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LDB ANALYTICS : June Report for JNPT 2018

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EXECUTIVE SUMMARY

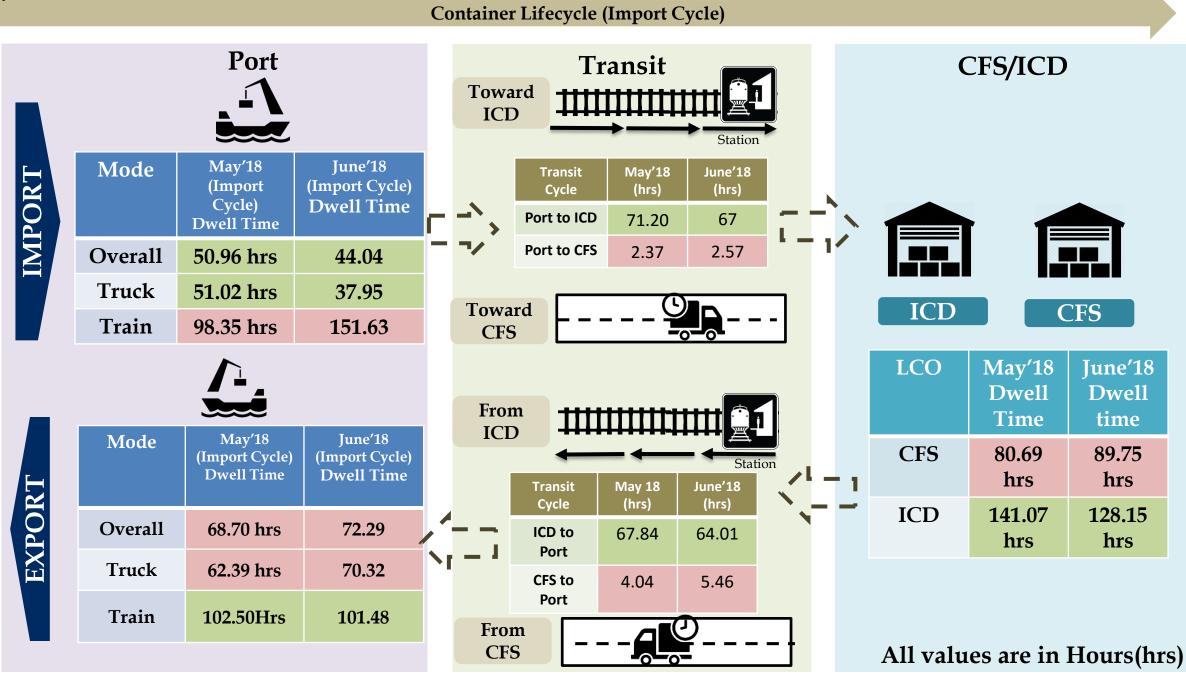


- Tariff Authority at Major Ports (TAMP), has authorized the Mandatory User Charge on all the EXIM Containers for extending the LDB services across all the Major port terminals of India.
- Site Survey & Implementation and Port operator agreement discussions have been initiated across all the Major port terminals to implement the LDB project across Pan India.
- LDB completed more than one year of operations at Mundra and Hazira Ports. The operational efficiencies have been highlighted in this month report.
- Overall Import cycle dwell time of JNPT showcased an improvement of 15% for the month of June'18 in comparison to the previous month. Dwell time of Truck bound containers which improved by 34% in Jun 18 contributed to the same.
- More than 50% of **Train bound Import containers** at JNPT are taking greater than 5 days for clearance resulting in higher Dwell Time.
- Export dwell time of JNPT region saw a dip of 5% in June'18 in comparison to the earlier month.
- Gate Terminals of India in JNPT continued its Dwell Time performance and is ranked as the top performing terminal across Western corridor.

Container Movement around JNPT region



The below figure depicts the container supply chain along with the time taken at various points in the month of June'18



Container Lifecycle (Export Cycle)

The marked entries showcase the increase in performance as compare to previous month

The marked entries showcase the decrease in performance as compare to previous month

Export/Import Cycle Container Movement around JNPT region



			D1/1000 1 00		
	IMPORT CYCLE DWELL TIME (June'18)		Compared previous m		
	Overall Dwell Time of Truck and Train Bound Containers	44.04 hrs	14%		
	Port Dwell Time for Train Bound Containers	151.63 hrs	54%		
PORT DWELL	Port Dwell time for Truck Bound Containers	37.95 hrs	26%		
TIME	Port Dwell time Direct Port Delivery containers	56.5 hrs	10%		
	Port Dwell time Containers bounds for CFS	35.5 hrs	1 E 0/		
	Port Dwell time Containers bounds for ICD	104.8 hrs	15%		
TRANSIT TIME	Port to ICD	67.00 hrs	6%		
IKANSII IIVIE	Port to CFS	2.57 hrs	8%		
LCO DWELL	CFS Dwell Time	79.84 hrs	1%		
TIME	ICD Dwell Time	128.15 hrs	9 %		
EXPORT CYCLE DWELL TIME (June'18)					
	Overall Dwell Time of Truck and Train Bound Containers	72.29 hrs	4 %		
			- / 0		
	Port Dwell Time for Train Bound Containers	101.48 hrs	2%		
PORT DWELL	Port Dwell Time for Train Bound Containers Port Dwell time for Truck Bound Containers	101.48 hrs 70.32 hrs	2%		
PORT DWELL TIME	·				
	Port Dwell time for Truck Bound Containers	70.32 hrs	2% 6% 12%		
	Port Dwell time for Truck Bound Containers Port Dwell time Direct Port Export containers	70.32 hrs 72 hrs	2% 6%		
TIME	Port Dwell time for Truck Bound Containers Port Dwell time Direct Port Export containers Port Dwell time Containers bounds for CFS	70.32 hrs 72 hrs 67.5 hrs	2% 6% 12%		
	Port Dwell time for Truck Bound Containers Port Dwell time Direct Port Export containers Port Dwell time Containers bounds for CFS Port Dwell time Containers bounds for ICD	70.32 hrs 72 hrs 67.5 hrs 106.9 hrs	2% 6% 12% 3%		
TIME	Port Dwell time for Truck Bound Containers Port Dwell time Direct Port Export containers Port Dwell time Containers bounds for CFS Port Dwell time Containers bounds for ICD ICD To Port	70.32 hrs 72 hrs 67.5 hrs 106.9 hrs 64. 01 hrs	2% 6% 12% 3% 6%		

JNPT region Port Performance



4% 👢

The below tables depicts the detailed JNPT region port performance in the month of June'18

		Port	Port Dw	7			
H	IMOUKI	June'18	Direct Port Delivery containers	Containers bounds for CFS	Containers bounds for ICD	June'18	
	IMI	Volume	15 %	80%	5%	Volume	
		Dwell time	56.5 hrs	35.5 hrs	104.8 hrs	Dwell time	

Port Dwell time based on container type					
June'18	Laden Containers	Empty Containers			
Volume	76%	24%			

17% 👢

57.8 hrs

42.8 hrs

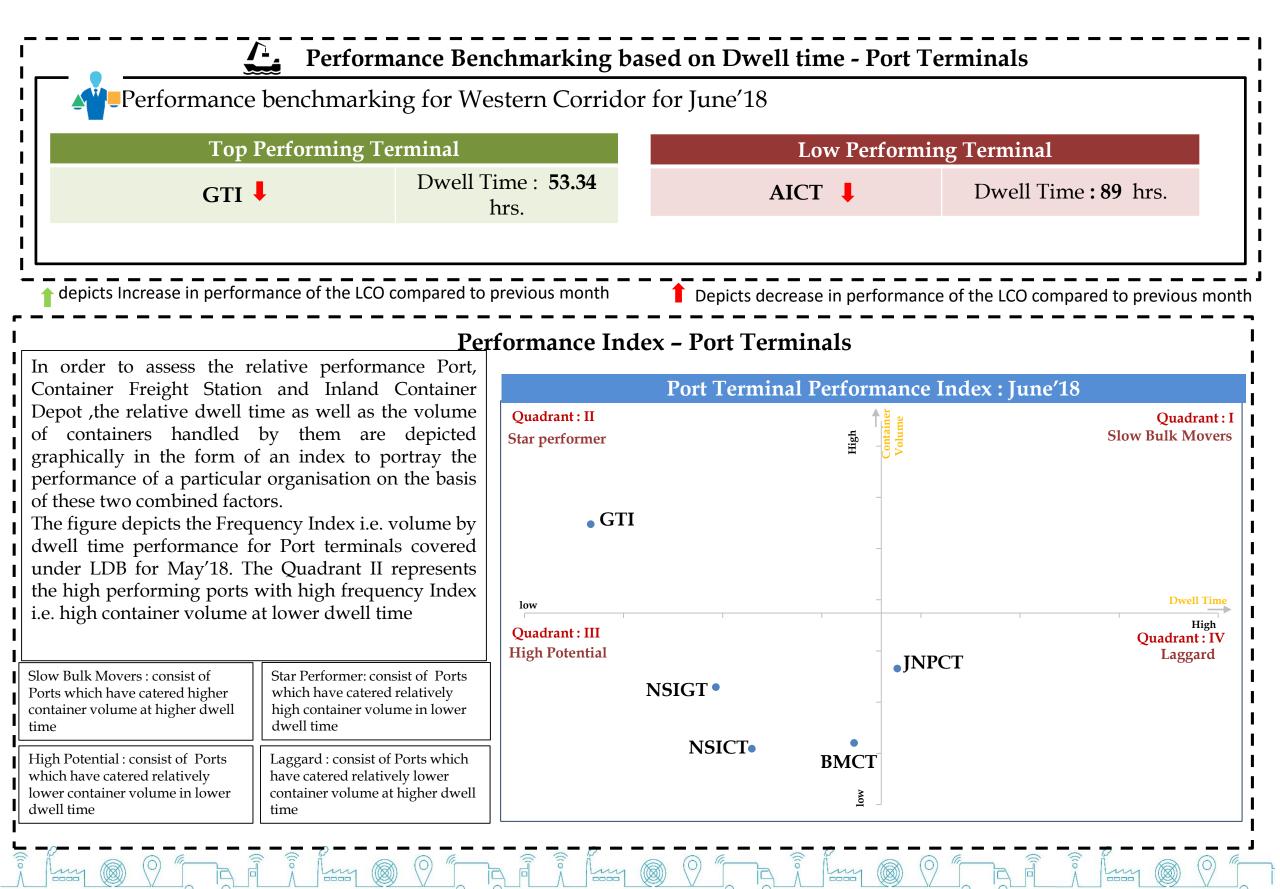
	Port Dwell time based on transit type							
ORT	June'18	Direct Port Export Containers	Containers bounds for CFS	Containers bounds for ICD				
IXE	Volume	83%	16%	1%				
	Dwell time	72 hrs	67.5 hrs	106.9 hrs				

