# Logistics Databank Analytics Report- JNPT – March'2020







Terminal	wise	Dwell	Time	Performance	- Snapshot
	,				

	Import Cyc	le		Export Cyc	le
Port	Feb'20 (in hrs)	Mar'20 (in hrs)	Port	Feb'20 (in hrs)	Mar'20 (in hrs)
JNPCT	23.1	21.3	JNPCT	69.1	64.6
NSICT	18.7	19.3	NSICT	52.9	55.4
GTI	15.2	18.1	GTI	65.1	66.9
NSIGT	20.3	23.0	NSIGT	69.1	73.5
BMCT/PSA	19.2	19.4	BMCT/PSA	66.7	65.2

# **Critical Incident Summary**

# Jawaharlal Nehru Port Terminals

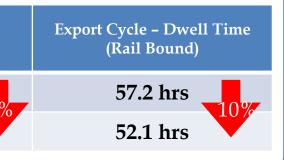
Rail bound container handling performance at Port Terminal has deteriorated in both Import & Export Cycle which has led ٠ to decrease Port to ICD Transit Time and ICD Dwell Time

Month	Import Cycle – Dwell Time (Rail Bound)	Port to ICD	ICD Dwell Time	ICD to Port
Mar'20	31.7 hrs	78.7 hrs	134.2 hrs	59.9 hrs
Feb'20	29.8 hrs	74.2 hrs	124.5 hrs	57.9 hrs









# Container Transportation Performance - Western Corridor

	Ро	ort Dwell Time	
IMPORT	Mode	Feb'20 (in hrs)	Mar'20 (in hrs)
MP	Overall	19.9	22.2
	Truck	18.6	20.8
	Train	33.4	36.5

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



Entity	Feb'20 (in hrs)	Mar'20 (in hrs)
CFS	82.5	82.2
ICD	124.5	134.2

Mode	Feb'20 (in hrs)	Mar'20 (in hrs)
Overall	81.6	88.3
Truck	80.6	87.0
Train	90.0	96.1

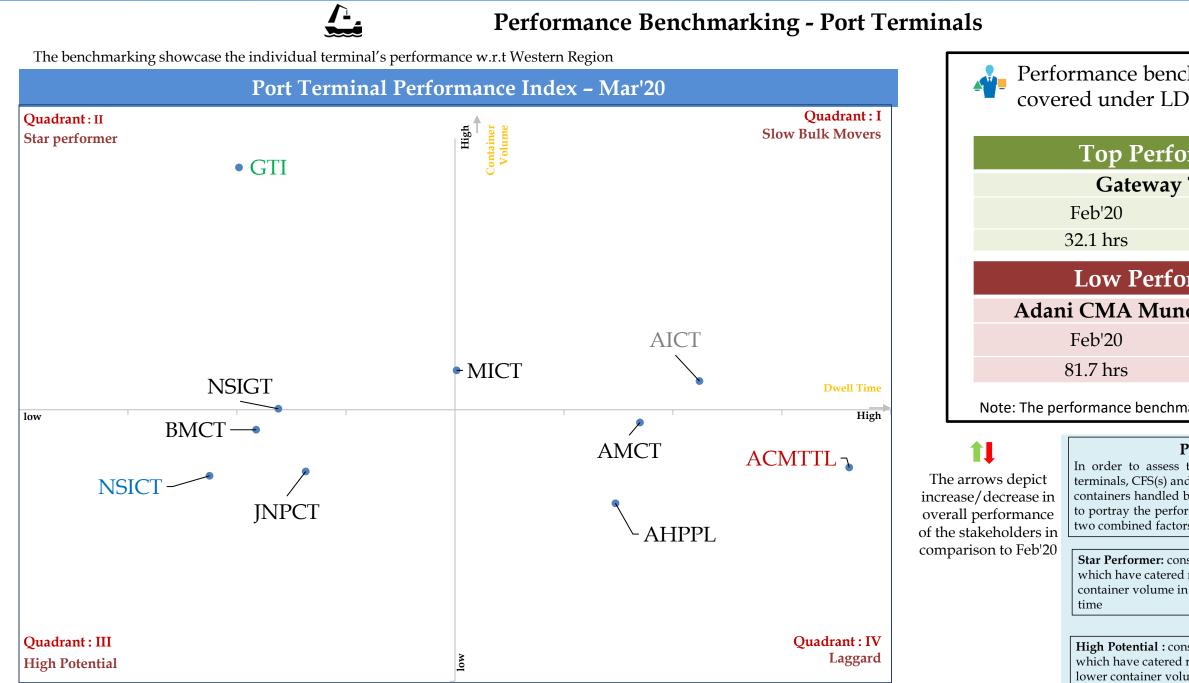
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The marked entries showcase increase in performance in comparison to Feb'20

The marked entries showcase decrease in performance in comparison to Feb'20

# Port Performance Benchmarking & Performance Index - Western Corridor







	hmarking for Port Terminals B project for Mar'20			
orming Terminal				
Terminals India				
	Mar'20			
	33.6 hrs 🖊			
rming Terminal				
dra Terminal (ACMTTL)				
	Mar'20			
	84.1 hrs 🛛 🖊			
narking is based on performance index				

#### **Performance Index- Summary**

dwell time

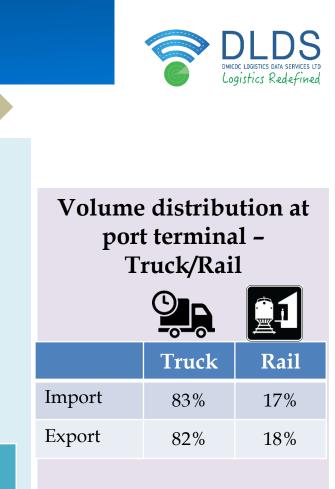
In order to assess the relative performance of various entities like Port terminals, CFS(s) and ICD(s), the relative Dwell time as well as the volume of containers handled by them are depicted graphically in the form of an index to portray the performance of a particular organisation on the basis of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

nsist of entities	Slow Bulk Movers : consist of
l relatively high	entities which have catered higher
n lower dwell	container volume at higher dwell
	time
nsist of entities	Laggard : consist of entities which
relatively	have catered relatively lower
ume in lower	container volume at higher dwell
	time

# Container Transportation- JNPT Port Terminals

#### **Container Lifecycle (Import Cycle)** Port Dwell Time **Container Freight Station** Transit Time (CFS) / Inland Container **Towards** ICD Depot (ICD) – Dwell Time Station Feb'20 Mar'20 Transit Mode Feb'20 **Mar'20** IMPOR Cycle (in hrs) (in hrs) (in hrs) (in hrs) Port to ICD 78.7 74.2 Overall 18.4 19.7 Port to CFS 2.4 2.3 Truck 17.1 18.3 ICD **CFS** Train 29.8 31.7 Towards CFS Feb'20 Entity Mar'20 (in hrs) (in hrs) From ICD **CFS** 82.1 80.3 Station Feb'20 Mar'20 Mode ICD 124.5 134.2 Transit Feb'20 Mar'20 (in hrs) (in hrs) (in hrs) (in hrs) Cycle EXPOR ICD to **Overall** 65.4 66.2 57.9 59.9 Port 66.2 67.1 Truck CFS to 3.9 3.7 Port 57.2 52.1 Train From CFS

**Container Lifecycle (Export Cycle)** 



The marked entries showcase the increase in performance as compared to Feb'20

The marked entries showcase the decrease in performance as compared to Feb'20

# Container Transportation- JNPT Port Terminals

	%IMPORT CYCLE DWELL TIME (Mar'20 – in hrs)	
	Overall Dwell Time of Truck and Train Bound Containers	19.7
	Port Dwell Time for Truck Bound Containers	18.3
	Port Dwell time for Train Bound Containers	31.7
PORT DWELL TIME	Port Dwell time Direct Port Delivery (DPD) containers	31.3
	Port Dwell time Containers bound for CFS	14.97
	Port Dwell for Empty Containers	27.4
	Port Dwell for Laden Containers	18.2
	Port to ICD	78.7
TRANSIT TIME	Port to CFS	2.3

	EXPORT CYCLE DWELL TIME (Mar'20- in hrs)	
	Overall Dwell Time of Truck and Train Bound Containers	66.2
	Port Dwell Time for Truck Bound Containers	67.1
	Port Dwell time for Train Bound Containers	57.2
PORT DWELL TIME	Port Dwell time Direct Port Entry (DPE) containers	72.1
	Port Dwell time Containers bound from CFS	64.9
	Port Dwell for Empty Containers	64.4
	Port Dwell for Laden Containers	67.1
TD ANGIT TIME	ICD to Port	59.9
TRANSIT TIME	CFS to Port	3.7

The arrows depict increase/decrease in performance of the stakeholders in comparison to Feb'20



