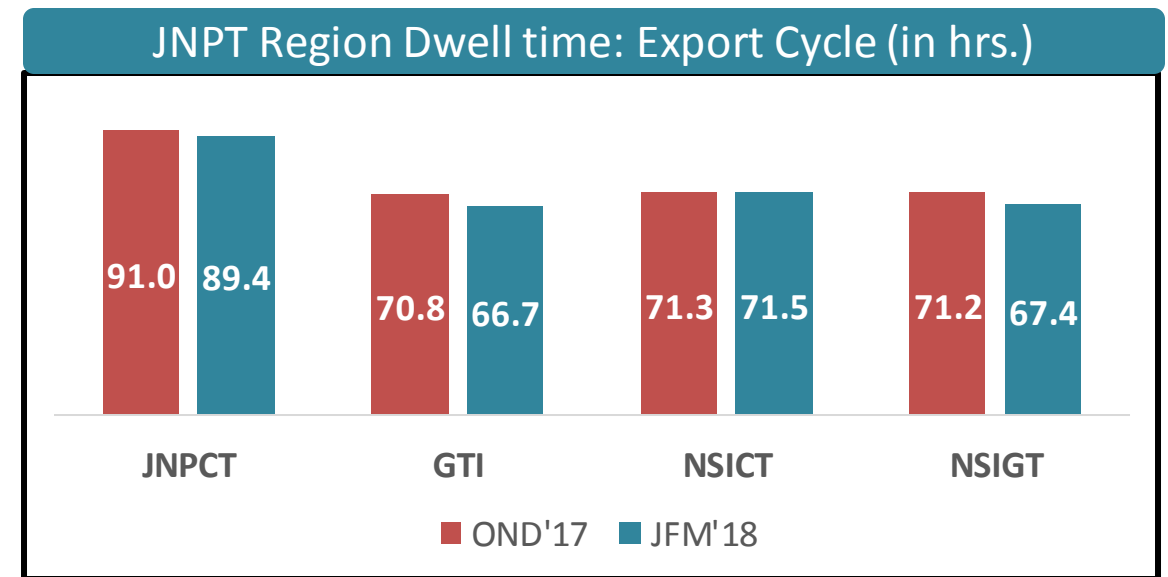
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for JFM'18 quarter is 26.4 hrs. which has improved from 28 hrs. in OND'17

JNPT Region Dwell time: Import Cycle (in hrs.)

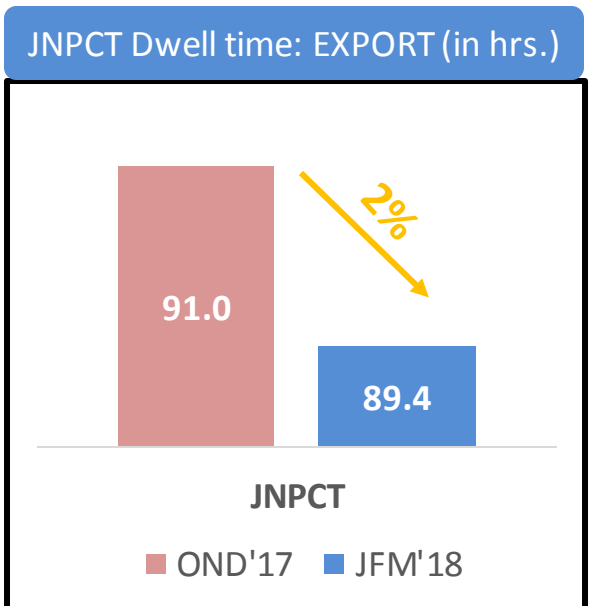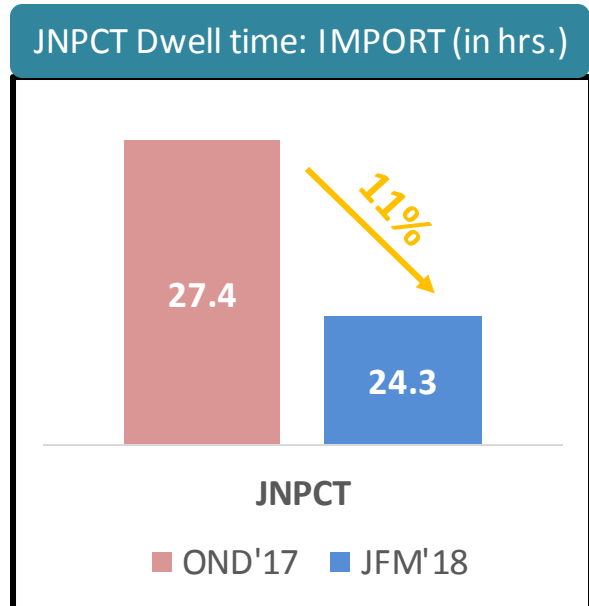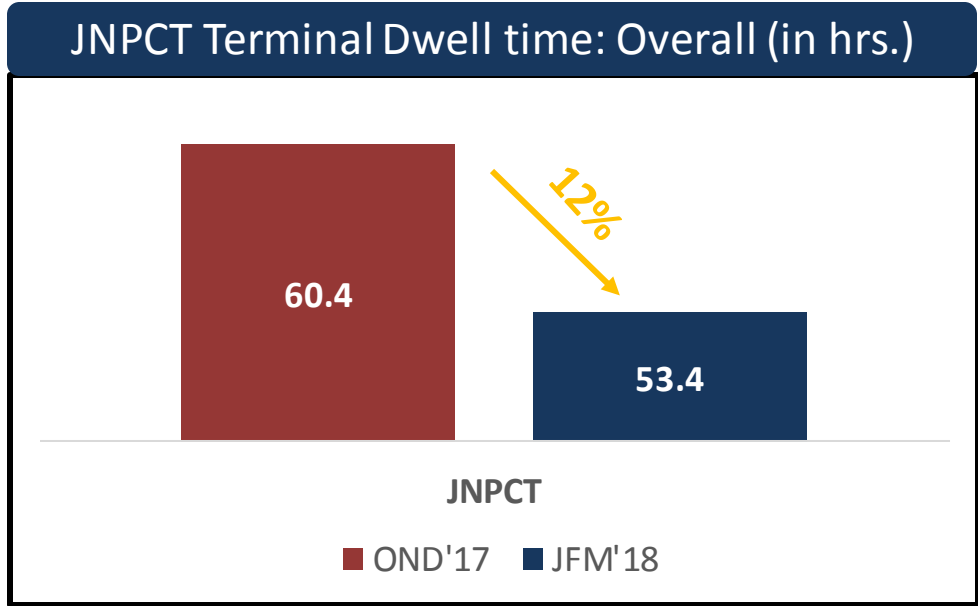| Terminal	OND'17	JFM'18
JNPCT	27.4	24.3
GTI	24.7	24.0
NSICT	35.0	32.7
NSIGT	34.8	32.3

■ OND'17 ■ JFM'18

JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for JFM'18 quarter is 74.2 hrs. which has improved from 77.4 hrs. in OND'17

JNPT Region Dwell time: Export Cycle (in hrs.)

Terminal	OND'17	JFM'18
JNPCT	91.0	89.4
GTI	70.8	66.7
NSICT	71.3	71.5
NSIGT	71.2	67.4

■ OND'17 ■ JFM'18

1 | **JNPCT terminal has improved its port dwell time performance by 11% in JFM'18**

JNPCT has reduced its overall port dwell time in JFM'18 quarter by 11% as compared to last OND'17 quarter. This improvement can be majorly contributed to Import cycle dwell time, which has shown 11% reduction in dwell time in JFM'18 as compared to OND'17

JNPCT Terminal Dwell time: Overall (in hrs.)

- 60.4 (OND'17)
- 53.4 (JFM'18)
- **12%** reduction

JNPCT

■ OND'17 ■ JFM'18

JNPCT Dwell time: IMPORT (in hrs.)

- 27.4 (OND'17)
- 24.3 (JFM'18)
- **11%** reduction

JNPCT

■ OND'17 ■ JFM'18

JNPCT Dwell time: EXPORT (in hrs.)

- 91.0 (OND'17)
- 89.4 (JFM'18)
- **2%** reduction

JNPCT

■ OND'17 ■ JFM'18

JNPCT container clearance day distribution has been depicted in the figure. Truck bound container has been managed effectively in Import cycle during JFM'18 as around 99% of the containers have been cleared with 5 days

JFM'18

Terminal	Within 2 days	Within 2-5 days	More than 5 days
JNPCT : Import Train	40%	36%	24%
JNPCT : Import Truck	84%	15%	1%
JNPCT : Export Train	7%	35%	58%
JNPCT : Export Truck	14%	63%	23%

Truck v/s Train traffic handled

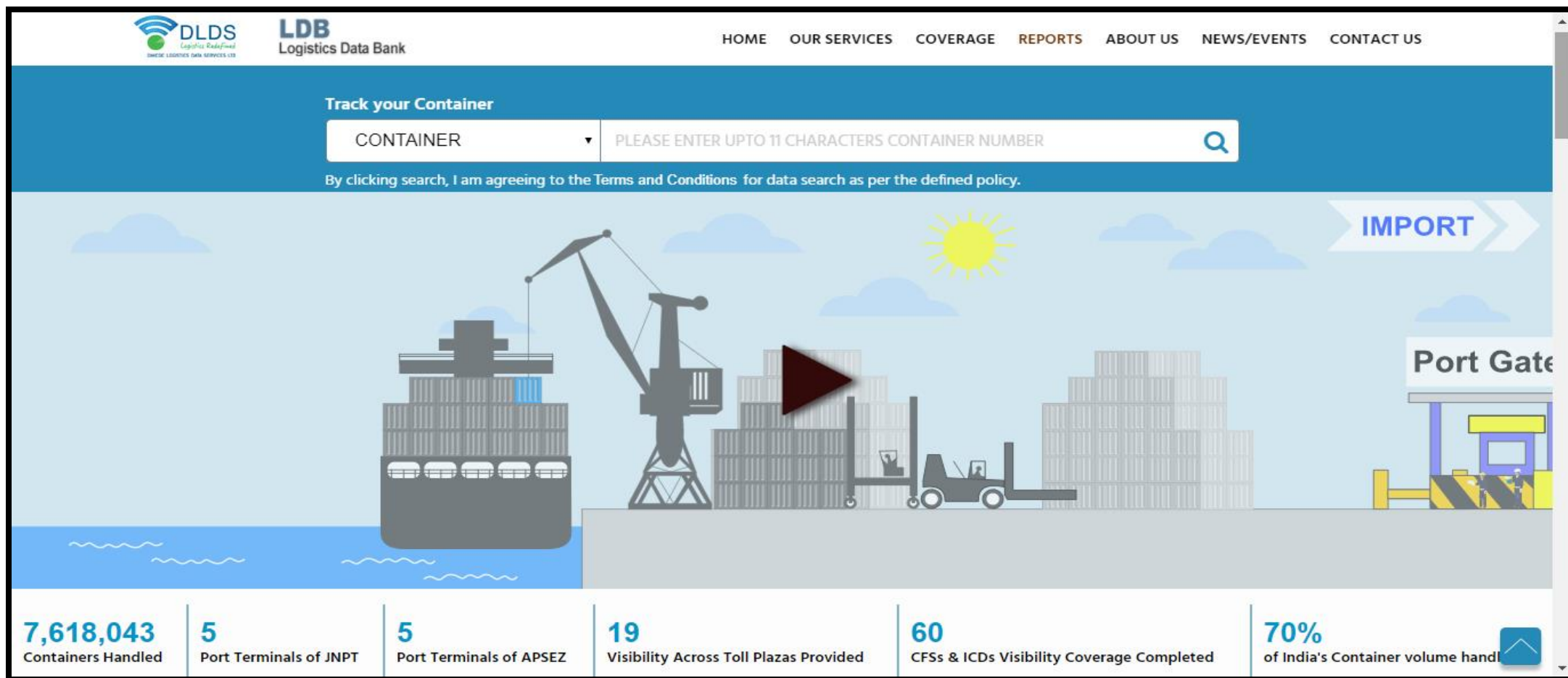# Transit mode wise container volume trend

The following table displays the container volume distribution trend on the basis of mode of transit for Import cycle (JNPT and APSEZ region)

	Month	JNPT (Volume in %)		APSEZ MUNDRA (Volume in %)	
		Truck	Train	Truck	Train
Import Cycle	Sept'17	83	17	78	22
	Oct'17	81	19	77	23
	Nov'17	82	18	82	18
	Dec'17	81	19	77	23
	Jan'18	86	14	80	20
	Feb'18	87	13	80	20
	Mar'18	84	16	82	18
	Overall	83%	17%	79%	21%

The following table displays the container volume distribution trend on the basis of mode of transit for Export cycle (JNPT and APSEZ region)

	Month	JNPT (Volume in %)		APSEZ MUNDRA (Volume in %)	
		Truck	Train	Truck	Train
Export Cycle	Sept'17	85	15	50	50
	Oct'17	85	15	48	52
	Nov'17	87	13	66	34
	Dec'17	85	15	66	34
	Jan'18	87	13	68	32
	Feb'18	88	12	67	33
	Mar'18	88	12	70	30
	Overall	86%	14%	62%	38%

LDB Portal

- Monthly Analytics reports have been incorporated in the LDB portal.