Port Dwell time based on container type					
June'18	Laden Containers		Empty Containers		
Volume	80%		20%		
Dwell time	72.2 hrs	7% 🕇	72.6 hrs	2% 🖡	

Depicts increase in performance of the LCO compared to previous month

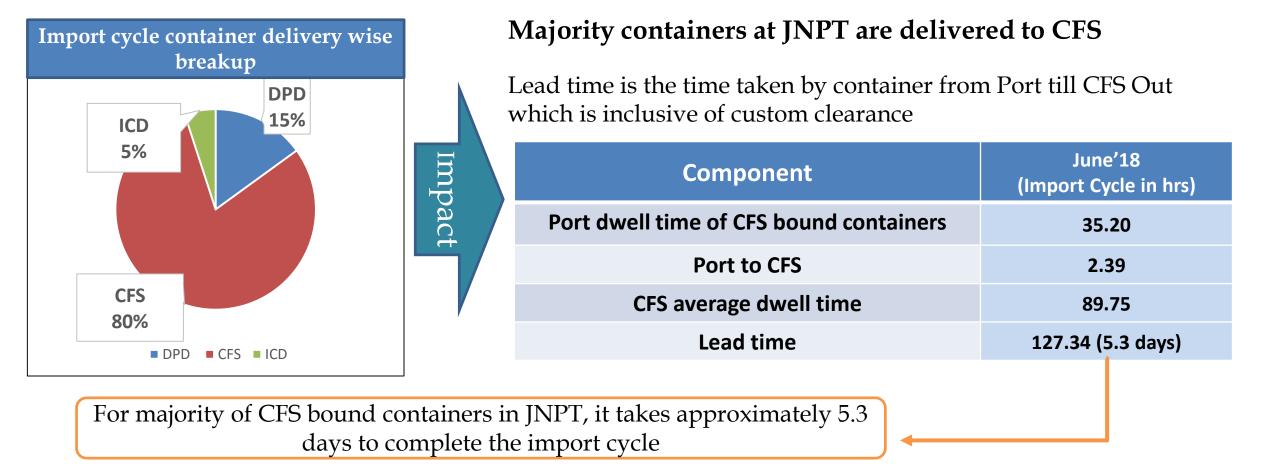
Depicts decrease in performance of the LCO compared to previous month

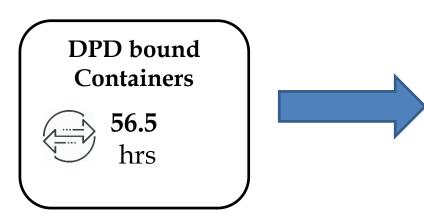






The below slide depicts the analysis on the import cycle lead time for container





DPD bound containers take around 56.5 hrs which is half the time taken by containers bounded for CFS

Through increase in DPD container volume the extra time (i.e. 2.9 days) can be saved in Container import cycle

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SECTION II: LDB ANALYTICS





Import Cycle Analysis



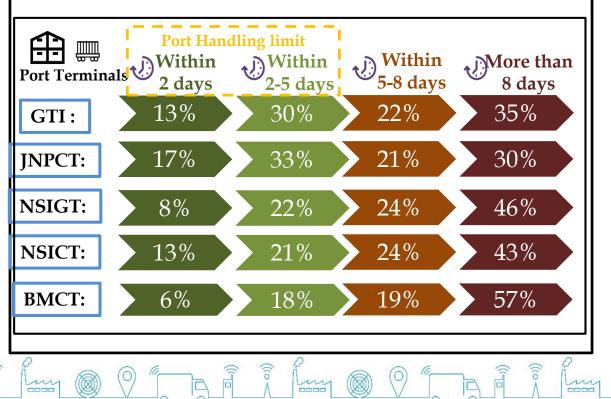
Port performance Import Cycle : JNPT region

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	May'18	June'18
GTI	82.91	135.1
JNPCT	77.98	120.8
NSIGT	114.91	182.5
NSICT	113.78	176.8
ВМСТ	-	211.9

PORT IMPORT via TRAIN

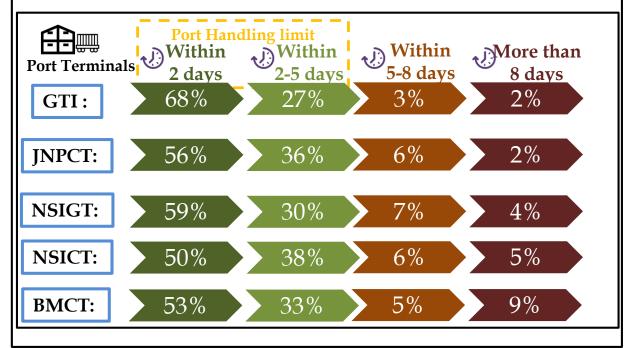


PORT IMPORT via TRUCK

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	May'18	June'18
GTI	40.18	32.6
JNPCT	50.80	42.4
NSICT	51.23	39.0
NSIGT	53.83	47.8
BMCT	61.13	45.7
DO	DT IMDODT	TDUCK

PORT IMPORT via TRUCK





The below tables depicts the detailed JNPT region port performance in the month of June'18

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JNPCT						
Port D	well time bas	sed on t	ansit type			
June'18	Direct Port Delivery containers	elivery rs rs				
Volum e	1161	11314	928			
Dwell time (in hrs)	40.2	40.1	82.6			
Port D	well time base	ed on con	itainer type			
June18		Laden Empty Containers Containers				
Volume	2544	25445 3702				
Dwell time	45.6	45.60 54.76				

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GTI							
Port Dw	Port Dwell time based on transit type						
June'18	PortrsrsDeliveryboundsboun		Containe rs bounds for ICD				
Volume	3278	3278 18454 1546					
Dwell time	53.6	53.6 31.6 105					
Port Dwe	Port Dwell time based on container type						
June'18		Laden Empty Containers Containers					
Volume	55851 3537						
Dwell time	38.42 42.02						

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The below tables depicts the detailed JNPT region port performance in the month of June'18

NSICT					NSI	GT][]	ВМСТ			
Port Dwell time based on transit typePort Dwell time based on transit typePort Dwell time based on type					n transit							
June' 18	Direct Port Delivery container s	Containe rs bounds for CFS	ners bound	June'1 8	Direct Port Delivery containers	Contain ers bounds for CFS	ers 5 bounds	June'1 8	Direct Port Delivery containers	Contair ers bounds for CFS	ers bounds	
Volu me	692	2981	152	Volum e	6246	8899	380	Volum e	655	4318	-	
Dwel 1 time	71.5	43.4	98.8	Dwell time	71.7	33.7	173.3	Dwell time	57.7	40.6	-	
Port Dwell time based on container type				Port I	Dwell time ba typ		ontainer	Port I	Owell time ba typ		ontainer	
June':		den ainers (Empty Containers	June'	18 Lade Contair		Empty Container s	June'1	8 Lade Contair		Empty ontainers	
Volum	ne ₈₀	27	552	Volun	ne 2353	9	2524	Volum	e 9916		946	
Dwell time	53	.89	65.58	Dwell time	45.03	3	81.04	Dwell time	45.81	_	252.72	

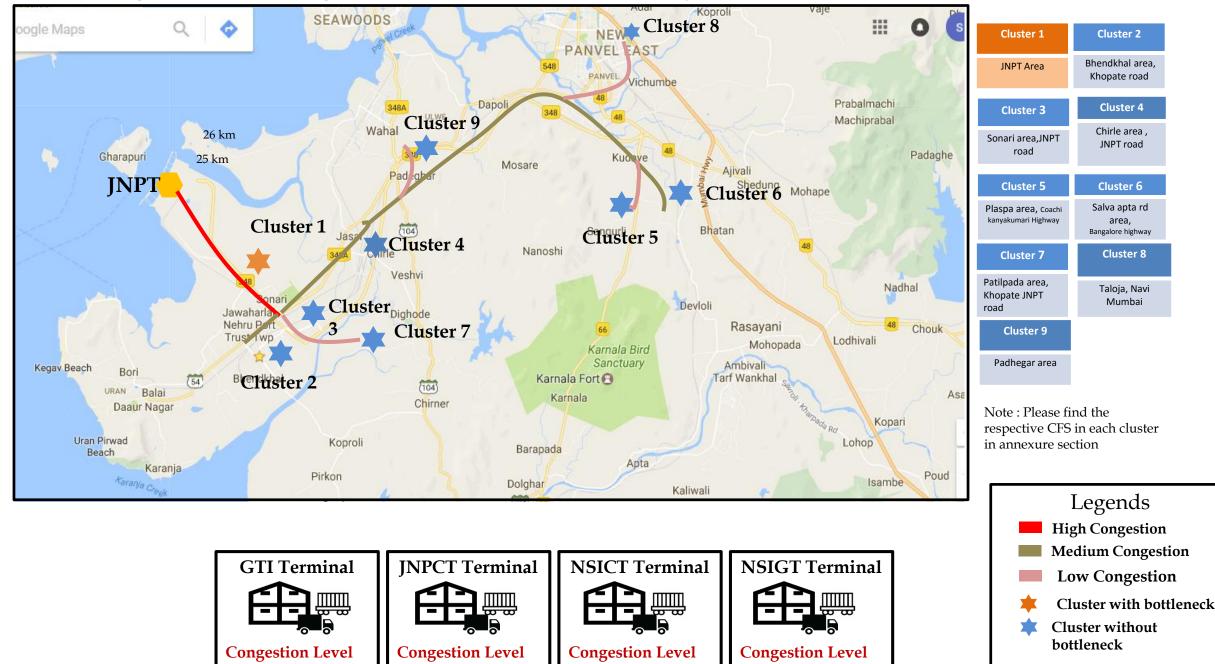
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JNPT TRANSIT TIME: CONGESTION ANALYSIS