Compared to Feb'20	
7%	₽
7%	₽
6%	₽
6%	₽
0.3%	
5%	
1%	
6%	↓
4%	

Compared to Feb'20
1% 🖊
1% 🖊
10% 🖊
3% 📕
6% 📕
5% 🕇
3% 📕
3% 📕
5%

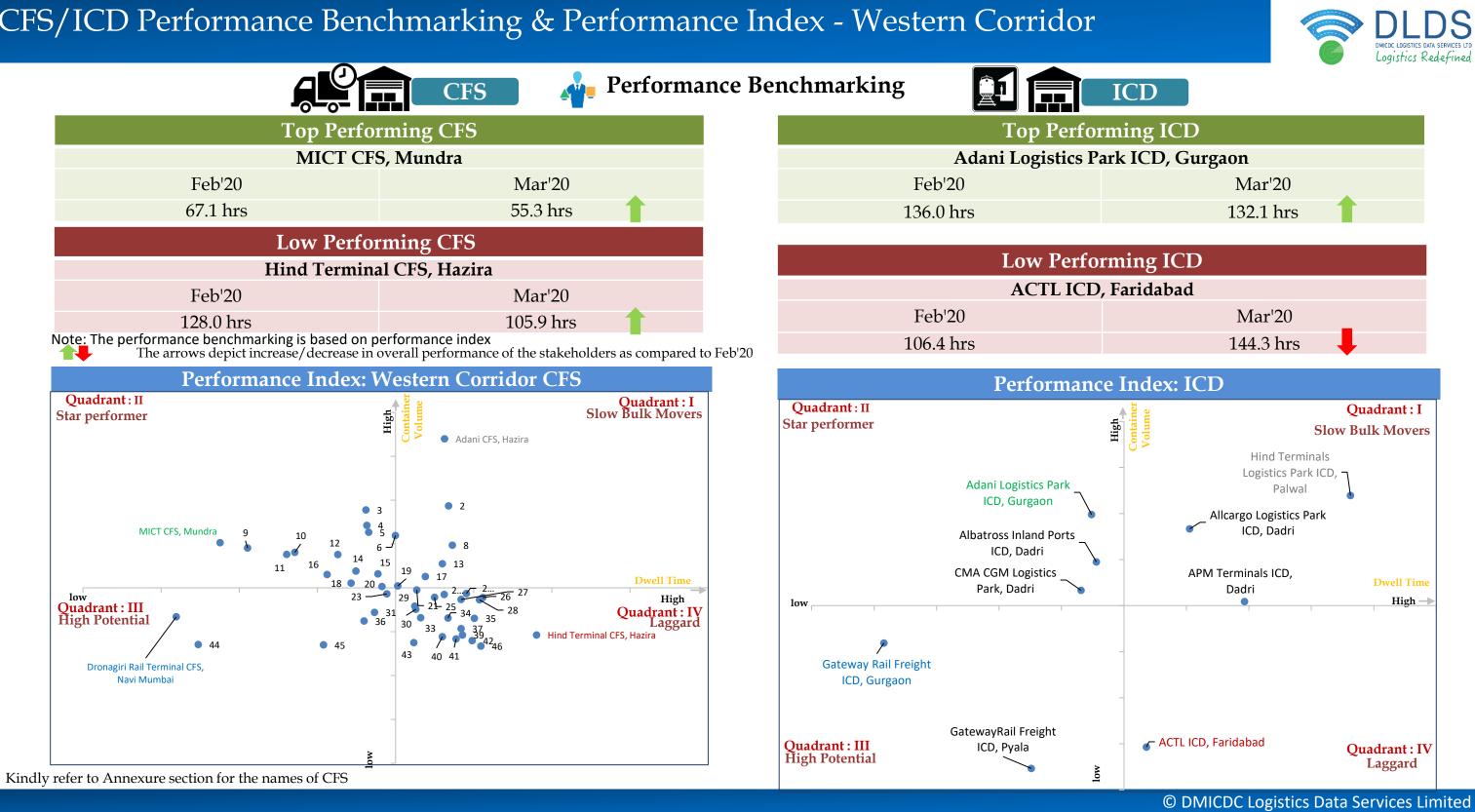
# JNPT Region: Parking Plaza Dwell Time Analysis

The below table depicts the Parking Plaza & Parking Plaza to Port Transit Performance at JNPT Port Terminals and their volume bifurcation in export cycle

							Z		
Park	ing Plaza C	Gate In – C	ate Out		Parki	ng Plaza	Gate Out – Te	rminal In	
Mode		Feb'20 in hrs)	Mar'20 (in hrs)		Moo	de	Feb'20 (in hrs)	Mar'20 (in hrs)	
Overall Par Plaza	U	7.4	7.42		Overall F Plaza to JN	0	1.9	2.3	
Parking Plaza		)'20 hrs)	Mar'20 (in hrs)		Port		Feb'20 (in hrs)	Mar'20 (in hrs)	
APM-GTI Parking Plaza	6	.8	6.9		JNPCT NSICT		2.1 1.6	1.9 2.1	
JNPCT Parking Plaza	6.	23	6.21	įi.	GTI		2.1	2.6	
NSIGT Parking Plaza	8	.3	8.4		NSIGT BMCT		1.7 2.5	2.0 2.6	
Contai	ner Handle	d: Day wis	e (Mar'20)		Cont	ainer Han	dled: Day wise	e (Mar'20)	
Parking Plaza	Within 6 hrs	$\textcircled{With}_{6-24}$			Port Terminals	Within 6 hrs	$\underbrace{\bullet}_{6-24 \text{ hrs}}^{\text{Within}}$	More than 24 hrs	1
APM-GTI Parking Plaza	43%	53%			JNPCT	81%	17%	2%	
					NSICT	77%	21%	2%	
JNPCT Parking Plaza	48%	49%	3%		GTI	81%	18%	1%	
NSIGT Parking Plaza	33%	63%	4%		NSIGT	<b>76</b> %	22%	2%	
					ВМСТ	81%	7%	2%	



# CFS/ICD Performance Benchmarking & Performance Index - Western Corridor



Import Cycle Analysis



# JNPT Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in import cycle

# PORT IMPORT via TRAIN (17% of total import volume at JNPT Port) The Port Dwell time data for train bound container 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	Feb'20 (in hrs)	Mar'20 (in hrs)
JNPCT	26.4	23.8
NSICT	43.8	36.9
GTI	22.3	23.7
NSIGT	41.9	54.3
BMCT	25.6	23.7

# Container Handled: Day wise (Mar'20)

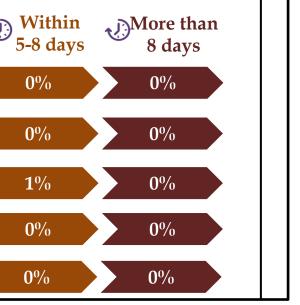


# **PORT IMPORT via TRUCK** (83% of total import volume at JNPT Port)

The Port Dwell time data for Truck bound container 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	Feb'20 (in hrs)	Mar'20 (in hrs)
JNPCT	22.7	21.1
NSICT	16.7	17.3
GTI	14.3	17.4
NSIGT	17.2	18.5
BMCT	18.7	18.8
Containe	er Handled: Day wise	(Mar'20)
Port Terminals $3$ Wit 2 da	hin $3$ Within $3$ Wi	thin More than days 8 days
JNPCT 88%	رم <b>12% 0%</b>	/0 0%
NSICT 91%	o 9% 0%	/0 0%
GTI 88%		/0 0%
NSIGT 89%		/o 0%
BMCT 91%	o 9% 0%	ν̈́ο 0%

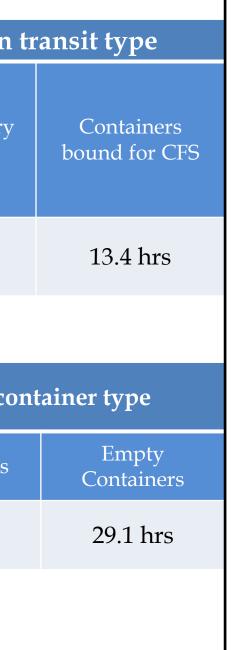




# JNPT Port Terminal: Dwell Time Performance (Import Cycle)

The belo	w tables depict the de	etailed JNPT region	port per	formance in the	month of Mar'20
			GTI		
Port Dwe	ell time based on tr	ansit type		Port Dw	ell time based on
Mar'20	Direct Port Delivery containers	Containers bound for CFS		Mar'20	Direct Port Delivery containers
Dwell time (in hrs)	31.7 hrs	18.1 hrs		Dwell time (in hrs)	29.2 hrs
Port Dwe	ell time based on cont	ainer type		Port Dwo	ell time based on co
Mar'20	Laden Containers	Empty Containers		Mar'20	Laden Containers
Dwell time (in hrs)	20.6 hrs	28.6 hrs		Dwell time (in hrs)	16.2 hrs