- Vessel Tracking feature has been implemented for JNPT container terminal.

- More than 7.5 million containers have been handled till date.

DLDS partnered with FIEO to organize an Interactive Session on "Container Visibility Services & Roadmap Ahead"

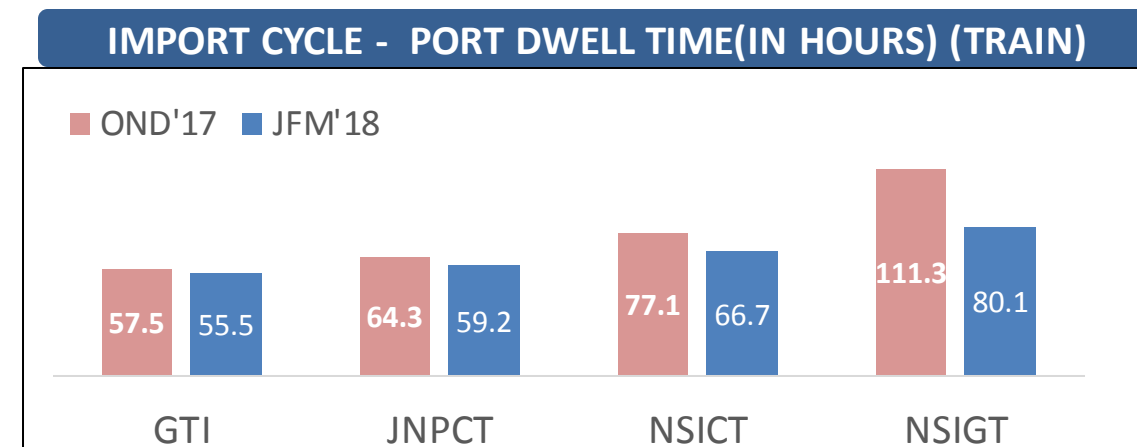o To educate and spread awareness about LDB services to exporters and importers

ANNEXURE

JNPT REGION :
TRADE PERFORMANCE

DLDS
Logistics Redefined
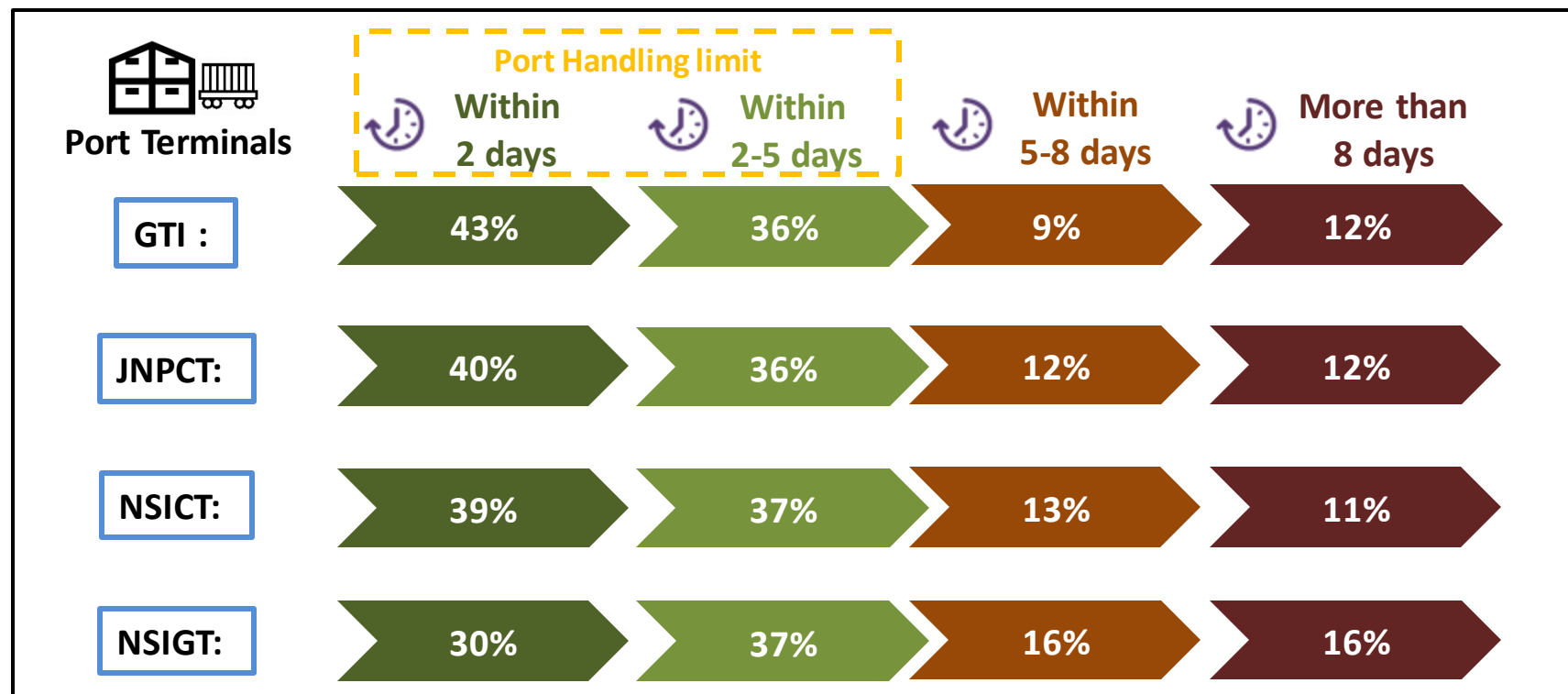DMICDC LOGISTICS DATA SERVICES LTD

PORT IMPORT via TRAIN

The Port Dwell time data for train movement in import cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	OND'17 (in Hrs)	JFM'18 (in Hrs)
GTI	57.5	55.5
JNPCT	64.3	59.2
NSICT	77.1	66.7
NSIGT	111.3	80.1

IMPORT CYCLE - PORT DWELL TIME(IN HOURS) (TRAIN)

OND'17 JFM'18

	GTI	JNPCT	NSICT	NSIGT
OND'17	57.5	64.3	77.1	111.3
JFM'18	55.5	59.2	66.7	80.1

Container Volume Handled : Day wise (via train)

Port Terminals

Port Handling limit

Port Terminals	Within 2 days	Within 2-5 days	Within 5-8 days	More than 8 days
GTI :	43%	36%	9%	12%
JNPCT:	40%	36%	12%	12%
NSICT:	39%	37%	13%	11%
NSIGT:	30%	37%	16%	16%

DLDS
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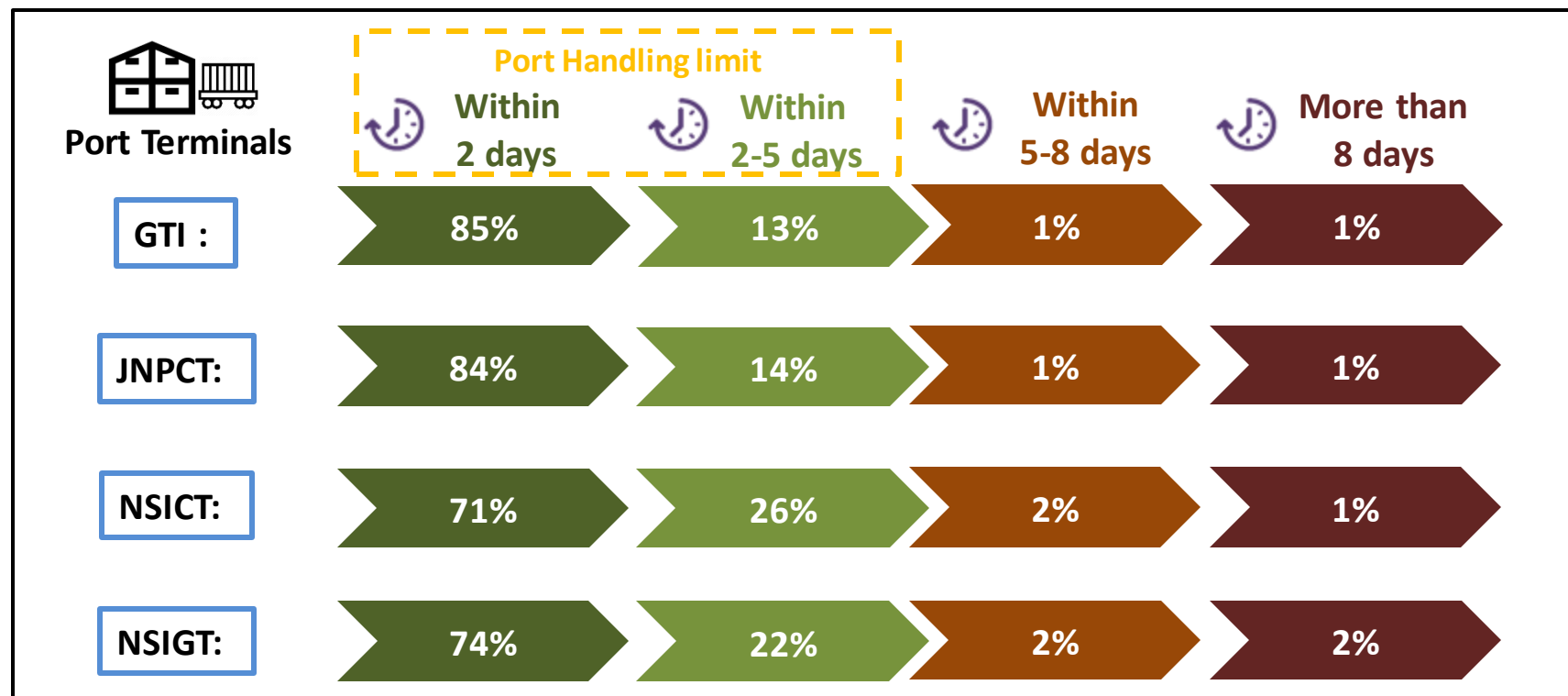
PORT IMPORT via TRUCK

The Port Dwell time data for Truck movement in import cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	OND'17 (in Hrs)	JFM'18 (in Hrs)
GTI	21.6	20.8
JNPCT	24.6	21.8
NSICT	31.5	31.2
NSIGT	30.5	29.2

IMPORT CYCLE - PORT DWELL TIME(IN HOURS) (Truck)

■ OND'17 ■ JFM'18

	GTI	JNPCT	NSICT	NSIGT
OND'17	21.6	24.6	31.5	30.5
JFM'18	20.8	21.8	31.2	29.2

Container Volume Handled : Day wise (via truck)