Import Cycle :-

The below figure shows the congestion around JNPT port in Import cycle for the month of June'18



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

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Import Cycle :-

Import Cycle :-

Import Cycle :

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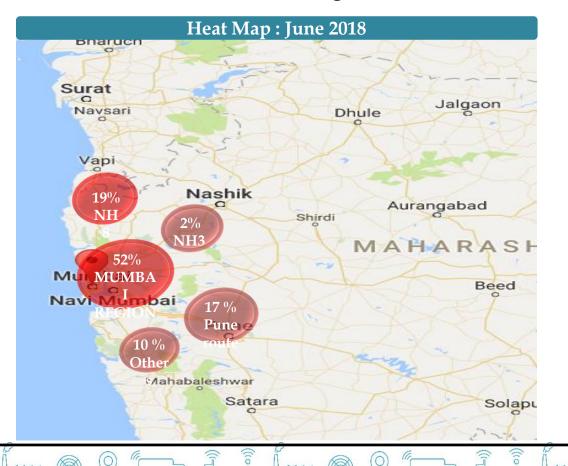
JNPT TRANSIT TIME: Container Movement

Truck

HEAT MAP: OVERALL MUMBAI REGION

Region	Transit Time- June'18
Mumbai Region	52%
NH1	2%
NH3	17%
Pune Route	19%
Others	10%

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

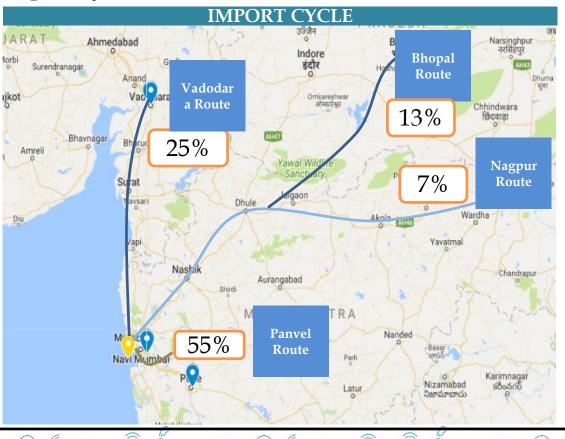


via Train

VOLUME WISE CONTAINER MOVEMENT

Region	Transit Time- June'18
Vadadora Route	25%
Bhopal Route	13%
Nagpur Route	7%
Panvel Route	55%

The map shows the volume wise container movement through different railway routes in import cycle for **June**'18



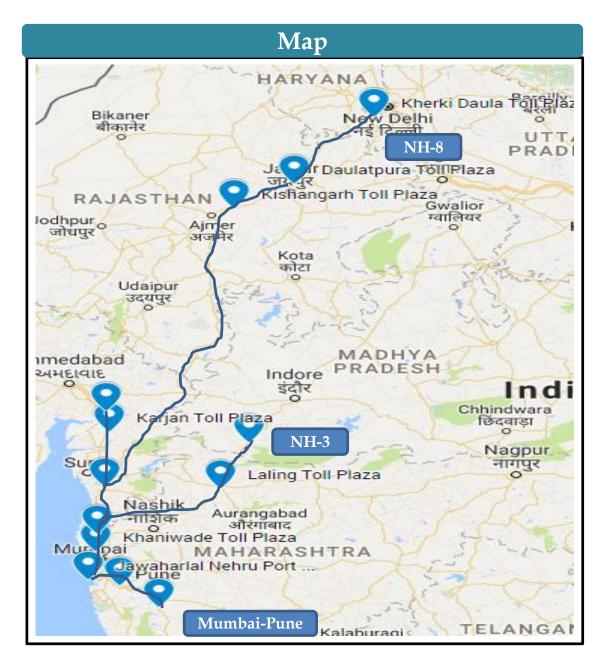




JNPT TRANSIT TIME: Toll Plaza Congestion Analysis

The below table shows all the toll plazas covered under DLDS connected with JNPT

Avg. Travel Time & Speed between Toll Plazas (June'18)							
Source	Destination Toll Plaza	Inter Distanc e (Km)	Avg. Travel Time (Hr)	June'18 Avg. Speed (Km/Hr.)	May'18 Avg. Speed (Km/Hr.)		
JNPT	Khaniwade	94	7.3	11.9	13.3		
JNPT	Khalapur	60	4.1	14.4	18.5		
Khaniwade	Charoti	50	1.30	31.6	24.9		
Charoti	Boriach	126	4.60	14.4	20.3		
Boriach	Bharthan	142	4.30	18.7	31.6		
Bharthan	Vasad	60	1.53	33.1	38.4		
Kishangarh	Daulatpura	128	3.10	36.7	36.7		
Khalapur	Khedshivpur	105	3.7	17.2	28.6		
Daulatpura	Kherki	199	8.8	19.3	24.0		



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Export Cycle Analysis

EXPORT CYCLE



JNPT PORT DWELL TIME ANALYSIS : EXPORT CYCLE

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	May'18	June'18
GTI	95.84	94.29
JNPCT	127.77	107.49
NSIGT	101.31	107.44
NSICT	103.69	118.61
BMCT*	-	-

PORT EXPORT via TRAIN More than Port Handling limit Ĥ..... Port Terminals Within Within 8days 2 days 2-5 davs 5-8 26% 11% 41% 22% GTI: 8% 53% 22% 18% **INPCT:** 13% **NSIGT:** 13% 45% 29% **NSICT:** 12% 39% 29% 20%

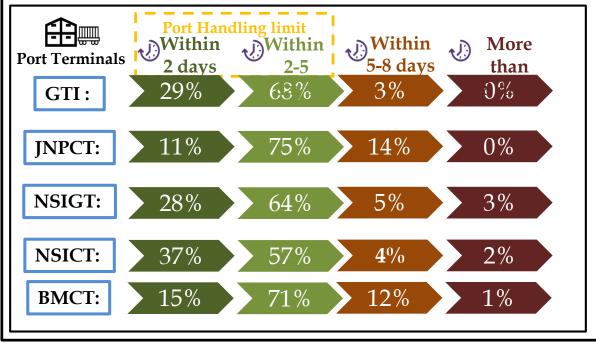
*Note: Rail bound container volume in BMCT is 12 containers (which is 0.05% of total BMCT volume) therefore its not reported here

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	May'18	June'18
GTI	56.25	64.37
JNPCT	82.81	85.39
NSIGT	62.81	67.06
NSICT	61.96	61.47
BMCT	-	78.33

PORT EXPORT via TRUCK



JNPT region Port Performance Export Cycle



The below tables depicts the detailed JNPT region port performance in the month of June'18

JNPCT					
Port Dw	ell time ba	sed on	tra	nsit type	
June'18	Direct Port Export containers	Contai rs bounc for CF	ls	Containe rs bounds for ICD	
Volume	6411	109		21	
Dwell time (in hrs)	83.6	82.3		127.8	
Port Dw	ell time base	ed on co	ntai	iner type	
June'18	Lade Contair		С	Empty ontainers	
Volume	1476	4		9341	
Dwell time (in hrs)	84.6	,		98.6	

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e ll time ba s Direct	sed on	tra	
Direct			nsit type
Port Export containers	ers bounds		Contain ers bounds for ICD
16327	1632		114
68.7	61.5		111
ell time base	ed on co	nta	iner type
		1	
3943	8		10867
68.9)		59.6
	containers 16327 68.7 ell time base Contai 3943	containersfor CF16327163268.761.5	containersfor CFS163271632 68.7 61.5 Claden ContainersCladen Containers39438 61.5

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The below tables depicts the detailed JNPT region port performance in the month of June'18

NSICT					NSIGT				ВМСТ			
Port D	well time typ		n transit	Port Dv	Port Dwell time based on transit type				Port Dwell time based on transit type			
June'18	Direct Port Export container	Contain ers bounds for CFS	ers bounds	June'18	Direct Port Export contain	Contai ers bound for CF	ers s bounds	June' 18	Direct Port Export containers	Contai ners bounds for CFS	Contai ners bounds for ICD	
Volum	s 1888	544	15	Volume	ers 425	977	18	Volu me	-	527	-	
e Dwell time	70.5	52.5	96.1	Dwell time (in hrs)	51.6	61.8	67.2	Dwell time (in hrs)	-	83.6	-	
Port D	well time b tyj		ontainer	Port Dw	ell time b tyj		container	Port D	well time ba typ		ontainer	
June'18	Lade Contai		Empty Containers	June'18	Lade Contai		Empty Containers	June'1	8 Lade Contai		Empty ontainers	
Volume	1342	0	4851	Volume	1997	<i>'</i> 4	1542	Volume	881		3949	
Dwell time	65.6	5	70	Dwell time (in hrs)	70		52	Dwell time (in hrs)	78.8	3	75.8	
	NSICT and NSIGT has not carter to empty containers											

