



**Study on Timeline for Export and  
Import of Containers at  
Jawaharlal Nehru Port Trust,  
Chennai Port Trust and APSEZ  
Mundra**



**BRIEF**  
EMPOWERING GROWTH

September 2018

## Highlights of the September Report

- As compared to August 2018, port dwell time for import at JNP decreased from 61:52 to 48:24 hours in September 2018. This is attributed to the significant decrease in the dwell time of ICD bound containers from 114:00 to 71:30 hours.
- As compared to August 2018, port dwell time for import at Mundra and Chennai decreased from 107:08 to 65:03 hours and 57:50 to 50:20 hours, respectively, in September. At Mundra, it is attributed to the significant decrease in the dwell time of ICD bound containers from 189:31 to 106:09 hours.
- The port dwell time for exports decreased at JNP, Mundra and Chennai from 74:32 to 72:36 and 108:37 to 103:00 hours and 75:27 to 63:35 hours respectively.
- Share of DPD containers increased at Chennai 33% to 38%, highest recorded percentage was 44% in the month of May and June.
- CFS export dwell time decreased at JNP, Chennai and Mundra from 119:35 to 115:59 hours, 102:38 to 94:40 hours, and 192:03 to 181:39 hours respectively.
- JNP, Chennai and Mundra CFS import dwell time decreased from 136:18 to 127:21 hours, 130:03 to 119:20 and 97:38 to 94:16 hours respectively.
- ICD TKD import and export dwell time increased in the month of September from 141:17 to 157:24 and 80:50 to 83:10 hours respectively.
- “Rake turnaround time” and “Rake handling time” increased at JNP from 10:09 to 11:50 hours and 05:01 to 05:26 hours respectively.
- In September 2018, the JNP-TKD rail transit time for exports increased from 63:29 to 65:41 hours.
- In September 2018, the Mundra-TKD rail transit time for exports decreased from 79:05 to 70:50 hours, 70:50 hours is the lowest time recorded for the year 2018.

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## 1. Introduction

India's rank in World Bank's Report, Doing Business 2018: Reforming to Create Jobs, has moved up to 100 as compared to 130 in the previous year. This massive jump in the ranking – highest ever recorded – is the result of reforms undertaken in the last four years in nearly thirty seven area covered under the indicators of starting a business, dealing with construction permits, getting credit, protecting minority investors, paying taxes, enforcing contracts and resolving insolvency. India has also been categorized among the top 10 improvers of 2017.

One of the most crucial indicators for business is ‘Trading Across Borders’ (TAB) wherein the time and cost required to release the cargo from the customs port in Delhi and Mumbai is captured through a questionnaire which relies on the perception of the traders and trading agents. Here, India’s position has slipped by 3 places, currently at 146 out of 190 economies.

Parameter/Year	2014	2015	2016	2017
Overall ranking	134	131	130	100
Trading Across Borders	126	144	143	146

The World Bank’s Doing Business 2018 estimates for the TAB through Mumbai and Delhi have been given in Table 2 and 3 respectively.

Parameter	Time to Export (Hours)		Time to Import (Hours)	
	Documentary Compliance	Border Compliance	Documentary Compliance	Border Compliance
2016	61	88	67	311
2017	58	85	65	307
2018	58	85	65	267

*Source: [www.doingbusiness.org](http://www.doingbusiness.org)*

### 1.1. Context of the study

In 2016-17, a study was undertaken by Federation of Indian Export organisations (FIEO) and Bureau of Research on Industry and Economic Fundamentals (BRIEF), which was commissioned by NITI Aayog, for a comprehensive dwell time analysis of the various procedures and agencies involved in the supply chain for export and import through the JNP. It involved an assessment of the time taken at various intervention points - dissecting the dwell time of containers from/to Container Freight Stations (CFS), Inland Container Depot (ICD) as well as Direct Port Entry/Delivery – entailing transportation of containers and other operational aspects, the process of assessment, registration and examination, among others. As a result of this study, a number of initiatives were taken at JNP including, discontinuation of use of physical copies of certain documents at the terminal, mandatory issuance of e-delivery order by shipping lines, introduction of RFID, and initiation of e-sealing facility for self-sealed containers.

In continuation with the previous study, **Logistics Division** in the **Ministry of Commerce** has entrusted FIEO and BRIEF with the mandate of carrying out the timeline analysis of various processes for different agencies at the ports. The present study has also been extended to Mundra Port and Chennai Port, in addition to the JNP for the year 2018. This study will specifically identify dwell time at various agencies in the EXIM process at the three ports, covering all aspects of border compliance and documentary compliance. This will be done through calculation of the time taken for

import and export of Containers through JNP, Mundra and Chennai ports on a monthly basis along with the details of the time taken at every agency/place involved in the process.

This report also acts as a benchmarking tool for the targets for 2018-19 – for export and import – setting benchmarks for different agencies such as railways, customs, ports, and the partner government agencies. Apart from the dwell time analysis, the report also delves upon the qualitative aspects of activities in the EXIM process to provide a comprehensive picture of the operations impacting the ease of doing business in India.

## 1.2. Purpose and Objectives

### MONTHLY REPORTS

- a. To track supply chain of import/ export at JNP, Mundra and Chennai ports through identification of all the procedures, agencies and stakeholders
  - ✓ Inclusive of all formats of port entry and delivery such as Direct Port Delivery, Direct Port Entry, CFS facilitated, Factory stuffed and ICD facilitated through rail, etc.
- b. To provide a comparison of processes adopted at the selected ports for EXIM trade.
- c. To calculate the time taken for import and export of Containers through JNP, Mundra and Chennai ports on a monthly basis along with the details of the time taken at every agency/place involved in the process.
- d. To specifically identify dwell time at various agencies in the EXIM process at the three ports. These would include, but not be restricted to, the following:
  - Border Compliance
    - ✓ Customs Clearance and Inspections: Time taken by the Customs for export and import clearances at select ports based on actual data as well as perception.
    - ✓ Port Handling: Time taken by Terminal, select CFS's and select ICD's for export and import.
    - ✓ Allied Agencies: Time taken by agencies such as FSSAI, PQ, etc during the course of import and export including chemical and Pharma sector.
    - ✓ No. of shipments physically inspected i.e. evaluating RMS clearances based on data as well as perception.

## 1.3. Stakeholders

- I. **Port/Terminal:** A port is the point of entry of goods and travellers into the country. It provides facilities for berthing of vessels and loading/unloading of cargo. A terminal is a part of the port, comprising of berth(s) which form a part of the terminal. It may be cargo-specific or designed to handle all types of cargo.
- II. **Customs:** It is the official department of the government with the authority to check goods and travellers. In international trade, the customs collect duty on imported goods as levied by the government, and provide clearance on both export and import goods.
- III. **Container Freight Station (CFS) and Inland Container Depot (ICD):** A Container Freight Station is an extension of the port. It is the custodian of goods after they are evacuated from the terminal in case of import and before they are shifted to terminals in case of export. The process of customs clearance takes place inside the CFS. Inland Container Depots are

located in different inland points away from the sea ports, offering services such as handling, temporary storage and clearance of goods.

- IV. **Partner Government Agency:** Partner Government Agencies (PGAs) are external agencies allied with the Central Board of Excise and Customs (CBEC) for providing clearance to sensitive goods such as food products, dyes, animal products, drugs etc. In congruence with the Budget, 2016-17, the CBEC initiated the Single Window Interface for Facilitating Trade (SWIFT) on 1st April 2016, as part of the 'Ease of Doing Business' initiative of the central government. The SWIFT – connected with CBEC's Electronic Data Interchange (EDI) gateway – is an electronic platform that enables the importer/exporter to file a single declaration entailing the nature of goods with the customs and the PGAs, in the form of an 'Integrated Declaration'; whereas for the PGAs, the system enables these agencies to upload the reports online. The PGAs which have been integrated with SWIFT include: Food Safety and Standards Authority of India (FSSAI), Plant Quarantine Information System (PQIS), Animal Quarantine and Certification Services (AQCS), Drug Controller (CDRUG), Wild Life Crime Control Bureau (WCCB) and the Textile Committee.
- V. **Railways:** Railways is one of the various modes of transporting the consignment between port and the inland destinations.

#### 1.4. Methodology

The report records the time associated with the import and export of containers through the JNP, Chennai, Mundra and ICD Tughlakabad ports. ***Recording of time starts when the container reaches the port till the time it is made available for the importer/CHA in case of imports, and from the time the custody of the container is handed over to ICD/CFS/port to the time the vessel sails off in case of exports.***

As a part of situational appraisal, **preliminary assessment** on parameters of border compliance, customs compliance and documentary compliance was done for all the three ports. **Business Process Analysis (BPA)** charts were developed for Import and Export – entailing the requisite documentation and processes undertaken – as a basis for time difference calculation between different steps, also taking cognisance of any peripheral activity being undertaken, which affects the dwell time. After the BPA charts were developed, **data was collected** from stakeholders such as ports (JNP, Chennai, Mundra and ICD TKD), customs, CFS operators (CFSAI and NACFS), rake operators (CONCOR) and partner government agencies (FSSAI, PQIS, AQCS, CDSCO, etc.). The data was collected and assembled on the basis of predetermined formats, following which, the process of **data analysis** was conducted, involving cleaning and analysis of the collected data through requisite tools. The analytical process involved stakeholder-wise calculation of dwell time and subsequently, consolidation of the same in the process chain of EXIM trade. Monthly reports are prepared post analysis of data for each month, starting January 2018. The reports summarised average timelines for analysed processes, custodians and finally, the export and import value chains as a whole.

The datasets used in the report were collected from the aforementioned stakeholders in the form of system generated date and time stamps recorded against each activity, as generated/collated by the stakeholder. From each stakeholder's datasets, dwell time was calculated on the basis of custodianship i.e. the time for which a container remained in its custody before being made available for the trader/importer/agent for delivery. For certain stakeholders, the processes are linear and therefore

the time analysis was done on the basis of duration between subsequent activities. For example, in case of terminals, import dwell time was calculated as the duration between container discharge and container out time and for export, the same was calculated as the duration between container in time and container loading time. On the other hand, in case of stakeholders such as customs, where the processes are not linear, dwell time was calculated as the summation of durations for which containers were held by the customs.

The data analysed in the report was recorded against container numbers and collated on a monthly basis. Therefore, dwell time of each stakeholder is calculated, every month, as the average of container-wise time taken from the first activity till the time the consignment was made available to the trader/importer/agent for delivery under each custodian. For instance, the import dwell time of containers at a terminal was calculated as the average time taken from container discharge to container out time. However, for the calculation of dwell time for port, which includes four terminals, weighted average of all the terminals was used.

Broadly, the following parameters have been considered during analysis and report preparation:

- a. The report provides the time analysis of import and export of containers through the JNP, Chennai, Mundra and ICD TKD ports.
- b. The import and export dwell time has been calculated on the basis of movement of containers, irrespective of size and commodity contained.
- c. Out of the total number of containers imported and exported at a port, the sample taken considers the containers under the import and export categories only and not containers meant for transshipment. Further, only Full Container Load (FCL) containers have been considered for this study and not empties.
- d. The representation of time in the tables, figures and charts used in this report has been done in the hour format i.e. *[h]:mm:ss*.
- e. The total time taken by each custodian has been calculated as the time taken from the arrival of the containers under its custodianship to the release of the time when it was made available to the trader for the delivery, and not as a summation of time taken for individual processes, even if they are linear in nature (except for customs). The reason for the same is that the sample size of each process under an agency differs, and therefore aggregating the time taken for individual processes to arrive at the overall dwell time becomes infeasible.
- f. While calculating the dwell time for containers, it was observed that some containers had significantly high dwell time. Since we take the average of the time taken to complete any activity in the complete process, these outliers tend to make the average skewed. In order to overcome this challenge, the calculated durations between any two activities, which were above 30 days (~720 hours), were not included in the calculation of dwell time. This has been done in order to overcome the effect of outliers (consignment that has been dwelling with a particular custodian for some reasons not related to day-to-day trade, such as unclaimed cargo, legal issues, etc.). However, the study also evaluates the percentage of

such outliers. For any data set to be analysed, the percentage of outliers has to be less than 4 per cent.

For maximising accuracy, the following measures have been taken during analysis of data from various stakeholders, which have been summarised as follows:

#### *Port*

- Only Loaded containers have been taken for dwell time analysis. Empties have not been included in the analysis.
- For imports, only containers with vessel berthing time stamps in the same month as the month under analysis have been taken. For example, while analysing port data for January, only containers corresponding to vessel berthing in the month of January have been taken.
- For exports, only containers with in time in the same month as the month under analysis have been taken. For example, while analysing port data for January, only containers with in time in the month of January have been taken.

#### *ICD Tughlakabad*

- Based on the recording done in the datasets received, the segregation of containers for each month has been done by filtering the containers from the date of dispatch and departure in a particular month for export and import containers respectively. For instance, all export containers dispatched and import containers that departed from ICD Tughlakabad in the month of January 2018 have been analysed for the month of January. These container may or may not have arrival date and time in the same month i.e. January.
- Any inconsistent outliers in the datasets have not been considered for calculation.

#### *Customs*

- The monthly datasets were segregated on the basis of Out of Charge (OOC) date in case of imports and Let Export Order (LEO) date in case of exports. For instance, for the import dataset of January 2018, all the entries wherein the date of issuance of OOC is from 01-01-2018 to 31-01-2018 have been considered. Similarly, the dataset analysed for exports have all the entries for which the LEO issuance date is between 01-01-2018 and 31-01-2018.

#### *CFS*

- The monthly datasets were segregated on the basis of CFS gate out date in case of both imports and exports. For instance, the import and export datasets of January 2018 have all the entries wherein the CFS gate out date is from 01-01-2018 to 31-01-2018.

#### *Rake Handling*

- The monthly data has been segregated on the basis of the arrival date. All the entries having the arrival date in the month of January 2018 are used for analysis for the month of January



- The monthly data has been segregated on the basis of the Application date. All the entries having the application date in the month of January 2018 have been analysed and presented in the report for the month of January.

