



CoDEX

Container Digital Exchange



DIGITAL INDIA WAS LAUNCHED BY THE HONOURABLE PRIME MINISTER OF INDIA SHRI NARENDRA MODI ON **1 JULY 2015** WITH AN OBJECTIVE OF CONNECTING RURAL AREAS WITH HIGH-SPEED INTERNET NETWORKS AND IMPROVING DIGITAL LITERACY.

MODI JI SPOKE EXTENSIVELY OF HIS VISION FOR DIGITAL INDIA, "I DREAM OF A DIGITAL INDIA WHERE HIGH-SPEED DIGITAL HIGHWAYS UNITE THE NATION....I DREAM OF A DIGITAL INDIA WHERE 1.2 BILLION CONNECTED INDIANS DRIVE INNOVATION...I DREAM OF A DIGITAL INDIA WHERE GOVERNMENT IS OPEN AND GOVERNANCE IS TRANSPARENT...I DREAM OF A DIGITAL INDIA WHERE TECHNOLOGY ENSURES GOVERNMENT IS INCORRUPTIBLE...I DREAM OF A DIGITAL INDIA WHERE RURAL ECONOMY HAS ACCESS TO E-HEALTHCARE...I DREAM OF A DIGITAL INDIA WHERE WORLD LOOKS TO INDIA FOR THE NEXT BIG IDEA,"

DESCRIPTION OF THE PROJECT CODEX

“TUTICORIN CFS ASSOCIATION (TCFSA) HAS INITIATED THE PROJECT OF INDIA’S 1ST CONTAINER DIGITAL EXCHANGE (CoDEX) ON **OCTOBER 2015**, WHICH HAS DEVELOPED BY WORLD RENOWNED SOFTWARE VENDOR - **KALE LOGISTICS SOLUTIONS, MUMBAI**”

THE TRADE FACILITATION ISSUE/AREA IT HAS ADDRESSED

“CODEX IS DESIGNED TO PROVIDE **100 % VISIBILITY** IN TERMS OF SHIPMENT STATUS TO ALL STAKEHOLDERS. IT HELPS AVOID GATE CONGESTION BY ALLOCATING SUFFICIENT WINDOW OF TIME FOR THE SHIPMENT TO MOVE, THEREBY STREAMLINING CONTAINER TRAFFIC AT THE VOC PORT”

IMPLEMENTATION TIMELINE

- 2015 • **STUDY** TO BUILD THE **PROJECT CoDEX ON OCTOBER 2015.**
- 2016 • **PILOT RUN** HAS STARTED ON **25TH FEB 2016** WITH THE SAMPLE OF **700 CONTAINERS**
 - **PUBLIC NOTICE 21/2016** ON **ISSUANCE OF GATE PASS UNDER CoDEX** FOR MOVEMENT OF EXPORT CONTAINERISED CARGO FROM CFS/ICD TO VOC PORT.
 - **GO LIVE ON JULY 1, 2016.** IT HAS PROCESSED OVER **42000 CONTAINERS** DURING THE **PILOT RUN** .
- 2017 • **ERROR FREE FILING OF GATEWAY EGM WAS ACHIEVED** THROUGH **CoDEX**
- 2018 • **APRIL 2018, ENABLED THE EXPORTERS TO GET IGST REFUND WITHOUT ANY DELAY** IN SPITE OF LAST MINUTE ARRIVAL OF CARGO.
- 2019 • **FACILITY INTIMATION : 06/2019 (C.No. VIII/48/90/2018 Cus. POL) DATED: 17.05.2019 - SEAMLESS MOVEMENT OF EXPORTS CONTAINERS FROM THE CFS/ICD – ENDORSEMENT ON CoDEX GATE PASS BY THE INSPECTORS AT CFS AND ICD.**
 - **TERMINAL OPERATION THROUGH THE TUTICORIN CUSTOMS CIRCULAR NO. VIII/48/215/2012-CUST. POL DATED:11.06.2019.**

DOCUMENTS CARRIED :

BEFORE CoDEX:

- CFS/ICD OUT PASS WITH INSPECTOR SIGNED
- EIR COPY
- ANNEXURE COPY

AFTER CoDEX:

- CoDEX PASS PRINTOUT
- THE EXPORTER SHIPPING BILLS ARE VERIFIED CENT PERCENT AT VOC PORT GATE ON CoDEX, WHICH ENABLES THE EXPORTERS TO RECEIVE THE ORIGINAL COPY VERY NEXT DAY FOR RELEASING MONEY FROM THE BANK.