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NSICT and NSIGT has not carter to empty containers

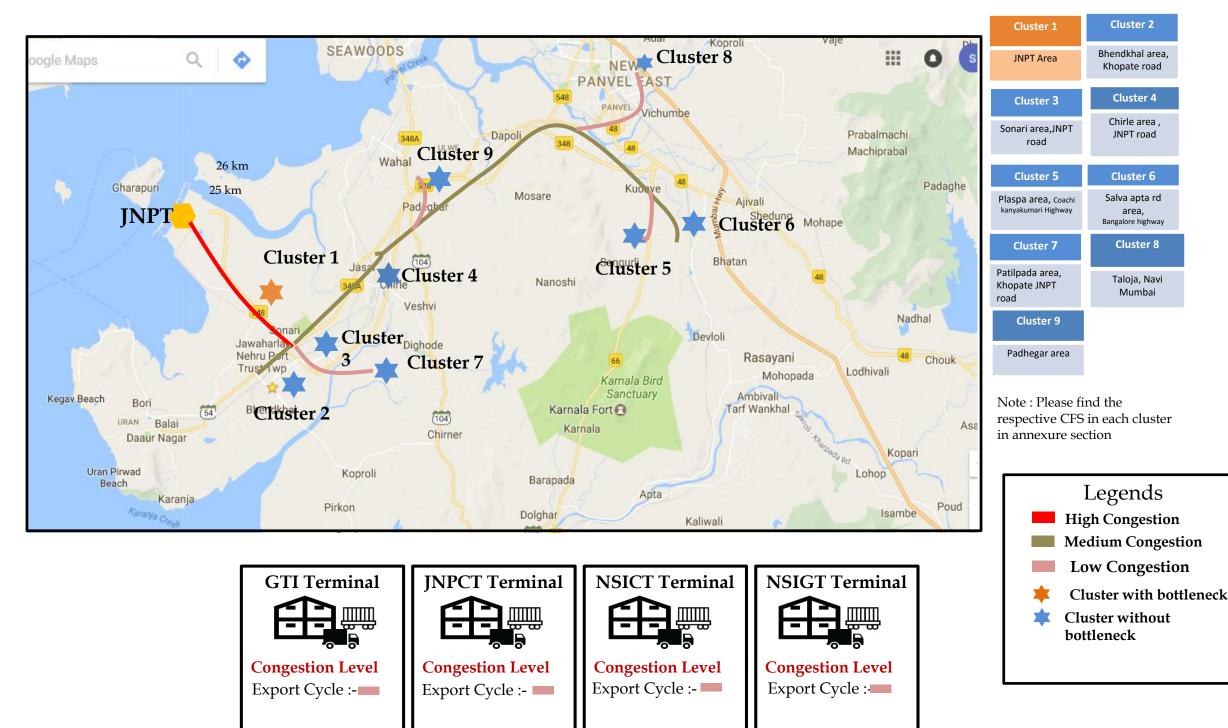
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JNPT REGION : CONGESTION ANALYSIS

Congestion Analysis around Mumbai Region The below figure shows the congestion around JNPT port in Export cycle for month of June'18



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

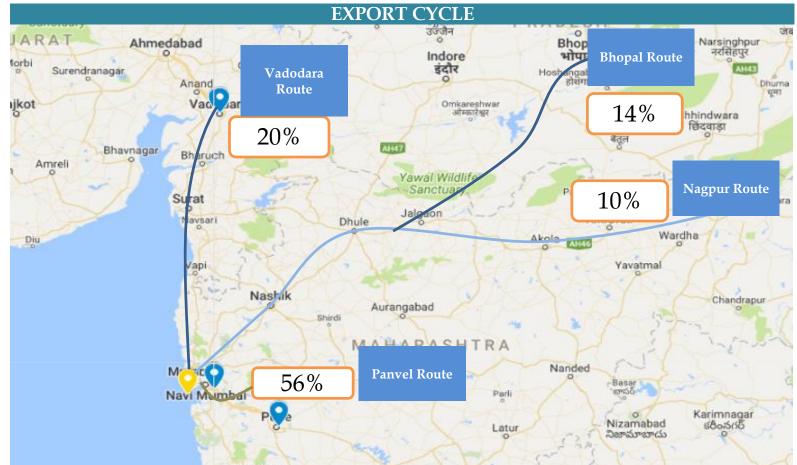
EXPORT CYCLE



Container movement around JNPT Port terminal region via Train

To JNPT Port From						
Route	Percentage of Container Movement					
From Wardha Jn. To JNPT Port (Nagpur Route)	10%					
From Varodhra Jn To JNPT Port (Varodara Route)	20%					
From Panwel Jn To JNPT Port (Panwel Route)	56%					
From Jalgaon Jn To JNPT Port (Bhopal Route)	14%					

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

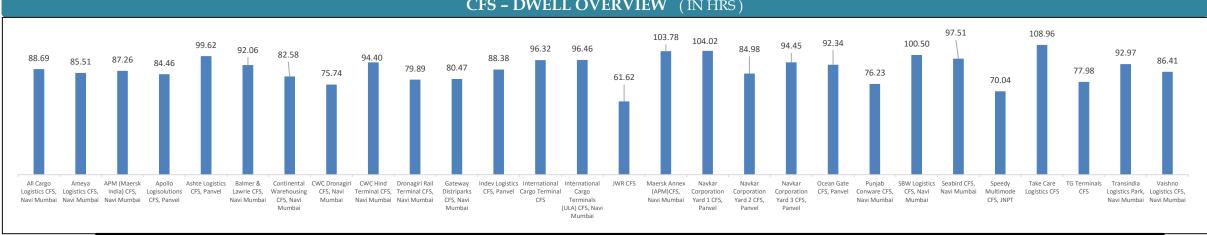




CFS and ICD Performance

JNPT region CFS : CFS DWELL TIME ANALYSIS Below table shows the dwell time for the respective CFS's .

CFS Dwell Time (in hrs)							
CFS	May'18	June'18	CFS	May'18	June'18		
All Cargo Logistics CFS, Navi Mumbai	70.85	88.69	JWR CFS	56.15	61.62		
Ameya Logistics CFS, Navi Mumbai	73.82	85.51	, Maersk Annex (APM)CFS, Navi Mumbai	99.00	103.78		
APM (Maersk India) CFS, Navi Mumbai	93.22	87.26	Navkar Corporation Yard 1 CFS, Panvel	-	104.02		
Apollo Logisolutions CFS, Panvel	79.08	84.46	Navkar Corporation Yard 2 CFS, Panvel	63.97	84.98		
Ashte Logistics CFS, Panvel	-	99.62	Navkar Corporation Yard 3 CFS, Panvel	89.24	94.45		
Balmer & Lawrie CFS, Navi Mumbai	76.88	92.06	Ocean Gate CFS, Panvel	75.78	92.34		
Continental Warehousing CFS, Navi Mumbai	73.47	82.58	Punjab Conware CFS, Navi Mumbai	75.78	76.23		
CWC Dronagiri CFS, Navi Mumbai	-	75.74	SBW Logistics CFS, Navi Mumbai	-	100.50		
CWC Hind Terminal CFS, Navi Mumbai	76.59	94.40	Seabird CFS, Navi Mumbai	94.94	97.51		
Dronagiri Rail Terminal CFS, Navi Mumbai	-	79.89	Speedy Multimode CFS, JNPT	-	70.04		
Gateway Distriparks CFS, Navi Mumbai	63.65	80.47	Take Care Logistics CFS	134.65	108.96		
Indev Logistics CFS, Panvel	87.79	88.38	TG Terminals CFS	64.60	77.98		
International Cargo Terminal CFS	-	96.32	Transindia Logistics Park, Navi Mumbai	80.69	92.97		
International Cargo Terminals (ULA) CFS, Navi Mumbai	-	96.46	Vaishno Logistics CFS, Navi Mumbai	85.67	86.41		



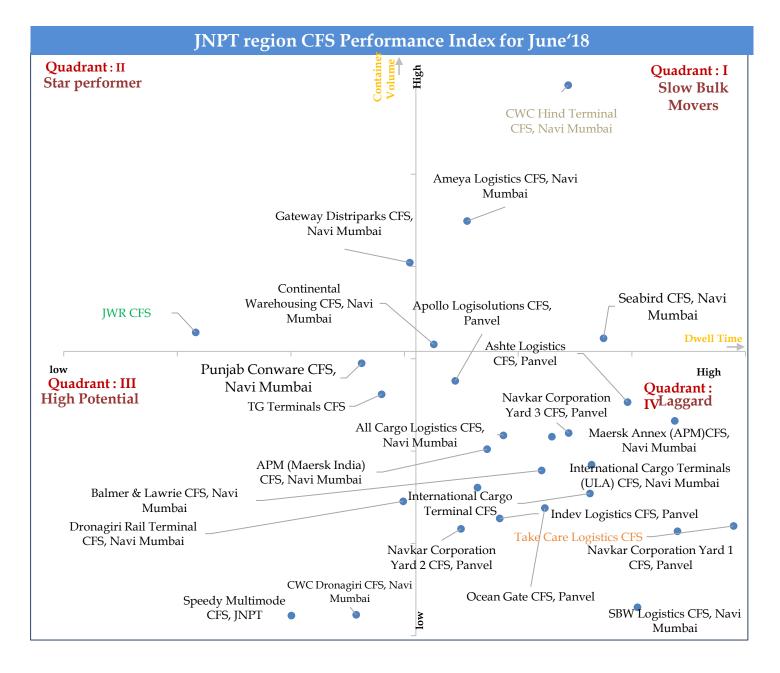
Top Performing CFS Low Performing CFS Dwell Time: 40.66 Take Care Logistics Dwell Time: 108.96 JWR CFS Hrs CFS Hrs *Note CFS - JWC Logistics Park CFS has been removed from the report as the volume for June'18 was very less (((0





JNPT region CFS : Performance Index

The below graph depicts the Performance Index for all CFS for June'18 month. The Quadrant II represent the best CFS with high frequency Index i.e. high container volume at lower dwell time





CFS and ICD Performance

ICD DWELL TIME ANALYSIS

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The table below depicts the dwell of all ICDs for month May'18 and June'18.