### 1.5. Limitations of the Study

Despite having collected all data directly from the concerned stakeholders, there were certain unavoidable complications that affected the precision of the average time calculated. These include:

- Transit time calculation between port and CFS:* Due to unavailability of the relevant timestamps with all the CFS, the average transit time for Import and export was calculated on the basis of data provided by few CFS.
- Missing entries in datasets:* Many entries in the datasets analysed were missing or not recorded by the agencies. Missing or wrong entries for any process under any custodian have been removed, and the 'n' (number of entries) value has been adjusted accordingly.
- Incomplete entries:* In many datasets, only the dates were provided for certain processes. Absence of time stamps made these entries redundant, as the time difference between two activities taking place on the same date came out to be zero. For instance, let's assume an activity A took place on 01-01-2017 at 9:00 am and a subsequent activity B took place on the same date at 8:00 pm. The duration between these two activities is 11 hours, but in case of absence of time stamps, the duration comes out to be zero, which adversely affects the average. Further, in case of the dates being different, the time difference can potentially display a skew of up to 24 hours vis-à-vis the original difference, which again posed a limitation to the analysis.
- Gaps in Shipping Line Delivery Order data:* Data for shipping line delivery orders (SLDO) was provided by the CFS'. However, not all CFS' could provide the said information.
- Missing time stamps in OOC entries:* The Out of Charge (OOC) entries in the CFS datasets did not have time stamps. As such, time difference between seal cutting (which has both date and time) and OOC taking place on the same day came out to be negative. For instance, for a seal cutting entry of 01-03-2017 at 13:56:45 and a corresponding OOC entry of 01-03-2017 only, the time taken from seal cutting to OOC would be negative.
- Data errors:* For some agencies, data errors were recorded. For instance, in certain entries, the gate out time recorded preceded gate in time. Further, duplication of entries was observed in the some datasets. Such entries have been removed during calculation.
- Calculation of DPD and DPE containers:* Calculations for both DPD and DPE categories have been done using the datasets provided by the terminals. The monthly datasets received from NSICT and NSIGT were segregated – as per mode of transport – into

rail and road categories only. The containers with 'rail' as mode had to be taken as ICD and those with 'truck' as mode had to be taken as DPE (even though the category contains both CFS and factory stuffed containers). Further, in case of GTICT, the segregation – under group type – includes three categories: 'CFS', 'Factory stuffed/ICD by road' and 'ICD by rail', taken for analysis as containers originated from CFS, DPE containers and containers originated from ICD respectively. Therefore, here, ICD containers coming by road get included in DPE. In case of DPD, many containers, post clearance at the terminal, are moved to the designated CFS' for warehousing, after a time period of 48 hours as stipulated by the customs. Their destination is recorded as 'CFS' instead of 'DPD' in the datasets provided by NSICT and NSIGT. Therefore, the actual share of DPD containers are higher as compared to the analysed figures represented in this report.

- h. *Unavailability of electronic data for PGAs:* During our field visits and our interactions with various stakeholders including PGA representatives, it was observed that the data (timestamps) for various activities related to clearance by PGAs are not maintained electronically by all the PGAs. The port offices of various PGAs maintain these entries manually and not all activities are recorded. Further, the entries recorded by the PGAs only contain date and no time for the commencement or completion of an activity leading to a statistical challenge where a difference of 24 hours becomes zero. In between submission of Bill of Entry and issuance of NOC by PGAs there are various activities that take place involving filing of application, scrutinising of documents, collection of samples, testing, report generation and issuance of NOC. In the absence of timestamps for all the relevant activities the clearance time for all PGAs could not be calculated.

# Port Profiles

## 2. Port Profile

### 2.1. Jawaharlal Nehru Port

JNP located on the western coast is the biggest container port in the country. It handles about 56 percent of the container traffic in India through its four dedicated terminals, namely Jawaharlal Nehru Port Container Terminal (JNPCT), Gateway Terminals India Container Terminal (GTIPL), Nhava Sheva International Container Terminal (NSICT) and Nhava Sheva International Gateway Terminal (NSIGT). In addition, there is one liquid cargo berth and shallow water berth. Initially, the port was formed with the objective to reduce the traffic at Mumbai port but ever since its inception it has chronicled persistent increased performance and other achievements for India's foreign trade. The JNPT covers a land area of 2,987 hectares and has connectivity to hinterlands and the major business centres of the country through rail, road, etc.

#### Year-on-year Traffic:

Table 1: Container Traffic Handled at JNPT

2016-17	2017-18
4.50 million TEUs	4.83 million TEUs

#### Infrastructure:

Table 2: JNPT Port Infrastructure

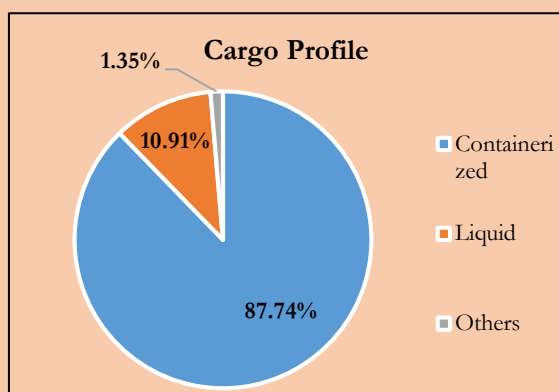
Berth	Draft (m)
12	14

Table 3: Container Capacity and Throughput at JNPT Terminals

Terminal	Capacity (TEU)	Throughput (TEU) (2017-18)
JNPCT	1,500,000	1,481,768
NSICT	800,000	641,122
NSIGT	800,000	659,400
GTICT	1,800,000	2,027,895
BMCTPL	24,00,000	23,212
<b>Total</b>	<b>73,00,000</b>	<b>4,833,397</b>

#### Cargo Profile:

In the financial year 2016-17, JNPT handled a total of 62.15 MT cargoes. The break-up of these cargoes are as under:



#### Storage:

Table 5: Storage Capacity at the Port

Particulars	Storage Capacity
Liquid Tank	750000 MT
Warehouse Area	1197260 TEU
Open Area Storage	875000 TEU

#### Cargo Handling Equipment:

Table 4: Details of Cargo Handling Equipment's

Equipment	Number
RMQCs	34
RTGCs	99
RMGCs	11

#### Connectivity:

Table 6: JNPT Connectivity

CFS	Rail connected ICD
34 Active Container Freight Stations	9 siding tracks for 12 ICD

## 2.2. Chennai Port: Profile

Port of Chennai located on the eastern coast is among the oldest and major ports in India. Despite being the oldest port, it adopted continuous modernization and provided efficient and convenient services to withstand the competition from the existing and emerging ports. It is the first Indian port to establish the marine pollution management to ensure protection for marine life. The port covers a land area of 237.54 ha and has its own shunting yard and railway operations within the harbour. The connectivity of the port through rail, road and its container market makes it the most preferred choice in the southern region of the country.

### Year-on-year Traffic:

Table 1: Container Traffic Handled at Port of Chennai

2016-17	2017-18
1.4 million TEUs	1.5 million TEUs

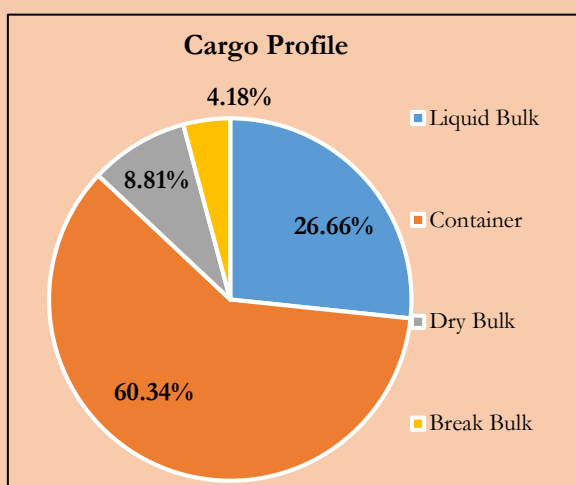
### Infrastructure:

Table 2: Port Infrastructure

Berth	Draft (m)
24	15

### Cargo Profile:

In the financial year 2015-16, Port of Chennai handled a total of 50.06 million tonnes of cargo:



### Storage:

Table 5: Storage Capacity at the Port

Particulars	Storage Capacity
Container parking Yard	2,50,600 sq. mt
Warehouse Area	30,138 sq. mt
Open Space	3,84,611 sq. mt

Table 3: Container Capacity and Throughput at Port of Chennai

Terminal	Capacity TEU	Throughput TEU (2017-18)
Chennai Container Terminal	1,200,000	646,481
Chennai International Terminal	1,250,000	901,584
<b>Total</b>	<b>24,50,000</b>	<b>15,48,065</b>

### Cargo Handling Equipment: (2017-18)

Table 4: Details of Cargo Handling Equipment's

Equipment	Number
RMQCs	14
RTGs	40
Locomotives	7

### Connectivity:

Table 6: Chennai Port Connectivity

CFS	Rail connected ICD
25 Active Container Freight Stations	2 siding tracks for 1 ICD

### 2.3. Mundra Port: Profile

Adani group's Mundra port is the largest commercial port in India, located on the north-western coast in the Gulf of Kutch. The strategically thought out location of the port and different transport facilities provides favourable connectivity to the northern hinterlands of the country. Mundra Port located in Gujarat and the flagship port of APSEZ, is already one of India's biggest port by volumes handled. It was the first Indian port to handle 100 million tonnes (mt) or more of cargo in a year, a feat it achieved in FY14. The port has facilities for handling, storage and evacuation of crude oil, containers, dry bulk, break bulk, automobiles and liquid cargo. The above-mentioned and mechanized facilities at the port make it a preferred port in the region.

#### Year-on-year Traffic:

Table 1: Container Traffic Handled at Mundra Port

2015-16	2016-17
3 Million TEUs	3.5 Million TEUs

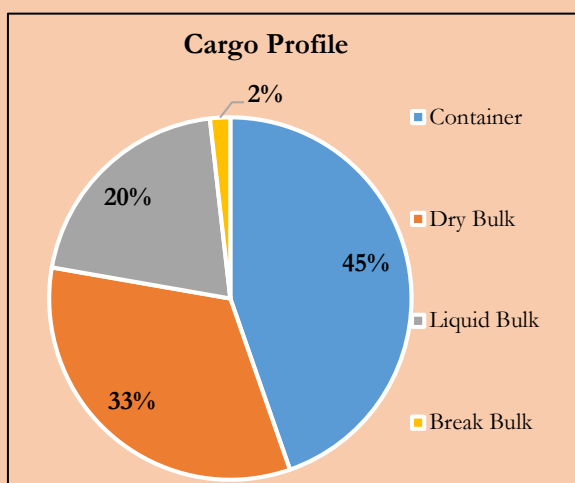
#### Infrastructure:

Table 2: Port Infrastructure

Berth	Draft (m)
24 berths	14 -18m

#### Cargo Profile:

In the financial year 2016-17, Mundra Port handled a total of 113.03 MMT of cargo



#### Storage:

Table 5: Storage Capacity at the Port

Particulars	Storage Capacity
Covered Area	2,03,687 sq. mt
Open yards	7,57,805sq. mt

Table 3: Container Capacity and Throughput at Mundra Port

Terminal	Capacity TEU	Throughput TEU (2016-17)
AMCT	1,000,000	860,000
AICT	1,750,000	1,160,000
ACCMT	800,000	276,630
MICT	1,100,000	1,163,055
<b>Total</b>	<b>46,50,000</b>	<b>34,59,685</b>

#### Cargo Handling Equipment: (2015-16)

Table 4: Details of Cargo Handling Equipment

Equipment	Number
Mobile Harbor Cranes	16
Goliath cranes	8
Reach Stacker	1
Quay Cranes	16
Rubber Tyre Gantry Cranes	50

#### Connectivity:

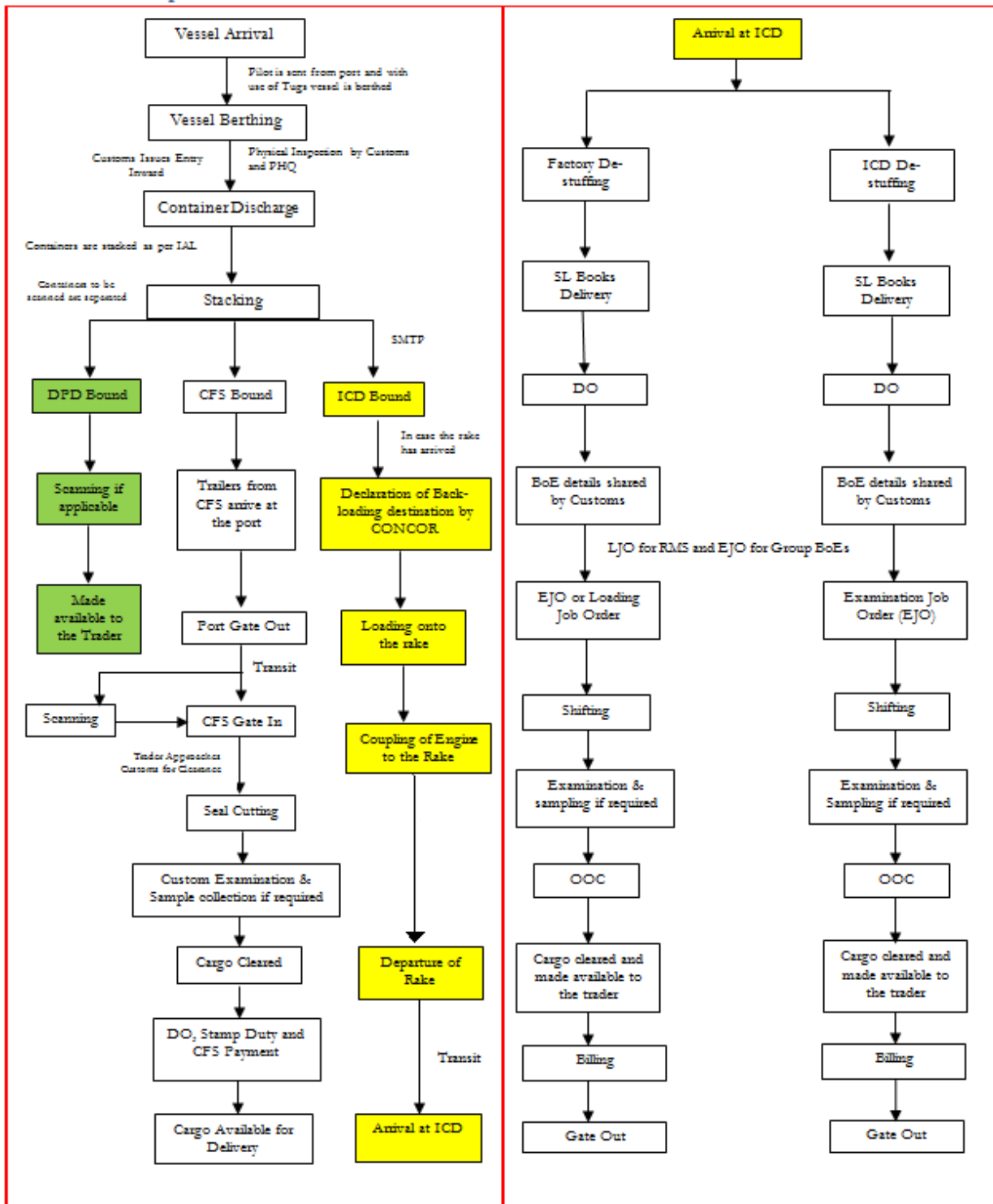
Table 6: Mundra Port Connectivity

CFS	Rail connected ICD
13 Active Container Freight Stations	11 siding tracks for 30ICDs