# JNPT Port Terminal: Dwell Time Performance (Import Cycle)

The below tables depict the detailed JNPT region port performance in the month of Mar'20

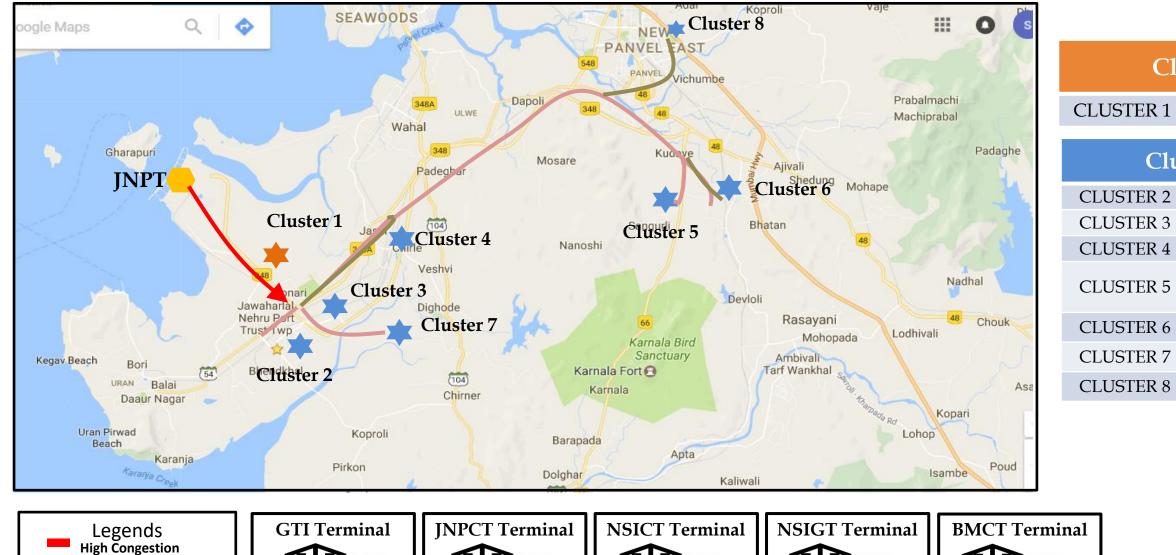
NSICT					
Port Dw	vell time based type	l on transit			
Mar'20	Direct Port Delivery containers	Containers bound for CFS			
Dwell time (in hrs)	42.5 hrs	14.3 hrs			
Port Dwe	ell time based type	on container			
Mar'20	Laden Containers	5 Empty Containers			
Dwell time (in hrs)	18.8 hrs	24.2 hrs			

NSIGT				BMCT	
Port Dwel	ll time based on	transit type	Port Dwe	ell time based on	transit typ
Mar'20	Direct Port Delivery containers	Containers bound for CFS	Mar'20	Direct Port Delivery containers	Containers bound for C
Dwell ime (in hrs)	35.3 hrs	15.0 hrs	Dwell time (in hrs)	28.5 hrs	15.4 hrs
Port Dwo	ell time based or type	n container	Port Dw	ell time based on type	ontainer
Mar'20	Laden Containers	Empty Containers	Mar'20	Laden Containers	Empty Containers
Dwell time (in hrs)	22.0 hrs	26.6 hrs	Dwell time (in hrs)	17.1 hrs	28.9 hrs



# JNPT Region: Congestion Analysis (Import Cycle)

The Below map indicate congestion around JNPT region in Import Cycle in month of Mar'20



**Medium Congestion** Low Congestion **Cluster with bottleneck Cluster without** bottleneck





**Congestion Level** Import Cycle :-





# **Clusters with bottleneck**

CLUSTER 1 JNPT Area

### **Clusters without bottleneck**

- Bhendkhal area, Khopate road
- Sonari area, JNPT road
- Chirle area, JNPT road
- Plaspa area, Coach kanyakumari Highway
- Salva apta rd area, Bangalore highway
- Patilpada area, Khopate JNPT road
- Taloja, Navi Mumbai

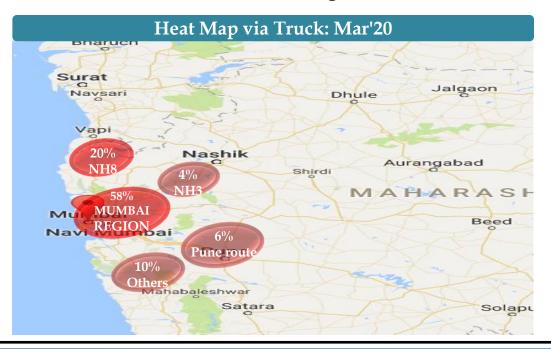
Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals 2) Analysis consist of CFS covered under LDB project

# JNPT Region Import Cycle: Container Movement

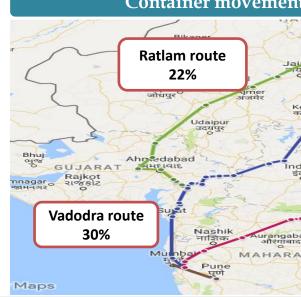
The below table and graphs depict the container movement across JNPT port region in Import cycle

Truck HEAT MAP : OVERALL MUMBAI REGION					
Region	Mar'20				
Mumbai region	58%				
NH3	<b>4</b> %				
Pune	8%				
NH8	20%				
others	10%				

The figure depicts the movement of containers via truck in and around Mumbai region.



Joir Cycle						
Train VOLUME WISE CONTAINER MOVEMENT						
Region	Mar'20					
Vadodra Route	30%					
Ratlam Route	22%					
Wardha Route	17%					
Kota Route	17%					
<b>Bhopal Route</b>	14%					
The map shows the volume wise container movement through different railway routes in import cycle						
Container movement via Rail – Mar'20						
Ratlam route 22% Strater Sight Sight Kote Kote Kote Sight Kote Sight Sight Kote Sight Sight Kote Sight						
Udaipur Jacquys	Bhopal route 14%					
Vadodra route	MADHY PRADESH indore scit Chhindwara Chhindwara Chhindwara Chhindwara Chhindwara Chhindwara Chhindwara Raipui angy Bhilaj					
30% Nashik History Murphate Murphate Pune Pune						

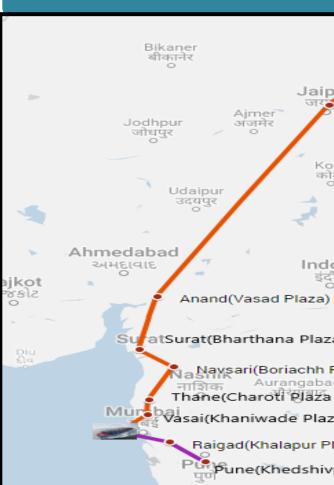




### © DMICDC Logistics Data Services Limited

FLANGAN

Avg. Speed between Toll Plazas						
	Source	Destination Toll Plaza	Inter Distance (Km)	Feb'20 (in km/hrs)	Mar'20 (in km/hrs)	
	JNPT	Khaniwade	94	13.5	13.2	
<u> </u>	JNPT	Khalapur	60	3.13	8.2	
JNPT	Khaniwade	Charoti	50	38.0	35.7	
	Charoti	Boriach	126	28.7	29.6	
	Boriach	Bharthan	142	34.9	35.7	





## Toll Plaza - JNPT Port

New De नई दिल्ल ®	शोग। नी	Bareilly बरेली	13
Ģ	urugram(H	(herki Plaz	a)Lakhin लखीमपुर
PLI	Agra आगरा	15	Luck
Jaipur(Dau	latpura Pla	az	् लख
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ota होटा	-	· ~ ~ .	कानपुर
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à		-	1
aza)			15
Plaza)	× 1		
<b>vpur Plaza)</b> Kalaburagi	Hydera హెదరాణ		3

Export Cycle Analysis



# JNPT Region: Dwell Time Performance (Export Cycle)

The below tables depict the port dwell time performance at JNPT port for truck and train bound containers in export cycle

# PORT EXPORT via TRAIN (18% of total export volume at JNPT Port) The Port Dwell time data for train bound container 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	Feb'20 (in hrs)	Mar'20 (in hrs)
JNPCT	69.9	64.9
NSICT	5.6	6.2
GTI	84.6	93.3
NSIGT	70.9	81.7
BMCT	73.8	62.8