SEAL VERIFICATION AND ALLOW FOR SHIPMENT PROCESSING TIMINGS:

BEFORE CoDEX:

-DUE TO LINER VERIFICATION, SEAL VERIFICATION AND SHIPPING BILL VERIFICATION MANUALLY IT TAKES ABOUT AN AVERAGE OF 12 TO 15 HOURS AND EVEN A DAY IT TAKES TO COMPLETE THE CONTAINER GATE IN DUE TO CONGESTION AT PORT/TERMINAL GATE.

AFTER CoDEX:

-ITS ABOUT A NEARLY 2 TO 3 MIN PER CONTAINERS AND AVERAGE CONTAINER PORT GATE IN ABOUT 500 TO 600 CONTAINERS PER DAY

FUEL CONSUMPTION AND CARBON EMISSION FACTOR:

BEFORE CoDEX:

- TOTALLY **15 CFS AND 1 ICD** IN TUTICORIN. SO, WE ARE TAKING THE AVERAGE DISTANCE FROM THE HARI **CFS TO GREEN GATE-IN IS 11Kms.**
- FUEL CONSUMPTION IS **15 LITRE DUE TO SLOW CONTAINER MOVEMENT** DUE TO **MANUAL VERIFICATION OF SHIPPING BILL** AND SEAL VERIFICATION AND THE CONTAINERS MOVE INCH BY INCH AND THE FUEL DUE HEAVY CARGO TRAILER MOVEMENT THE FUEL CONSUMPTION IS HIGH AND THE

EMISSION OF CO₂ IS VERY VERY HIGH DUE TO SLOW MOVEMENT OF TRAILER

AFTER CoDEX:

- SAME EXAMPLE HAS TAKEN WITH THE **AVERAGE DISTANCE FROM THE CFS TO GREEN GATE IN IS 11Kms.**
- NOW THE CONTAINER MOVEMENT IS FAST DUE TO **DIGITALLY VERIFIED CoDEX PASS** WITH ALL SHIPPING BILL AND EIR DETAILS IN A SINGLE SHEET WITH ACCURATE INFORMATION AND IT IS APPROVED WITH A SINGLE CLICK FEATURE OF SCANNING THE CoDEX PASS. DUE TO CoDEX THE CONTAINER CONGESTION REDUCED AND THE FUEL CONSUMPTION IS SUBSTANTIALLY REDUCED AND THE **FUEL CONSUMED IS AVERAGE 5 LITRES PER CONTAINERS.**

EMISSION OF CO₂ SUBSTANTIALLY DECREASED

CURRENT STATUS OF THE PROJECT/INNOVATION

- CoDEX IS RUNNING SUCCESSFULLY WITH ALL STAKEHOLDERS AT TUTICORIN PORT LIKE MLO, FEEDER OPERATORS, CFS/ICD OPERATORS, CUSTOMS, PORT AND TERMINALS.
- WITH THE AVERAGE DWELL TIME OF 100 MINS FROM CFS/ICD TO PORT TERMINALS INCLUDING CUSTOMS VERIFICATION AT PORT ENTRY.
- MOBILE APP IS AVAILABLE IN IOS AND ANDROID FOR TRACKING THE CONTAINERS FROM CFS/ICD TO PORT TERMINALS.