**EXIM**

**PROCESS**

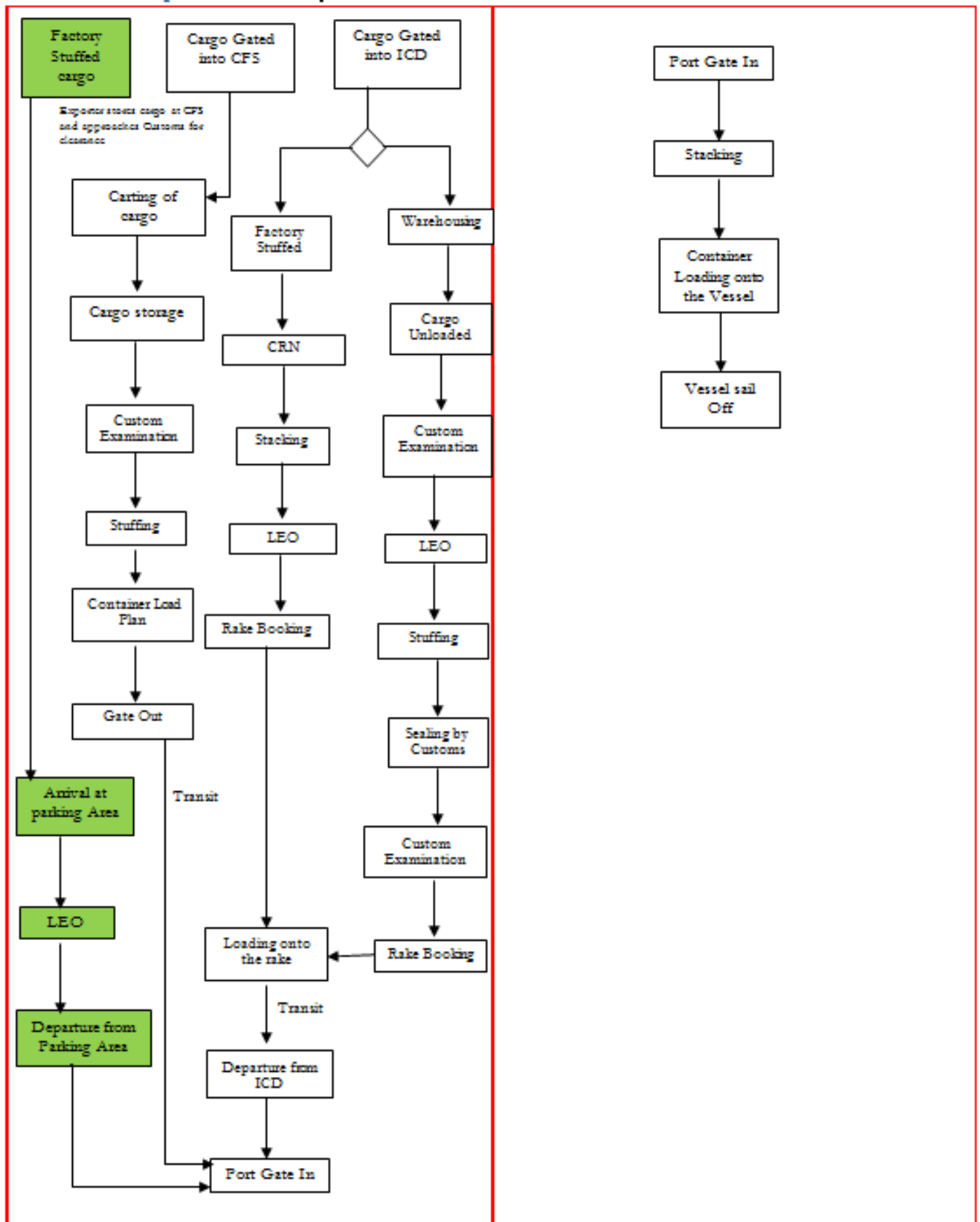
### 3. Import Process at Port, ICD and CFS



S.L – Shipping Line; VOA- Vessel operating Agent; IGM- Import General Manifest; IAL- Import Advance List; SMTTP-Sub Manifest Transhipment Permit; OOC- Out of Charge; NOC-No Objection Certificate; PGA-Partner Government Agency



#### 4. Export Process at Port, ICD and CFS



## 5. Comparison of Port Processes

Parameter	JNP	Chennai	Mundra
Different entry and exit points at Ports.	The terminal gate and port gate is the same in case of the JNP. During the dwell time calculation of the road bound cargo, time calculation starts from the entry or exit from these gates.	The terminal gate and port gate is not the same in case of Mundra and Chennai port. Terminal gates – usually container yard gates- are inside the port. The terminal records gate out or gate in when the container crosses the terminal gates.	
Presence of Customs personnel at the port gate.	There is no customs personnel stationed at the gates at the JNP. For exports, the customs personnel have been shifted to the holding/parking yard where customs procedures are carried out.	At Chennai and Mundra ports, Customs personnel have been stationed at the port gate. Further, at Chennai port the customs personnel checks all the documents at the port gate thereby leading to escalation of dwell time. The time taken at the port gate in case of Mundra and Chennai is not reflected in the port dwell time figures mentioned in this report owing to the reason mentioned above.	
Free days at the terminal for the road and rail bound EXIM containers.	The terminals at Chennai port and the JNP provides a free period of 72 hours (3 days) for Road bound containers and 168 hours (7 days) for rail bound containers.		At Mundra the terminals provide 3 calendar days (not 2 hours) free period for the road bound containers and 10 calendar days for rail bound. If a container is discharged at 01:00 hrs or 23:00 hrs on 01-01-2018, the free period will be till midnight 03-01-2018.
Different procedure for evacuation of rail bound containers from the port.	The railway lines are within the terminal area. The containers transported through rail are loaded and unloaded from the rake within the terminal. The departure of rake is considered as port out and arrival of rake as port in at the JNP.	In case of Chennai port, there is a separate railway yard outside the CCTL gate, operated by CONCOR. The containers transported through rail leave the terminal gate to be shifted to the yard where they are loaded onto the rakes. However in case of CITPL, railway line is placed in the terminal and containers are loaded onto the rake within the terminal.	Same as the JNP
Entry of Export cargo into the port after customs clearance.	The export containers enter the JNP and Chennai port only after they are cleared by customs.		At Mundra port the containers are allowed inside the terminal without custom clearance. Therefore, the time the containers spend at the

		terminals also includes the time for custom clearance, which may result in a higher dwell time for export containers for Mundra compared to the JNP and Chennai port.
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# **TIMELINE ANALYSIS**

# SNAPSHOT

## IMPORT TIMELINES

Stakeholder	Dwell Time	JNP	MUNDRA	CHENNAI	TKD
PORT	Port Dwell Time	48:24	65:03	50:20	157:24
	Port Dwell Time for CFS Bound Containers	38:15	19:30	40:52	--
	Port Dwell Time for ICD Bound Containers	71:30	109:14	56:26	--
	Port Dwell Time for DPD Containers	48:44	70:04	64:30	--
Customs	Customs Release Time	45:11	34:03	44:32	38:10
CFS	Dwell Time at CFS	127:21	94:16	119:20	--
Road Transit time	Time taken from Port to CFS	10:46	0:57	1:40	--
Rail Transit time	Time taken from Port to TKD	59:19	78:36	--	--
Port, CONCOR & Railway	Rake Turnaround Time	11:50	09:57	19:06	--
	Rake Handling Time	05:26	06:29	07:08	--
Overall Dwell Time		154:51	232:15	124:28	--

## EXPORT TIMELINES

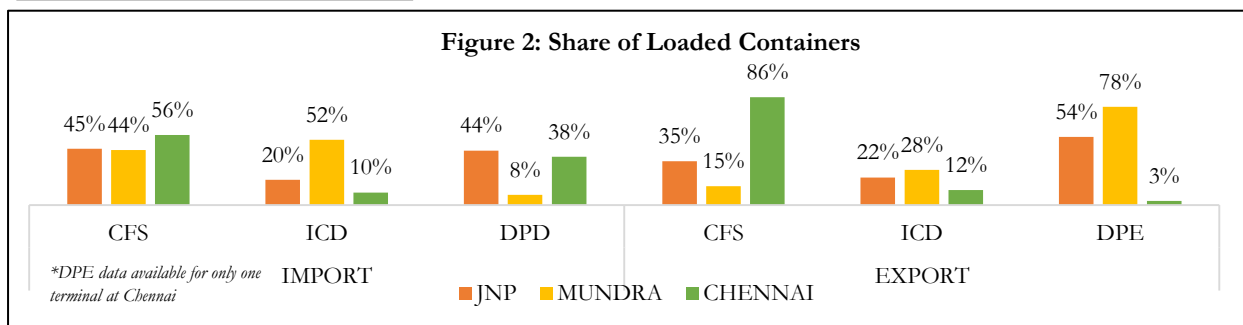
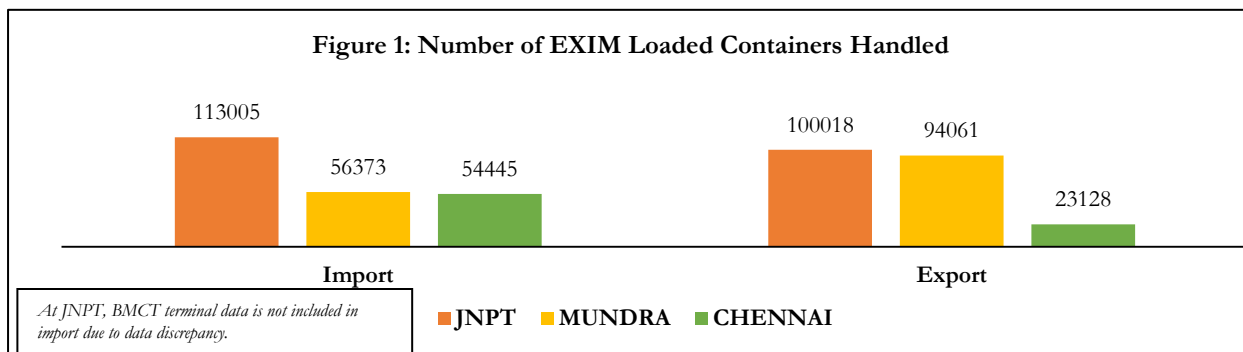
Stakeholder	Dwell Time	JNP	MUNDRA	CHENNAI	TKD
PORT	Port Dwell Time	72:36	103:00	63:35	83:10
	Port Dwell Time Containers Originated from CFS	63:29	78:46	63:20	--
	Port Dwell Time Containers Originated from ICD	98:39	106:09	65:42	--
	Port Dwell Time for DPE Containers	66:47	108:03	59:35	--
Customs	Customs Release Time	3:48	7:02	3:50	10:45
CFS	Dwell Time at CFS	115:59	181:39	94:40	--
Road Transit time	Time taken from CFS to Port	17:52	--	--	--
Rail Transit time	Time taken from TKD to Port	65:41	70:50	--	--
Overall Dwell Time		160:02	180:15	196:28	--

*\*In case of Chennai, only CFS and DPD/DPE is considered while analysing overall dwell time as we do not receive data from ICD Whitefield (Bangalore) which is the major ICD for Chennai port.*

## 6. Timeline Analysis

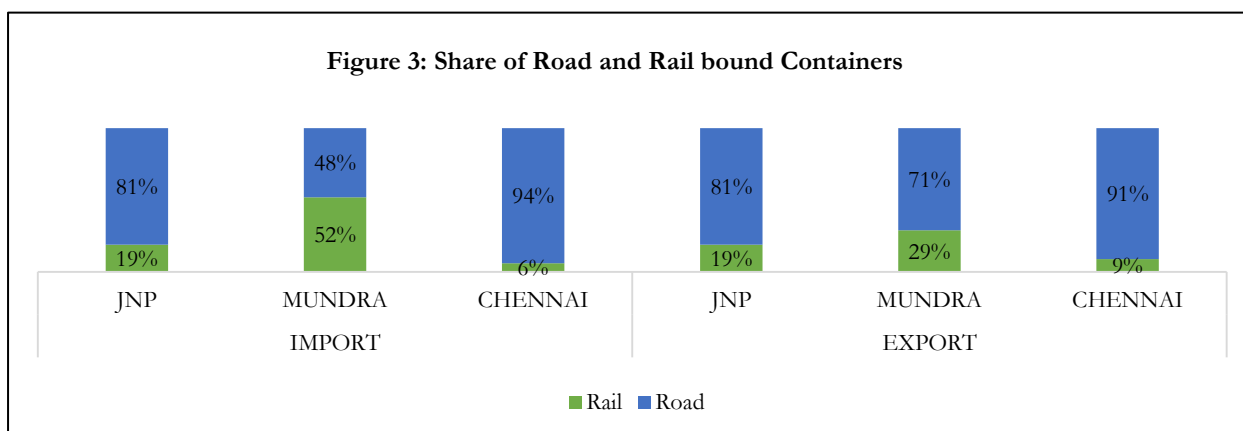
### 6.1. Loaded container Volume Handled by the Ports

The EXIM volume of loaded containers handled at the select ports has been provided in the chart below. The stats given in the figure 1, should not be confused with the total number of containers handled at the ports, which would be a higher figure than the one mentioned in the graph. The total volume of containers handled at a port also include empties, transshipment containers and containers meant for SEZ around the port.



