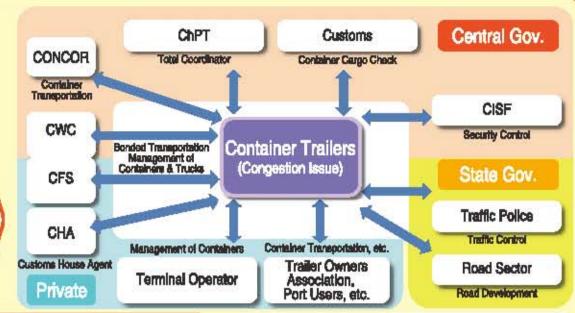


Enhanced Cooperation among Concerned Parties



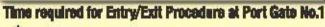
Congestion related Information made available on Web-Portal

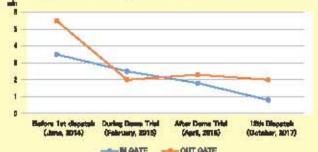
Lead Time among CFS/Zero Gate (Port Gate No.1)/Terminal

Date	Outside Port CPS to ZeroGate	Inside Port		
		ZeroGate to CCTL	ZeroGate to CITPL	ZeroGate to Tearring
05/11/2017 (9mg)	01:40	00:14	00:20	00:20
08/11/2017 (Marr)		02:17	01:55	02:01
07/11/2017 (Tae)	09:36	02:05	02:31	02:20
08/11/2017 (Wash	11:03	0225	02:56	02:43
09/11/2017 (Thu)	09:45	03:52	05:10	04:36
10/11/2017 (Frg	08:22	02:24	04:18	03:19
11/11/2017 (Sal)	08:04	02:13	03:15	02:39
12/11/2017 (Sun)	0625	C3:33	04:03	03:53

Information published on the homepage of ChPT
CCTL: Terminal operate by DPW, CITPL: Terminal operated by PSA

Processing Time at Gate Reduced to 25% to 50% !!!





Recommendations toward the Future

Continuous Observation & Surveys

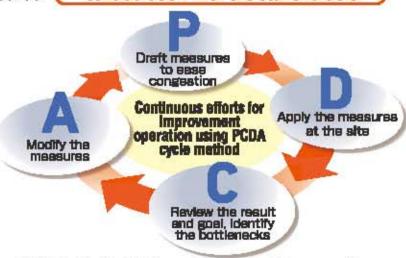
Establishment of Sustainable System

Implementation of Coordinated Measures

Sustainable system will be established in collaboration with the stakeholders.



implementation of coordinated/concurrent measures



PDCA: Plan-Do-Check-Act (one method for sustainable improvement)

IICA

February 2018

Japan International Cooperation Agency
https://www.lca.go.lp

The Overseas Goastal Area Development Institute of Japan (OCDI)

Mitsul Engineering & Shipbuilding Co., Ltd.
Hakata Port Terminal Co., Ltd.

Overcoming Congestion Issues

The Project on Improvement of Chennal Port Operation, INDIA

Projet Term: (Phase I) July 2014 to September 2018, (Phase II) February 2017 to February 2018

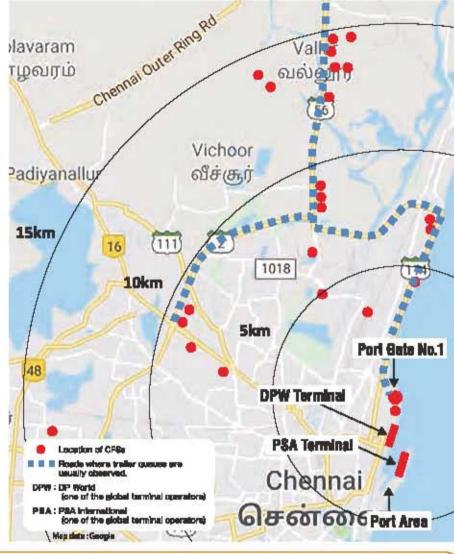


Inefficient port operation, improper traffic control, and insufficient road and port infrastructure



Frequent occurrence of congestion by trailers which hampers the smooth movement of container cargo

The alm is to reduce congestion inside/outside the port and thereby improve container cargo movements and port operation.



Outcomes (Part 1)

Length of Queues Reduced by Half!!!

Maminer of Trailers 1,800

Lead Time of Export

Containers Reduced

to 25% to 50% 11!



CFS: Container Freight Station



Measures taken to reduce Congestion

Overall

Organizing and Periodical Holding of a Steering Committee Implementation of Demonstration Trials

Expanding Cooperation with Tamil Nadu State Proposing Port Infrastructure Improvement

Introduction of RFID System Proposing introduction of Web Portal System Proposing the RHD based Entry/Edit Control System













Hardware measures

[35] Introduction of Dedicated Gates for Empty

Trailers and Lane Separation between Empty

(35) Internal Road Improvement [252] Introduction of Parking Space

and Export Trailers

Hardware measures outside

- 151 Road Widening and Improvement
- 152 Introduction of a Dedicated Lane for Trailers









- P31 Port Gate No.1 Improvement
- Access Road Improvement

Port Gate No.1

Seftware measures at gate

- [23] Improvement of Entry/Exit Procedure
- Survey of Gate Processing Time and Lead Time of **Export Container**

inside

Container Terminals

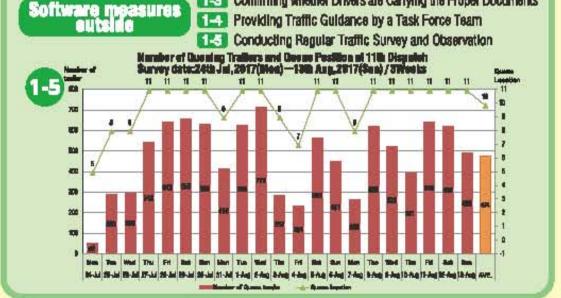
Proposing X-Ray Inspection Area for Import Proposing Walting Area near Terminals

CFS. Factories.etc

Software measures

outside

- 346 Allocation of Traffic Control Persons
- Studying Gate Reception Procedure
- Regular Survey of Status Inside the Port and Counting Parked Trailers
- Analyzing Trailer Flow in front of Terminals and Proposing Improvements









Empty: Waiting area for empty trailers, Export: Waiting area for export builders