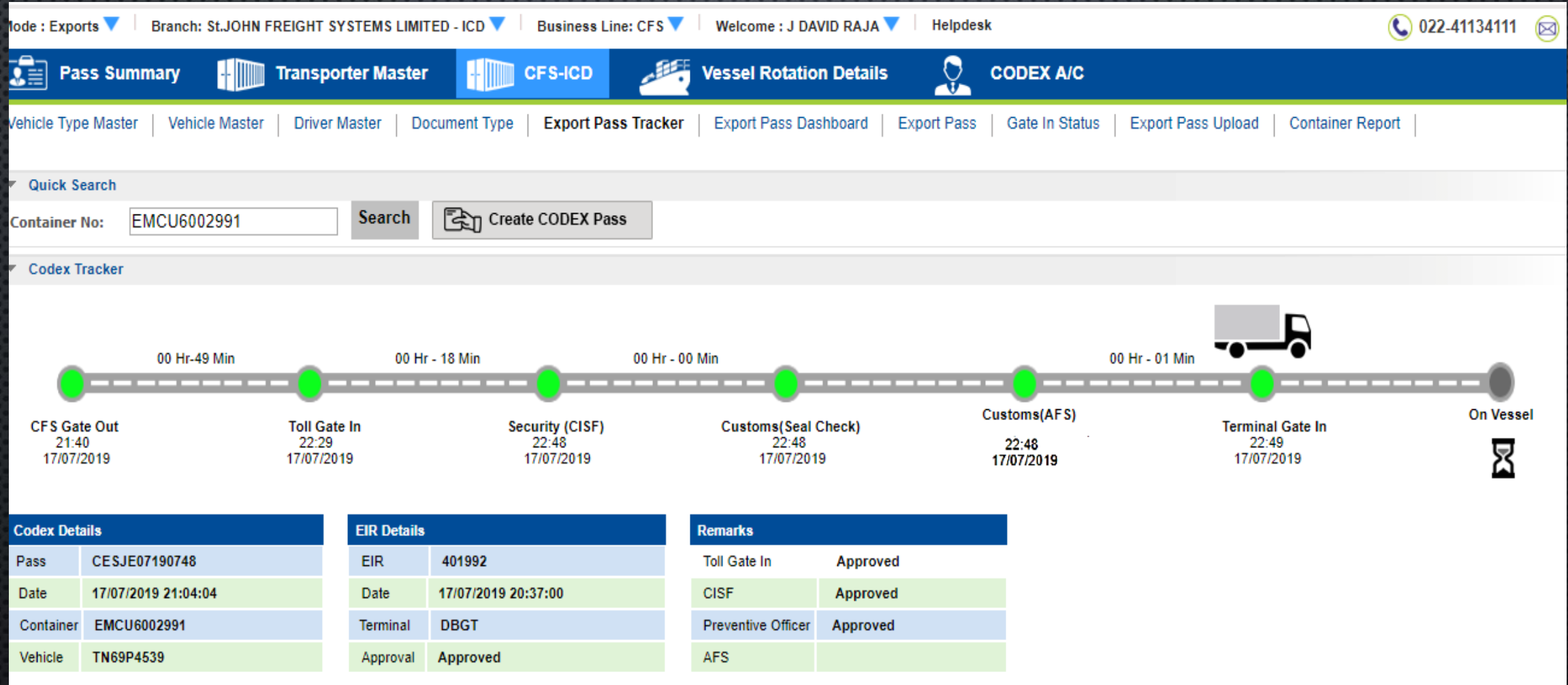
COST-EFFECTIVENESS OF THE MEASURE/PROJECT

- CoDEX IS THE CHEAPEST PLATFORM TO HANDLING THE CONTAINER MOVEMENT WITH **TRACK AND TRACE MECHANISM FROM CFS/ICD TO PORT TERMINAL** WHICH PROVIDES EXPORT TRANSACTIONS WITH FOOL PROOF TO THE TRADE.
- **Rs.100/- PER CONTAINER** IS THE COST OF THE PROJECT TO RUN THE CHEAPEST.
- WITH THE AVERAGE **DWELL TIME OF 100 MINS FROM CFS/ICD TO PORT TERMINALS** INCLUDING CUSTOMS VERIFICATION AT PORT ENTRY.

WHY IT IS PARTICULARLY INNOVATIVE AND EFFECTIVE?

- **ERROR-FREE EGM ON ICEGATE.**
- **DOCUMENTS AT THE PORT GATE BY THE TERMINAL OPERATORS ABOLISHED.**
- **CONGESTION-FREE CONTAINER MOVEMENT AT VOC PORT, TUTICORIN.**
- **SIMPLE SCANNING MECHANISM OF BARCODE USING BY ALL THE STAKEHOLDERS .**
- **PROTECTING SEAL REPLACEMENTS, CONTAINER SWAPPING, TAMPER PROOF TO SECURE THE CONTAINER MOVEMENTS**
- **TRACKING THROUGH MOBILE APP BY EXPORTERS.**
- **CoDEX INFORMATION IS ROUTED THROUGH VOC PORT DEDICATED FTP FOLDER TO OUR CODEX SERVER**