# Container Handled: Day wise (Mar'20)

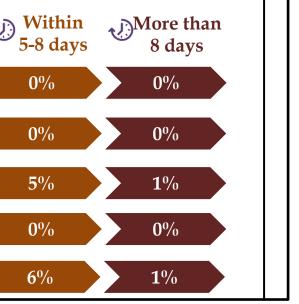


# PORT EXPORT via TRUCK (82% of total export volume at JNPT Port)

The Port Dwell time data for Truck bound container 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	Feb'20 (in hrs)	Mar'20 (in hrs)
JNPCT	69.0	64.6
NSICT	67.3	70.2
GTI	63.6	64.1
NSIGT	68.8	72.8
BMCT	66.3	65.5
Containe	er Handled: Day wise	(Mar'20)
Port Terminals	thin $3$ Within $3$ W	ithin More than days 8 days
JNPCT 25°	% 75% 0	% 0%
NSICT 280	2∕₀ 72% <b>0</b> °	% 0%
GTI 31 <sup>o</sup>	% 63% 5°	% 1%
NSIGT 22 <sup>o</sup>		% 0%
BMCT 30°	/o 63% 6 <sup>0</sup>	/0 1%





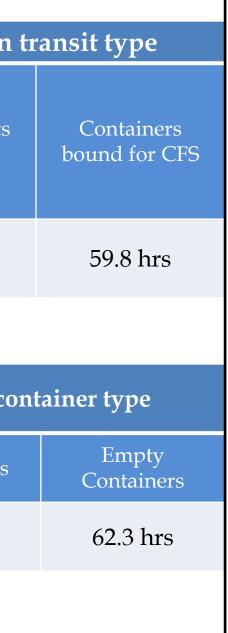
# JNPT Region: Dwell Time Performance (Export Cycle)

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Mar'20

JNPCT							
Port Dwell time based on transit type							
Mar'20	Direct Port Exports containers	Containers bound for CFS					
Dwell time (in hrs)	84.8 hrs	65.6 hrs					
Port Dwe	ll time based on cont	ainer type					
Mar'20	Mar'20 Laden Containers Empty Container						
Dwell time (in hrs)	66.1 hrs	62.4 hrs					

	1 5 5
	GTI
Port Dw	ell time based on
Mar'20	Direct Port Exports containers
Dwell time (in hrs)	67.8 hrs
Port Dw	ell time based on c
Mar'20	Laden Containers
Dwell time (in hrs)	66.2 hrs





# JNPT Region: Dwell Time Performance (Export Cycle)

The below tables depict the Dwell Time of containers based on their transit and occupancy at JNPT port for Mar'20

based on transit pe Port Containers ts bound for CFS
ers
ars 69.6 hrs
ased on container pe
ntainers Empty Containers
hrs -

NSIGT		ВМСТ				
ell time based on	transit type	Port Dwell time based on transit ty				
Direct Port Exports containers	Containers bound for CFS	Mar'20	Direct Port Exports containers	Containers bound for CF		
78.4 hrs	71.6 hrs	Dwell time (in hrs)	-	60.1 hrs		
vell time based or type	n container	Port Dw	ell time based or type	l container		
Laden Containers	Empty Containers	Mar'20	Laden Containers	Empty Containers		
73.3 hrs	-	Dwell time (in hrs)	62.5 hrs	-		
	Direct Port Exports containers 78.4 hrs vell time based or type Laden Containers	Exports containersbound for CFS78.4 hrs71.6 hrsell time based or container typeLaden ContainersLaden ContainersEmpty Containers	Direct Port Exports containers bound for CFSMar'2078.4 hrs71.6 hrsDwell time (in hrs)78.4 hrs71.6 hrsPort Dwell Mar'20Laden Containers typeLaden ContainersEmpty Containers73.3 hrs-Dwell time	Direct Port Exports containers bound for CFSMar'20Direct Port Exports containers78.4 hrs71.6 hrsDwell time (in hrs)-rell time based on container typePort Dwell time based on type-Laden ContainersEmpty ContainersMar'20Laden Containers73.3 hrs-Dwell time62.5 hrs		



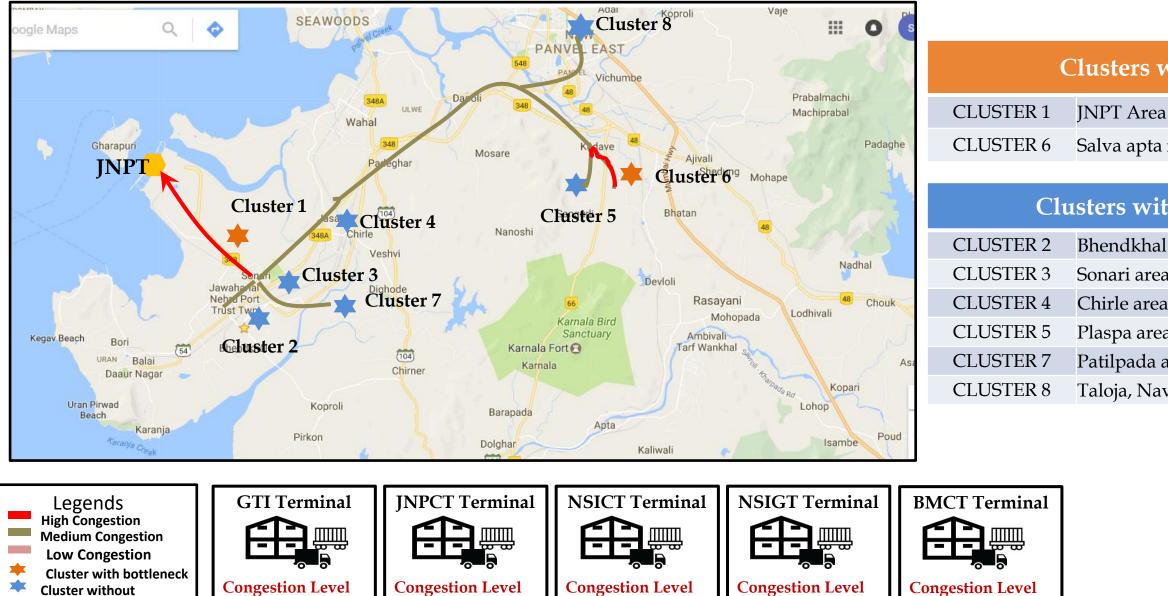
# JNPT Region: Congestion Analysis (Export Cycle)

# The Below map indicate congestion around JNPT region in Export Cycle in month of Mar'20

Import Cycle :-

Import Cycle :-

bottleneck



Import Cycle :-

Import Cycle :-

Export Cycle :-



# **Clusters with bottleneck**

Salva apta rd area, Bangalore highway

# **Clusters without bottleneckz**

Bhendkhal area, Khopate road

Sonari area, JNPT road

Chirle area, JNPT road

Plaspa area, Coach kanyakumari Highway

Patilpada area, Khopate JNPT road

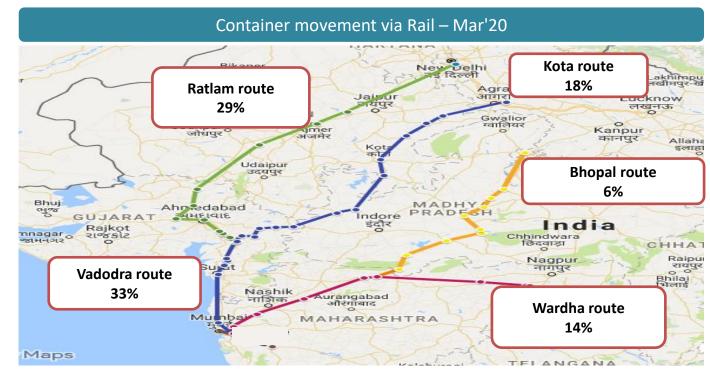
Taloja, Navi Mumbai

Note : 1) Congestion is measured w.r.t actual time taken to cover the respective distance between clusters and terminals 2) Analysis consist of CFS covered under LDB project

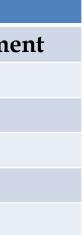
# JNPT Region: Container Movement via Train

JNPT	Port
Route	Percentage of Container Movem
Vadodra Route	33%
Ratlam Route	<b>29</b> %
Wardha Route	14%
Kota Route	18%
Bhopal Route	6%

The map shows the volume wise container movement through different railway routes in export cycle for Mar'20







# CFS and ICD Performance

# **JNPT region CFS : CFS DWELL TIME ANALYSIS** Below table and graphs show the dwell time of the respective CFSs for the month of Mar'20