		D	well Time	(in Hrs)			г							
	ICD			May	'18	June	18							
ACTL ICD	, Faridabad			12	8	122.4	41							
Adani Logi	istics Park I	CD, Gurg	gaon	13	1	109.	58		Tor	o Perfo	rming l	[CD		
Albatross I	nland Ports	ICD, Da	dri	12	9	128.	53				0			
Allcargo Lo	ogistics Par	k ICD, Da	adri	13	6	127.1	14	Ada	ni Logistic	s Park	1	109.58 hr	•	
APM Term	inals ICD, I	Dadri		14	0	121.	65	IC	CD, Gurga	on		109.30 111	5.	
CMA CGM	I Agencies I	ICD, Dad	ri	13	6	132.	71							
CWC ICD,	Loni			-		117.	96							
CWC ICD,	Patparganj			-		166.	04		Lov	v Perfo	rming]	ICD		
Gateway R	ail Freight I	ICD, Gur	gaon	12	2	127.	05							
		1	1	4 🗖	_				CWC ICI),	1	.66.04 h	KC.	
CUNCUR	R ICD, Au	rangaba	a	17	/	197.3	32	-	Patparga	nj	1	.00.04 10	00.041115	
CONCOR	R ICD, Dao	dri		12	6	109.8	87		10	,				
CONCOR	R Kanakpu	ıra ICD,	Jaipur	19	2	164.	57	*Based on Dwell time for June'18						
CONCOR	R Mulund	ICD, Mı	ımbai	18	2	124.3	17							
	R Tughlaka	•		20	_									
New Delł	U		- ,	14	6	116.	54							
				ICD -	DWELL	OVERV	IEW (JU	JNE'18)	(IN HRS)					
Avg. 128.1	15 hrs.								197.32					
							166.04				164.57			
122.41	109.58	128.53	127.14	121.65	132.71	117.96		127.05		109.87		124.17	116	
ACTL ICD, Faridabad	Adani Logistics Park ICD, Gurgaon		Allcargo Logistics Park ICD, Dadri	APM Terminals ICD, Dadri	CMA CGM Agencies ICD, Dadri	CWC ICD, Loni	CWC ICD, Patpargan		CONCOR ICD, C Aurangabad	ONCOR ICD, Dadri	CONCOR Kanakpura ICD, Jaipur	CONCOR Mulund ICD, Mumbai	CON Tughla ICD, De	

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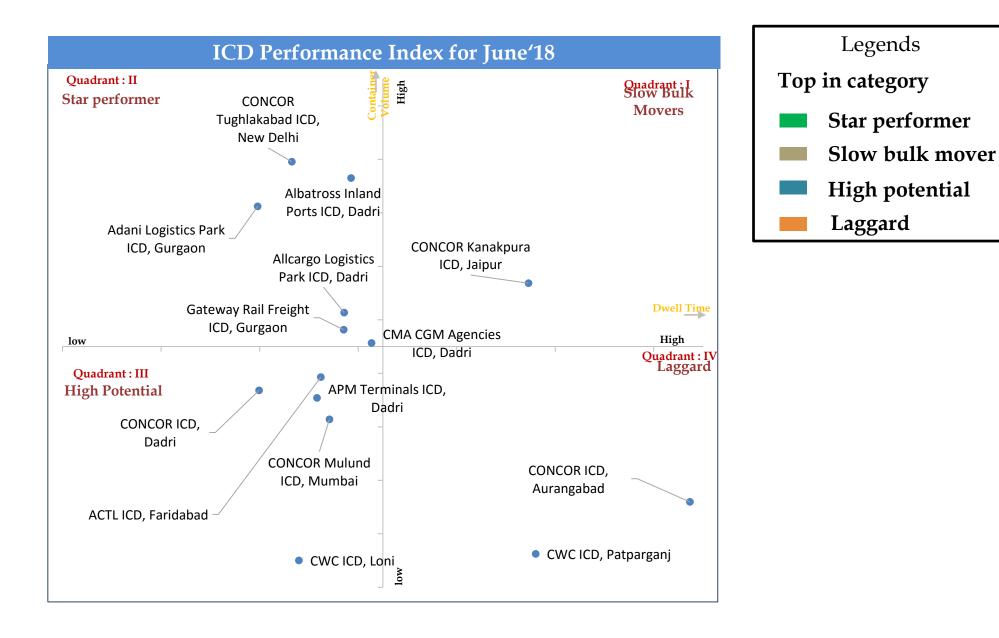
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ICD : Performance Index

The below graph depicts the Performance Index for all ICDs for June'18. The Quadrant II represent the best ICD with high frequency Index i.e. high container volume at lower dwell time



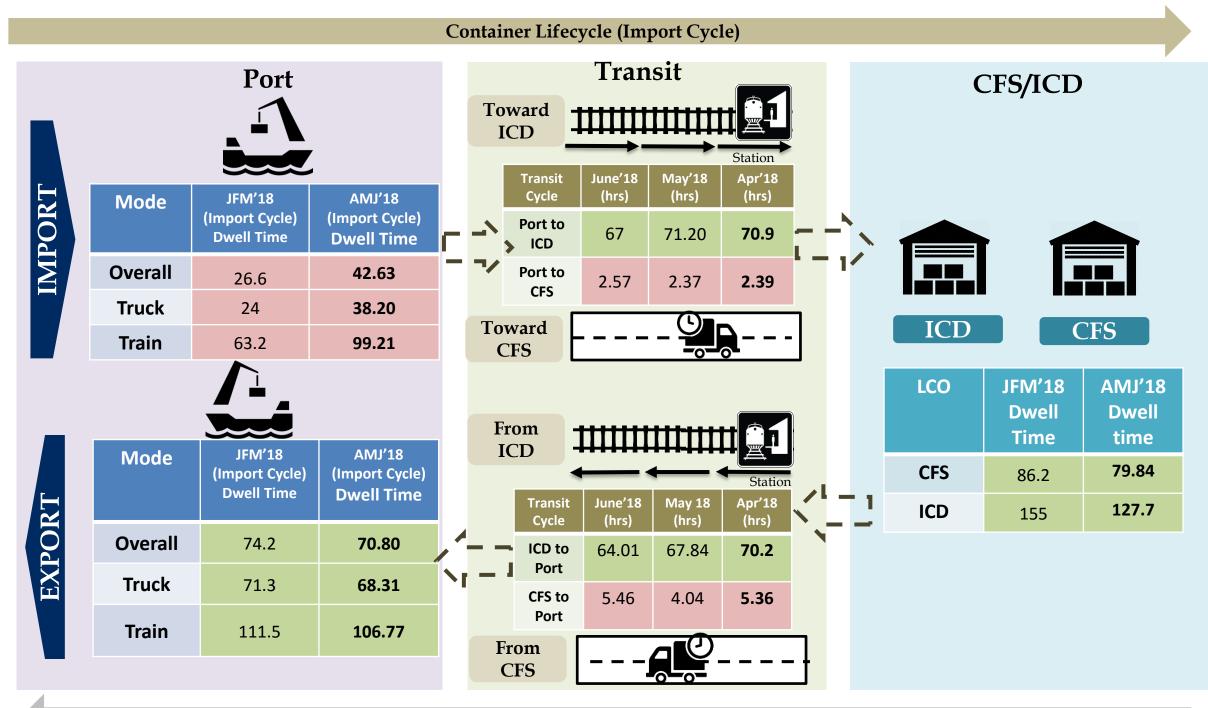


Trend Analysis

Container Movement around JNPT region : Quarter on Quarter



The below figure depicts the container supply chain along with the time taken at various points in the quarter AMJ'18



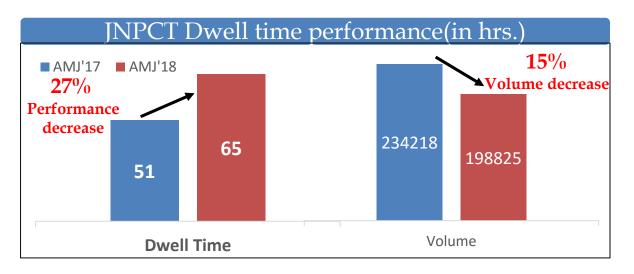
Container Lifecycle (Export Cycle)

The marked entries showcase the increase in performance as compare to previous month

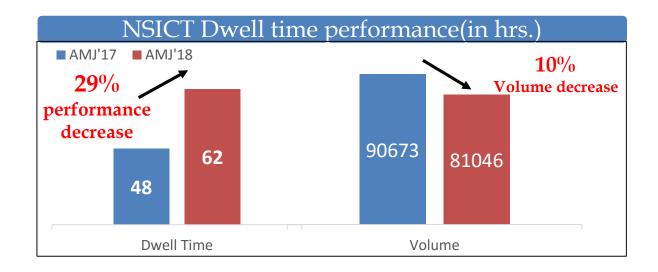
The marked entries showcase the decrease in performance as compare to previous month