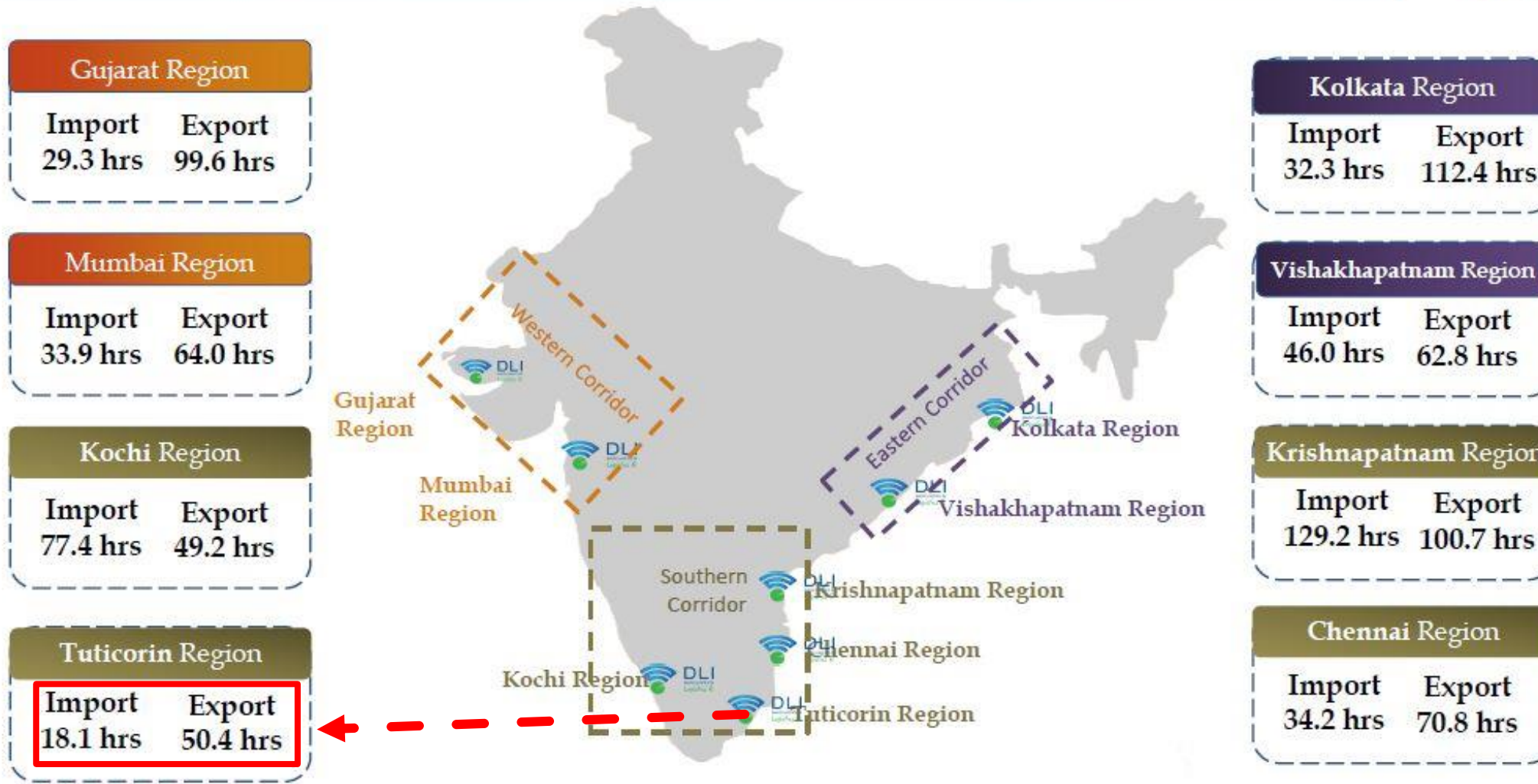
5.EXAMPLES AND EVIDENCE OF RECOGNITION AND PRAISE FOR THE MEASURE/PROJECT



Visit our Official Project CoDEX Page for liveliness : <https://www.codexcommunity.com>