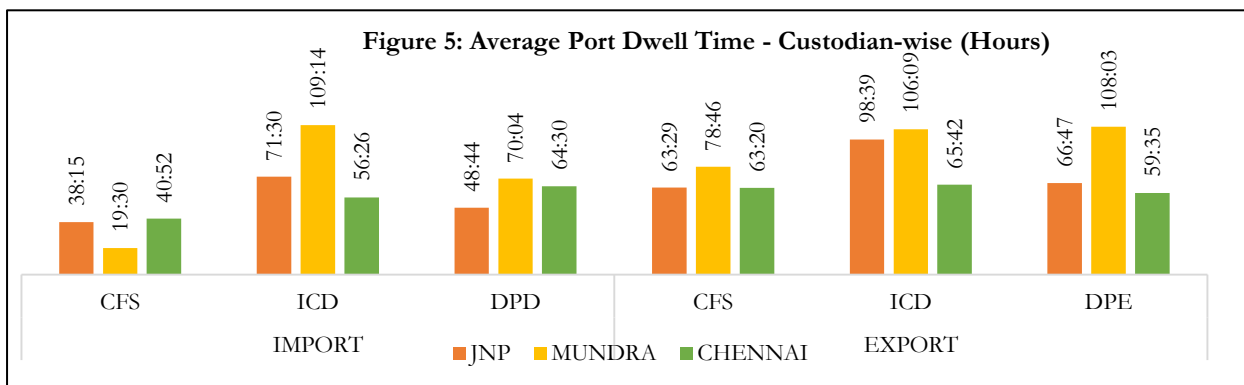
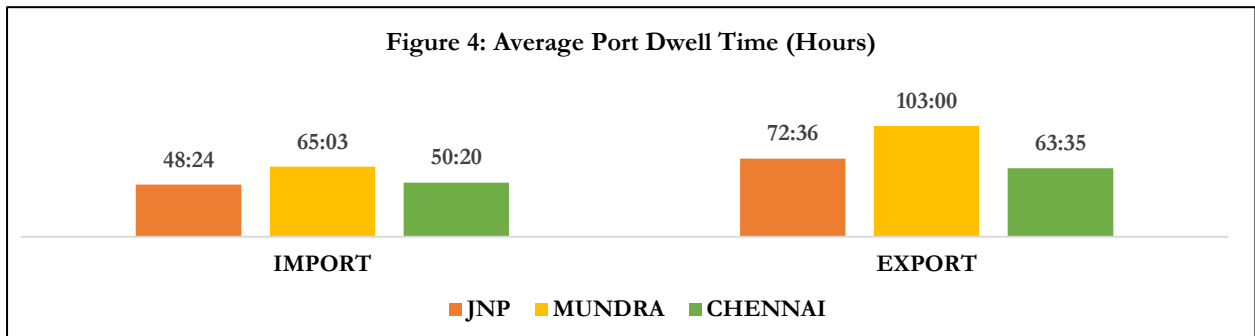
The DPD percentage has been calculated from the loaded containers excluding the ones going to ICDs. For example, if 100 containers are imported at a port out of which 20 containers are going to ICDs, the share of DPD would be calculated from the remaining 80 containers. This has been done considering the fact that the DPD facility is presently available only to the non-ICD bound containers. Further, the DPD percentage at Chennai has seen a sharp increase in the month of May-18, owing to an updated DPD segregation in the data sets provided by terminals which includes ACP, DPD/DPD and DPD/CFS containers.

The DPE percentage has been calculated from factory stuffed and CFS bound containers excluding the ones going to ICDs, however it has been estimated at the port that out of all the factory stuffed containers 70 – 75% containers are getting direct entry into the port. At Chennai Port, *Balmer Lawrie CFS* is designated for obtaining 'Let export order' for all the DPE container.

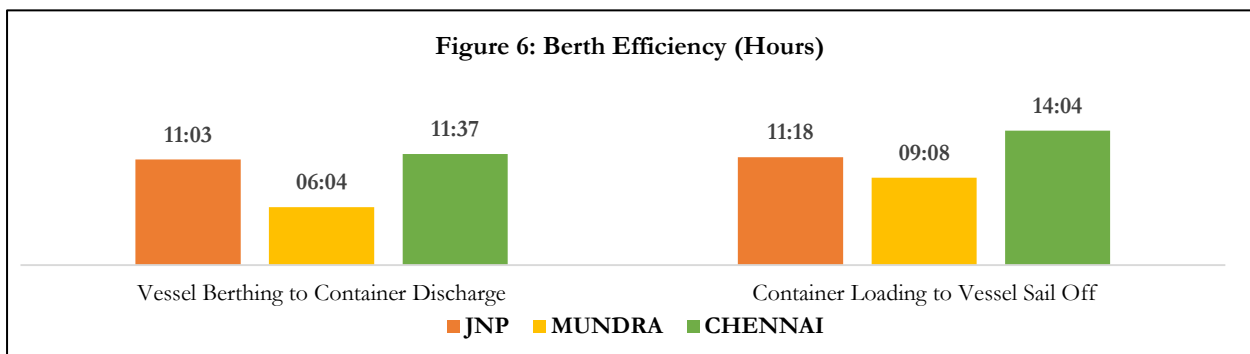


## 6.2. Port Dwell Time

Port or Terminal dwell time is the calculation of the time a container is at the terminal. It is calculated as the average time taken from container discharge from the vessel to the time of container evacuation from port gate for import and time from the entry of container into the port till it is loaded onto the vessel for export. In case of Mundra, for import, the out time has been taken as gate out from the container yard at the terminal. Terminal dwell time varies with respect to the destination or source of the container – Container Freight Station (CFS), Inland Container Depot (ICD) or Direct Delivery (DPD or DPE).



CFS operators have to obtain and submit hard copies of documents, for instance, *PNR copy (Public Notice Removal of Container)* to take the delivery at Chennai port unlike the JNP and Mundra leading to a high dwell time. The port dwell time for ICD bound containers at Chennai port is considerably low compared to other two ports. One of the reasons for this metric is that the gate out for ICD bound containers at CCTL Terminal, Chennai port is recorded when the containers move out of the terminal to be shifted to a separate Railway yard operated by CONCOR. The time spent at the railway yard till the departure of the rakes is not captured by terminals at the Chennai port.



Before the containers are discharged from the vessel, the customs, immigration and PHQ officials inspect the ship. Operational factors such as the number of quay crane moves along with external



factors such as the tide situation, vessel size, time taken for customs processes, etc. determine this metric. Similarly, post loading of containers during export process, the vessel has to be moved off the berth for sail off. This process is dependent on external factors such as favourable tide, etc. These two processes are representative of the berth efficiency at the select ports.

### 6.3. Transit Time - Import

Transit time is the time taken for the container to reach the custodian - which can either be a CFS or an ICD. The rail transit time for ICD has been calculated as the difference between the time of departure of rail from the source location to its arrival at the destination. The CFS transit time is taken from the time of exit of a container from port to its arrival (gate-in) at the CFS. The transit time through road for JNP, Chennai and Mundra has been calculated using data provided by 10, 3 and 1 CFSs respectively.

Table 3: Transit Time of Import Containers					
	JNP		Mundra		Chennai
	Road	Rail	Road	Rail	Road
Average time taken (hr)	10:46:14	59:19:16	0:57:36	78:36:23	1:40:13
<i>Road time is taken from the time of exit of a container from port to its arrival (gate-in) at the CFS, Rail time is taken from the time of departure of rail from the source location to its arrival at the ICD.</i>					

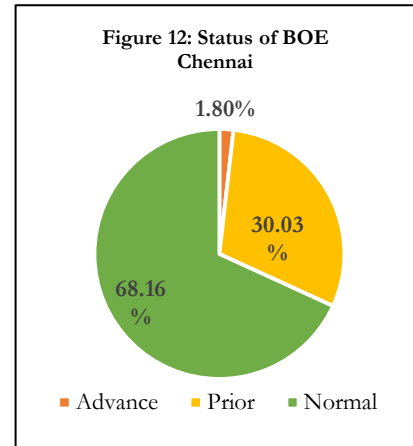
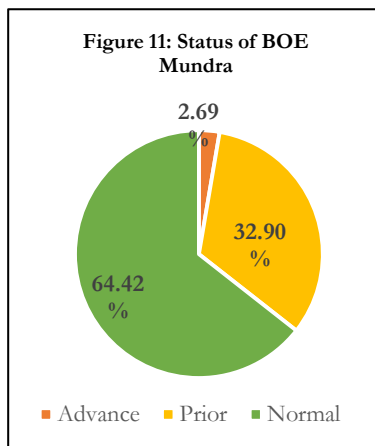
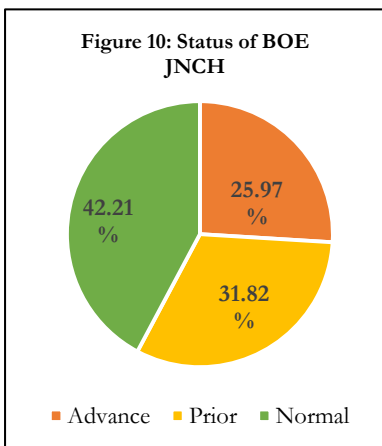
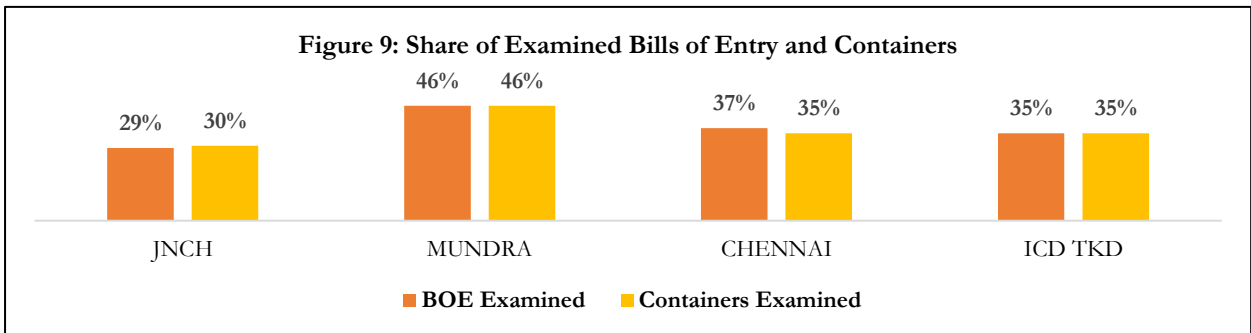
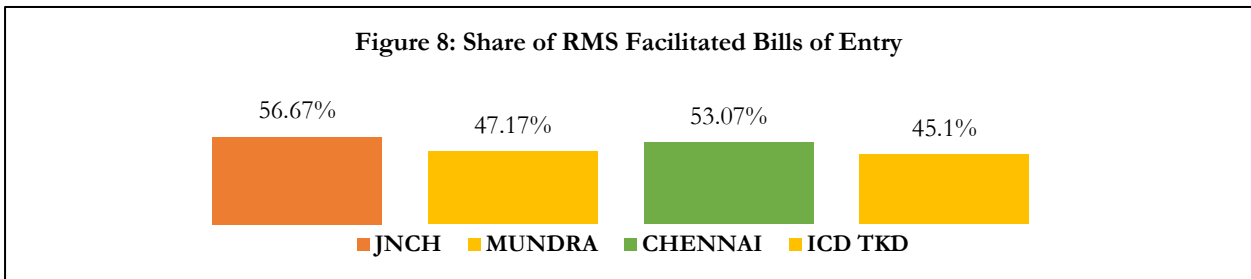
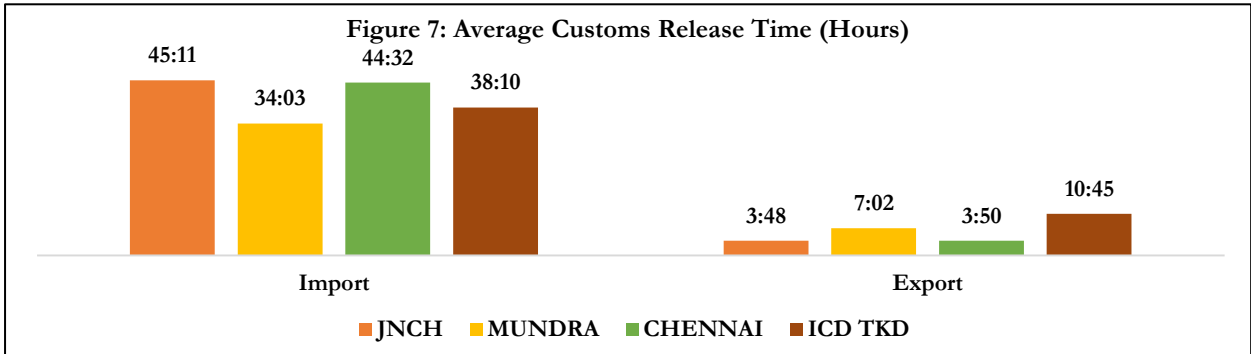
### 6.4. Transit Time – Export

Transit time for CFS and ICD has been calculated as the time taken from departure of containers from ICD or CFS to their arrival at the port. The transit time through road for JNP has been calculated using data provided by 4 CFSs.

Table 4: Transit Time of Export Containers				
	JNP		Mundra	Chennai
	Road	Rail	Rail	Road
Average time taken (hr)	17:52:02	65:41:59	70:50:30	NA
<i>Road transit is taken from departure of containers from CFS to their arrival at the port, Rail transit is taken from departure of containers from ICD to their arrival at the port.</i>				

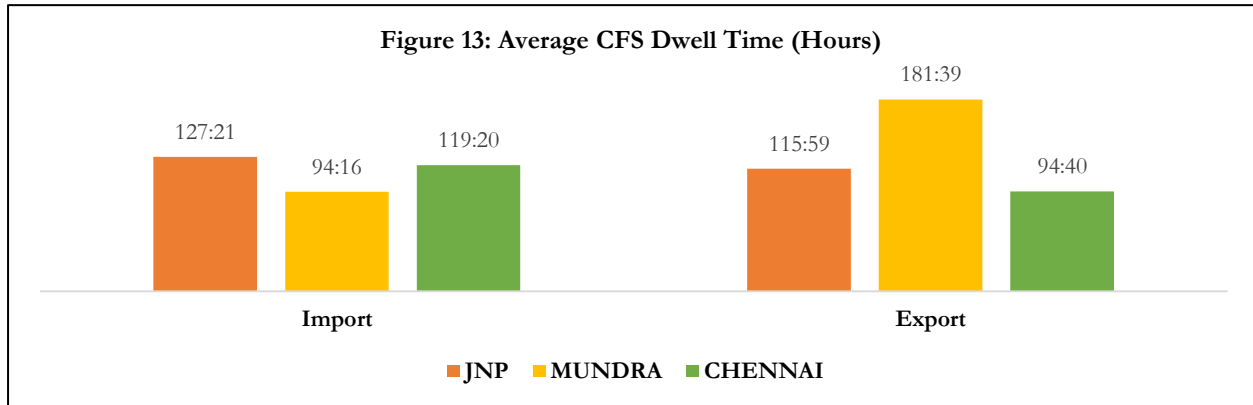
### 6.5. Customs Release Time

Customs release time is the time taken by the customs authorities, be it at the dock, at CFS or at ICD. In case of imports, the customs release time is calculated as the average time between submission of bill of entry to assessment and registration of goods to OOC [in case of RMS and Group B/E]; and registration of a container to assessment and duty payment to OOC [in case of Group (First Check) B/E]. It must be noted that the process of customs release is not linear; many agencies play a parallel role such as the PGAs, the importer/customs broker for duty payment, shipping line for delivery order and the CFS. In case of exports the release time is the duration between registration of goods and issuance of LEO.