		CFS Dw
CFS	Feb'20	Mar'20
AllCargo Logistics	-	92.5
Ameya Logistics CFS, Navi Mumbai	86.7	78.8
APM (Maersk India) CFS, Navi Mumbai	79.5	80.6
Apollo Logisolutions CFS, Panvel	93.7	86.5
Ashte Logistics CFS, Panvel	89.4	86.6
Balmer & Lawrie CFS, Navi Mumbai	92.2	87.4
Continental Warehousing CFS, Navi Mumbai	77.8	72.4
CWC Hind Terminal CFS, Navi Mumbai	94	91.9
Dronagiri Rail Terminal CFS, Navi Mumbai	48.9	48.3
EFC Logistics India	81.2	82.0
Gateway Distriparks CFS, Navi Mumbai	77.9	78.6
Indev Logistics CFS, Panvel	90.5	78.3
International Cargo Terminal CFS	82.4	83.4
International Cargo Terminals (ULA) CFS, Navi Mumbai	81.9	81.2
JWC Logistics Park CFS	73.1	74.2

vell Time	(in hrs.)	
	CFS	Feb'20
	JWR CFS	54.6
	Maersk Annex (APM)CFS, Navi Mumbai	97.3
	Maharashtra State Corp CFS	49.3
	Navkar Corporation Yard 1 CFS, Panvel	100.7
	Navkar Corporation Yard 2 CFS, Panvel	100.6
	Navkar Corporation Yard 3 CFS, Panvel	79.6
	Ocean Gate CFS, Panvel	93.2
	Punjab Conware CFS, Navi Mumbai	63.1
	Sarveshwar CFS	89.4
	Seabird CFS, Navi Mumbai	92.7
	Speedy Multimode CFS, JNPT	79.7
	Take Care Logistics CFS	123
	TG Terminals CFS	87.9
	Vaishno Logistics CFS, Navi Mumbai	83.4

#### CFS – DWELL OVERVIEW – MAR'20 IN HRS





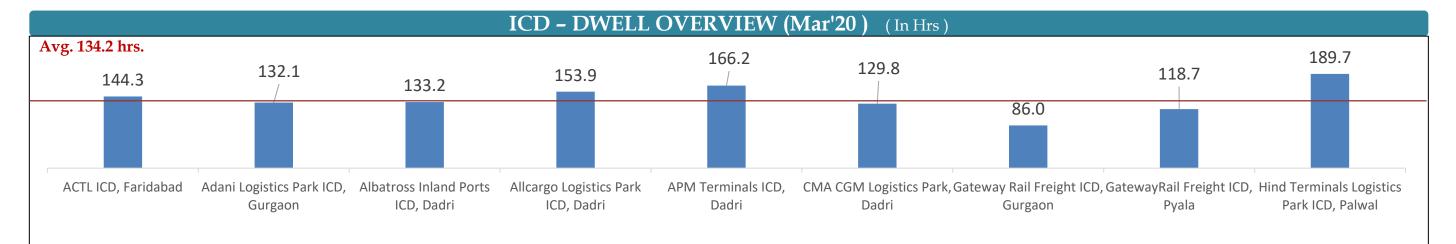
Mar'20	
59.7	
95.6	
51.8	
90.8	
96.8	
76.3	
94.1	
67.3	
97.3	
91.2	
66.0	
93.9	
91.8	
80.0	

# CFS and ICD Performance

# ICD DWELL TIME ANALYSIS

The table below depicts the dwell of all ICDs

ICD Dwell Time (in Hrs)							
ICD	Feb'20 (in hrs)	Mar'20 (in hrs)					
ACTL ICD, Faridabad	106.4	144.3					
Adani Logistics Park ICD, Gurgaon	136.0	132.1					
Albatross Inland Ports ICD, Dadri	134.4	133.2					
Allcargo Logistics Park ICD, Dadri	133.9	153.9					
APM Terminals ICD, Dadri	136.1	166.2					
CMA CGM Logistics Park, Dadri	125.5	129.8					
Gateway Rail Freight ICD, Gurgaon	74.5	86.0					
GatewayRail Freight ICD, Pyala	122.6	118.7					
Hind Terminals Logistics Park ICD, Palwal	119.4	189.7					

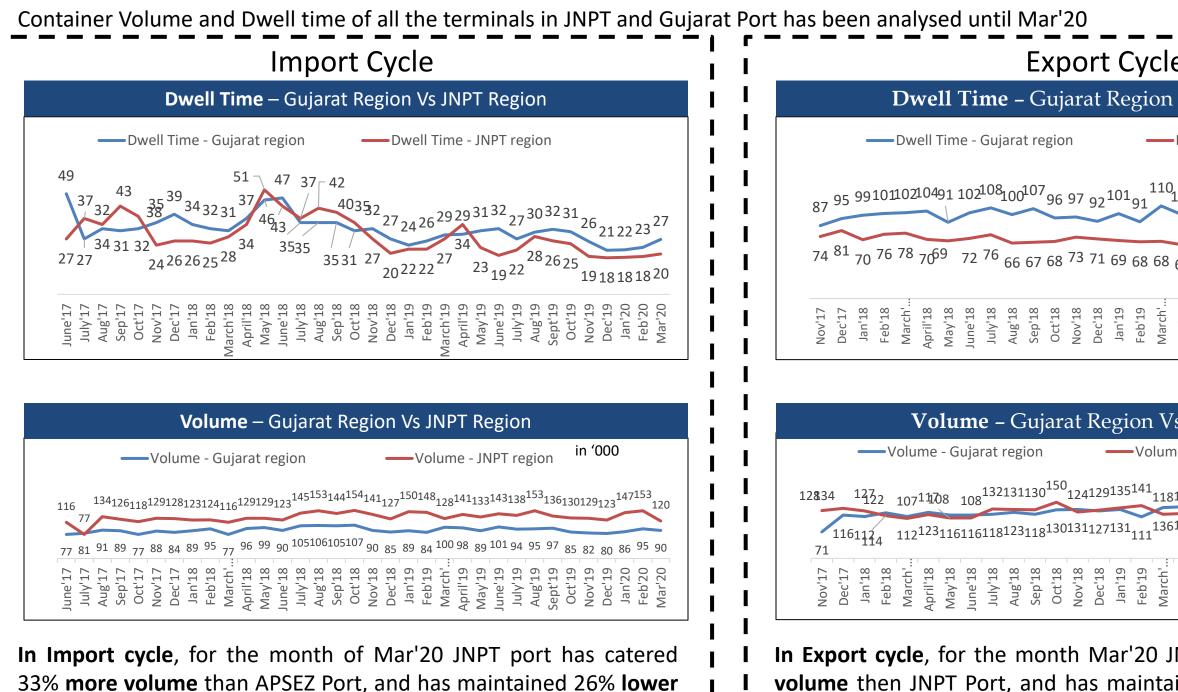




# Trend Analysis



# Western Corridor Port – Yearly Analysis



than APSEZ Port

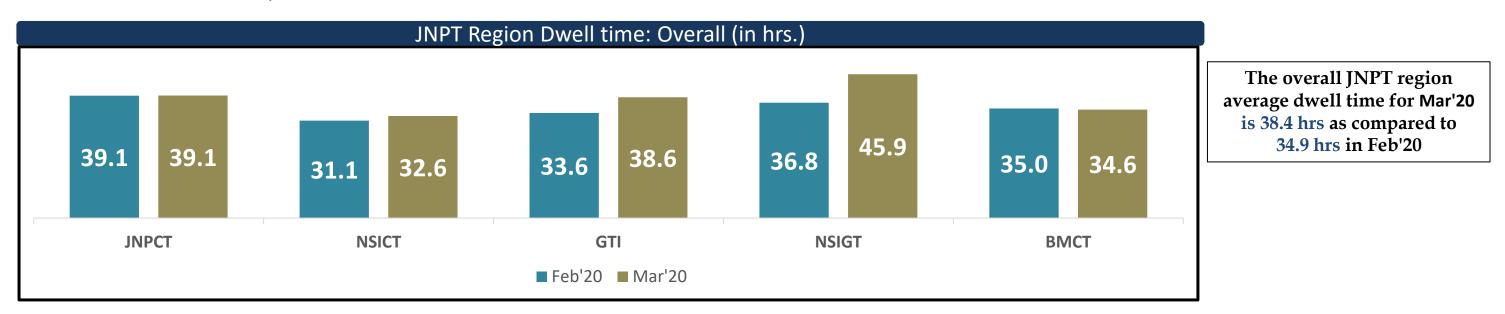
33% more volume than APSEZ Port, and has maintained 26% lower dwell time than APSEZ Port