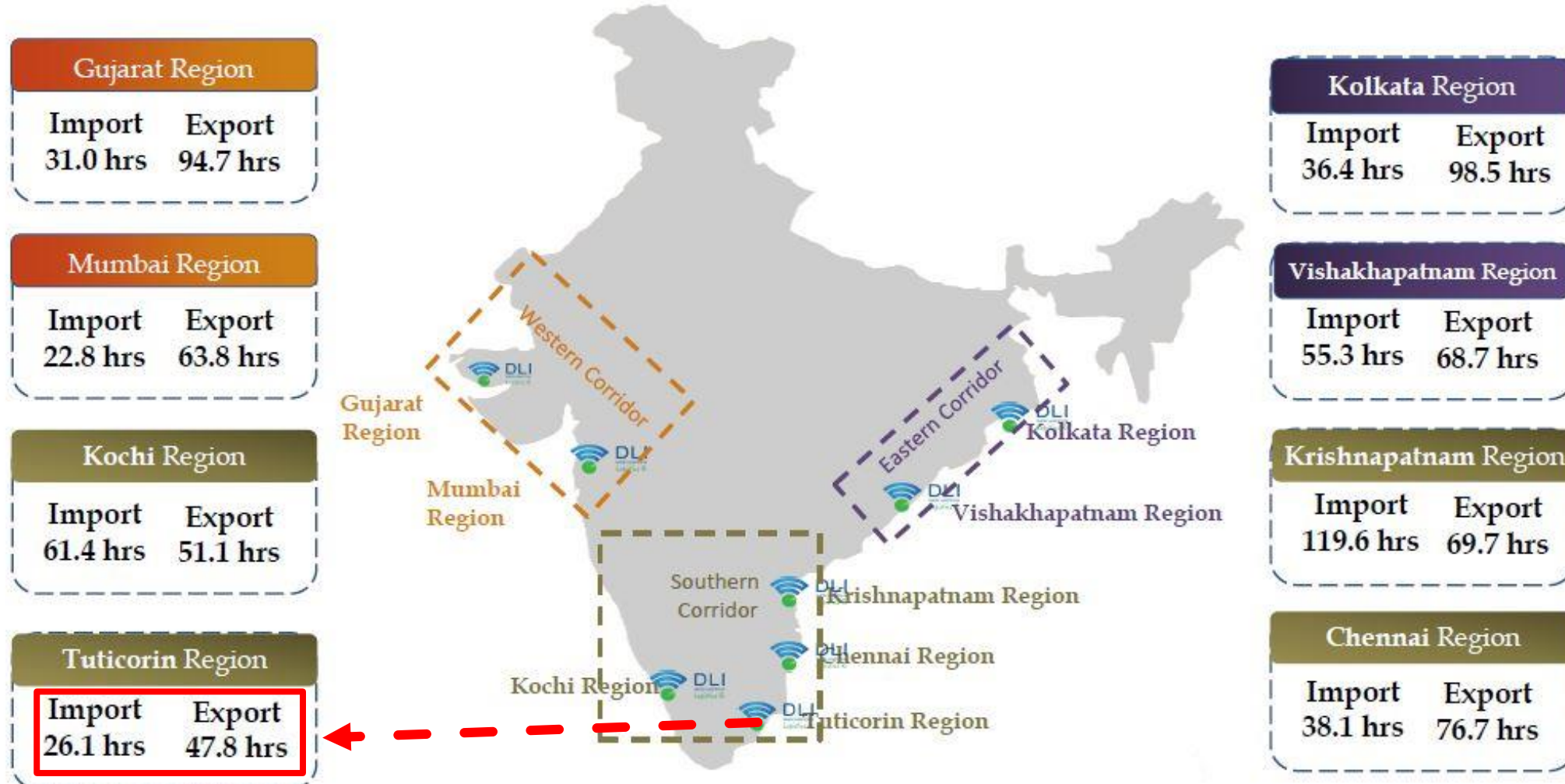
EVIDENCE OF DMICDC (DELHI MUMBAI INDUSTRIAL CORRIDOR DEVELOPMENT CORPORATION)

PAN INDIA Performance Snapshot: April 2019 (Dwell Time)



EVIDENCE OF DMICDC (DELHI MUMBAI INDUSTRIAL CORRIDOR DEVELOPMENT CORPORATION)

PAN INDIA Performance Snapshot: May 2019 (Dwell Time)



TESTIMONIALS

CODEX covered in The Hindu newspaper on 6th March 2019

EGM filing has been made easy

Boon to exporters who were not able to get IGST refunds, duty drawback in time

HARIPRASAD A R
THOOTHUKUDI

Going digital has made the process of filing the export general manifest (EGM) almost seamless at the VOC Port, following a first-of-its-kind initiative in the country.

EGM filing, a document to declare export consignments, was a cumbersome task as there were mismatches.

The data was manually entered using shipping bill data given by Customs House agents resulting in errors in details like shipping bill number, container number, number of packages and so on. There was also delay and it did not cover all exports.

Exporters were not able to get their IGST refunds, duty drawback and other incentives like MEIS (Merchandise Exports from India Scheme) and ROSL (Rebate on State Levies).