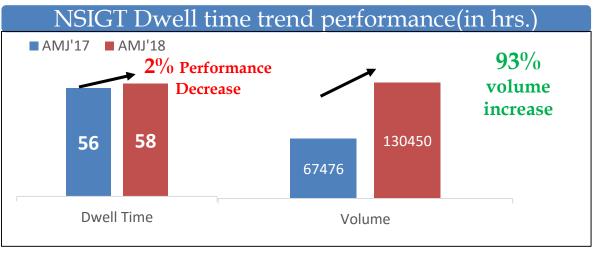


The below graphs display the Year-on-Year overall dwell time performance and volume across the JNPT Port terminals for AMJ'18 and AMJ'17 quarter







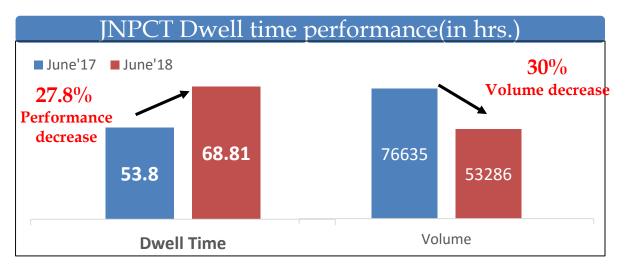


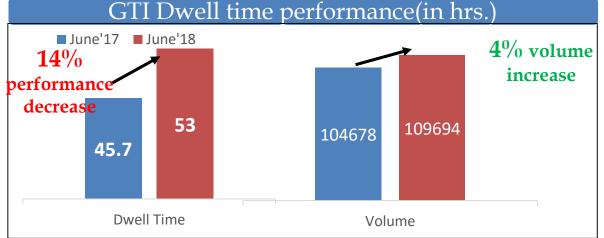
Dwell time for all terminal has been increased from previous year(AMJ'17) although the volume handled by all terminals expect NSIGT is lesser than the previous year

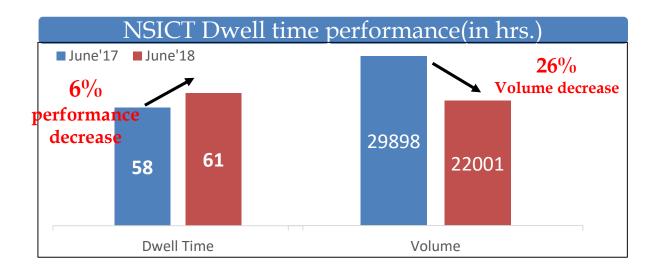
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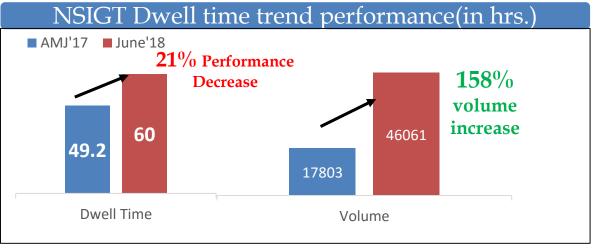


The below graphs display the Year-on-Year overall dwell time performance and volume across the JNPT Port terminals for June'18 and June'17







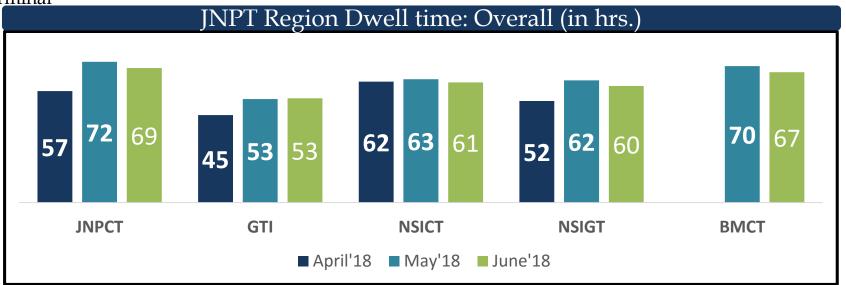


Dwell time for all terminal has been increased from previous year(June'17) although the volume handled by all terminals



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 terminals for April'18, May'18, June'18. 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

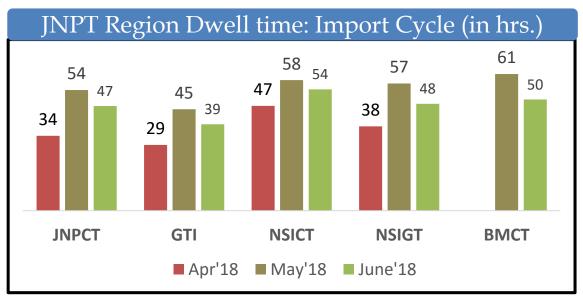


The overall JNPT region average dwell time for June'18 is 60hrs as compared to 61.46hrs in May'18 and 52 hrs. in April'18

The below tables showcase the Import and Export cycle dwell time for both rail and truck bound containers for month of May'18

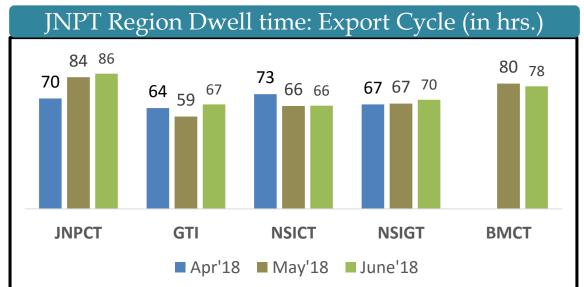
JNPT Import cycle Trend

The average import cycle dwell time of JNPT region port terminals for June'18 is 44 hrs.



JNPT Export cycle Trend

The average export cycle dwell time of JNPT region port terminals for June'18 is 72 hrs.





For the 4 terminals of JNPT i.e. JNPCT, GTI, NSIGT & NSICT prediction analysis has been done on Dwell Time

Dwell time dependence on terminal volume has been evaluated i.e. intercept coefficient, this helped in predicting the dwell time of the terminal based on the forecasted volume for the month June'18 and July'18

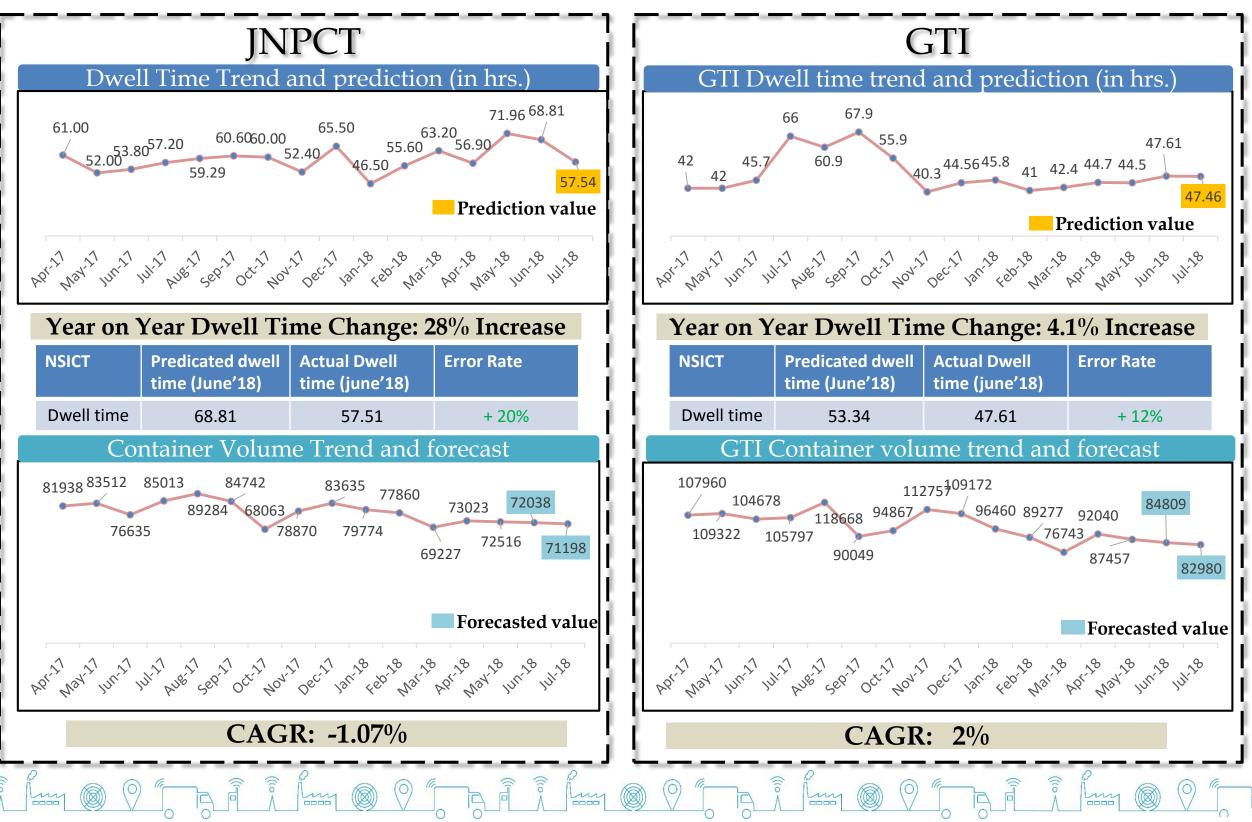
Logic for predicting Dwell Time = Intercept Coefficient + (x variable * forecasted volume)