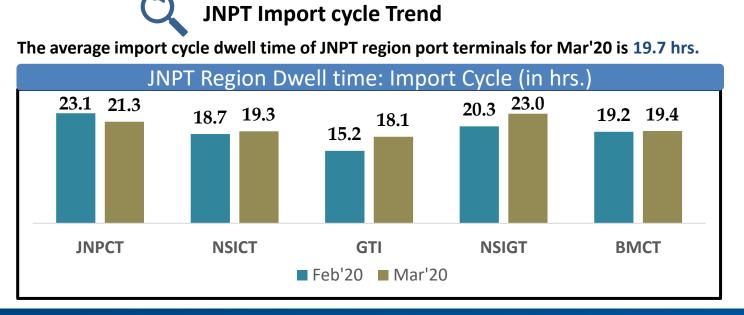
e V	s J	N	PT	R	eg	<b>i</b> 01	n					
Dw	ell	Tim	ne -	JNF	PT r	egi	on					
100	95	99	100	106	100	98	97	103	112	109	120	
64	64	65	65	69	64	66	68	67	67	65	66	
April'19	May'19	June'19	July'19	Aug'19	Sept'19	Oct'19	Nov'19	Dec'19	Jan'20	Feb'20	Mar'20	
c I	NI	рд	R	00		'n						
-			egi				00					
120	114	134	12	<b>₽</b> 05	125	120	)123	119	9116	,131	118	
138	125	108	10	123	126	109	119	129	9130	138	146	
April'19	May'19	June'19	July'19	Aug'19	Sept'19	Oct'19	Nov'19	Dec'19	Jan'20	Feb'20	Mar'20	
											mo	_ re
in	ed	4	5%	6	0١	ve	r	ď	we	<b>e</b>	tim	۱e
						_		_		_	_	_

## JNPT port dwell time trend :

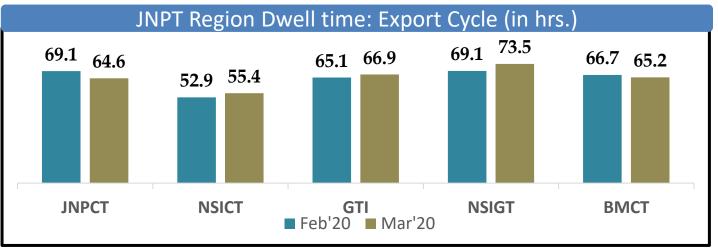
The below table shows the overall port dwell time (i.e. import and export cycle combined) trend(Month of Month) of all the JNPT Port terminals. Port dwell time is the time duration between the entry of the container in Port terminal to the time it moves out of the Port terminal



The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of March'19



The average export cycle dwell time of JNPT region port terminals for Mar'20 is 66.2 hrs.

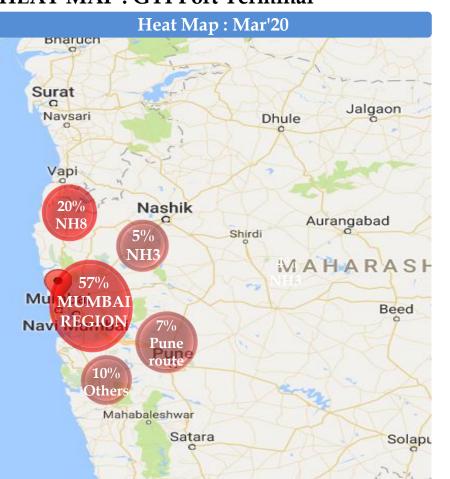




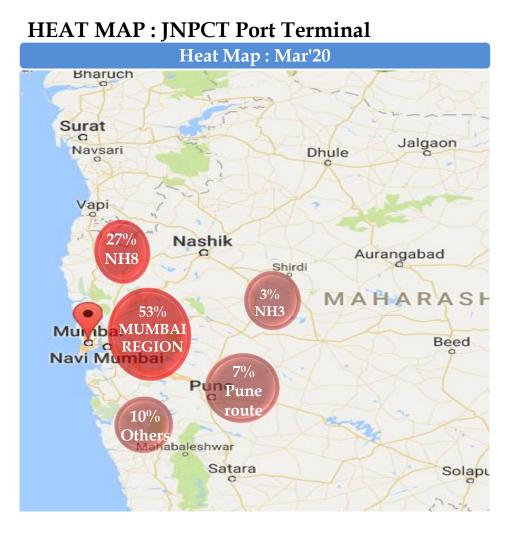
## **JNPT Export cycle Trend**

# ANNEXURE

# Container movement around JNPT Port terminal region via Truck



### **HEAT MAP : GTI Port Terminal**





Region	Feb'20	Mar'20
Mumbai region	57%	57%
NH3	4%	5%
Pune	5%	7%
NH8	23%	20%
others	10%	10%

The heat map above depicts	Reg
the movement of containers in and around the Mumbai	Mur
region.	reg
0	NI
	Pu
	NI
	oth

epicts	Region	Feb'20	Mar'20
ainers mbai	Mumbai region	52%	53%
	NH3	3%	3%
	Pune	5%	7%
	NH8	31%	27%
	others	10%	10%

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

Region	Feb'20	Mar'20
Mumbai region	50%	61%
NH3	4%	4%
Pune	8%	7%
NH8	28%	18%
others	10%	10%

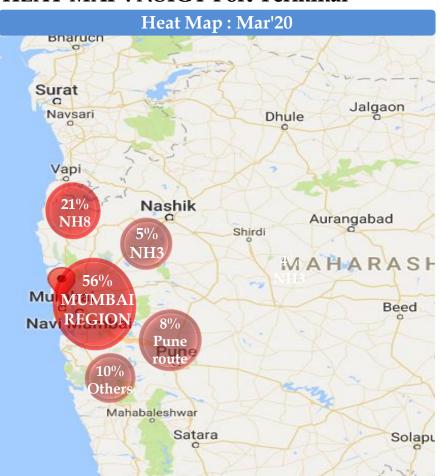


# **HEAT MAP : NSICT Port Terminal**



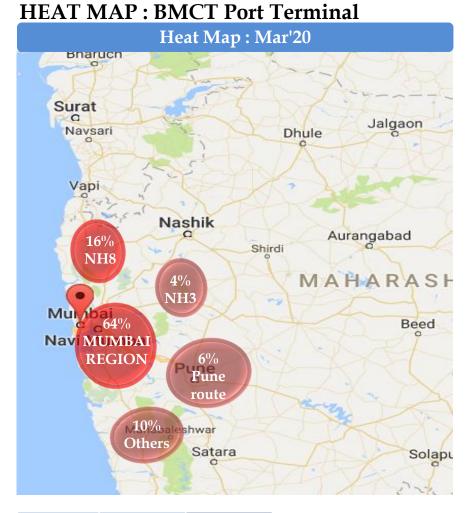
The heat map above depicts the movement of containers in and around the Mumbai region.

# Container movement around JNPT Port terminal region via Truck



Region	Feb'20	Mar'20
Mumbai region	53%	56%
NH3	5%	5%
Pune	7%	8%
NH8	25%	21%
others	10%	10%

### **HEAT MAP : NSIGT Port Terminal**



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

Region	Feb'20	Mar'20
Mumbai region	62%	64%
NH3	2%	4%
Pune	5%	6%
NH8	20%	16%
others	10%	10%

region.



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

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

For Mar'20 CFS Out Port in (Export Cycle in Hrs)					
					CFS
Gateway Distriparks CFS, Navi Mumbai	2.4	4.1	2.0	2.4	2.
Punjab Conware CFS, Navi Mumbai	2.7	4.0	2.3	2.4	2.
JWC Logistics Park CFS	2.8	5.3	4.4	3.9	4.
CWC Hind Terminal CFS, Navi Mumbai	4.1	2.7	2.8	2.9	2.
Dronogiri Rail Terminal CFS, Navi Mumbai	3.1	5.9	2.6	3.5	4.
Navkar Corporation Yard 2 CFS, Panvel	6.6	6.1	8.5	6.3	6.
Vaishno Logistics CFS, Navi Mumbai	2.4	3.5	2.1	2.5	2.
Speedy Multimode CFS, JNPT	2.3	4.5	2.5	2.5	2.
Balmer & Lawrie CFS, Navi Mumbai	3.0	5.2	2.3	2.6	2.
Navkar Corporation Yard 3 CFS, Panvel	4.9	5.9	5.6	4.2	5.
Ashte Logistics CFS, Panvel	5.7	7.7	3.4	7.9	4.
Continental Warehousing CFS, Navi Mumbai	1.6	4.5	1.7	2.3	2.
SBW Logistics CFS, Navi Mumbai	-	11.7	8.3	13.4	9.
Maharashtra State Corp CFS	2.6	3.3	2.6	3.0	1.
Internation Cargo Terminal CFS	1.8	4.8	4.5	2.1	3.
Seabird CFS, Navi Mumbai	2.1	3.2	1.7	1.8	2.
Apollo Logisolutions CFS, Panvel	3.3	5.8	4.2	5.5	3.
Ameya Logistics CFS, Navi Mumbai	3.6	4.3	2.4	2.8	3.
Transindia Logistics Park, Navi Mumbai	2.2	3.3	3.1	2.8	3.
Ocean Gate CFS, Panvel	3.9	5.3	4.2	3.5	3.
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.7	4.4	3.1	3.8	2.
Indev Logistics CFS, Panvel	3.4	4.1	4.3	3.8	2.
APM (Maersk India) CFS, Navi Mumbai	1.3	3.5	2.2	1.8	3.