The Customs tightened the leash: earlier, the EGM has to be filed seven days before a vessel departs; now, it has to be filed three hours before sailing. Otherwise, there is no port clearance.

The situation was all set to



Introduction of a software has created a win-win situation for all agencies involved by reducing paperwork and enabling quick IGST refunds and easy monitoring by the Customs department. *N. RAJESH

change since a software, EGM Pro, developed by Inspire Techno Park LLP, at the instance of Tuticorin Custom Brokers Association, has been launched. In July, the Customs House issued a notice asking agencies to use the software to remove all EGM-related issues. The software captures the data filed, and sends the same to all agencies including forwarders, liners and vessel operators without any loss or misinterpretation.

"It has brought over 99% accuracy in EGM filings," says P. Jeyanth Thomas, president, Thoothukudi Customs Brokers Association.

More than 400 agencies were using the software.

The liners and vessel operators can cross-check their data with CODEX (Container Digital Exchange). The EGM filing is made on IceGate, an online portal of the Customs department.

CODEX (Container Digital Exchange), which was created when the National Association of Container Freight Stations and Kale Logistics Solutions joined hands, enables an exporter to track a container through a mobile app right from the time it leaves a station to the time it reaches the port.

The software has helped

to reduce turnaround time as the port knows about incoming cargo, says J. David Raja, president of Thoothukudi Chapter of National Association of Container Freight Station.

"Earlier, EGMs were filed for 10 out of 50 shipping bills in a container while the other 40 were omitted. There was no mechanism to check if all shipping bills are covered or not," says Suresh Babu Bodduluri, Additional Commissioner of Customs, Thoothukudi. The implementation of CODEX has allowed for a mechanism not only to check EGM data of all containers loaded onto a vessel but also data of all shipping bills in a container.

"By introduction of EGM software and CODEX put together, vessel operators have been able to file EGM completely before departure of vessel. It has been done for the first time by Thoothukudi Customs and exporters are receiving IGST refunds immediately," Mr. Bodduluri says. "As per the Customs Act, the EGM has to be filed before departure of a vessel and we are following the Act in letter and spirit."

Gratitude from International Exporter M/S. Penguin Apparels (P) Ltd. on 25.07.2019



PENGUIN APPARELS (P) LTD.

Regd. Office :
Plot No. 2, Meenakshi Nagar
GST Road, Pasumalai, Madurai - 625 004.

Ref. No.

CIN No : U18101TN1990PTC019054
GST : 33AABCP7832P120
Tel : 0452-2372377, 2372477
Fax : 91-452-2372226
Email : office@penguinapparels.com

Date : 25.07.2019

To
Tuticorin CFS Association,
108A, VE Road,
Opp. to DSF Grand Plaza,
Tuticorin.

Kind Attention: J David Raja – The President.

Dear Sirs,

Sub: Appreciation for CoDEX Implementation at Tuticorin Trade -Reg.

The CoDEX (Container Digital Exchange) has implemented by your association at Tuticorin connecting Steamer Agents, Customs, Port & Terminals has virtually shown the results and we take this opportunity appreciate the innovative technology implemented exclusive at Tuticorin. As an exporter, the liquidity is a major impact on any business. Since CoDEX has connected all the stakeholders the filing of general manifest has become accurate IGST Refunds process from the Customs get speedy refund. This has improve our competitiveness and boost our working capital with VOC Port taken great step of deepening the berths for the attraction of Mainline Vessels especially to US and Europe. VOC Port will move towards a major Transshipment Port.

I wish to state that with the CoDEX system monitored by Customs and Port digitally the time taken from all the CFS/ICD into the terminal including the customs formalities at Port Green gate at the average of 90 Minutes to 100 Minutes (This is visible to us through the CoDEX App), which is clearly at par with international standard of Congestion-free port.

I wish all the best as an exporter reduction of any transshipment cost to any other country will be a greatest saving.

Thanks and Regards,
Yours faithfully,
For PENGUIN APPARELS (P) LTD.



M.ANBUKANI
MANAGING DIRECTOR
CC: The Chairman, VOC Port Trust

Factory : D-53, Industrial Estate, Kappalur, Madurai-625 008.TEL: 2482793, 2482973, Fax : 91-452-2489621



Public Notice: 21/2016 : 09.06.2016 Issued by the Commissioner of Customs - Tuticorin- Issuance of Gate Pass Under CoDEX for Export movement from CFS/ICD.