### 6.6. Container Freight Station (CFS)

CFS import dwell time is calculated from the time of gate-in of a container at the CFS to its custom clearance which is issuance of Out of Charge (OOC) by customs in case of imports. For exports, dwell time is calculated from the issuance of export carting order to the gate-out of container from CFS. Please note that the total time taken by CFS is calculated in terms of gate-in to OOC (and not as a linear addition of time taken in the various processes) due to the sample size being different for each process and many parallel processes involving customs, customs brokers and shipping line taking place. The list of CFS along with their dwell time has been provided in the annexure.



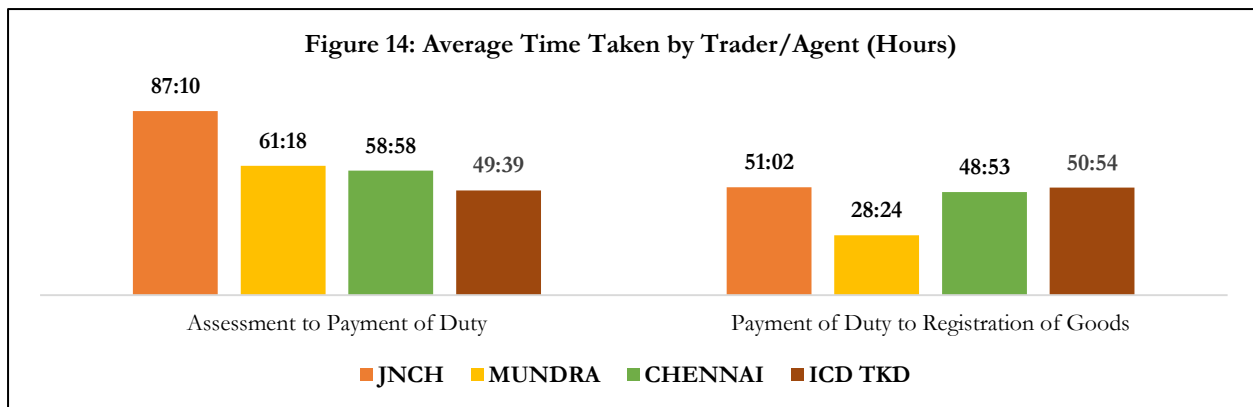
### 6.7. Inland Container Depot (ICD) Tughlakabad

The overall dwell time of containers at ICD Tughlakabad has been computed as the weighted average of overall dwell time figures for all the different categories under analysis viz. green channel factory de-stuffed/stuffed containers, non-green channel factory de-stuffed/stuffed containers, warehouse bound containers and direct de-stuffing/stuffed containers.

Table 5: ICD Tughlakabad Dwell Time	
ICD Time Import (Arrival – OOC)	<b>157:24:16</b>
ICD Time Export (Arrival – Dispatch)	<b>83:10:25</b>

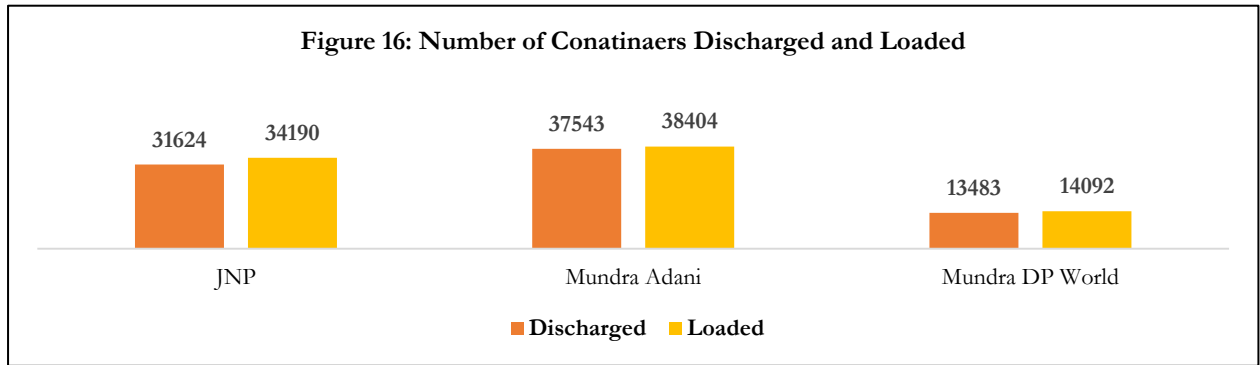
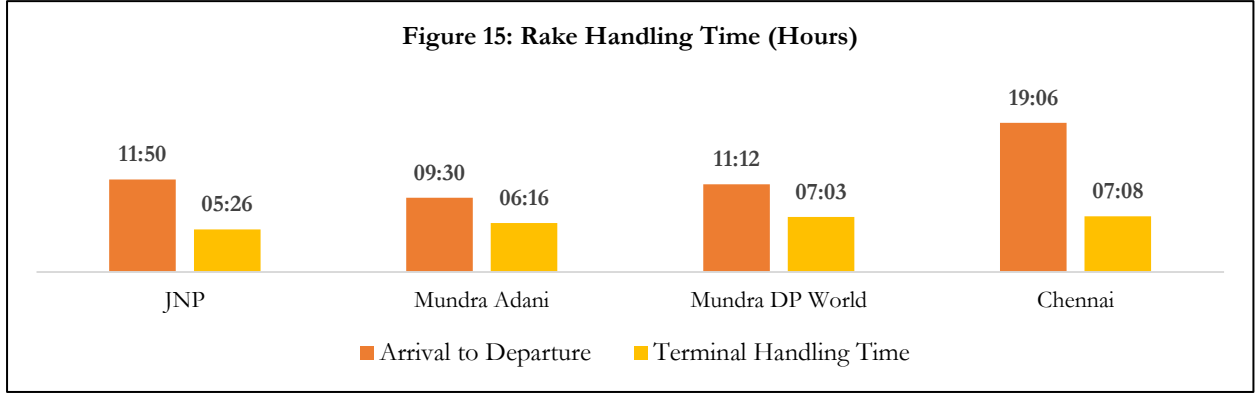
### 6.8. Time Taken by the Trade – Importers/Customs Brokers

It is imperative for time-to-release studies to take into account the time taken by the importers or their customs brokers for completing various procedures like payment of duty and registration of goods with the customs. These procedures substantially add to the custodian release time and the need for factoring in such parameters – to arrive at a clearer view of the role of and time taken by the custodians as well as the trade – is paramount. In a number of cases, delays in payment of duty by the importers or in the clearance process occur due to reasons such as: a) paucity of funds for clearances – as a result of which the cargo remains in the customs bonded area within the CFS/ICD and b) market evaluation by the traders before releasing goods from the custodian. For ease of doing business, it is important that the importer completes the necessary payments and formalities on time to ensure timely completion of rest of the procedures.



### 6.9. Rake Handling

The turnaround time of rakes at the terminals is the time taken from arrival of rake to its departure from the terminal. The processes that take place during this period include discharge of export containers or empty containers, loading of import containers, submission of rake removal memo and coupling of engine. The time taken by the terminal to unload the export cargo and load the import cargo is called the Rake Handling Time. The turnaround time and the rake handling time at the JNP, Chennai and Mundra port is depicted in Figure 15.



### 6.10. Shipping Line Delivery order

The shipping line provides delivery order (DO) as a final confirmation for delivery of cargo to the customs broker. Any delay by the shipping line in providing delivery order gets added to the total time of the container at CFS/ICD. Some DOs are given after issue of OOC by customs, while others are generated at the same time or prior to OOC, Table 6.

<b>Table 6: Average Time Taken for Generation of Delivery Orders by Shipping Lines</b>			
	<b>JNP</b>	<b>Mundra</b>	<b>Chennai</b>
<b>Total no. of DO</b>	<b>16538</b>	<b>586</b>	<b>4423</b>
No. of DOs prior to OOC	6019	264	832
No. of DOs given post OOC	6784	154	2756
No. of DOs received on same day as OOC	3735	168	835
<b>Average time taken from CFS gate-in to receiving delivery order</b>	<b>177:44:13</b>	<b>110:02:18</b>	<b>148:17:03</b>

### 6.11. Partner Government Agencies

Partner government agencies (PGAs) are the allied agencies that are required to examine and provide clearance to certain types/categories of cargo. They play a key role in the overall process of cargo clearance. In an earlier practise, the time required by these agencies was added in the customs release time, however, some cargo (particularly perishable) is now released before the arrival of report by PGAs on the basis of a bond guarantee. This report analyses the time taken from sample collection to publishing of report by 3 PGAs -Animal Quarantine (AQ) for Mundra and JNP region and Food Safety and Standards Authority of India (FSSAI) for JNP and Chennai region and Drugs Controller for Chennai region. Please note that the reports for some agencies like PQ and FSSAI may also be received after out-of-charge due to nature of the cargo.

Table 7: AQCS Release Time		
	AQCS (JNP)	AQCS (Mundra)
Total number of entries (n)	<b>463</b>	<b>164</b>
<b>Average Time taken from Application to NOC for all BoEs (hr)</b>	48:09:38	13:54:12
<b>Total number of BoEs</b>	462	164
<b>BOEs for which sample was collected</b>	171	12
<b>Average Time taken from Application to NOC for sample collected BoEs</b>	268:48:00	104:00:00
<b>BoEs for which provisional NOC was issued</b>	190	10
<b>BoEs for which Provisional NOC was issued on the day of application</b>	188	9

In case of FSSAI, the release time has been calculated as the summation of time taken by the FSSAI at various stages of the overall clearance process. The release in case of cargo where sample was collected is the time is a summation of the average time between filing of application by the trader to the time when the officer at the FSSAI scrutinises the documents, payment of dues to collection of sample, sample collection to the issuance of the NOC. In case of cargo where no sample has been drawn, the release time is the summation of the duration between filing of application and issuance of NOC.

Table 8: FSSAI Release Time (Chennai)			
	Sample	Non- Sample	Not in Scope
Total number of entries (n)	913	18	273
<b>Total number of BoEs</b>	827	10	115
<b>Average FSSAI Release time (hr)</b>	<b>144:01:08</b>	<b>37:51:43</b>	<b>124:42:41</b>

Table 9: FSSAI Release Time (JNP)			
	Sample	Non- Sample	Not in Scope
Total number of entries (n)	2717	245	126
<b>Total number of BoEs</b>	1778	142	92
<b>Average FSSAI Release time (hr)</b>	<b>189:51:01</b>	<b>53:15:35</b>	<b>79:56:46</b>

In case of CDrug, the release time has been calculated as the summation of time taken by the CDrug at various stages of the overall clearance process. The release in case of cargo where sample was collected is the time is a summation of the average time between filing of application by the trader to the time when the officer at the CDrug scrutinises the documents, scrutinises the documents to collection of sample, sample collection to the issuance of the NOC. In case of cargo where no sample has been drawn, the release time is the summation of the duration between filing of application and issuance of NOC.

<b>Table 10: CDSCO Release Time (Chennai)</b>			
	<b>Sample</b>	<b>Non- Sample</b>	<b>Not in Scope</b>
Total number of entries (n)	38	1247	496
<b>Total number of BoEs</b>	14	521	336
<b>Average CDSCO Release time (hr)</b>	<b>154:46:29</b>	<b>42:56:18</b>	<b>4:21:17</b>

*Note: There is no time mentioned in the activities in the data sets, therefore, two activities taking place on same day have a difference of zero hours between them which is technically incorrect. Due to this limitation the average clearance time much lesser than other PGAs represented in this section.*

Due to unavailability of data from all PGAs from all the selected locations, present study also calculates the PGA clearance time from the data recorded by customs SWIFT platform. The only limitation with the usage of SWIFT data is that it only captures the starting process which is BoE sharing date and the culminating activity, NOC receiving time. Therefore, whilst comparing the PGA figures from the tables provided below, it must be borne in mind that the time mentioned also includes the time taken by the trade.