Port Terminals	Port Handling limit		Within 5-8 days	More than 8 days
	Within 2 days	Within 2-5 days		
GTI :	85%	13%	1%	1%
JNPCT:	84%	14%	1%	1%
NSICT:	71%	26%	2%	1%
NSIGT:	74%	22%	2%	2%
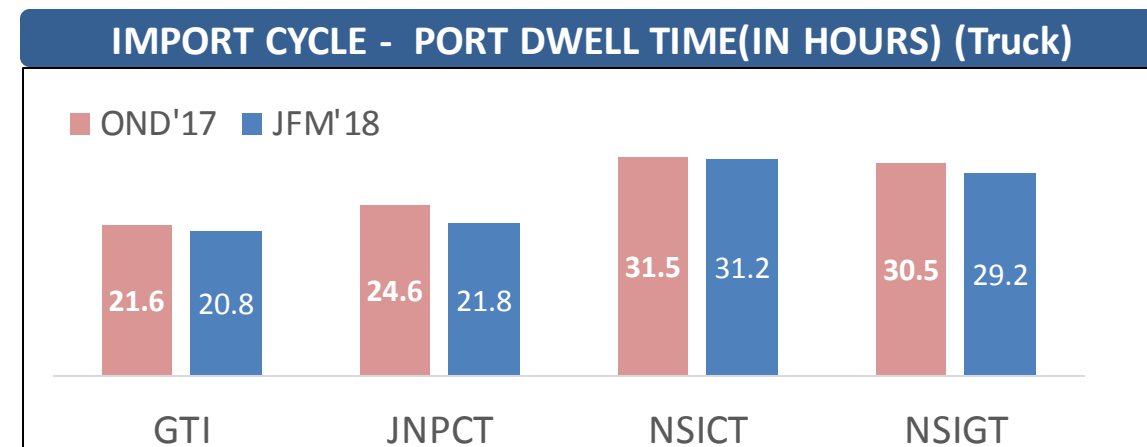
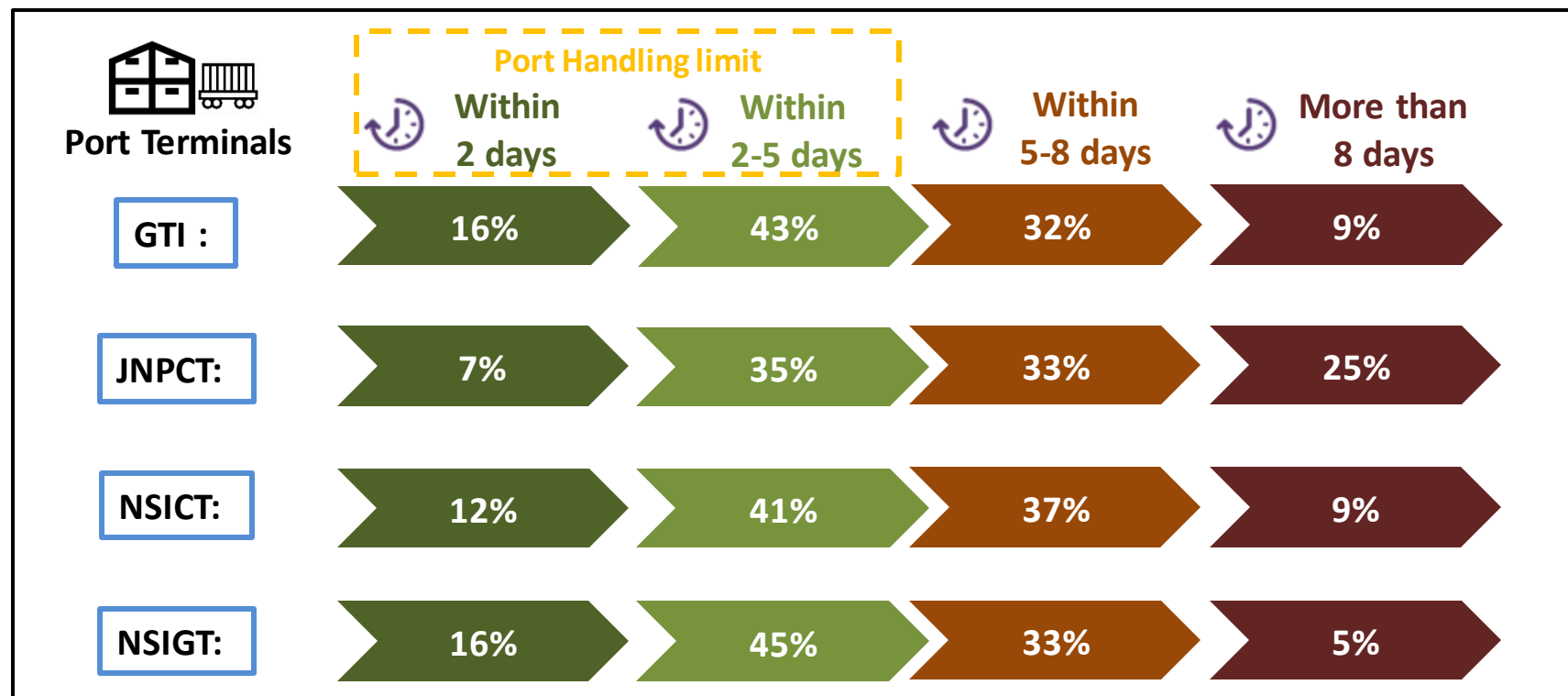## PORT EXPORT via TRAIN

The Port Dwell time data for train movement in Export cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	OND'17 (in Hrs)	JFM'18 (in Hrs)
GTI	108.8	103.4
JNPCT	124.7	137.6
NSICT	110.5	114.1
NSIGT	99.5	102.7

Export CYCLE - PORT DWELL TIME(IN HOURS) (TRAIN)

Legend: OND'17, JFM'18

	GTI	JNPCT	NSICT	NSIGT
OND'17	108.8	124.7	110.5	99.5
JFM'18	103.4	137.6	114.1	102.7

Container Volume Handled : Day wise (via train)

Port Terminals	Port Handling limit		Within 5-8 days	More than 8 days
	Within 2 days	Within 2-5 days		
GTI :	16%	43%	32%	9%
JNPCT:	7%	35%	33%	25%
NSICT:	12%	41%	37%	9%
NSIGT:	16%	45%	33%	5%

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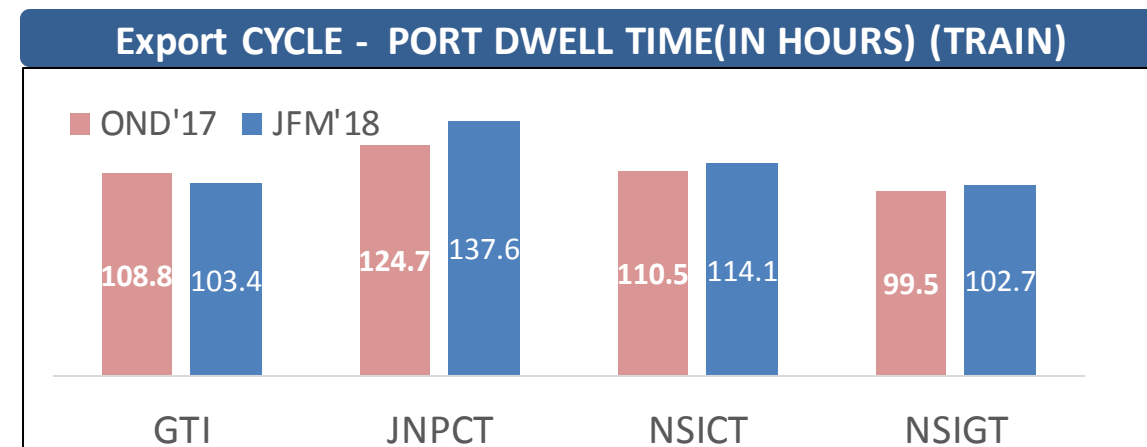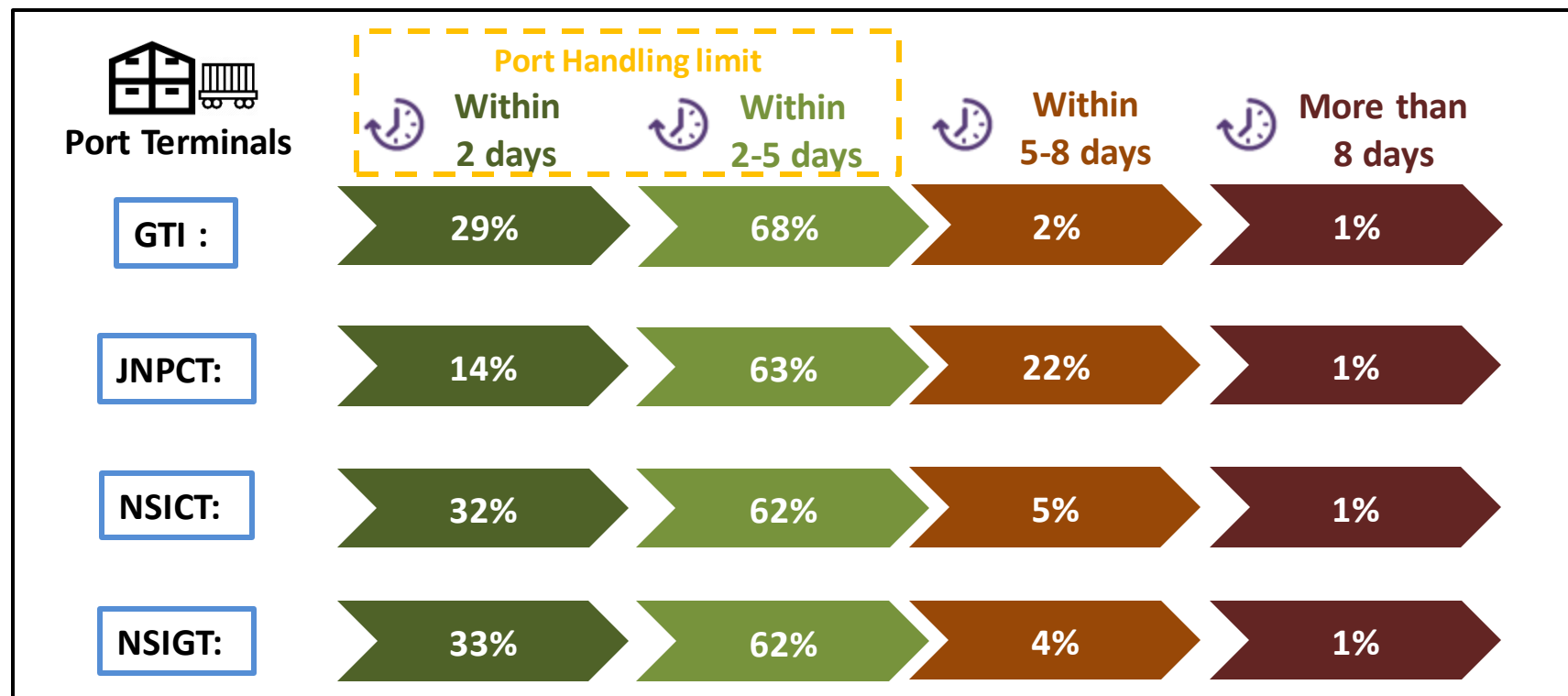
PORT EXPORT via TRUCK

The Port Dwell time data for Truck movement in Export cycle is depicted below. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal

Port	OND'17 (in Hrs)	JFM'18 (in Hrs)
GTI	68	64.2
JNPCT	89.4	87.1
NSICT	66.6	66.3
NSIGT	67.2	63.3

Export CYCLE - PORT DWELL TIME(IN HOURS) (Truck)

OND'17 ■ JFM'18

	GTI	JNPCT	NSICT	NSIGT
OND'17	68	89.4	66.6	67.2
JFM'18	64.2	87.1	66.3	63.3

Container Volume Handled : Day wise (via truck)

Port Terminals	Port Handling limit		Within 5-8 days	More than 8 days
	Within 2 days	Within 2-5 days		
GTI :	29%	68%	2%	1%
JNPCT:	14%	63%	22%	1%
NSICT:	32%	62%	5%	1%
NSIGT:	33%	62%	4%	1%

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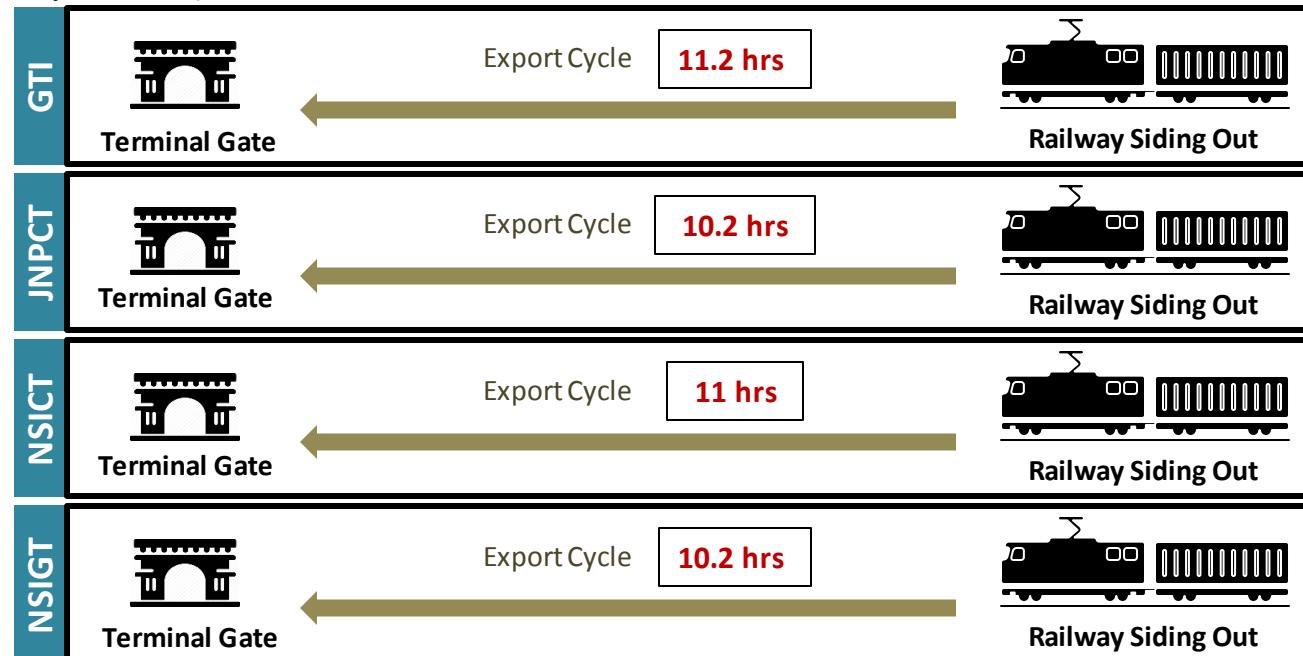DMICDC LOGISTICS DATA SERVICES LTD
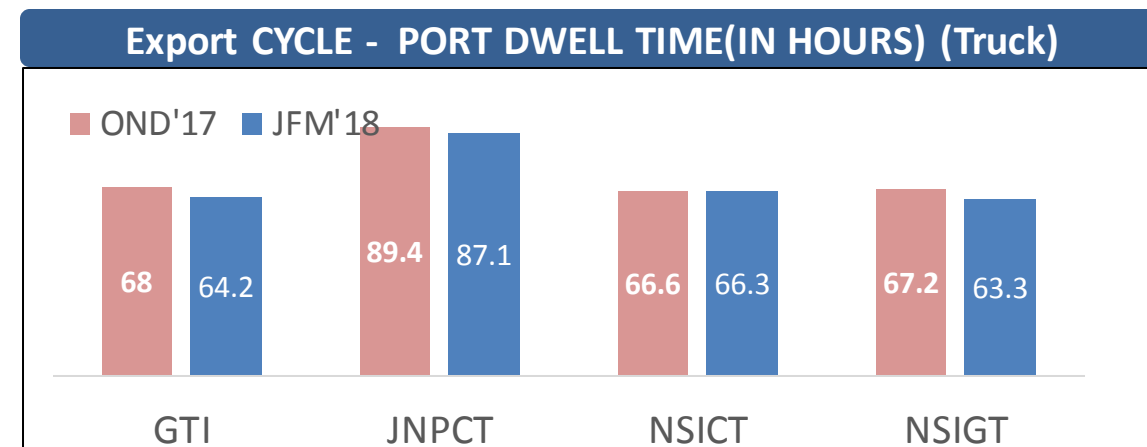
Container Handling time : Import Cycle