Terminal	Intercept Coefficient
JNPCT	60.23
GTI	40.62
NSIGT	61.59
NISCT	48.43

Note: The prediction has been done with the error rate of 35%

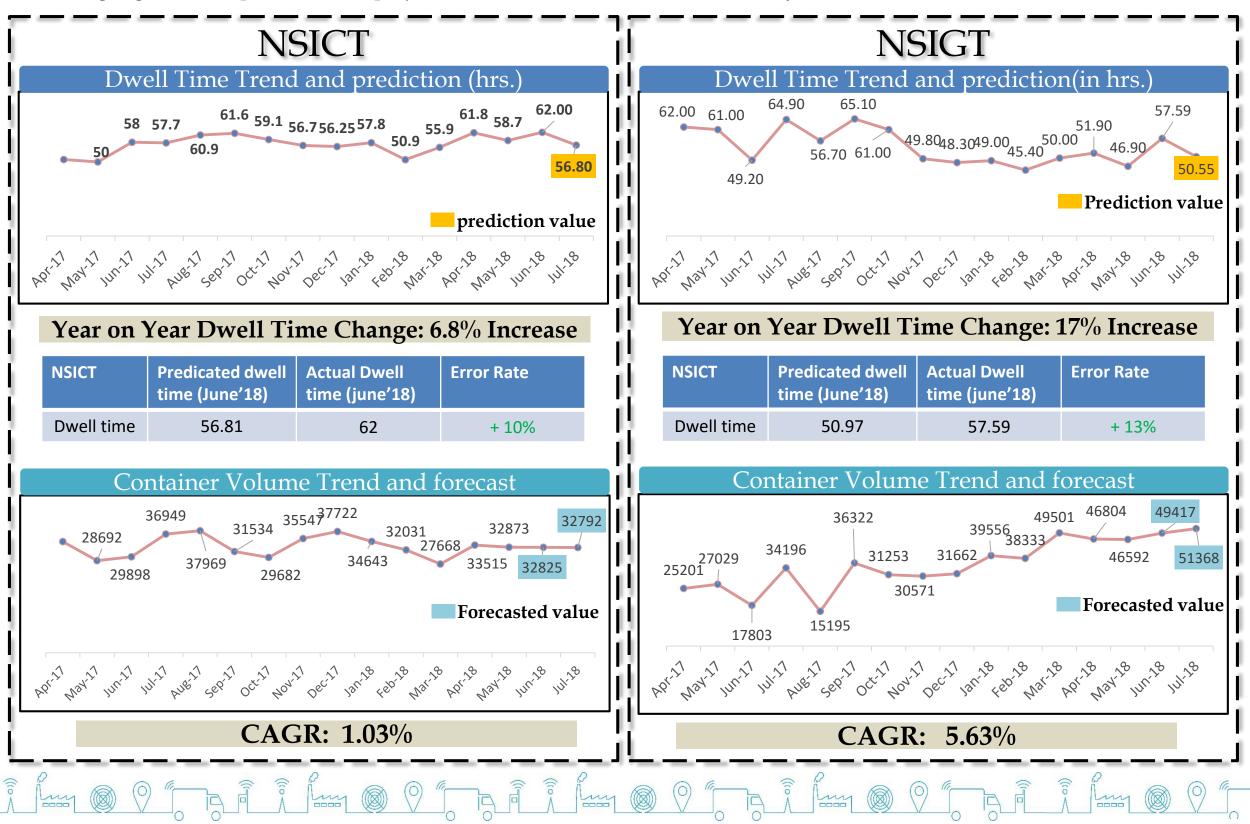


The below graphs display the dwell time and volume trend across the year of JNPT Port terminals from April'17 to May'18. The highlighted data points are the projections for the month of June'18 and July'18





The below graphs display the dwell time and volume trend across the year of JNPT Port terminals from April'17 to May'18. The highlighted data points are the projections for the month of June'18 and July'18





SECTION III: ANNEXURE

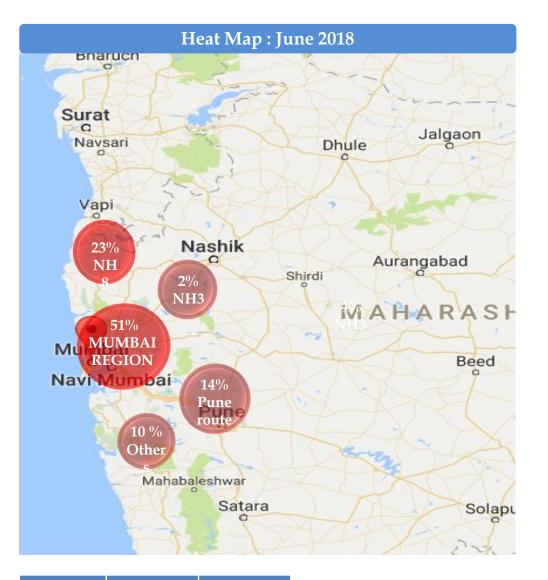
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JNPT Region





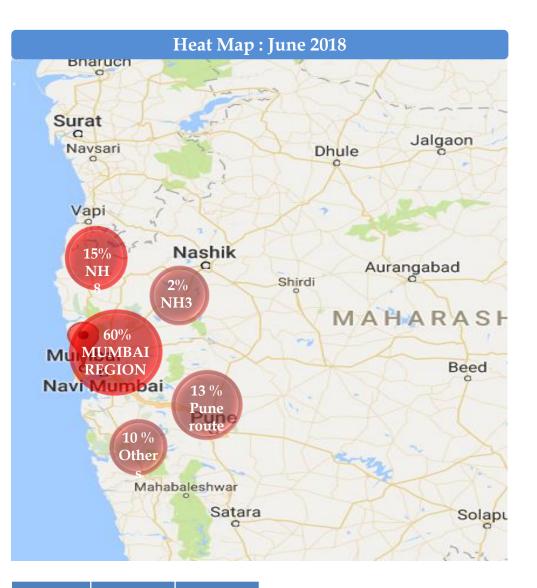
HEAT MAP : JNPCT Port Terminal



Region	May'18	June'18	
Mumbai region	54%	51%	T de co
NH3	2%	2%	th
Pune	15%	14%	
NH8	19%	23%	
others	10%	10%	

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

HEAT MAP : GTI Port Terminal



Region	May'18	June'18
Mumbai region	60%	60%
NH3	1%	2%
Pune	14%	13%
NH8	15%	15%
others	10%	10%

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



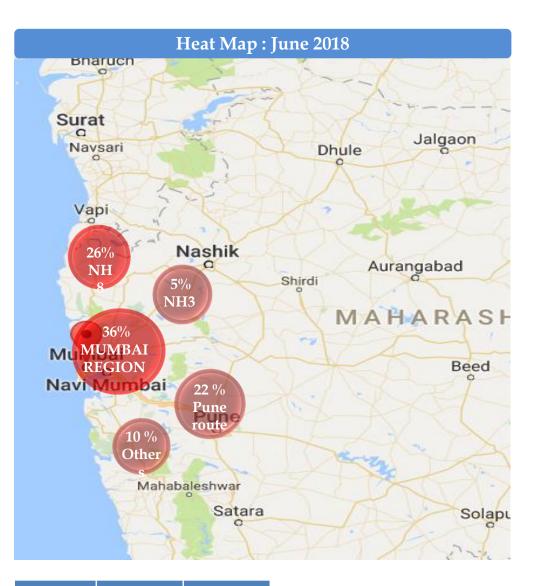
Heat Map : June 2018 впагисп O Surat a Jalgaon Navsari Dhule Vapi Nashik 22% Aurangabad NH Shirdi 3% NH MAHARASH **41**% MUMBAI Mu REGION Beed Navi Mumbai 24% Pune route 10 % Other Mahabaleshwar Satara Solapu

HEAT MAP : NSIGT Port Terminal

Region	June'18	June'18
Mumbai region	33%	41%
NH3	4%	3%
Pune	31%	24%
NH8	22%	22%
others	10%	10%

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

HEAT MAP: NSICT Port Terminal



Region	May18	June'18
Mumbai region	45%	36%
NH3	3%	5%
Pune	19%	22%
NH8	23%	26%
others	10%	10%

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



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 June'18

GTI	Terminal Gate	Import Cycle 14.89 hrs	Railway Siding Out
JNPCT	Terminal Gate	Import Cycle 8.28 hrs	Railway Siding Out
NSICT	Terminal Gate	Import Cycle 12.78 hrs	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 June'18





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

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For June'18					
CFS Out Port in (Export Cycle in Hrs)					
CFS JNPCT GTI NSICT NSIGT					
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.6	5.8	5.2	5.0	
CWC Dronagiri CFS	3.1	5.4	9.8	7.3	
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.9	4.2	3.5	2.5	
Indev Logistics Pvt. Ltd.CFS	3.1	6.1		6.5	
PUNJAB CONWARE (PW)	1.7	4.4	5.1	5.2	
Transindia Logistics Park Pvt, Ltd CFS	2.3	3.9	9.3	7.9	
Apollo Logisolutions Ltd.	3.9	9.7	8.9	9.4	
JWR CFS	2.9	5.7	5.6	4.3	
NAVKAR CORPORATION LTD.YARD-III CFS	5.2	6.4	2.9	13.2	
Ameya Logistics Pvt. Ltd.	2.2	6.3	8.2	7.8	
Ashte Logistics Pvt. Ltd.	3.6	9.6	10.3	4.6	
DRONAGIRI RAIL TERMINAL	2.2	4.7	4.8	5.4	
TG Terminals CFS	2.2	6.3	5.7	7.0	
Vaishno Logistics Yard CFS	2.8	6.0		4.1	
NAVKAR CORPORATION LTD., YARD-II CFS	5.3	8.5	10.9	8.0	
Gateway Distriparks Ltd	2.3	6.1	5.9	6.3	
All Cargo Logistics Ltd., CFS	3.8	27.4	4.7	8.2	
International Cargo Terminal CFS	2.9	6.2	9.3		
Balmer & Lawrie & Co. Ltd.,CFS	2.2	7.9	8.6	19.9	
Continental Warehousing (Nhava Sheva) Ltd.	1.9	4.4	4.6	5.2	
Seabird Marine Services Pvt Ltd.	4.5	9.6	3.6	8.4	
Ocean Gate Container Terminals Pvt. Ltd.CFS	2.3	5.9	5.0	6.8	
MAHARASHTRA STATE WARE. CORP. CFS	2.5	6.6	5.8	3.8	
International Cargo Terminals & Infrastructure Private Limited-CFS	3.2	4.9	5.9	4.1	
APM (Maersk India Pvt. Ltd)CFS	1.7	3.5	3.0	6.5	