<b>Average Time Taken by PGAs (JNCH)</b>					
	<b>PQIS</b>	<b>FSSAI</b>	<b>WCCB</b>	<b>CDRUG</b>	<b>AQCS</b>
Total number of entries (n)	14564	15963	99	22569	2127
<b>Total number of BoEs</b>	1371	1473	16	3304	542
<b>Average time taken (hr)</b>	<b>197:22:45</b>	<b>271:24:57</b>	<b>21:31:05</b>	<b>150:00:06</b>	<b>163:20:48</b>

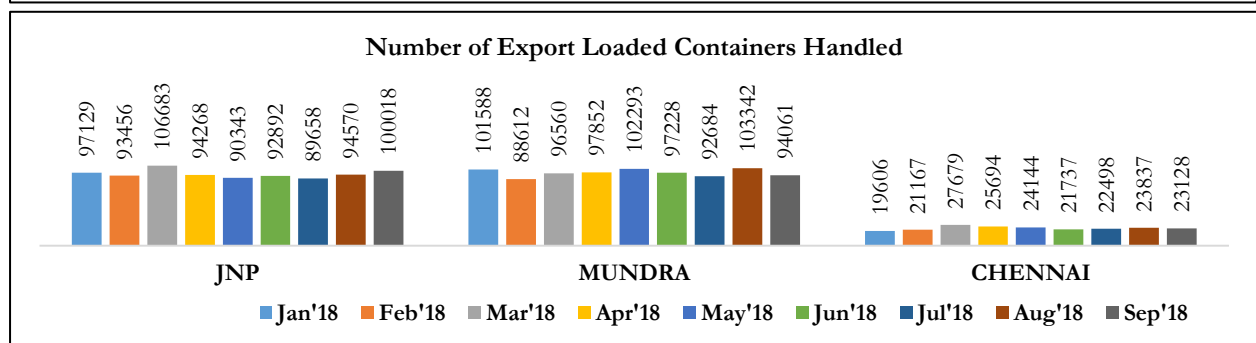
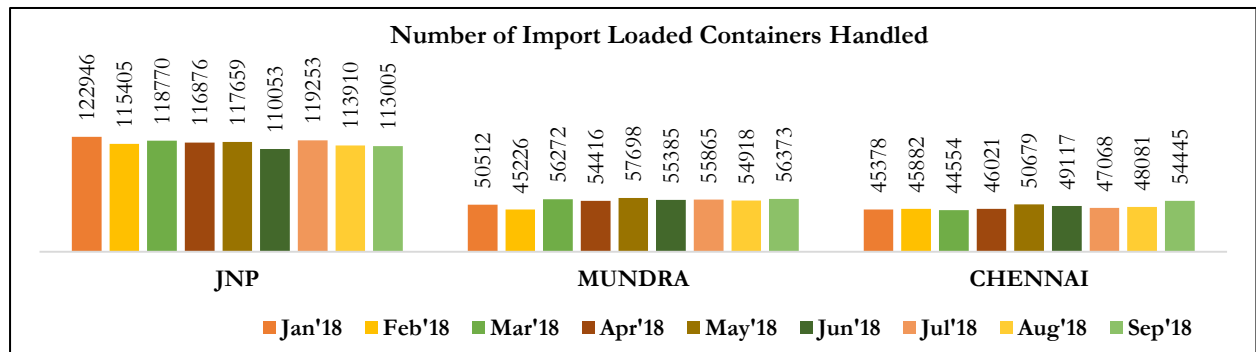
<b>Average Time Taken by PGAs (Mundra Customs)</b>					
	<b>PQIS</b>	<b>FSSAI</b>	<b>WCCB</b>	<b>CDRUG</b>	<b>AQCS</b>
Total number of entries (n)	3213				
<b>Total number of BoEs</b>	794				
<b>Average time taken (hr)</b>	<b>152:16:56</b>				

<b>Average Time Taken by PGAs (Chennai Customs)</b>					
	<b>PQIS</b>	<b>FSSAI</b>	<b>WCCB</b>	<b>CDRUG</b>	<b>AQCS</b>
Total number of entries (n)	1132	975	39	1356	1152
<b>Total number of BoEs</b>	817	748	14	614	410
<b>Average time taken (hr)</b>	<b>188:41:02</b>	<b>204:16:29</b>	<b>11:04:37</b>	<b>90:39:18</b>	<b>133:55:00</b>

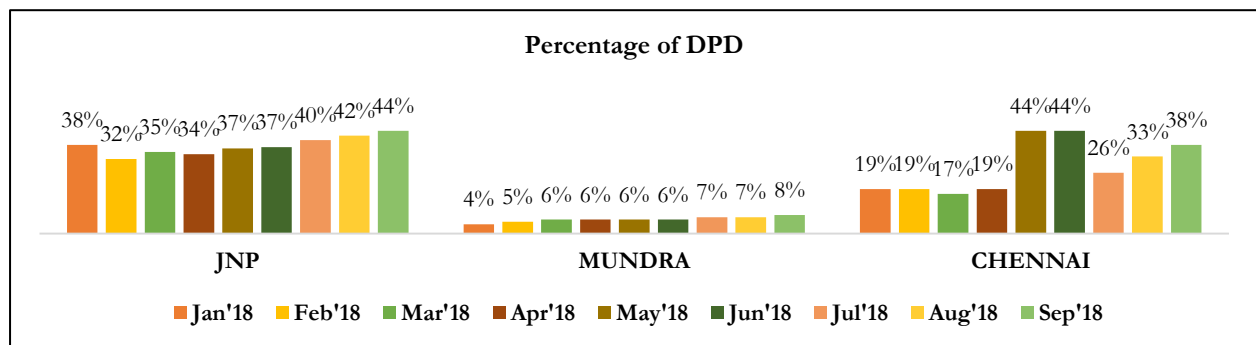
<b>Average Time Taken by PGAs (ICD TKD Customs)</b>					
	<b>PQIS</b>	<b>FSSAI</b>	<b>WCCB</b>	<b>CDRUG</b>	<b>AQCS</b>
Total number of entries (n)	15160	3363	7	1643	438
<b>Total number of BoEs</b>	142	116	5	152	74
<b>Average time taken (hr)</b>	<b>204:23:38</b>	<b>298:30:37</b>	<b>28:10:34</b>	<b>138:06:24</b>	<b>174:29:45</b>

## 7. Trend Analysis

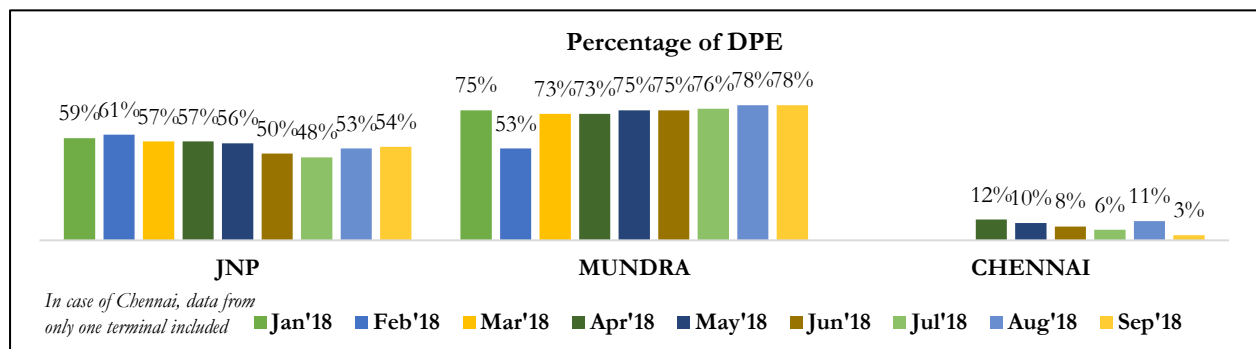
### Volume of EXIM Cargo Handled



### Share of DPD

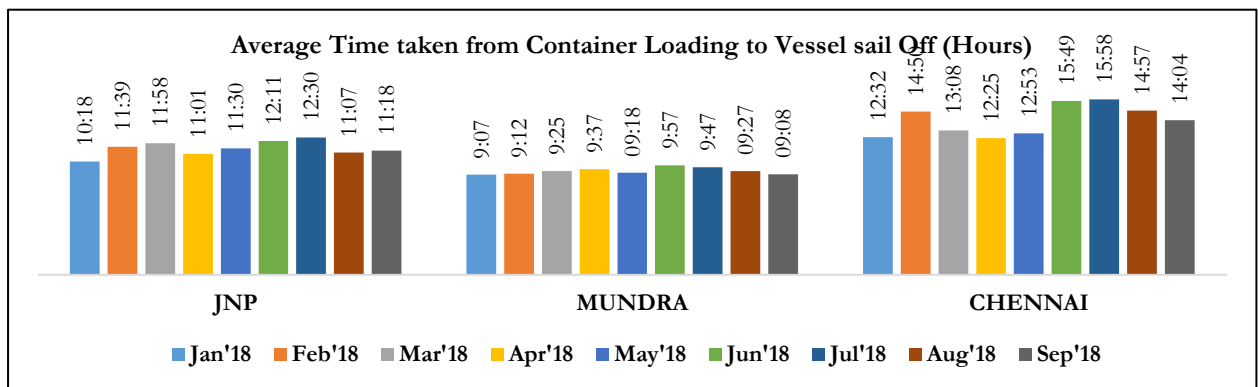
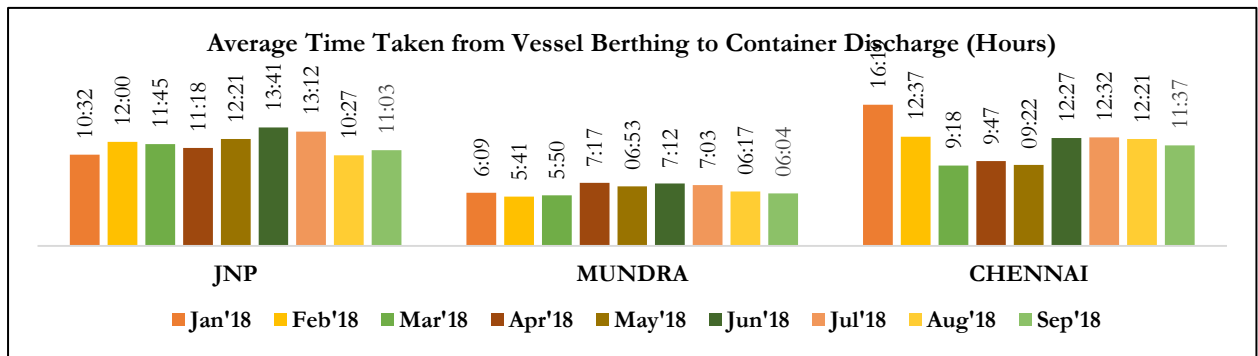


### Share of DPE

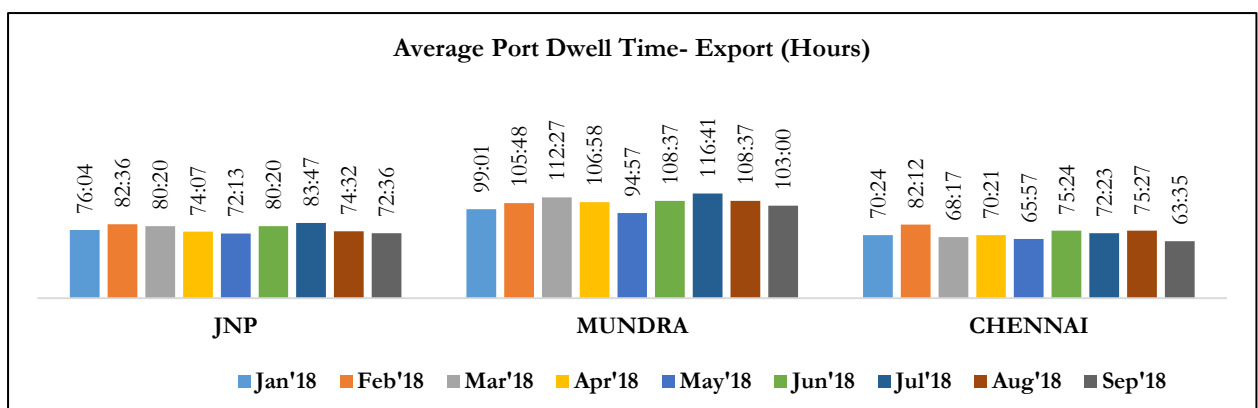
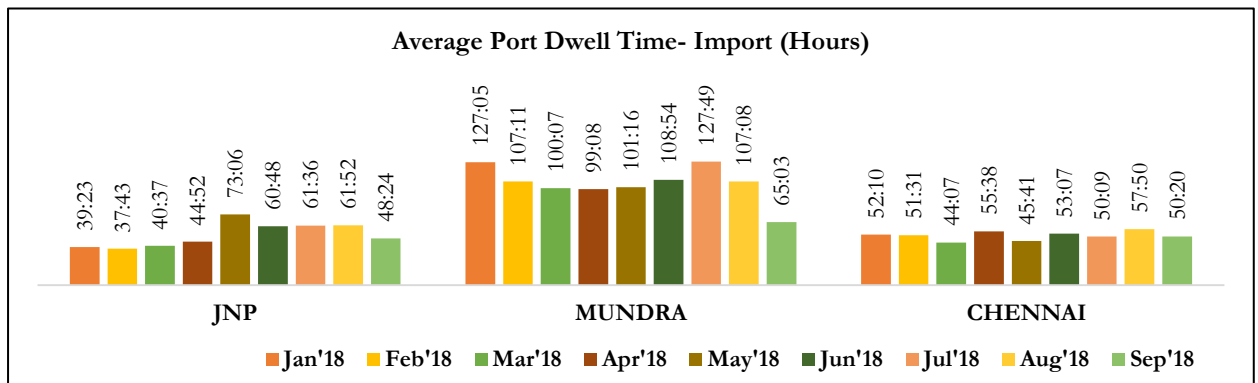




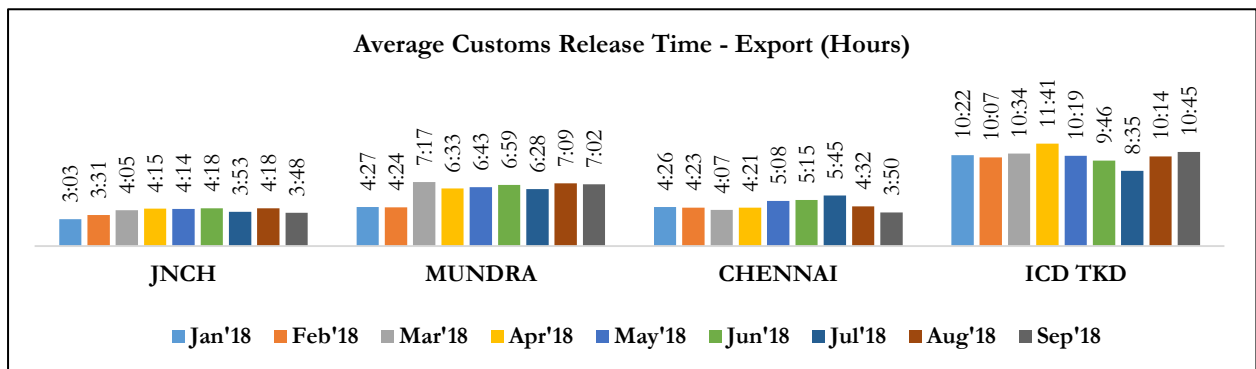
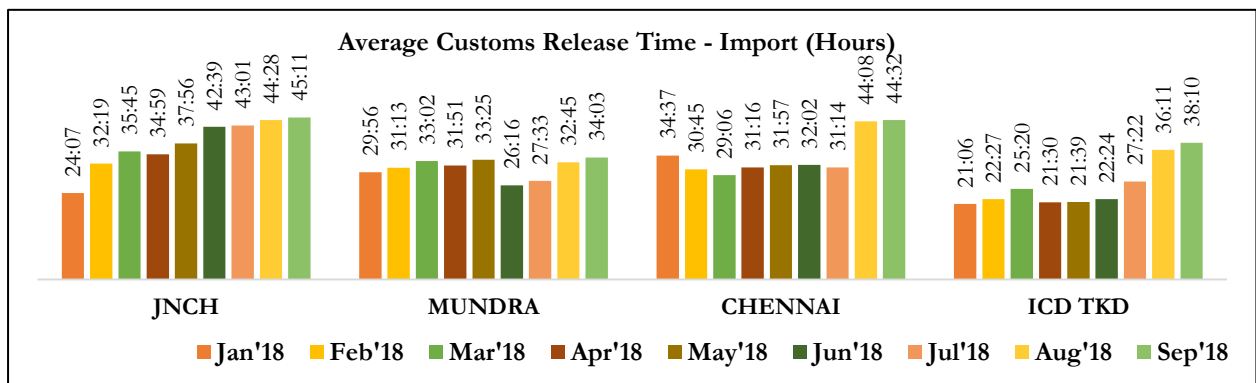
## Berth Efficiency