## ЛСТ 2.3 2.8 4.1 2.1 4.5 6.3 2.4 2.3 2.0 5.4 4.3 2.0 9.5 1.7 3.4 2.3 3.7 3.3 3.5 3.2 2.3 2.9 3.4

# 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'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.4
APM (Maersk India) CFS, Navi Mumbai	2.3
Internation Cargo Terminal CFS	2.2
Ameya Logistics CFS, Navi Mumbai	2.1
Transindia Logistics Park, Navi Mumbai	2.7
Indev Logistics CFS, Panvel	3.7
Navkar Corporation Yard 3 CFS, Panvel	3.9
Seabird CFS, Navi Mumbai	2.7
Balmer & Lawrie CFS, Navi Mumbai	2.1
Ashte Logistics CFS, Panvel	2.8
Continental Warehousing CFS, Navi Mumbai	1.6
CWC Hind Terminal CFS, Navi Mumbai	2.0
Dronogiri Rail Terminal CFS, Navi Mumbai	2.9
Navkar Corporation Yard 1 CFS, Panvel	4.1
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0
Maersk Annex (APM)CFS, Navi Mumbai	2.7
Speedy Multimode CFS, JNPT	2.6
Apollo Logisolutions CFS, Panvel	4.0
Navkar Corporation Yard 2 CFS, Panvel	3.8
Punjab Conware CFS, Navi Mumbai	2.2
Vaishno Logistics CFS, Navi Mumbai	2.4
JWC Logistics Park CFS	3.1
SBW Logistics CFS, Navi Mumbai	3.8
Ocean Gate CFS, Panvel	2.9
Maharashtra State Corp CFS	2.4

# **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'20 (in hrs)		
Gateway Distriparks CFS, Navi Mumbai	2.3		
APM (Maersk India) CFS, Navi Mumbai	1.8		
Internation Cargo Terminal CFS	2.0		
Ameya Logistics CFS, Navi Mumbai	1.9		
Transindia Logistics Park, Navi Mumbai	2.6		
Indev Logistics CFS, Panvel	4.2		
Navkar Corporation Yard 3 CFS, Panvel	3.3		
Seabird CFS, Navi Mumbai	2.2		
Balmer & Lawrie CFS, Navi Mumbai	1.5		
Ashte Logistics CFS, Panvel	2.4		
Continental Warehousing CFS, Navi Mumbai	1.3		
CWC Hind Terminal CFS, Navi Mumbai	1.7		
Dronogiri Rail Terminal CFS, Navi Mumbai	20.1		
Navkar Corporation Yard 1 CFS, Panvel	4.7		
International Cargo Terminals (ULA) CFS, Navi Mumbai	2.0		
Maersk Annex (APM)CFS, Navi Mumbai	2.7		
Speedy Multimode CFS, JNPT	1.8		
Apollo Logisolutions CFS, Panvel	4.9		
Navkar Corporation Yard 2 CFS, Panvel	3.4		
Punjab Conware CFS, Navi Mumbai	1.9		
Vaishno Logistics CFS, Navi Mumbai	2.2		
JWC Logistics Park CFS	2.6		
SBW Logistics CFS, Navi Mumbai	4.1		
Ocean Gate CFS, Panvel	2.8		
Maharashtra State Corp CFS	2.6		



# CFS DELIVERY TIME ANALYSIS

### 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'20 (in hrs)		
Gateway Distriparks CFS, Navi Mumbai	2.4		
APM (Maersk India) CFS, Navi Mumbai	2.0		
Internation Cargo Terminal CFS	2.0		
Ameya Logistics CFS, Navi Mumbai	1.8		
Transindia Logistics Park, Navi Mumbai	2.9		
Indev Logistics CFS, Panvel	4.4		
Navkar Corporation Yard 3 CFS, Panvel	11.8		
Seabird CFS, Navi Mumbai	2.0		
Balmer & Lawrie CFS, Navi Mumbai	1.8		
Ashte Logistics CFS, Panvel	2.6		
Continental Warehousing CFS, Navi Mumbai	1.4		
CWC Hind Terminal CFS, Navi Mumbai	1.7		
Dronogiri Rail Terminal CFS, Navi Mumbai	5.8		
Navkar Corporation Yard 1 CFS, Panvel	3.5		
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9		
Maersk Annex (APM)CFS, Navi Mumbai	2.6		
Speedy Multimode CFS, JNPT	1.8		
Apollo Logisolutions CFS, Panvel	4.4		
Navkar Corporation Yard 2 CFS, Panvel	3.8		
Punjab Conware CFS, Navi Mumbai	2.7		
Vaishno Logistics CFS, Navi Mumbai	3.0		
JWC Logistics Park CFS	3.4		
SBW Logistics CFS, Navi Mumbai	9.1		
Ocean Gate CFS, Panvel	3.0		
Maharashtra State Corp CFS	9.3		

### 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'20 (in hrs)
Gateway Distriparks CFS, Navi Mumbai	2.6
APM (Maersk India) CFS, Navi Mumbai	2.0
Internation Cargo Terminal CFS	2.1
Ameya Logistics CFS, Navi Mumbai	1.8
Transindia Logistics Park, Navi Mumbai	2.4
Indev Logistics CFS, Panvel	4.0
Navkar Corporation Yard 3 CFS, Panvel	3.8
Seabird CFS, Navi Mumbai	2.0
Balmer & Lawrie CFS, Navi Mumbai	2.3
Ashte Logistics CFS, Panvel	2.5
Continental Warehousing CFS, Navi Mumbai	1.3
CWC Hind Terminal CFS, Navi Mumbai	1.8
Dronogiri Rail Terminal CFS, Navi Mumbai	1.5
Navkar Corporation Yard 1 CFS, Panvel	4.0
International Cargo Terminals (ULA) CFS, Navi Mumbai	1.9
Maersk Annex (APM)CFS, Navi Mumbai	2.8
Speedy Multimode CFS, JNPT	2.0
Apollo Logisolutions CFS, Panvel	3.7
Navkar Corporation Yard 2 CFS, Panvel	6.8
Punjab Conware CFS, Navi Mumbai	1.9
Vaishno Logistics CFS, Navi Mumbai	2.0
JWC Logistics Park CFS	3.2
SBW Logistics CFS, Navi Mumbai	4.5
Ocean Gate CFS, Panvel	2.6
Maharashtra State Corp CFS	22.8

### CFS - AVERAGE DELIVERY TIME - BMCT TO ALL CFS's IN MUMBAI

Below table shows the a to all the CFS's **AVERAGE DELIVE** 

Gateway Distriparks C APM (Maersk India) C Internation Cargo Terr Ameya Logistics CFS, Transindia Logistics Pa Indev Logistics CFS, Pa Navkar Corporation Y Seabird CFS, Navi Mur Balmer & Lawrie CFS, Ashte Logistics CFS, P. **Continental Warehous** CWC Hind Terminal C Dronogiri Rail Termina Navkar Corporation Y International Cargo Te Mumbai Maersk Annex (APM)

Maersk Annex (APM)C Speedy Multimode CFS Apollo Logisolutions C Navkar Corporation Ya Punjab Conware CFS, I Vaishno Logistics CFS, JWC Logistics Park CFS SBW Logistics CFS, Na Ocean Gate CFS, Panve Maharashtra State Corp



Below table shows the average delivery time in import cycle from BMCT

RY TIME ( In Hrs )- BMCT TO ALL CFS IN MUMBAI				
CFS	Mar'20 (in hrs)			
CFS, Navi Mumbai	2.3			
CFS, Navi Mumbai	1.8			
minal CFS	1.9			
Navi Mumbai	1.7			
ark, Navi Mumbai	2.4			
anvel	3.4			
ard 3 CFS, Panvel	2.9			
imbai	1.8			
, Navi Mumbai	2.1			
anvel	2.4			
sing CFS, Navi Mumbai	1.5			
CFS, Navi Mumbai	1.7			
al CFS, Navi Mumbai	1.7			
ard 1 CFS, Panvel	3.2			
erminals (ULA) CFS, Navi	2.1			
CFS, Navi Mumbai	2.5			
FS, JNPT	2.9			
CFS, Panvel	3.4			
ard 2 CFS, Panvel	4.8			
Navi Mumbai	2.1			
, Navi Mumbai	1.6			
FS	2.2			
avi Mumbai	6.3			
rel	2.7			
rp CFS	20.0			

Base on container movement from port to CFS in Mumbai region, All the 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 and JNPCT terminal

GTI terminal for month of Mar'20					
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	2.6	4.5	
Cluster 2	6	13	2.2	4.3	
Cluster 3	6	11	2.6	3.7	
Cluster 4	1	13	2.4	3.5	
Cluster 5	2	25	3.0	5.3	
Cluster 6	6	25	3.9	5.9	
Cluster 7	4	12	2.1	4.3	
Cluster 8	1	34	3.8	11.7	