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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	June'18
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.9
Balmer & Lawrie & Co. Ltd.,CFS	2.0
Gateway Distriparks Ltd	2.8
APM (Maersk India Pvt. Ltd)CFS	2.0
Continental Warehousing (Nhava Sheva) Ltd.	1.8
Seabird Marine Services Pvt Ltd.	2.1
JWC Logistics Park Ltd CFS	3.5
Ameya Logistics Pvt. Ltd.	2.6
Ashte Logistics Pvt. Ltd.	3.9
NAVAKAR CORPORATION LTD., YARD-1 CFS	3.5
Apollo Logisolutions Ltd.	5.7
Ocean Gate Container Terminals Pvt. Ltd.CFS	3.1
Indev Logistics Pvt. Ltd.CFS	4.3
Transindia Logistics Park Pvt, Ltd CFS	2.2
All Cargo Logistics Ltd., CFS	2.1
Vaishno Logistics Yard CFS	2.6
NAVKAR CORPORATION LTD., YARD-II CFS	6.0
PUNJAB CONWARE (PW)	2.3
DRONAGIRI RAIL TERMINAL	1.7
CWC LOGISTIC PARK - Opr.Hind Trmnl.	2.1
NAVKAR CORPORATION LTD.YARD-III CFS	4.2
International Cargo Terminals & Infrastructure Private Limited-CFS	2.5
Maersk Annex (APM)CFS	2.8
International Cargo Terminal CFS	2.3
SBW Logistics CFS , Navi Mumbai	4.0
JWR CFS	2.4

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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	June'18
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.5
Balmer & Lawrie & Co. Ltd.,CFS	1.9
Gateway Distriparks Ltd	2.4
APM (Maersk India Pvt. Ltd)CFS	1.8
Continental Warehousing (Nhava Sheva) Ltd.	1.5
Seabird Marine Services Pvt Ltd.	2.0
JWC Logistics Park Ltd CFS	3.4
Ameya Logistics Pvt. Ltd.	2.4
Ashte Logistics Pvt. Ltd.	3.1
NAVAKAR CORPORATION LTD., YARD-1 CFS	3.3
Apollo Logisolutions Ltd.	5.9
Ocean Gate Container Terminals Pvt. Ltd.CFS	3.2
Indev Logistics Pvt. Ltd.CFS	3.6
Transindia Logistics Park Pvt, Ltd CFS	2.2
All Cargo Logistics Ltd., CFS	1.8
Vaishno Logistics Yard CFS	1.7
NAVKAR CORPORATION LTD., YARD-II CFS	2.9
PUNJAB CONWARE (PW)	2.0
MAHARASHTRA STATE WARE. CORP. CFS	1.6
CWC LOGISTIC PARK - Opr.Hind Trmnl.	1.8
NAVKAR CORPORATION LTD.YARD-III CFS	3.7
International Cargo Terminals & Infrastructure Private Limited- CFS	2.1
Maersk Annex (APM)CFS	2.7
International Cargo Terminal CFS	2.3
SBW Logistics CFS , Navi Mumbai	3.6
JWR CFS	2.0

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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	June'18		
Balmer & Lawrie & Co. Ltd.,CFS	1.9		
Gateway Distriparks Ltd	2.2		
APM (Maersk India Pvt. Ltd)CFS	2.2		
Continental Warehousing (Nhava Sheva) Ltd.	1.4		
Seabird Marine Services Pvt Ltd.	1.8		
JWC Logistics Park Ltd CFS	2.9		
Ameya Logistics Pvt. Ltd.	2.1		
Ashte Logistics Pvt. Ltd.	3.6		
NAVAKAR CORPORATION LTD., YARD-1 CFS	2.5		
Apollo Logisolutions Ltd.	4.9		
Ocean Gate Container Terminals Pvt. Ltd.CFS	2.5		
Indev Logistics Pvt. Ltd.CFS	5.7		
Transindia Logistics Park Pvt, Ltd CFS	2.5		
All Cargo Logistics Ltd., CFS	1.6		
NAVKAR CORPORATION LTD., YARD-II CFS	3.5		
PUNJAB CONWARE (PW)	2.0		
DRONAGIRI RAIL TERMINAL	1.6		
CWC LOGISTIC PARK - Opr.Hind Trmnl.	1.8		
NAVKAR CORPORATION LTD.YARD-III CFS	2.5		
International Cargo Terminals & Infrastructure Private Limited-CFS	1.9		
Maersk Annex (APM)CFS	2.5		
International Cargo Terminal CFS	2.1		
SBW Logistics CFS , Navi Mumbai	3.1		
JWR CFS	3.5		

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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	June'18	
Jawaharlal Nehru Port CFS (Speedy Multimode Ltd CFS)	1.9	
Balmer & Lawrie & Co. Ltd.,CFS	1.8	
Gateway Distriparks Ltd	2.6	
APM (Maersk India Pvt. Ltd)CFS	1.9	
Continental Warehousing (Nhava Sheva) Ltd.	1.7	
Seabird Marine Services Pvt Ltd.	1.8	
JWC Logistics Park Ltd CFS	3.1	
Ameya Logistics Pvt. Ltd.	2.4	
Ashte Logistics Pvt. Ltd.	3.7	
NAVAKAR CORPORATION LTD., YARD-1 CFS	2.9	
Apollo Logisolutions Ltd.	5.3	
Ocean Gate Container Terminals Pvt. Ltd.CFS	3.6	
Indev Logistics Pvt. Ltd.CFS	3.6	
Transindia Logistics Park Pvt, Ltd CFS	2.8	
All Cargo Logistics Ltd., CFS	2.2	
Vaishno Logistics Yard CFS	1.7	
NAVKAR CORPORATION LTD., YARD-II CFS	3.0	
PUNJAB CONWARE (PW)	2.2	
DRONAGIRI RAIL TERMINAL	2.0	
MAHARASHTRA STATE WARE. CORP. CFS	1.3	
CWC LOGISTIC PARK - Opr.Hind Trmnl.	1.7	
NAVKAR CORPORATION LTD.YARD-III CFS	3.3	
International Cargo Terminals & Infrastructure Private Limited- CFS	2.3	
Maersk Annex (APM)CFS	2.9	
International Cargo Terminal CFS	2.5	
SBW Logistics CFS , Navi Mumbai	4.4	
JWR CFS	13.2	

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Base on container movement from port to CFS in Mumbai region, 29 CFS's have been grouped into 9 Clusters on the basis of their vicinity. Below table shows all the clusters and the relevant data for NSICT and NSIGT terminal

CFS Cluster : NSICT Terminal

- In export cycle the NSICT terminal is having congestion for traffic from cluster 3 and cluster 6
- In import cycle the movement of traffic towards cluster 9 is facing congestion

NSICT terminal for month of June'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	-	3.5	
Cluster 2	6	13	2.1	5.9	
Cluster 3	6	11	0.8	5.1	
Cluster 4	1	13	0.0	5.7	
Cluster 5	2	25	2.7	2.5	
Cluster 6	6	25	3.6	8.9	
Cluster 7	4	12	1.8	6.4	
Cluster 8	1	34	3.1	0.0	
Cluster 9	1	20	3.5	5.6	

CFS Cluster : NSIGT Terminal

- In export cycle the NSIGT terminal is having traffic congestion from cluster 1 and Cluster 7
- In import cycle the NSIGT terminal is having traffic congestion from cluster 9

NSIGT terminal for month of June'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	1.9	2.5
Cluster 2	6	13	2.3	5.7
Cluster 3	6	11	1.8	5.4
Cluster 4	1	13	1.7	4.1
Cluster 5	2	25	3.3	3.4
Cluster 6	6	25	3.5	7.2
Cluster 7	4	12	2.3	7.9
Cluster 8	1	34	4.4	0.0
Cluster 9	1	20	13.2	4.3

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**

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Base on container movement from port to CFS in Mumbai region, 31 CFS's have been grouped into 9 Clusters on the basis of their vicinity. Below table shows all the clusters and the relevant data for GTI and JNPCT terminal

CFS Cluster : GTI Terminal

CFS Cluster : JNPCT Terminal

GTI terminal for month of June18					
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	1.9	4.2	
Cluster 2	6	13	2.3	5.8	
Cluster 3	6	11	1.7	5.4	
Cluster 4	1	13	2.6	6.0	
Cluster 5	2	25	3.3	2.9	
Cluster 6	6	25	4.3	7.5	
Cluster 7	4	12	2.1	5.4	
Cluster 8	1	34	4.0	11.9	
Cluster 9	1	20	2.4	5.7	

JNPCT terminal for month of June'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	1.5	1.9	
Cluster 2	6	13	2.1	2.3	
Cluster 3	6	11	1.8	2.5	
Cluster 4	1	13	1.7	2.8	
Cluster 5	2	25	3.3	1.2	
Cluster 6	6	25	3.4	3.9	
Cluster 7	4	12	2.0	2.3	
Cluster 8	1	34	3.6	6.7	
Cluster 9	1	20	2.0	2.9	

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**

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Below mentioned are all the CFS in the respective Clusters :