Container handling time in import cycle refers to the time taken by container to reach 1st railway station (i.e. JNPT railway station) from the moment they have been cleared from Port (i.e. Port Out). The below data is for month of Mar'18

GTI
Terminal Gate — Import Cycle **14.3 hrs** → Railway Siding Out

JNPCT
Terminal Gate — Import Cycle **7 hrs** → Railway Siding Out

NSICT
Terminal Gate — Import Cycle **11.3 hrs** → Railway Siding Out

NSIGT
Terminal Gate — Import Cycle **9.1hrs** → Railway Siding Out
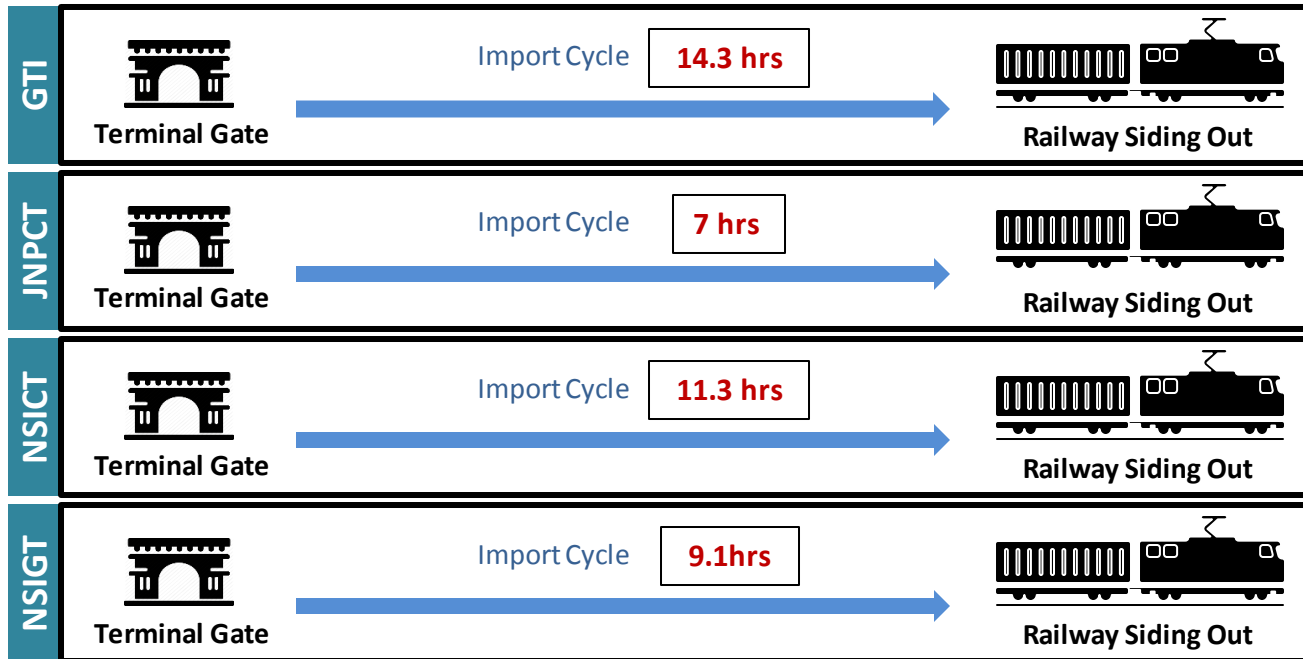
## Container Handling time : Export Cycle

Container handling time in export cycle refers to the time taken by container to reach Port terminal (i.e. Port In) from last railway station (i.e. JNPT railway station). The below data is for month of Mar'18

GTI
Terminal Gate ← Export Cycle **11.2 hrs** — Railway Siding Out

JNPCT
Terminal Gate ← Export Cycle **10.2 hrs** — Railway Siding Out

NSICT
Terminal Gate ← Export Cycle **11 hrs** — Railway Siding Out

NSIGT
Terminal Gate ← Export Cycle **10.2 hrs** — Railway Siding Out

ICD DWELL TIME ANALYSIS
The table below depicts the dwell of all ICDs for quarter OND'17 and JFM'18.

Dwell Time (in Hrs)		
ICD	**OND'17**	**JFM'18**
Allcargo Logistics Park ICD, Dadri	126	165
Albatross Inland Ports ICD, Dadri	117	157
CMA CGM Agencies ICD, Dadri	80	93
APM Terminals ICD, Dadri	127	166
ACTL ICD	129	145
CWC Loni	150	164
CWC ICD, Patparganj	*	163
Adani ICD	-	147
Gateway Rail ICD	-	152

Top Performing ICD	
CMA CGM Agencies ICD, Dadri	93 hrs.

Low Performing ICD	
APM Terminals ICD, Dadri	166 hrs.

ICD – DWELL OVERVIEW (JFM'18) (IN HRS)

Avg 156 hrs.

ICD	JFM'18
Allcargo Logistics Park ICD, Dadri	165
Albatross Inland Ports ICD, Dadri	157
CMA CGM Agencies ICD, Dadri	93
APM Terminals ICD, Dadri	166
ACTL ICD	145
CWC Loni	164
CWC ICD, Patparganj	163
Adani ICD	147
Gateway Rail ICD	152
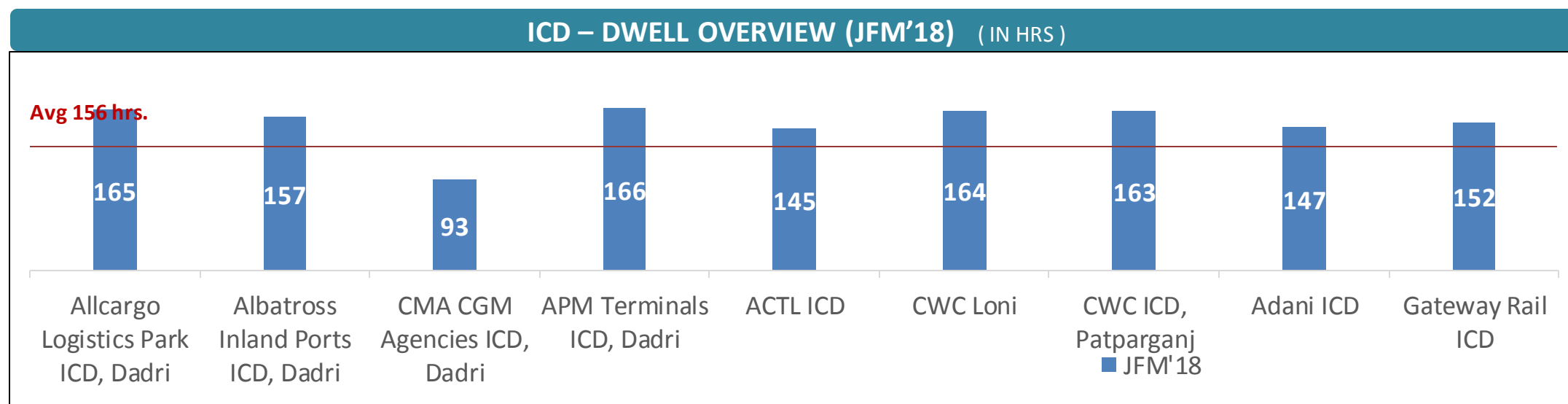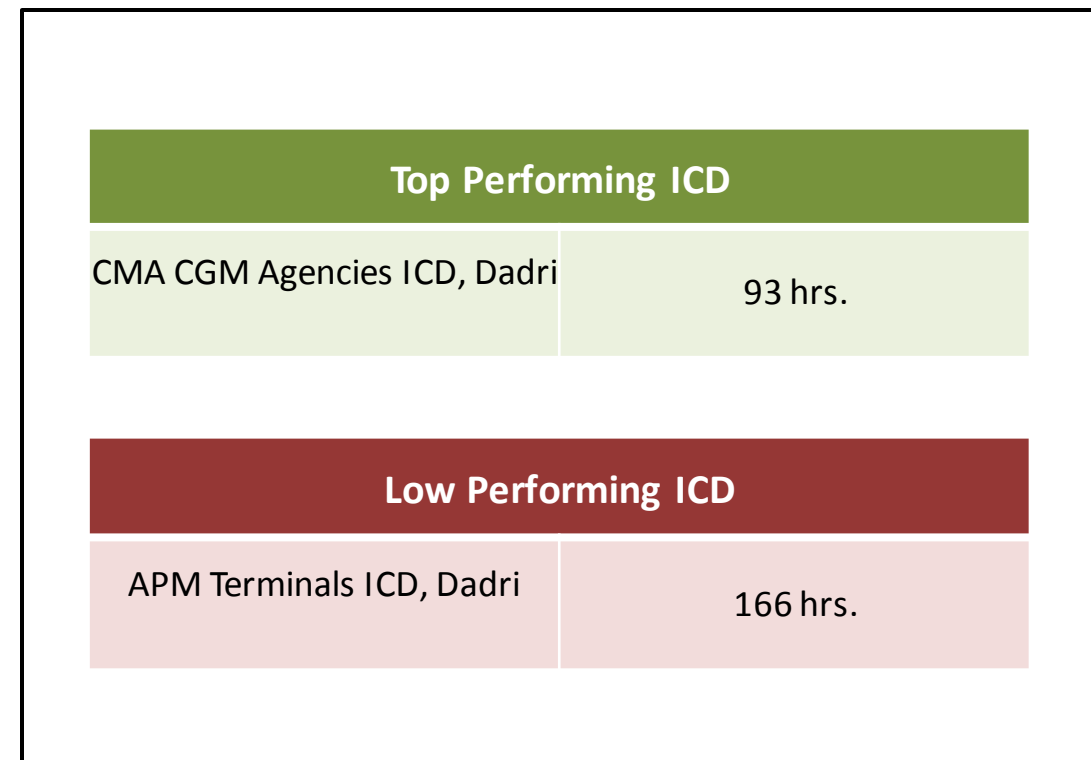
*Note : Insufficient data entries were received in LDB system for CWC Patparganj ICD in OND'17

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Transit Time Analysis

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	**JFM'18**
NCR region	3.79 days
Aurangabad	2.43 days

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	**JFM'18**
NCR region	3.19 days
Aurangabad	4 days

LEAD TIME ANALYSIS

Below table shows the average lead time of ICD in import cycle i.e. Port in to ICD out via train. The ICD'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	**JFM'18**
NCR region	13.4 days
Aurangabad	12.9 days

Calculation :

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

CFS DWELL TIME ANALYSIS

Below table shows the dwell time for the respective CFS's .