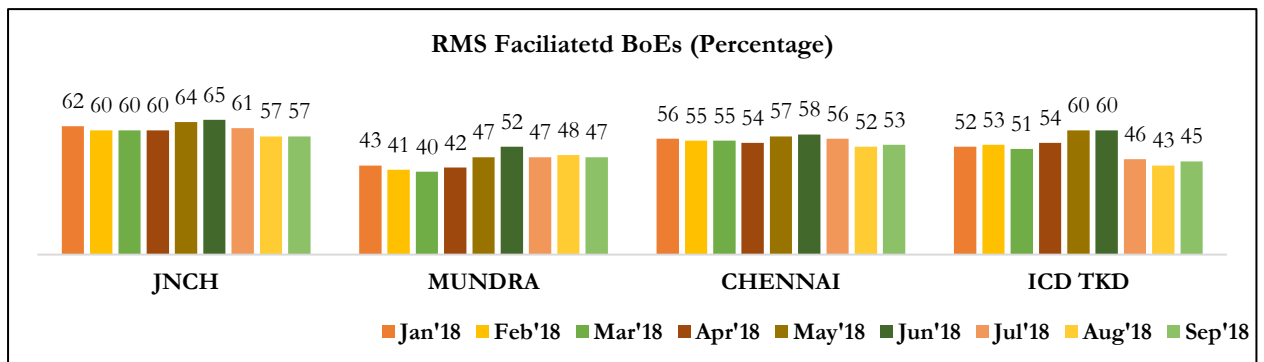
## Port Dwell Time



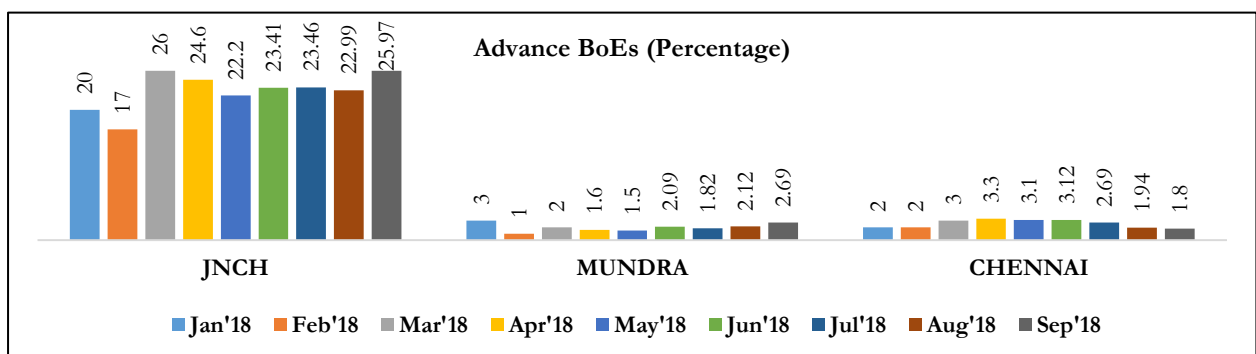
### Customs Release Time



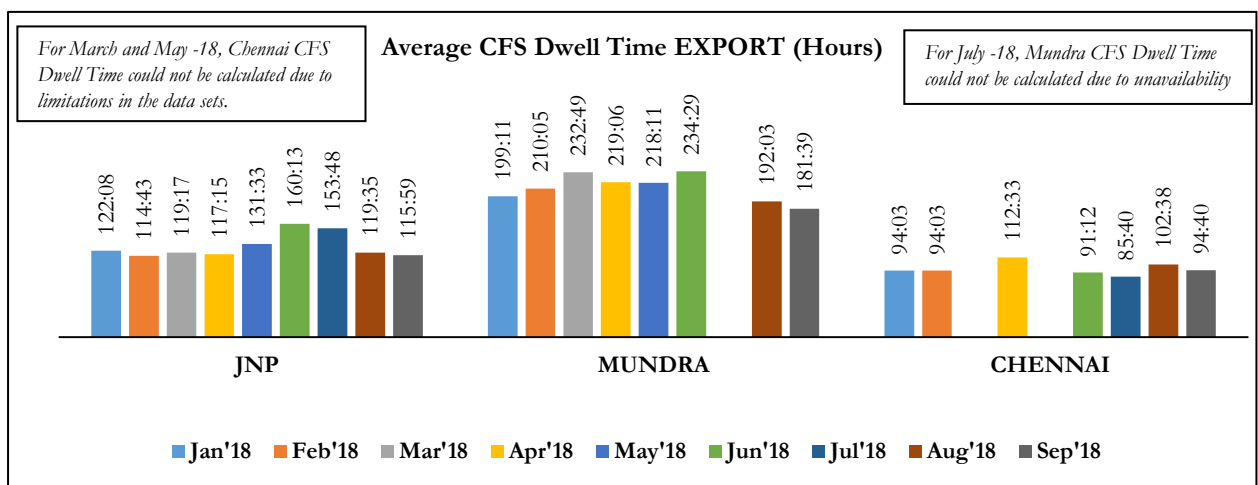
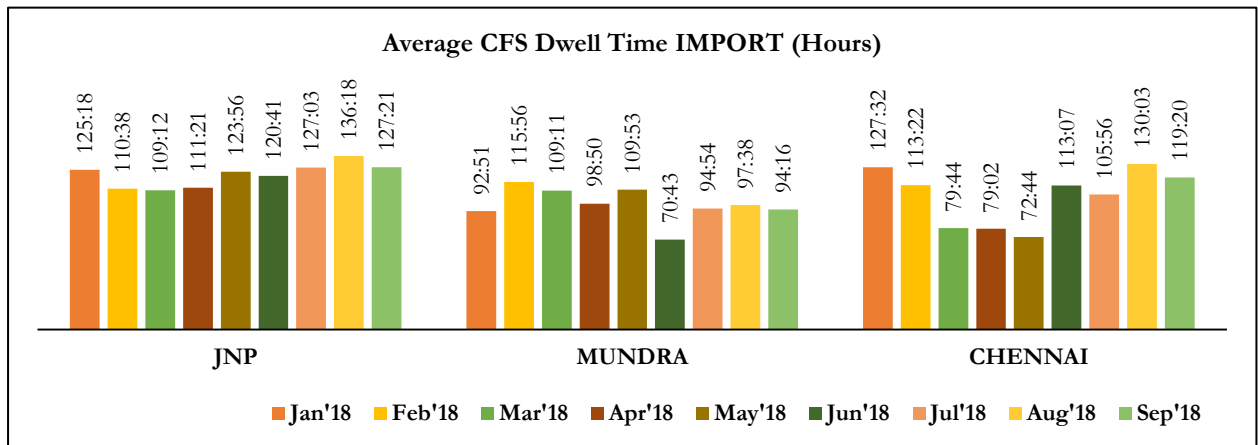
### Share of RMS facilitated BoEs



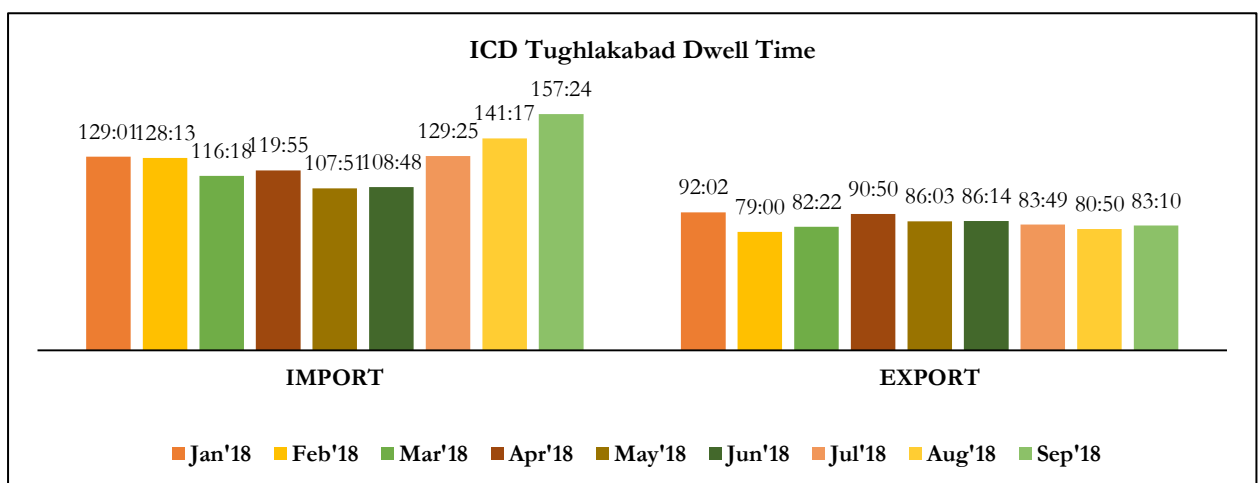
### Share of Advance BoE



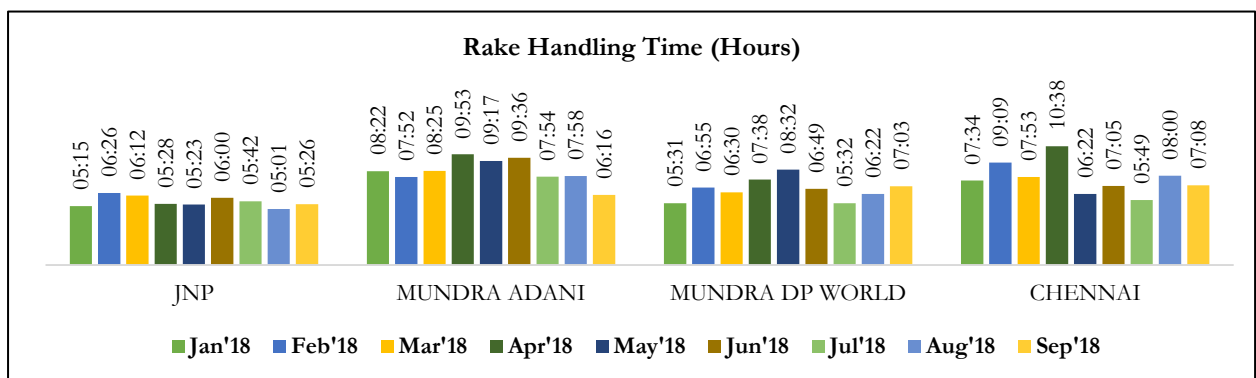
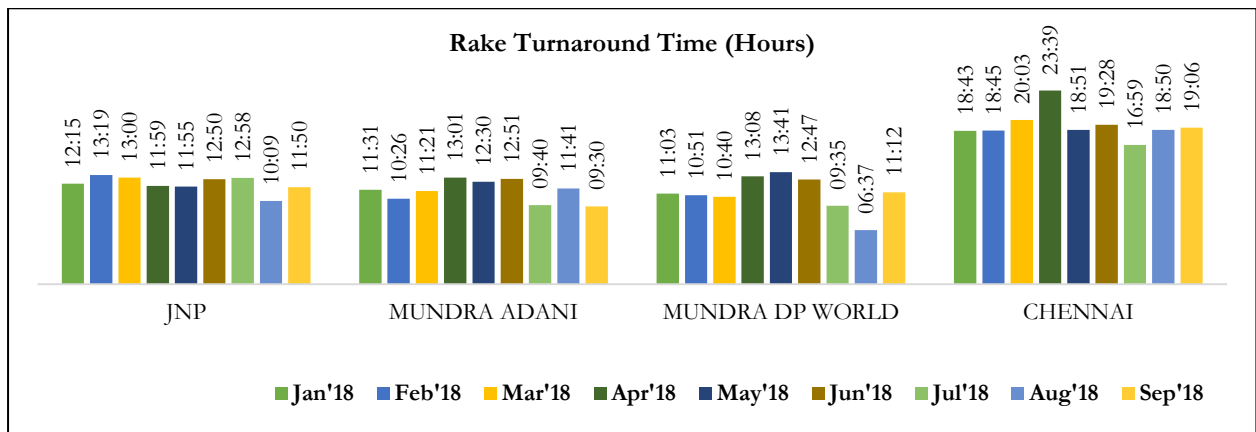
## CFS Dwell Time



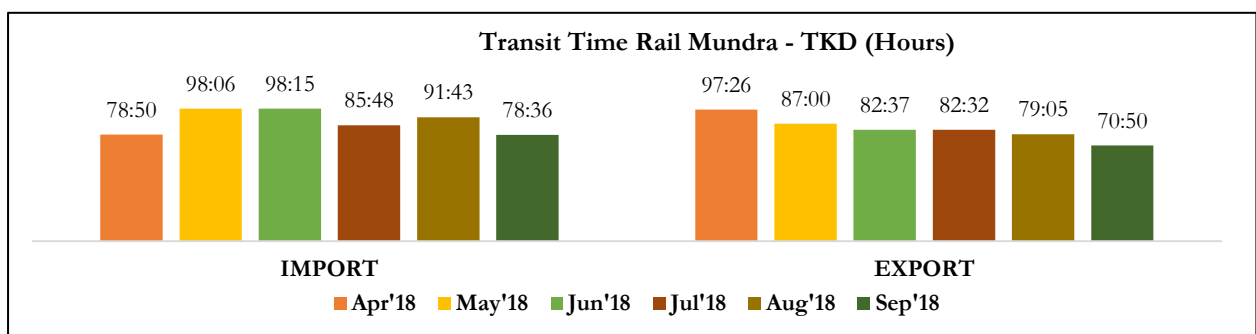
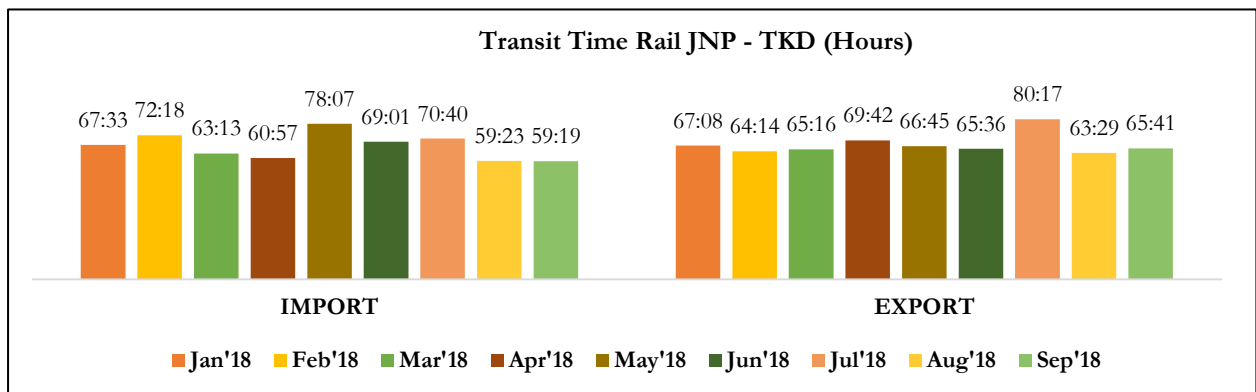
## ICD TKD Dwell Time