वित्त मंत्रालय / Ministry of Finance
राजस्व विभाग / Department of Revenue
सीमा शुल्क आयुक्त कार्यालय / Office of the Commissioner of Customs
कस्टम हाउस, नयी हारबर एस्टेट / Custom House, New Harbour Estate
तूतुकुडी - 628 004 / Thoothukudi - 628004.
दूरभाष / Tel: 0461 2352655, 2352633 फैक्स / Fax 0461 2352019

PUBLIC NOTICE NO. 21 /2016

**Sub: Issuance of Gate Pass under CODEX (Container Digital Exchange) for
movement of export containerised cargo from CFSs/ICD to VOC Port - Reg.**

Attention to all Exporters / Clearing Agents / Trade and Industry and Public is invited to
above subject.

2. CODEX (Container Digital Exchange) is a digital platform being adopted by Tuticorin
CFS Association and VOC Port to enable seamless movement of containers from CFSs/ICD
to VOC Port. This system works on the basis of online real time data getting uploaded on a
digital platform which is made accessible to all approved viewers and the container movement
can be tracked as well as authenticated at various points on its way to VOC Port by means of
unique barcode attached to each container and corresponding shipping document. This would
ensure faster and secured movement of export containers as clearance at various gates as
well as the movement related data would be readily available in system and no manual entry
would be required.

3. Currently, the CODEX system is being utilized by Custodians to capture the movement
of export containers from CFSs/ICD to VOC Port.

4. As per the present practice, there is no standard format of Gate Pass and every
CFSs/ICD issues the Gate Pass with different format. The CODEX Gate Pass will bring the
uniformity and standardisation in gate pass. Accordingly, it has been decided to declare the
CODEX Gate Pass as standard document for Customs permission to move export containers
from to VOC Port.

5. Therefore, it is hereby informed that the current practice of issuance of gate pass by
CFSs/ICD which is duly signed by Gate Officer (Inspector) is being replaced by uniform
Codex Gate Pass which needs to be duly stamped & signed and gate out time authenticated

Facility Intimation: 31/2018 : 02.08.2018 Issued by the Commissioner of Customs- Tuticorin - Rotation no in Export Gate Pass



वित्त मंत्रालय / Ministry of Finance
राजस्व विभाग / Department of Revenue
सीमा शुल्क आयुक्त कार्यालय / Office of the Commissioner of Customs
कस्टम हाउस नयी हारबर एस्टेट / Custom House, New Harbour Estate
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FACILITY INTIMATION NO. 31 /2018


Sub: Furnishing of appropriate Rotation No in the Gate Pass-reg..

Attention of the Custodians/Customs Cargo Service Providers/Custom Brokers /
Exporters and all concerned is invited to the CODEX Gate out pass generated from the
CFS/ICD during the gate out of the export containers.

2. It has been brought to the notice that the Customs brokers/Custodians/Customs
Cargo Service Providers are not entering the exact vessel name and rotation number
corresponding to the container covered under the Gate pass. More often than not, the
gate passes are prepared in a haste and rotation numbers entered in the Gate Pass are
not representing the corresponding containers to be loaded. The entered rotation
number in the gate pass, on many occasions, have been found to be pertaining to some
other vessel or some other voyage of the same vessel. It is further noticed that
sometimes the container number and shipping bill numbers are also entered wrongly.

3.1. This office has issued a Public Notice No.17/2018 dated 14.06.2018 requiring
mandatory filing of EGM before the departure of vessel under Section 41 of the
Customs Act, 1962. Section 41 provides for filing of the Export General Manifest
(EGM) before departure of the Vessel from the customs station and Section 42
provides for issue of order permitting departure of vessel. The order permitting
departure of vessel can be issued only after compliance of the provisions of Section

**Customs Circular No: VIII/48/215/2012 -
11.06.2019 Issued by the Asst. Commissioner of
Customs- Tuticorin – Installation of CoDEX
Software at Port Terminals.**


वित्त मंत्रालय / Ministry of Finance
राजस्व विभाग/ Department of Revenue
सीमा शुल्क आयुक्त कार्यालय/ Office of the Commissioner of Customs
कस्टम हाउस नयी हारबर एस्टेट/ Custom House, New Harbour Estate
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दूरभाष/ Tel: 0461 2352655, 2352633 फैक्स/ Fax 0461 2352019

C. No. VIII/48/215/2012 – Cus. Pol Dated: 11.06.2019

To

✓ M/s. Dakshin Bharat Gateway Terminal (P) Ltd.
Berth No. 8, V.O.C. Port Trust,
Harbour Estate, Tuticorin – 628004


M/s. PSA SICAL,
Berth No.7, V.O.C. Port Trust,
Harbour Estate, Tuticorin – 628004

Gentlemen,

Sub: - Customs – Installation of CODEX Software - Reg.