CFS Dwell Time (in hrs)					
CFS	OND'17	JFM'18	CFS	OND'17	JFM'18
All Cargo Logistics CFS, Navi Mumbai	71.3	82.5	JWC Logistics Park CFS	86.0	72.2
Ameya Logistics CFS, Navi Mumbai	84.0	88.2	JWR CFS	--	55.2
APM (Maersk India) CFS, Navi Mumbai	87.7	81.4	Maersk Annex (APM)CFS, Navi Mumbai	95.4	96.1
Apollo Logisolutions CFS, Panvel	79.6	83.0	Maharashtra State Corp CFS	72.3	63.1
Ashte Logistics CFS, Panvel	92.4	92.5	Navkar Corporation Yard 1 CFS, Panvel	90.0	92.4
Balmer & Lawrie CFS, Navi Mumbai	80.0	87.3	Navkar Corporation Yard 2 CFS, Panvel	90.6	78.6
Continental Warehousing CFS, Navi Mumbai	78.7	81.9	Navkar Corporation Yard 3 CFS, Panvel	85.1	84.1
CWC Dronagiri CFS, Navi Mumbai	73.7	66.5	Ocean Gate CFS, Panvel	87.0	88.0
CWC Hind Terminal CFS, Navi Mumbai	85.9	88.4	Punjab Conware CFS, Navi Mumbai	74.2	78.4
Dronogiri Rail Terminal CFS, Navi Mumbai	78.5	77.3	SBW Logistics CFS, Navi Mumbai	82.6	83.6
Gateway Distriparks CFS, Navi Mumbai	77.6	88.2	Seabird CFS, Navi Mumbai	86.3	87.6
Indev Logistics CFS, Panvel	81.2	87.0	Speedy Multimode CFS, JNPT	72.0	72.7
International Cargo Terminal CFS	87.2	81.8	Transindia Logistics Park, Navi Mumbai	76.6	78.2
International Cargo Terminals (ULA) CFS, Navi Mumbai	87.2	91	Vaishno Logistics CFS, Navi Mumbai	90.6	104.0
			Take Care Logistics CFS	108.6	122.3
			TG Terminals CFS	--	71.1

CFS – DWELL OVERVIEW (IN HRS)

Average: 86.2 hrs.
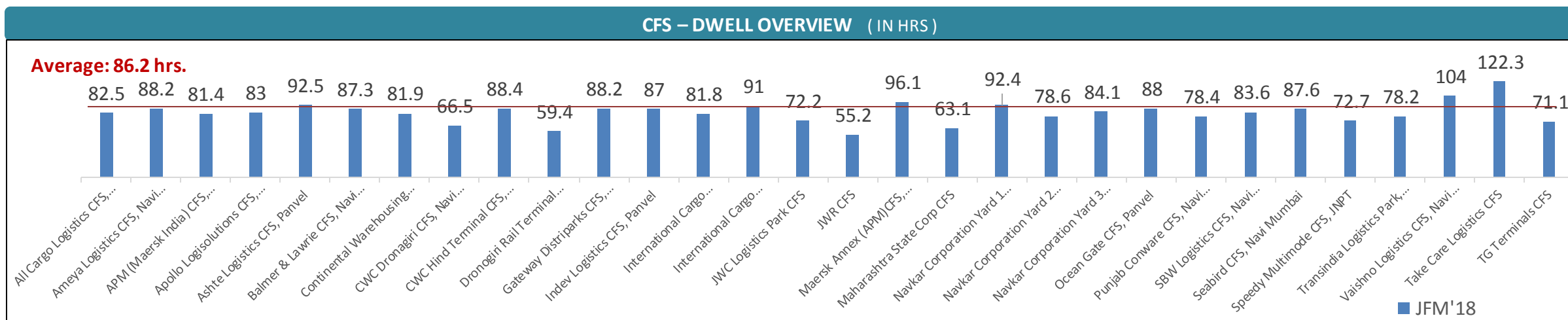
CFS DELIVERY TIME ANALYSIS

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

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

AVERAGE DELIVERY TIME (In Hrs)- GTI TO ALL CFS IN MUMBAI	
CFS	**Mar'18**
Speedy Multimode Ltd CFS	2.3
Balmer & Lawrie & Co. Ltd.,CFS	2.8
Gateway Distriparks Ltd	3.5
APM (Maersk India Pvt. Ltd)CFS	1.8
Continental Warehousing (Nhava Sheva) Ltd.	1.9
Seabird Marine Services Pvt Ltd.	3.4
JWC Logistics Park Ltd CFS	3.2
Ameya Logistics Pvt. Ltd.	2.7
Ashte Logistics Pvt. Ltd.	4.0
NAVAKAR CORPORATION LTD.,YARD-1 CFS	2.9
Apollo Logisolutions Ltd.	4.8
Ocean Gate Container Terminals Pvt. Ltd.CFS	3.0
Indev Logistics Pvt. Ltd.CFS	4.0
Transindia Logistics Park Pvt, Ltd CFS	2.9
All Cargo Logistics Ltd., CFS	2.3
Vaishno Logistics Yard CFS	5.4
NAVKAR CORPORATION LTD.,YARD-II CFS	7.4
PUNJAB CONWARE (PW)	2.2
DRONAGIRI RAIL TERMINAL	2.1
MAHARASHTRA STATE WARE. CORP. CFS	
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.3
NAVKAR CORPORATION LTD.YARD-III CFS	3.7
International Cargo Terminal CFS	3.7
Maersk Annex (APM)CFS	3.0
International Cargo Terminal CFS	2.4
SBW Logistics CFS , Navi Mumbai	4.6
JWR CFS	3.3

CFS - AVERAGE DELIVERY TIME - JNPCT TO ALL CFS's IN MUMBAI

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

AVERAGE DELIVERY TIME (In Hrs)- JNPCT TO ALL CFS IN MUMBAI	
CFS	**Mar'18**
Speedy Multimode Ltd CFS)	1.6
Balmer & Lawrie & Co. Ltd.,CFS	2.2
Gateway Distriparks Ltd	2.7
APM (Maersk India Pvt. Ltd)CFS	4.0
Continental Warehousing (Nhava Sheva) Ltd.	2.0
Seabird Marine Services Pvt Ltd.	3.2
JWC Logistics Park Ltd CFS	2.7
Ameya Logistics Pvt. Ltd.	2.3
Ashte Logistics Pvt. Ltd.	2.8
NAVAKAR CORPORATION LTD.,YARD-1 CFS	2.6
Apollo Logisolutions Ltd.	5.8
Ocean Gate Container Terminals Pvt. Ltd.CFS	2.8
Indev Logistics Pvt. Ltd.CFS	3.5
Transindia Logistics Park Pvt, Ltd CFS	2.5
All Cargo Logistics Ltd., CFS	1.7
Vaishno Logistics Yard CFS	3.4
NAVKAR CORPORATION LTD.,YARD-II CFS	3.2
PUNJAB CONWARE (PW)	2.0
DRONAGIRI RAIL TERMINAL	1.4
MAHARASHTRA STATE WARE. CORP. CFS	1.2
CWC LOGISTIC PARK - Opr.Hind Trmnl.	1.9
NAVKAR CORPORATION LTD.YARD-III CFS	2.9
International Cargo Terminal CFS	2.6
Maersk Annex (APM)CFS	3.5
International Cargo Terminal CFS	2.4
SBW Logistics CFS , Navi Mumbai	5.3
JWR CFS	2.2

CFS DELIVERY TIME ANALYSIS

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CFS - AVERAGE DELIVERY TIME - NSICT TO ALL CFS's IN MUMBAI

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	**Mar'18**
Speedy Multimode Ltd CFS	1.4
Balmer & Lawrie & Co. Ltd.,CFS	2.3
Gateway Distriparks Ltd	3.3
Continental Warehousing (Nhava Sheva) Ltd.	2.1
Seabird Marine Services Pvt Ltd.	2.9
JWC Logistics Park Ltd CFS	2.9
Ameya Logistics Pvt. Ltd.	3.3
Ashte Logistics Pvt. Ltd.	4.1
NAVAKAR CORPORATION LTD.,YARD-1 CFS	3.7
Apollo Logisolutions Ltd.	3.3
Ocean Gate Container Terminals Pvt. Ltd.CFS	2.3
Indev Logistics Pvt. Ltd.CFS	2.9
Transindia Logistics Park Pvt, Ltd CFS	2.5
All Cargo Logistics Ltd., CFS	2.8
Vaishno Logistics Yard CFS	2.7
NAVKAR CORPORATION LTD.,YARD-II CFS	18.4
PUNJAB CONWARE (PW)	2.3
DRONAGIRI RAIL TERMINAL	2.9
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.0
NAVKAR CORPORATION LTD.YARD-III CFS	3.9
International Cargo Terminals CFS	2.6
Maersk Annex (APM)CFS	2.4
International Cargo Terminal CFS	2.6
SBW Logistics CFS , Navi Mumbai	3.6

CFS - AVERAGE DELIVERY TIME - NSIGT TO ALL CFS's IN MUMBAI

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	**Mar'18**
Speedy Multimode Ltd CFS	1.7
Balmer & Lawrie & Co. Ltd.,CFS	2.0
Gateway Distriparks Ltd	3.1
APM (Maersk India Pvt. Ltd)CFS	2.1
Continental Warehousing (Nhava Sheva) Ltd.	1.8
Seabird Marine Services Pvt Ltd.	3.3
JWC Logistics Park Ltd CFS	2.7
Ameya Logistics Pvt. Ltd.	2.9
Ashte Logistics Pvt. Ltd.	4.2
NAVAKAR CORPORATION LTD.,YARD-1 CFS	3.5
Apollo Logisolutions Ltd.	4.6
Ocean Gate Container Terminals Pvt. Ltd.CFS	4.3
Indev Logistics Pvt. Ltd.CFS	4.7
Transindia Logistics Park Pvt, Ltd CFS	2.6
All Cargo Logistics Ltd., CFS	2.4
Vaishno Logistics Yard CFS	2.0
NAVKAR CORPORATION LTD.,YARD-II CFS	8.7
PUNJAB CONWARE (PW)	2.2
DRONAGIRI RAIL TERMINAL	1.9
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.1
NAVKAR CORPORATION LTD.YARD-III CFS	3.9
International Cargo Terminals & Infrastructure Private Limited-CFS	3.0
Maersk Annex (APM)CFS	2.8
International Cargo Terminal CFS	2.3
SBW Logistics CFS , Navi Mumbai	4.5

CFS - AVERAGE DELIVERY TIME – all CFS in Mumbai TO JNPT Port

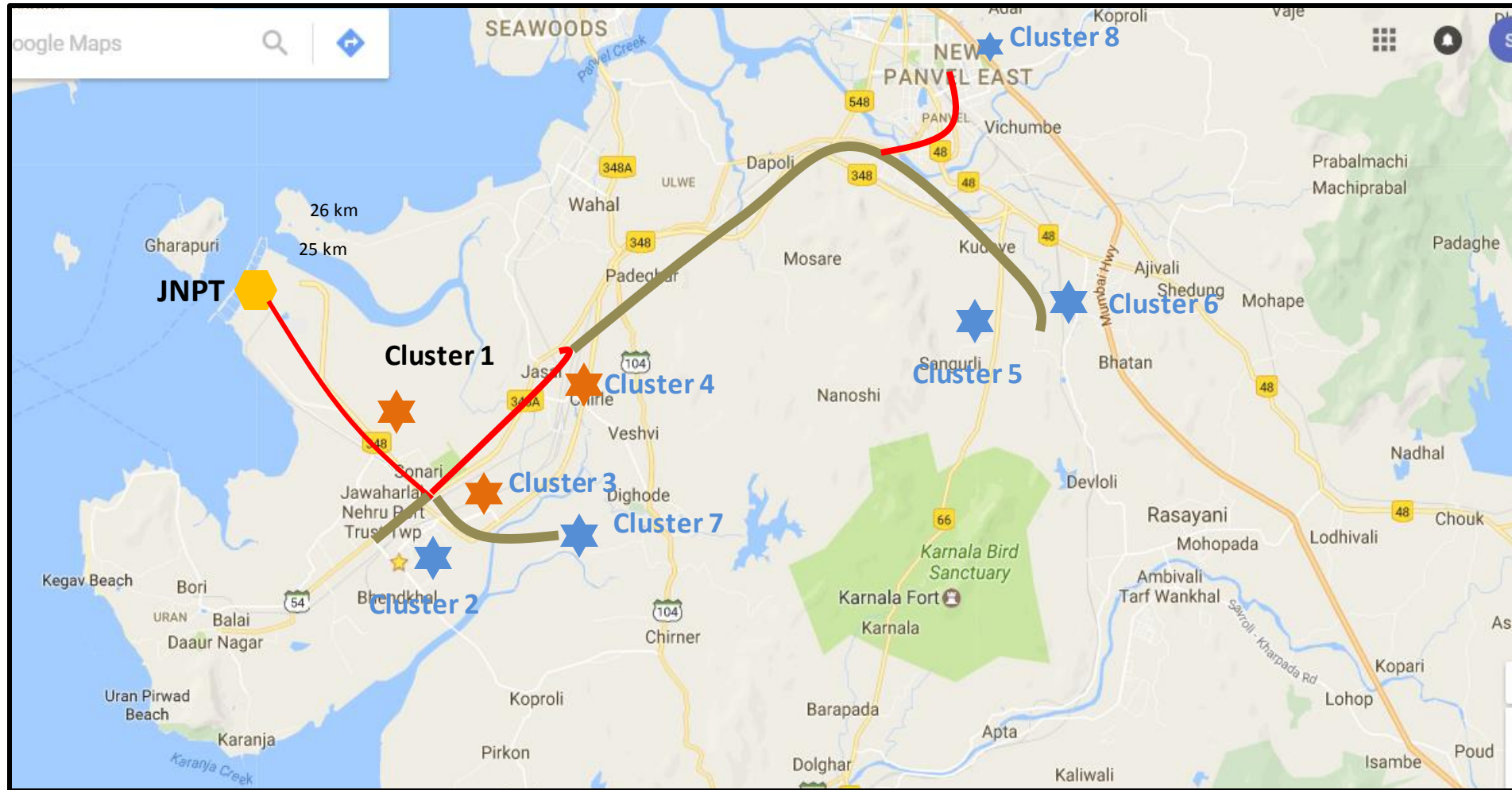Below table shows the delivery time in export cycle from the CFS's to PORT terminals