## Rake Handling



## Rail Transit Time



## Annexure-I

### Time Taken from Vessel Arrival to Vessel Berthing

Terminal	Time- Hours
JNPCT	36:18:05

### Timelines for the Import of Auto-components from South Korea and Export of Electrical Machinery to US at JNP

Import Timeline of Auto components from South Korea	
Parameter	Value
Number of BoEs	125
Number of Containers	20886
RMS Facilitated BoEs	100 (80%)
Import Dwell Time (Entry Inward to OOC)	149:29:18
Customs Release Time	49:11:39

Export Timeline of Electrical Machinery to US	
Particulars	Value
Number of SBs	535
Number of Containers	2791
Customs Release Time	1:58:26

### Number of Containers Handled by Ports EXIM

Number of Loaded Containers Terminal-wise			
Port	Terminal	Export	Import
JNP	JNPCT	14526	26639
	GTICT	35166	57191
	NSICT	16614	8561
	NSIGT	23837	20614
	BMCT	9875	NA
Chennai	CCTL	12240	19131
	CITPL	10888	35314
Mundra	ACMTPPL	17184	7343
	AICTPL	35468	16850
	AMCT	22662	18947
	MICT	18747	13233
<b>Total</b>		<b>217207</b>	<b>223823</b>

### Port Dwell Time Terminal-wise- Import

Terminal Wise Activities (Imports)					
Port	Terminal	Vessel Berthing to Container Discharge		Container Discharge to Port Out	
		N	Avg.	N	Avg.
JNP	JNPCT	26638	13:20:01	26518	54:58:51
	GTICT	57191	11:04:22	54996	45:22:47
	NSICT	8561	4:34:18	8561	49:23:23
	NSIGT	20614	10:46:23	20614	47:39:49
Chennai	CCTL	19131	10:52:44	19131	51:01:37
	CITPL	35314	12:01:55	33648	49:56:43
Mundra	ACMTPL	7343	6:25:33	6495	61:18:56
	AICTPL	16850	6:53:11	15353	59:25:06
	AMCT	18947	5:37:31	17609	54:28:25
	MICT	13233	5:29:40	12924	88:05:13

### Port Dwell Time Terminal-wise- Export

Terminal Wise Activities (Exports)					
Port	Terminal	Container In to Container Loading		Container Loading to Vessel Sail Off	
		N	Avg.	N	Avg.
JNP	JNPCT	14526	77:30:50	14005	15:46:53
	GTICT	35165	72:09:38	35166	11:11:35
	NSICT	14771	71:53:58	16597	7:24:18
	NSIGT	21535	72:21:21	21535	9:39:55
	BMCT	9872	68:31:28	9875	15:26:42
Chennai	CCTL	12240	69:08:04	12239	14:29:13
	CITPL	10888	57:21:24	10888	13:37:13
Mundra	ACMTPL	17184	109:45:49	17184	9:48:08
	AICTPL	35468	103:10:13	35468	10:22:13
	AMCT	22662	102:45:22	22662	7:55:19
	MICT	18747	96:46:23	18747	7:43:18

### CFS Process Timelines - Import

CFS Process Timelines (Import)								
Port	CFS	Entries	N	GIN to SC	N	SC to OOC	N	GIN to OOC
JNP	Allcargo Logistics Annex	3,758	3425	87:30:36	2850	13:55:42	3148	91:07:51
	Allcargo Logistics	17	16	55:54:32	13	7:23:05	12	63:17:28
	Ameya Logistics	2,928	2928	98:48:21	1054	74:44:41	2581	115:41:31
	APM Terminals Main & Annex	4,022	NA	NA	NA	NA	3333	157:10:38
	Apollo Logisolutions	2,435	2379	145:51:53	537	81:38:18	1709	159:17:02
	Ashte Logistics	2,402	2402	75:13:02	1699	33:43:07	2039	100:25:33
	Balmer Lawrie	1,717	1663	144:27:55	1714	35:50:59	1649	172:41:18
	EFC Logistics	1,419	1419	53:19:33	265	35:56:37	936	57:44:45
	GDL	2,265	1999	107:41:38	213	0:00:00	96	11:00:00
	Globicon Terminals	2,544	2521	101:36:26	2122	38:50:20	2245	133:57:42
	ICTPL	3,043	1685	109:47:44	545	115:23:23	2442	127:25:28
	JWC Logistics	1,434	1424	113:08:01	755	40:52:11	1180	128:10:07
	JWR Logistics	1	1	102:24:00	NA	NA	1	33:34:00
	Oceangate Container Terminal	1,459	1441	114:56:47	302	85:42:41	1011	132:54:32
	Punjab Conware	1,978	1946	132:23:41	1978	2:08:08	1946	134:07:17
	Seabird Marine Services	3,398	3398	93:47:38	627	96:05:48	2235	105:28:54
	Speedy Multimodes	2,374	2299	140:45:54	700	98:14:04	1992	159:50:36
	Vaishno Logistics Yard	459	453	113:52:19	147	75:07:45	385	119:38:57
Chennai	All Cargo	4,416	4105	80:48:24	4181	109:44:32	4272	179:04:05
	CWCNSL, Madavaram	1,082	1082	7:11:12	1082	0:00:00	1082	7:11:12
	CWCNSL Redhills	514	182	58:17:09	182	34:01:19	468	79:50:46
	ECCT	1,252	436	96:10:43	193	66:25:56	1070	99:47:13
	GDL	3,202	1626	80:55:41	959	30:04:53	2143	75:18:57
Mundra	Allcargo Logistics	2,553	2407	96:24:51	1838	26:13:11	2244	90:29:51
	Mundra CFS	586	586	121:15:52	111	51:07:53	534	110:06:47

## CFS Process Timelines - Export

CFS Process (Export)								
Port	CFS	Entries	N	ECO to STUFF	N	STUFF to MO	N	ECO to GO
<b>JNP</b>	Allcargo Logistics Annex	1676	1673	78:39:34	NA	NA	1672	94:54:39
	Allcargo Logistics	221	209	158:01:47	NA	NA	208	196:18:14
	Ameya Logistics	667	665	81:42:14	667	23:31:42	665	109:00:01
	Apollo Logisolutions	1855	1705	119:26:43	1832	34:18:55	1764	177:29:51
	Ashte Logistics	555	NA	NA	555	5:45:05	NA	NA
	Balmer Lawrie	244	NA	NA	244	0:00:00	NA	NA
	EFC Logistics India Pvt Ltd	306	272	115:29:20	304	25:03:04	268	134:28:07
	GDL	5709	5692	98:44:26	5652	8:25:13	5688	116:26:35
	Globicon Terminals	320	318	92:24:35	320	2:35:29	316	121:35:13
	ICTPL	1251	NA	NA	1251	20:11:40	NA	NA
	JWC Logistics	3994	NA	NA	3044	27:10:38	NA	NA
	JWR Logistics	4954	NA	NA	4923	8:39:06	NA	NA
	Navkar Corp-1-2-3	4336	4294	89:00:02	2673	43:09:49	4296	126:42:33
	Oceangate Container Terminal	634	604	140:24:26	344	54:38:41	600	184:04:34
	Punjab Conware	15515	15432	81:23:48	15515	17:26:28	15426	104:13:32
	Seabird Marine Services	480	NA	NA	311	24:58:27	NA	NA
	Speedy Multimodes	1648	NA	NA	1463	43:49:58	NA	NA
Vaishno Logistics Yard CFS	280	NA	NA	279	32:24:18	NA	NA	
<b>Chennai</b>	ALLCARGO	3839	3837	107:40:13	3839	12:42:38	3837	113:58:08
	Calyx CFS	1427	NA	NA	609	39:40:02	NA	NA
	CWCNSL, Redhills	1840	1835	54:20:36	1840	0:00:00	1835	54:20:36
<b>Mundra</b>	Allcargo Logistics	1020	953	121:55:40	1014	33:44:28	952	161:46:00
	Mundra CFS	1900	1756	173:01:03	1074	25:06:30	1746	192:30:03



### ICD Process Timelines- Import

ICD Cumulative (Import)								
Number of Containers	N	GC-FAC	N	Non-GC-FAC	N	Warehouse	N	Direct
Arrival to EJO	NA	NA	1577	99:15:15	89	129:26:22	149	110:36:07
EJO to DJO	NA	NA	NA	NA	110	85:06:39	NA	NA
DJO to De-stuffing	NA	NA	NA	NA	107	7:39:35	NA	NA
EJO to OOC	NA	NA	1575	97:56:35	NA	NA	144	88:06:07
De-stuffing to OOC	NA	NA	NA	NA	70	95:13:09	NA	NA
OOO to DJO	NA	NA	NA	NA	NA	NA	140	48:29:42
OOO to Gate pass	1792	25:44:41	1537	13:29:17	60	69:03:35	NA	NA
DJO to Gate Pass	NA	NA	NA	NA	NA	NA	150	5:46:59
Gate Pass to Departure	1860	24:42:59	1585	17:24:20	110	2:19:44	153	2:22:23
Arrival to OOC	<b>1831</b>	<b>122:33:09</b>	<b>1552</b>	<b>190:43:26</b>	<b>103</b>	<b>244:28:25</b>	<b>145</b>	<b>179:00:56</b>
Arrival to Departure	1823	170:43:21	1545	218:09:05	99	269:09:35	142	216:10:36

### ICD Process Timelines- Export

ICD Cumulative (Export)							
Number of Containers	N	GC-FAC	N	Warehouse	N	Direct	
Arrival to CRN	461	27:08:40	NA	NA	NA	NA	
Arrival to LEO	NA	NA	214	43:00:54	6	24:58:47	
CRN to LEO	461	16:58:14	NA	NA	NA	NA	
LEO to Loading	456	23:43:40	NA	NA	NA	NA	
LEO to Stuffing	NA	NA	215	25:36:02	6	1:04:11	
Stuffing to Sealing	NA	NA	212	10:28:42	4	0:27:42	
Sealing to Loading	NA	NA	215	38:28:09	6	62:46:17	
Loading to Dispatch	373	1:15:56	184	1:34:17	6	2:24:55	
Arrival to Dispatch	<b>461</b>	<b>66:49:55</b>	<b>214</b>	<b>118:08:33</b>	<b>6</b>	<b>91:32:05</b>	

PGA

AQCS Process-wise												
Agency	N	BoE	N	BoE to APP	N	APP to SMP	N	SMP to RPT	N	RPT to NOC	N	APP to NOC
AQCS JNP	463	462	456	181:03:09	172	0:00:00	38	239:22:06	316	3:29:37	299	48:09:38
AQCS Mundra	164	164	161	129:05:35	11	4:21:49	6	88:00:00	158	0:36:27	145	13:54:12

FSSAI Process-wise (Chennai)						
Process	Sample		Non-Sample		Not in Scope	
	N	Avg. Time	N	Avg. Time	N	Avg. Time
BoE to Application	911	88:07:49	18	115:20:05	272	174:45:31
Application to Scrutiny	913	34:32:52	18	28:17:10	273	118:36:14
Scrutiny to NOC	NA	NA	17	10:19:08	273	6:06:27
Scrutiny to Payment	912	15:48:11	NA	NA	1	32:15:14
Payment to Sample	280	36:47:34	NA	NA	NA	NA
Sample to NOC	913	72:40:42	NA	NA	NA	NA
Application to NOC	NA	NA	18	37:51:43	273	124:42:41
<b>Total Time</b>	<b>913</b>	<b>144:01:08</b>	<b>18</b>	<b>37:51:43</b>	<b>273</b>	<b>124:42:41</b>

FSSAI Process-wise (JNP)						
Process	Sample		Non-Sample		Not in Scope	
	N	Avg. Time	N	Avg. Time	N	Avg. Time
BoE to Application	2702	126:09:39	243	167:45:58	112	157:08:08
Application to Scrutiny	2717	47:26:09	245	38:29:31	126	58:02:15
Scrutiny to NOC	NA	NA	196	18:43:17	126	21:54:30
Scrutiny to Payment	2704	23:56:26	58	14:54:41	13	3:06:45
Payment to Sample	1999	45:04:17	NA	NA	NA	NA
Sample to NOC	2703	97:20:35	NA	NA	NA	NA
Application to NOC	NA	NA	245	53:15:35	126	79:56:46
<b>Total Time</b>	<b>2717</b>	<b>189:51:01</b>	<b>245</b>	<b>53:15:35</b>	<b>126</b>	<b>79:56:46</b>

## Annexure-II

### Methodology

Monthly Segregation of Data		
Stakeholder	Import	Export
Port	Vessel Berthing	Port In
Customs	Out of Charge	Let Export Order
CFS	Gate Out	Gate Out
ICD	Departure	Departure
PGA	NOC	NOC

Dwell Time Calculation		
Stakeholder	Import	Export
Port	Container Discharge to Port Out	Port In to Container Loading
Customs	Submission of BoE to OOC	Registration to LEO
CFS	Gate in to OOC	Carting to Gate Out
ICD	Arrival to OOC	Arrival to Departure
PGA	Application to NOC	Application to NOC
Rake TRT	Arrival of Rake to Departure	
Rake THT	Unloading to Loading of Containers	

*\*TRT- Turn Around Time; THT- Terminal Handling Time*