The Additional Commissioner has recommended for installation of CODEX software at the Terminal Gate to have a fool proof system for exports to ensure that export containers are arriving their premises, only after completion of all customs formalities. Verification of export containers/export documents through CODEX system are being carried out in green gate and similar CODEX software may be installed in your premises to ensure smooth passage of export containers in order to get away with the Shipping Bill verification process being carried out by you at present, outside the Green Gate at toll plaza. As you aware, the Facility Intimation No.06/2019 dated 17.05.2019 emphasize the complete monitoring of movement of containers, both the physical verification of containers as well as the accuracy of data, which enables the error free filing of EGM before the departure of the vessel. The linking of Terminals with CODEX Software will further facilitate the entire supply chain of the containers movement.

Hence, you are hereby advised to install the CODEX Software in your terminal, under intimation to this office.

Yours sincerely,

(L. MEENAKSHI SUNDARAM)
ASSISTANT COMMISSIONER

Copy to : M/s. NACFS, Tuticorin, for necessary action to install the CODEX in terminals.

**Facility Intimation: 06/2019 : 11.05.2019 Issued by
the Commissioner of Customs- Tuticorin –
Seamless Movement of Export Containers from the
CFS/ICD- Endorsement on CoDEX Gate Pass by
the Inspector of CFS/ICD.**


वित्त मंत्रालय / Ministry of Finance
राजस्व विभाग / Department of Revenue
सीमा शुल्क आयुक्त कार्यालय / Office of the Commissioner of Customs
कस्टम हाउस, नयी हारबर एस्टेट / Custom House, New Harbour Estate
तूतुकुडी – 628 004 / Thoothukudi – 628004.
दूरभाष / Tel: 0461 2352655, 2352633 फैक्स / Fax 0461 2352019

C.No.VIII/48/90/2018-Cus pol Dated : 17.05.2019

FACILITY INTIMATION NO. 6 /2019


Subject: Seamless movement of export containers from the CFS/ICD-
Endorsement on CODEX gate Pass by the Inspectors at CFS
and ICD-reg.

Attention of the importers, Exporters, Custom brokers, Public and all other stakeholders is invited to the following procedure to be followed by all concerned at CFS and ICD.

2. In order to enable seamless movement of export containers from the CFS/ICD and to remove congestion due to bunching of trailers transporting export containers at green gate, the following procedure in respect of export laden containers moving from various CFS/ICD to Green gate would be adopted with immediate effect.

3.1. After the grant of Let Export Order by the Superintendent/Appraiser at CFS/ICD, the inspector/Preventive Officer shall supervise the loading of cargo into containers and seal the same with Customs OTL. The Custodian(CFS/ICD) will generate CODEX gate pass, which contains, EIR number, Shipping Bill details, container and vessel details, Rotation number and vehicle & driver details etc. along with date and time of passing out of such containers from CFS to Tuticorin green gate and this gate pass will be presented to the Custom officers posted at Green gate for verification.

3.2. At the time of generating CODEX gate pass at CFS/ICD, the details such as Shipping Bill number, Container number, Customs Seal number, Cargo Description etc. are entered manually by the Custodian. Since the CODEX server is being updated time and again in respect of vessel name, Voyage number, vessel Rotation number, it captures the corresponding rotation number automatically from the data base, when the container number is entered in the CODEX gate pass. Therefore manual feeding of rotation number, date and time etc. in the



Heartily Thanks to



**Shri T.K Ramachandran I.A.S.,
Chairman-VOC Port Trust**

**Shri. N. Vaiyapuri,
Deputy chairman-VOC Port Trust**

**Shri. K.V.V.G DHIWAKAR, I.R.S.
Commissioner of Customs-Tuticorin**

**Shri. Suresh Babu Boddulurii, I.R.S.
Additional Commissioner of Customs-Tuticorin**



**VOC Port Trust
Tuticorin**

Thank You!!



JAI HIND

J David Raja

President - Tuticorin CFS Association.

President - NACFS – Tuticorin Chapter.

Ex Board of Trustee (2013-15) at VOC Port Trust – Tuticorin.