For Mar'18				
CFS Out Port in (Export Cycle in Hrs)				
CFS	JNPCT	GTI	NSICT	NSIGT
CWC LOGISTIC PARK - Opr.Hind Trmnl.	3.0	4.2	7.3	10.1
CWC Dronagiri CFS	3.7	4.2	14.4	6.9
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	2.6	2.8	4.4	3.2
Indev Logistics Pvt. Ltd.CFS	4.9	5.0	2.8	10.2
PUNJAB CONWARE (PW)	2.5	2.9	7.3	8.9
Transindia Logistics Park Pvt, Ltd CFS	5.0	2.4	13.2	14.1
Apollo Logisolutions Ltd.	6.0	5.4	11.5	15.6
JWR CFS	4.5	4.1	6.2	7.8
NAVKAR CORPORATION LTD.YARD-III CFS	4.7	5.7	13.5	12.2
Ameya Logistics Pvt. Ltd.	5.2	3.8	8.0	14.6
Ashte Logistics Pvt. Ltd.	4.0	4.5	9.9	8.5
DRONAGIRI RAIL TERMINAL	3.1	3.7	5.2	10.7
TG Terminals CFS	3.0	2.5	8.1	6.1
Vaishno Logistics Yard CFS	3.5	3.6	-	7.7
NAVKAR CORPORATION LTD.,YARD-II CFS	7.3	6.7	11.7	12.4
Gateway Distriparks Ltd	3.1	2.9	10.7	12.0
All Cargo Logistics Ltd., CFS	6.0	28.2	8.6	6.5
International Cargo Terminal CFS	4.6	3.4	9.6	-
Balmer & Lawrie & Co. Ltd.,CFS	3.0	3.0	11.0	28.7
Continental Warehousing (Nhava Sheva) Ltd.	2.6	2.7	6.2	3.6
Seabird Marine Services Pvt Ltd.	4.9	3.7	12.8	6.3
Ocean Gate Container Terminals Pvt. Ltd.CFS	2.7	4.5	7.6	7.5
MAHARASHTRA STATE WARE. CORP. CFS	3.4	3.2	7.7	5.7
International Cargo Terminals & Infrastructure Private Limited-CFS	3.2	3.5	3.5	8.0
APM (Maersk India Pvt. Ltd)CFS	2.1	1.9	7.5	17.8

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Congestion Analysis around Mumbai Region

Cluster 1	Cluster 2
JNPT Area	Bhendkhal area, Khopate road

Cluster 3	Cluster 4
Sonari area, JNPT road	Chirle area, JNPT road

Cluster 5	Cluster 6
Plaspa area, Coachi kanyakumari Highway	Salva aptard area, Bangalore highway

Cluster 7	Cluster 8
Patilpada area, Khopate JNPT road	Taloja, Navi Mumbai

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

Legends

- 🟥 **High Congestion**
- 🟫 **Medium Congestion**
- 🟪 **Low Congestion**
- ⭐ **Cluster with bottleneck**
- ⭐ **Cluster without bottleneck**

It is seen that Cluster 1 has congestion bottleneck throughout the Mar'18 quarter

GTI Terminal	JNPCT Terminal	NSICT Terminal	NSIGT Terminal
Congestion Level	**Congestion Level**	**Congestion Level**	**Congestion Level**
Export Cycle :- ▬	Export Cycle :- ▬	Export Cycle :- ▬	Export Cycle :- ▬
Import Cycle :- ▬	Import Cycle :- ▬	Import Cycle :- ▬	Import Cycle :- ▬

Note : Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals(

Base on container movement from port to CFS in Mumbai region, 31 CFS's have been grouped into 8 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 8
- In import cycle the movement of traffic towards cluster 4 is facing congestion

CFS Cluster : JNPCT Terminal

- In export cycle the JNPCT terminal is having traffic congestion from cluster 8

GTI terminal for month of Mar'18				
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	2.3	2.8
Cluster 2	6	13	2.8	3.0
Cluster 3	6	11	2.1	3.7
Cluster 4	1	13	5.4	3.6
Cluster 5	2	25	3.1	2.2
Cluster 6	6	25	4.0	-
Cluster 7	4	12	2.5	3.3
Cluster 8	1	34	4.6	11.8
Cluster 9	1	20	3.3	4.1

JNPCT terminal for month of Mar'18				
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	1.6	2.6
Cluster 2	6	13	2.6	3.0
Cluster 3	6	11	1.4	3.4
Cluster 4	1	13	3.4	3.5
Cluster 5	2	25	2.7	1.4
Cluster 6	6	25	3.0	4.9
Cluster 7	4	12	2.2	5.1
Cluster 8	1	34	5.3	8.7
Cluster 9	1	20	2.2	4.5

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**

Base on container movement from port to CFS in Mumbai region, 31 CFS's have been grouped into 8 Clusters on the basis of their vicinity. Below table shows all the clusters and the relevant data for GTI terminal

CFS Cluster : NSICT Terminal

- In export cycle the NSICT terminal is having congestion for traffic from cluster 6
- In import cycle the movement of traffic towards cluster 9 is facing congestion

CFS Cluster : NSIGT Terminal

- In export cycle the NSIGT terminal is having traffic congestion from cluster 7, cluster 2

NSICT terminal for month of Mar'18				
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	1.4	4.4
Cluster 2	6	13	0.0	8.6
Cluster 3	6	11	1.1	7.7
Cluster 4	1	13	-	-
Cluster 5	2	25	2.6	3.8
Cluster 6	6	25	3.8	11.5
Cluster 7	4	12	2.6	8.3
Cluster 8	1	34	3.6	0.0
Cluster 9	1	20	26.6	6.2

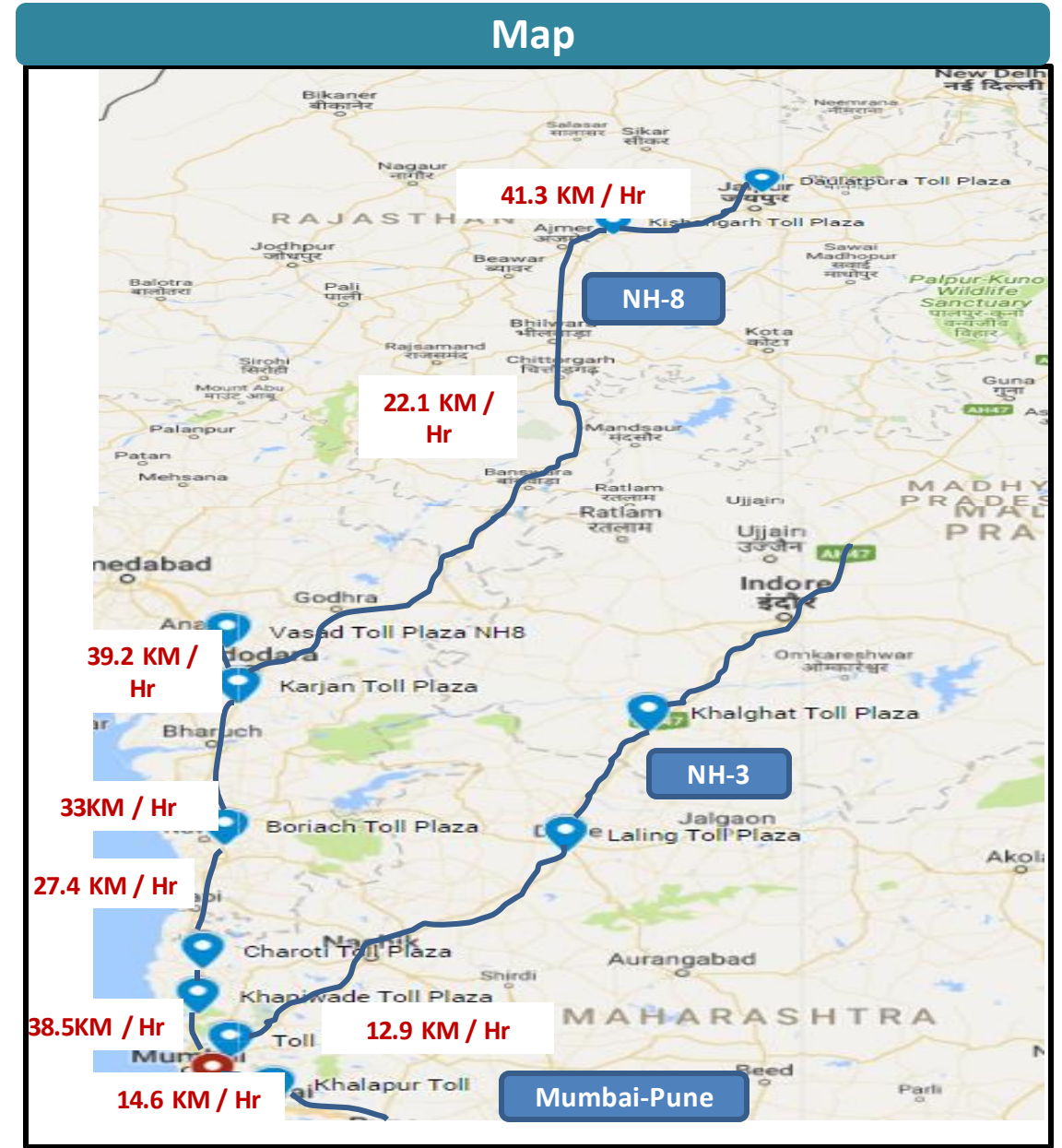| NSIGT terminal for month of Mar'18				
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
Cluster 1	1	8	1.7	3.2
Cluster 2	6	13	2.3	11.0
Cluster 3	6	11	2.2	6.9
Cluster 4	1	13	2.0	7.7
Cluster 5	2	25	3.5	-
Cluster 6	6	25	4.4	11.2
Cluster 7	4	12	2.5	10.3
Cluster 8	1	34	4.5	16.0
Cluster 9	1	20	18.9	7.8

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**

The below table shows all the toll plazas covered under DLDS connected with JNPT
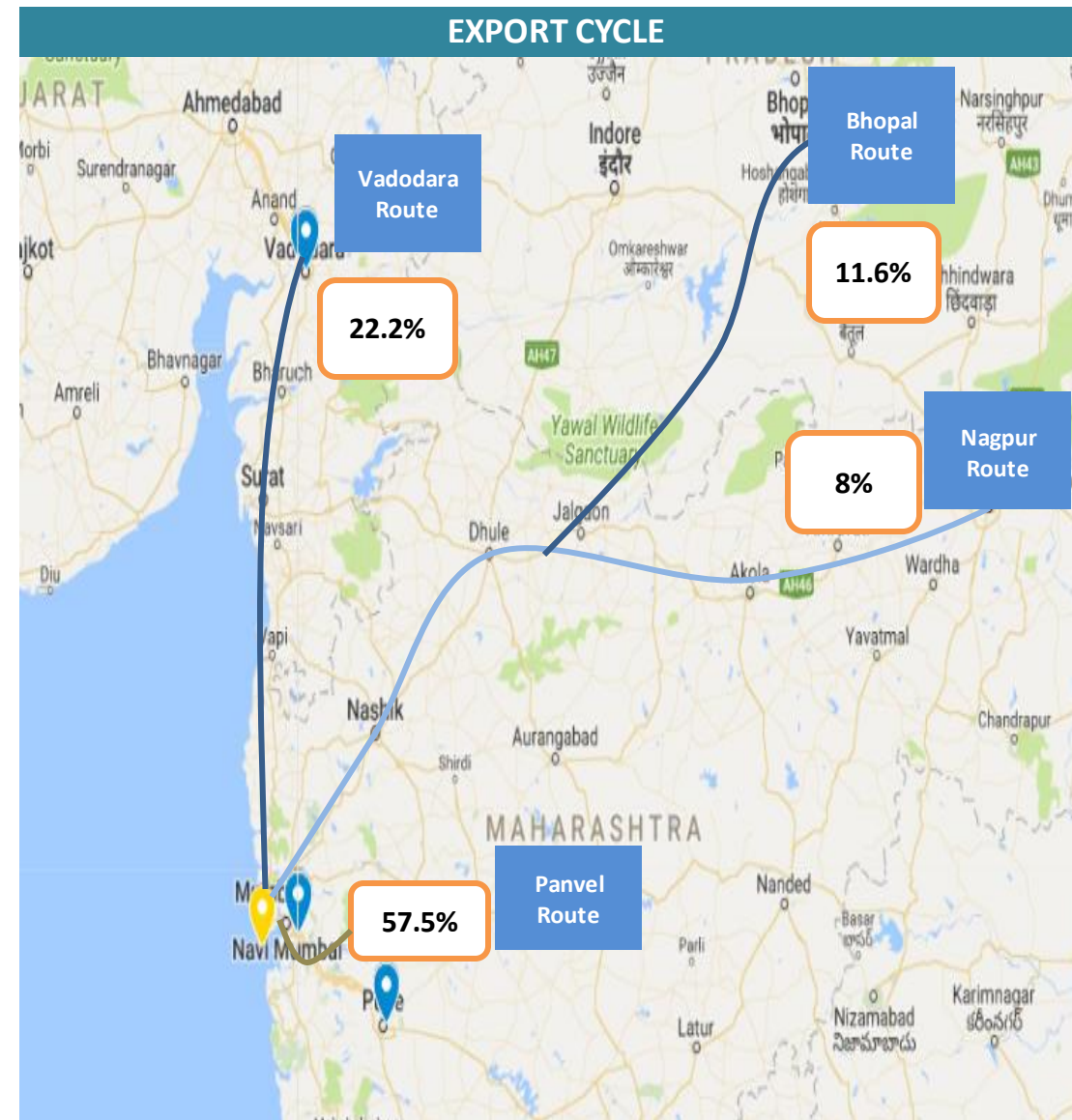
Avg. Travel Time & Speed between Toll Plazas (JFM'18)