### **CFS Cluster : GTI Terminal**

### **CFS Cluster : JNPCT Terminal**

JNPCT terminal for month of Mar					
Clusters	No. of CFS's in Cluster	Distance from Port (Km)	Import cycle time (in Hrs)		
Cluster 1	1	8	1.8		
Cluster 2	6	13	2.0		
Cluster 3	6	11	2.4		
Cluster 4	1	13	2.2		
Cluster 5	2	25	2.7		
Cluster 6	6	25	3.8		
Cluster 7	4	12	1.9		
Cluster 8	1	34	4.1		

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



20			
	Export cycle time (in Hrs)		
	2.3		
	2.6		
	2.7		
	2.4		
	3.4		
	4.9		
	2.2		
	-		

# JNPT Region : Cluster Analysis

Base on container movement from port to CFS in Mumbai region, All the 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 NSICT, NSIGT and BMCT terminal

### **CFS Cluster : NSICT Terminal**

#### **JNPCT terminal for month of Mar'20** GTI terminal for month of Mar'20 Distance Import Import No. c No. of Export No. of Distance Export cycle from cycle CFS's in Clusters CFS's CFS's in cycle time Clusters cycle time Clusters from Port time (in Port time (in Cluste Cluster (in Hrs) Cluster (Km) (in Hrs) (Km) Hrs) Hrs) Cluster 1 1 Cluster 1 1 8 1.8 2.5 Cluster 1 8 2.0 2.5 1 Cluster 2 Cluster 2 6 13 2.0 2.6 Cluster 2 6 13 2.1 2.5 6 Cluster 3 11 2.5 Cluster 3 11 6 4.2 6 2.0 2.7 Cluster 3 6 Cluster 4 13 0.0 1 3.0 Cluster 4 13 2.0 2.5 Cluster 4 1 1 Cluster 5 25 4.3 Cluster 5 2 3.2 25 2.9 3.7 2 Cluster 5 2 Cluster 6 25 4.3 4.1 Cluster 6 25 3.9 6 6 5.5 Cluster 6 6 Cluster 7 12 1.8 2.4 Cluster 7 12 1.8 2.8 4 4 Cluster 7 4 Cluster 8 1 34 9.1 8.3 Cluster 8 34 4.5 1 13.4 Cluster 8 1

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**

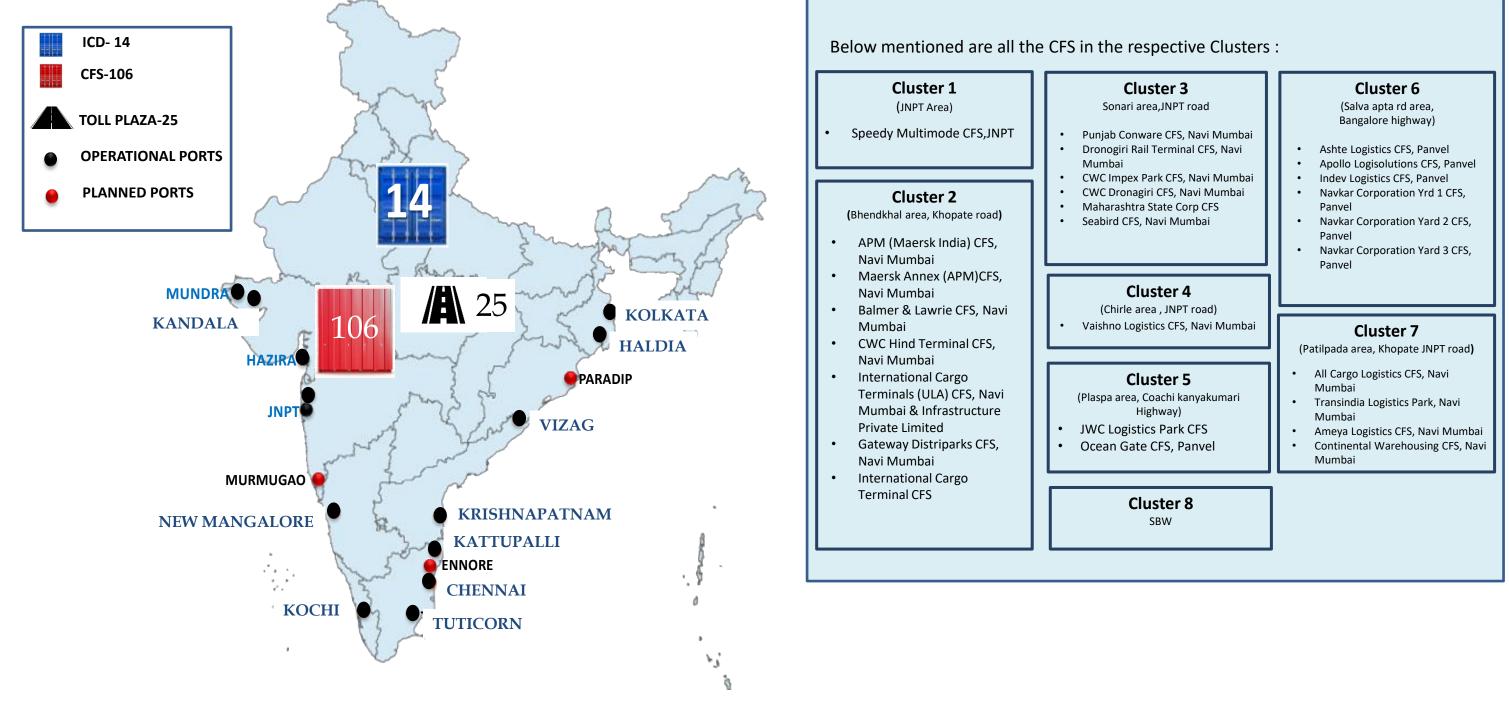


### **CFS Cluster : BMCT Terminal**

**JNPCT terminal for month of Mar'20** 

of in er	Distance from Port (Km)	Import cycle time (in Hrs)	Export cycle time (in Hrs)
	8	2.9	2.3
	13	2.1	2.3
	11	2.0	2.5
	13	1.6	2.4
	25	2.4	3.6
	25	3.3	4.3
	12	1.7	3.3
	34	6.3	9.5

# LDB Operations Snapshot





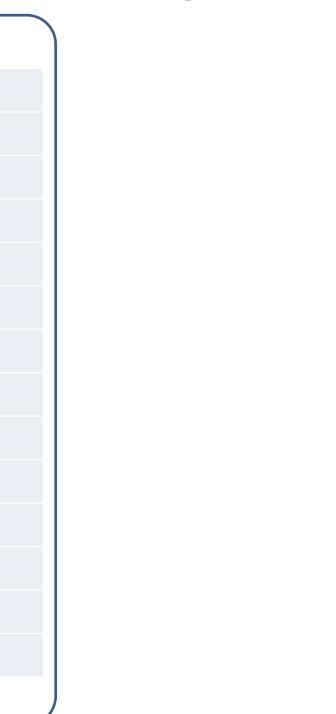
# Annexure – JNPT Region CFS

# List of CFS name used in CFS Performance Index

- 1 AllCargo Logistics
- 2 Ameya Logistics CFS, Navi Mumbai
- 3 APM (Maersk India) CFS, Navi Mumbai
- 4 Apollo Logisolutions CFS, Panvel
- 5 Ashte Logistics CFS, Panvel
- 6 Balmer & Lawrie CFS, Navi Mumbai
- 7 Continental Warehousing CFS, Navi Mumbai
- 8 CWC Hind Terminal CFS, Navi Mumbai
- 9 Dronagiri Rail Terminal CFS, Navi Mumbai
- 10 EFC Logistics India
- 11 Gateway Distriparks CFS, Navi Mumbai
- 12 Indev Logistics CFS, Panvel
- 13 International Cargo Terminal CFS
- 14 International Cargo Terminals (ULA) CFS, Navi Mumbai
- 15 JWC Logistics Park CFS

- 16 JWR CFS
- 17 Maersk Annex (APM)CFS, Navi Mumbai
- 18 Maharashtra State Corp CFS
- 19 Navkar Corporation Yard 1 CFS, Panvel
- 20 Navkar Corporation Yard 2 CFS, Panvel
- 21 Navkar Corporation Yard 3 CFS, Panvel
- 22 Ocean Gate CFS, Panvel
- 23 Punjab Conware CFS, Navi Mumbai
- 24 Sarveshwar CFS
- 25 Seabird CFS, Navi Mumbai
- 26 Speedy Multimode CFS, JNPT
- 27 Take Care Logistics CFS
- 28 TG Terminals CFS
- 29 Vaishno Logistics CFS, Navi Mumbai







# THANK YOU