Source	Destination Toll Plaza	Inter Distance (Km)	Avg. Travel Time (Hr)	JFM'18 Avg. Speed (Km/Hr.)	OND'17 Avg. Speed (Km/Hr)
JNPT	Khaniwade	94	7.3	12.9	13.7
JNPT	Khalapur	60	4.1	14.6	15.6
Khaniwade	Charoti	50	1.30	38.5	35.7
Charoti	Boriach	126	4.60	27.4	28
Boriach	Bharthan	142	4.30	33.0	33
Bharthan	Kishangarh	686	31.00	22.1	21.1
Bharthan	Vasad	60	1.53	39.2	37.5
Kishangarh	Daulatpura	128	3.10	41.3	40

Map

DLDS
Logistics Redefined
DMICDC LOGISTICS DATA SERVICES LTD

Container Movement around JNPT region via Train

The map shows the volume wise container movement through different railway routes in export and import cycle for March'18

IMPORT CYCLE

Bhopal Route

Vadodara Route

7.9%

27%

Nagpur Route

4.4%

60.7%

Panvel Route

EXPORT CYCLE

Bhopal Route

Vadodara Route

11.6%

22.2%

Nagpur Route

8%

57.5%

Panvel Route

Container movement around JNPT Port terminal region via Truck

DLDS
Logistics Redefined
DMICDC LOGISTICS DATA SERVICES LTD
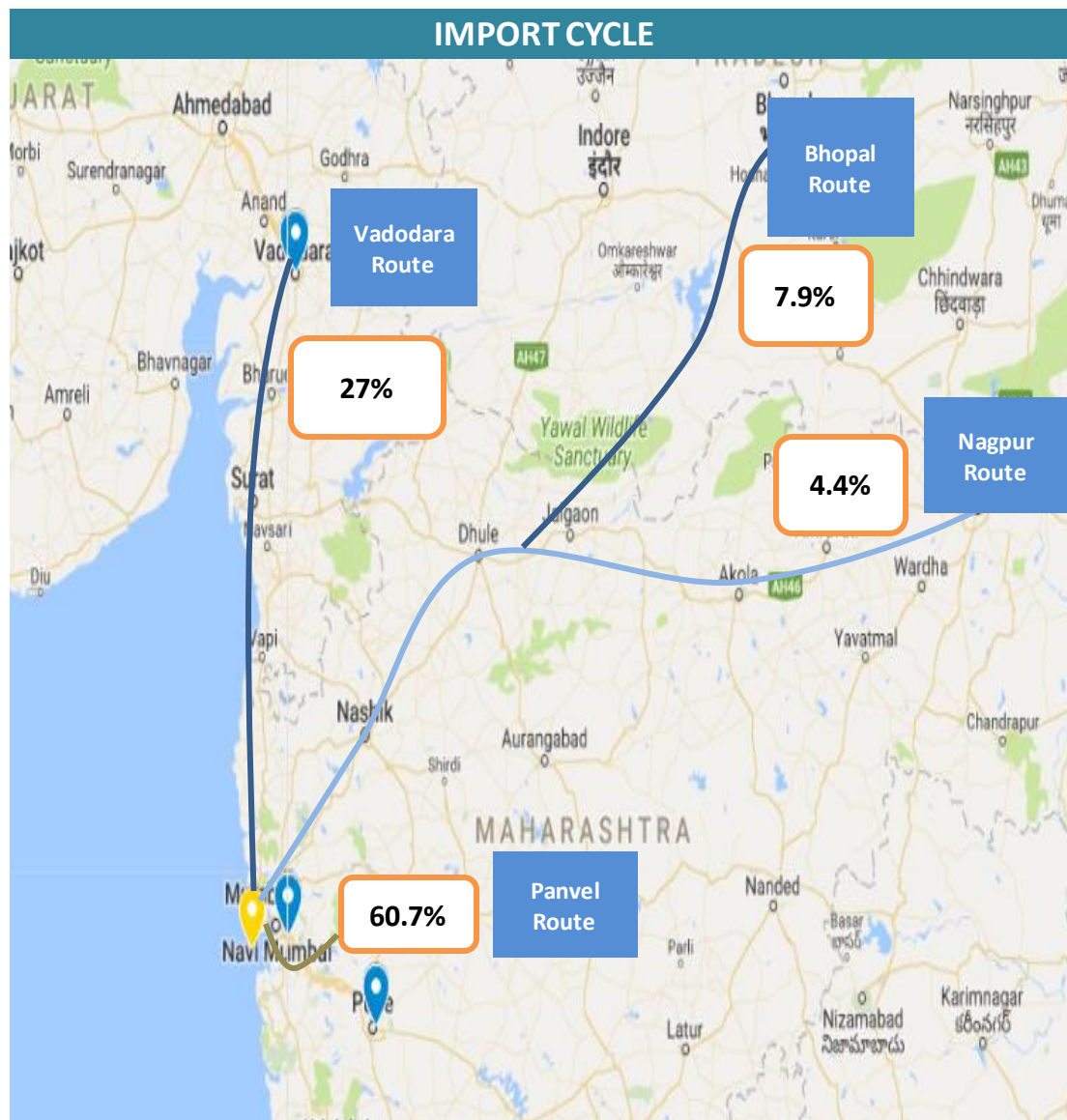
HEAT MAP : Overall Mumbai region

Heat Map : JFM 2018
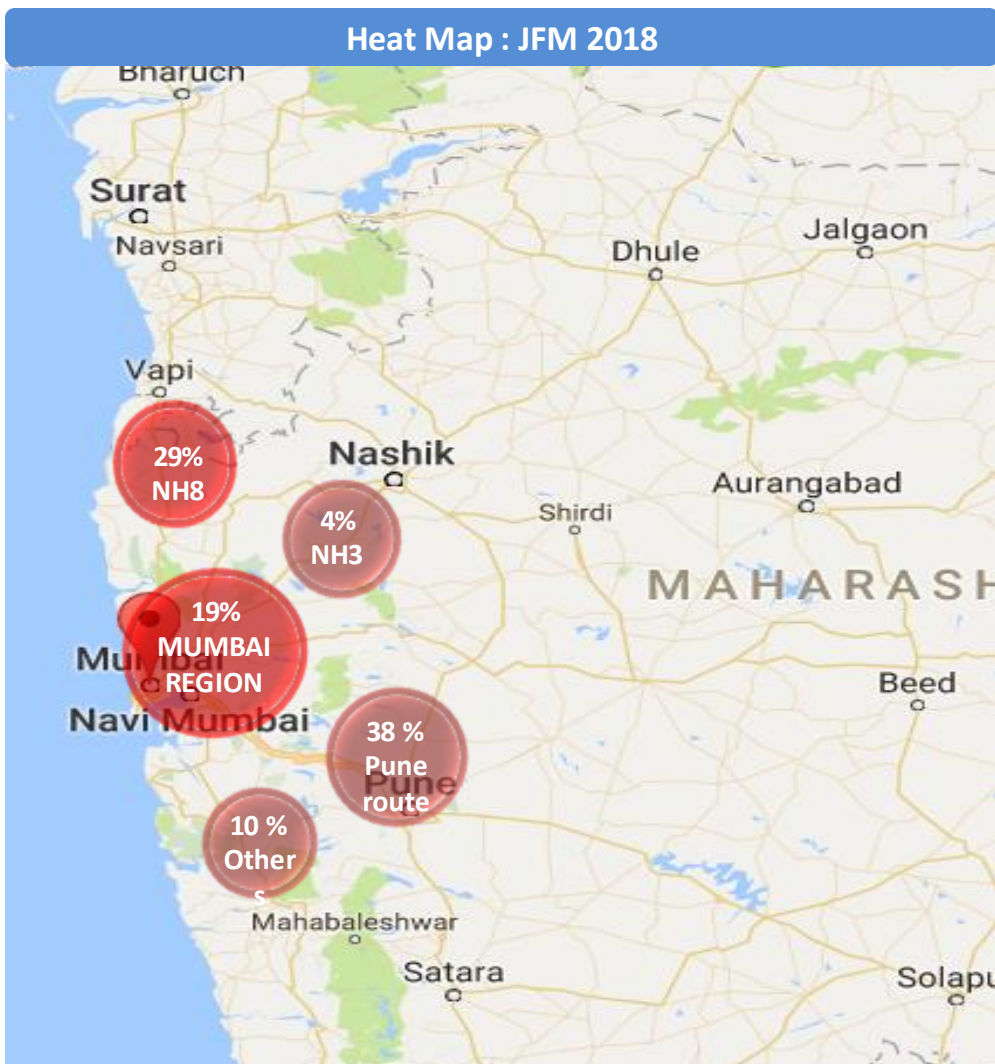
Region	OND'17	JFM'18
Mumbai Region	48%	19%
Pune	22%	38%
NH8	17%	29%
NH3	3%	4%
Others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.

HEAT MAP : GTI Port Terminal

Heat Map : JFM 2018
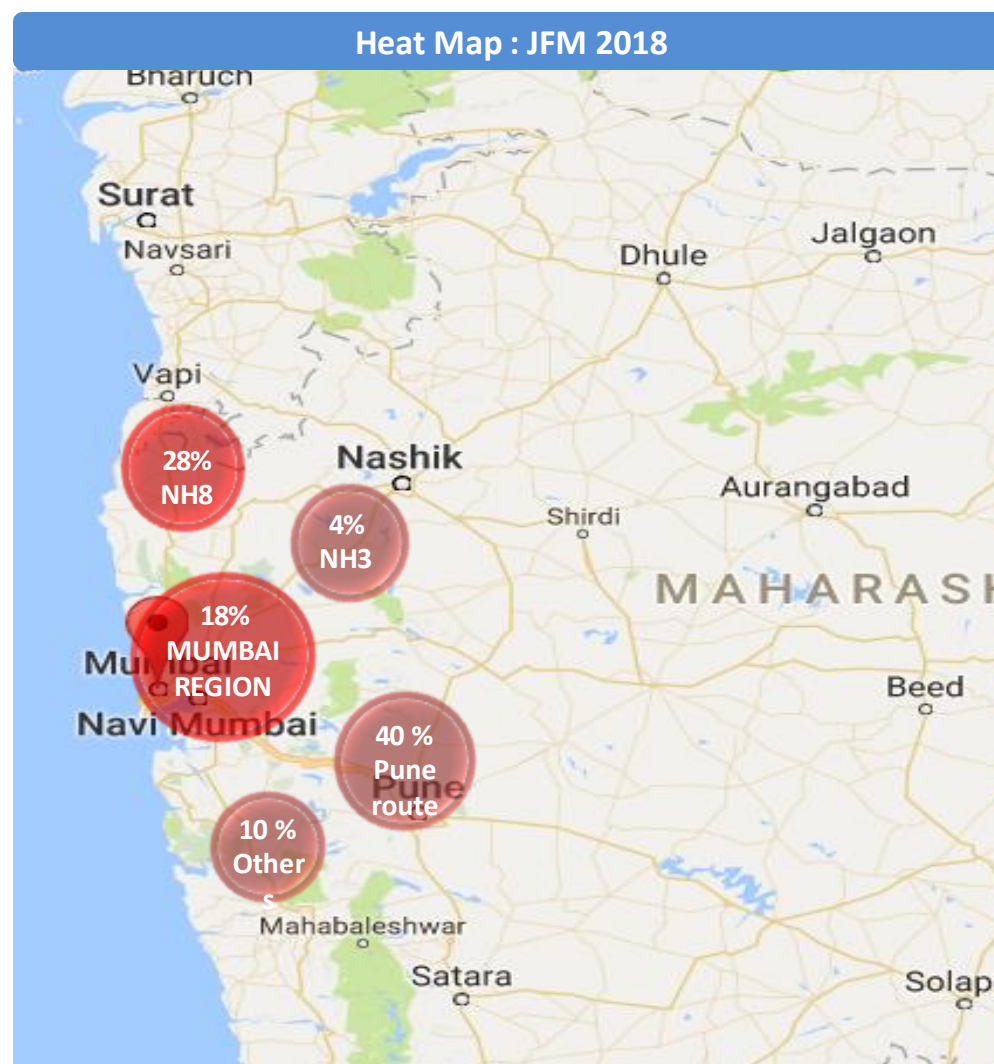
Region	OND'17	JFM'18
Mumbai Region	59%	18%
Pune	19%	40%
NH8	10%	28%
NH3	2%	4%
Others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.

Container movement around JNPT Port terminal region via Truck

DLDS
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HEAT MAP : JNPCT Port Terminal

Heat Map : JFM 2018

Region	OND'17	JFM'18
Mumbai Region	50%	43%
Pune	18%	24%
NH8	19%	20%
NH3	3%	3%
Others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.
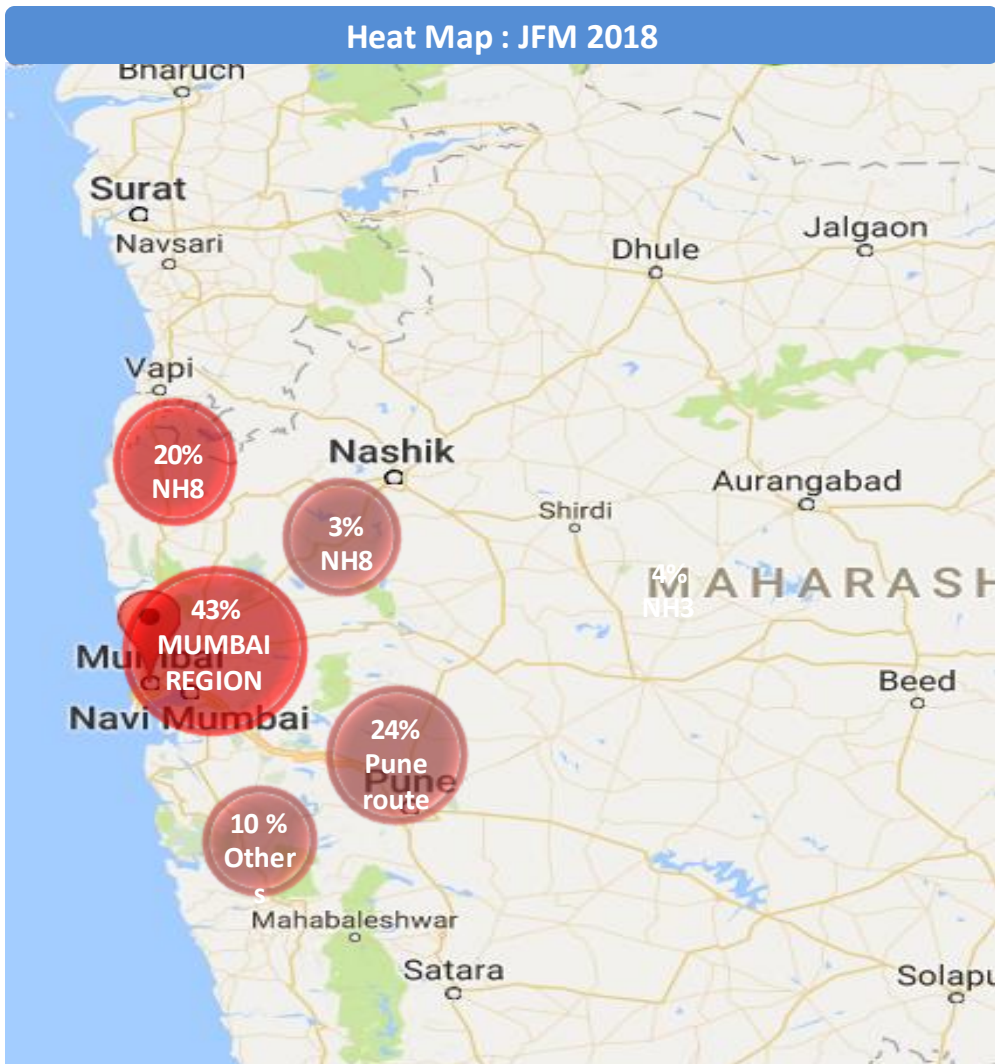
HEAT MAP : NSICT Port Terminal

Heat Map : JFM 2018
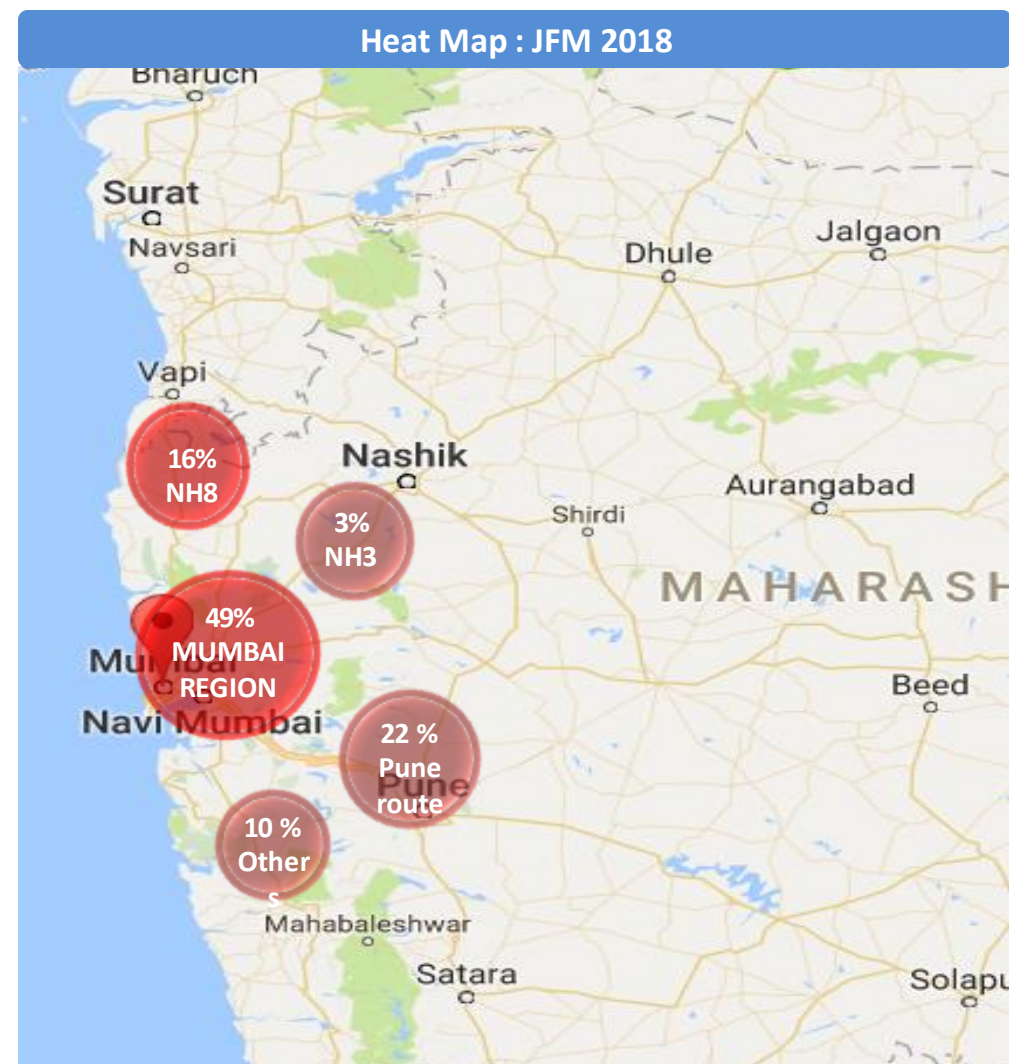
Region	OND'17	JFM'18
Mumbai Region	47%	49%
Pune	20%	22%
NH8	20%	16%
NH3	3%	3%
Others	10%	10%

The heat map above depicts the movement of containers in and around the Mumbai region.
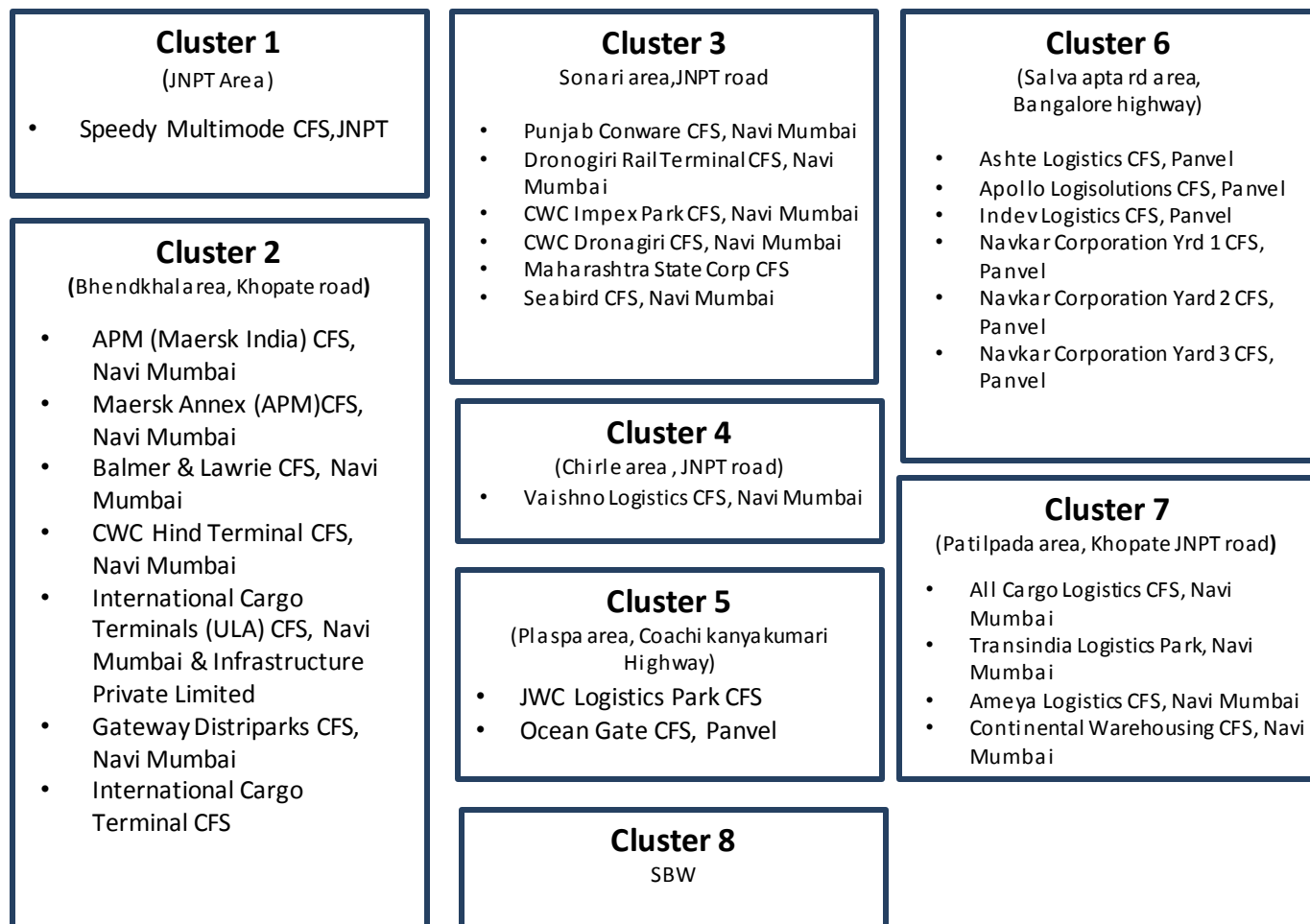
Below mentioned are all the CFS in the respective Clusters :

Cluster 1
(JNPT Area)

- Speedy Multimode CFS,JNPT

Cluster 2
(Bhendkhal area, Khopate road)

- APM (Maersk India) CFS, Navi Mumbai
- Maersk Annex (APM)CFS, Navi Mumbai
- Balmer & Lawrie CFS, Navi Mumbai
- CWC Hind Terminal CFS, Navi Mumbai
- International Cargo Terminals (ULA) CFS, Navi Mumbai & Infrastructure Private Limited
- Gateway Distriparks CFS, Navi Mumbai
- International Cargo Terminal CFS

Cluster 3
Sonari area,JNPT road

- Punjab Conware CFS, Navi Mumbai
- Dronogiri Rail Terminal CFS, Navi Mumbai
- CWC Impex Park CFS, Navi Mumbai
- CWC Dronagiri CFS, Navi Mumbai
- Maharashtra State Corp CFS
- Seabird CFS, Navi Mumbai

Cluster 4
(Chirle area , JNPT road)

- Vaishno Logistics CFS, Navi Mumbai

Cluster 5
(Plaspa area, Coachi kanyakumari Highway)

- JWC Logistics Park CFS
- Ocean Gate CFS, Panvel

Cluster 8
SBW

Cluster 6
(Salva apta rd area, Bangalore highway)

- Ashte Logistics CFS, Panvel
- Apollo Logisolutions CFS, Panvel
- Indev Logistics CFS, Panvel
- Navkar Corporation Yrd 1 CFS, Panvel
- Navkar Corporation Yard 2 CFS, Panvel
- Navkar Corporation Yard 3 CFS, Panvel

Cluster 7
(Patilpada area, Khopate JNPT road)

- All Cargo Logistics CFS, Navi Mumbai
- Transindia Logistics Park, Navi Mumbai
- Ameya Logistics CFS, Navi Mumbai
- Continental Warehousing CFS, Navi Mumbai

Thank You !!