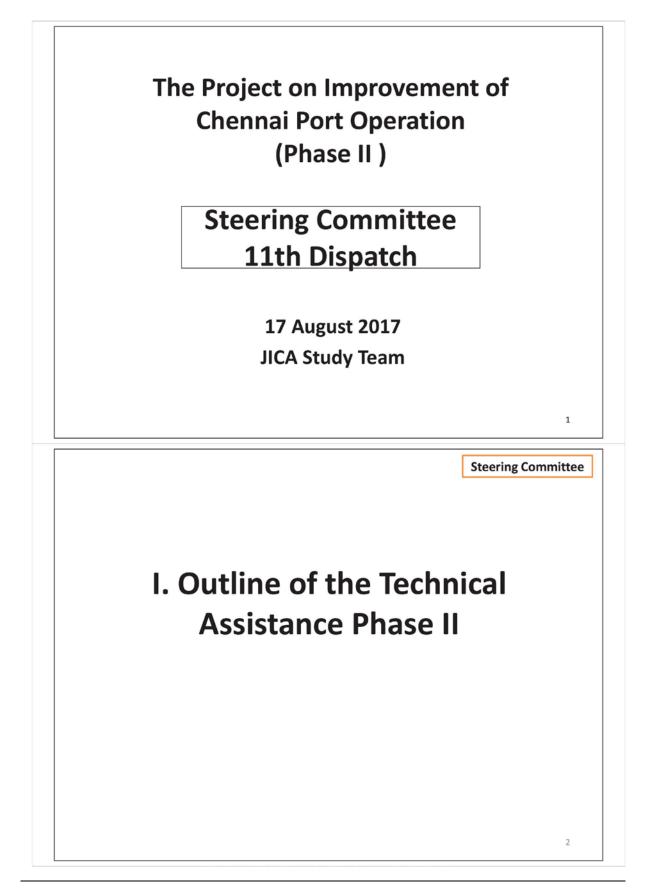
4. Steering Committee (17 August 2017)



Steering Committee

1. Objectives of the Project "Phase II"

• To enhance the efficiency of the operation of Chennai port by reducing container movement lead times through following up the activities taken in Technical Assistance Phase I and entrenching congestion alleviation measures to the counterpart (ChPT)

• To examine the validity and effectiveness of possible port infrastructure projects (including IT related projects) for modernizing port operation

2. Dispatched Schedule

Number of Dispatch	Schedule completed
First (Ninth) Dispatch	Sunday, 12 th February – Saturday, 11 th March, 2017
Second (Tenth) Dispatch	Sunday, 23 rd April – Saturday, 20 th May, 2017
Third (Eleventh) Dispatch	Sunday, 23 rd July — Saturday, 19 th Aug., 2017 $_{\scriptscriptstyle 3}$

Steering Committee

4

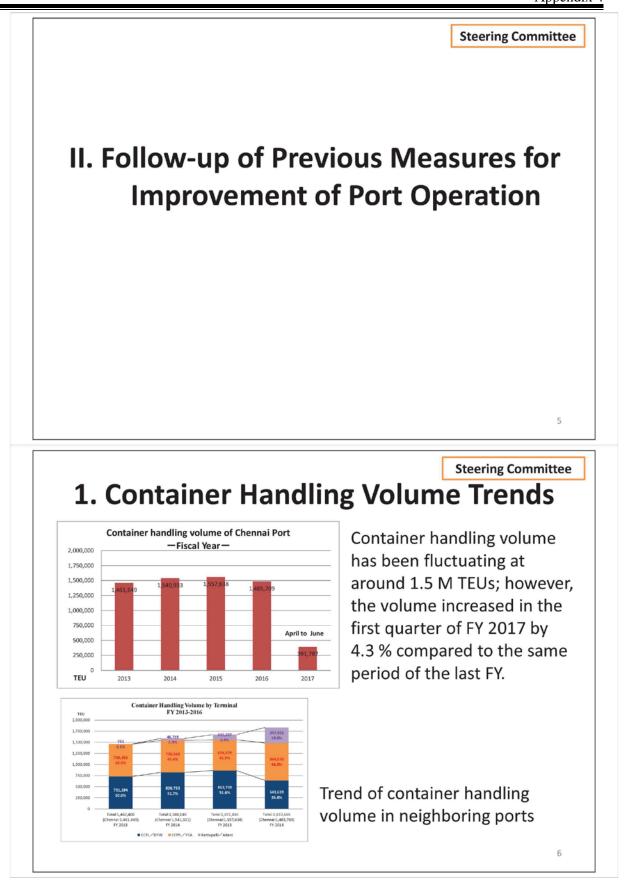
2. Contents of the Project "Phase II"

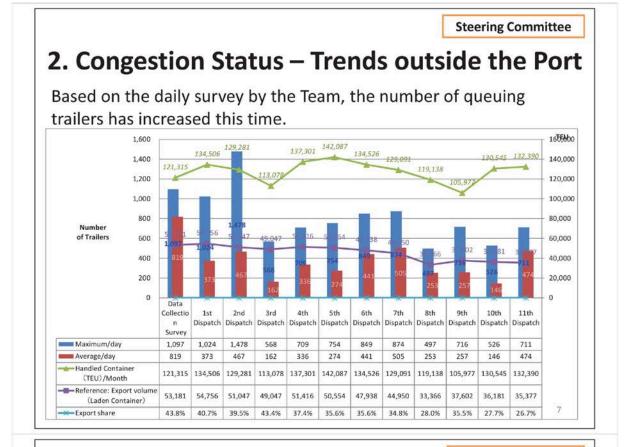
(1) Follow-up of Previous Measures for Improvement of Port Operation

The Study Team will follow-up the several surveys and activities conducted during Phase I for further improvement of port operation.

(2) Modernization of Port Operation through Soft and Hard Measures

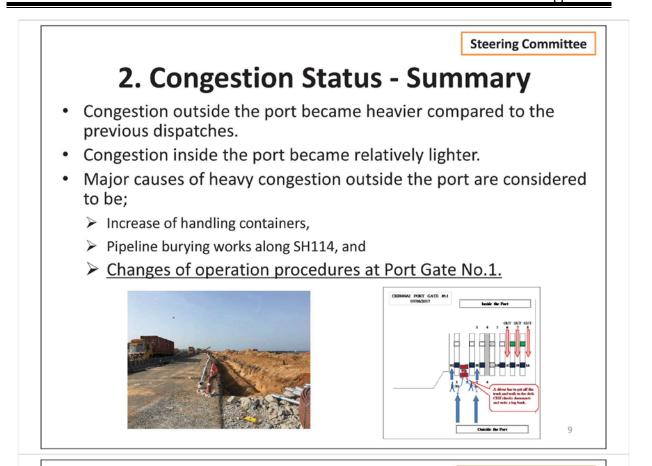
The Team will continue to promote operational improvement through utilization of an IT system and development/improvement of port facilities.





2. Congestion Status - inside/outside the Port

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Steering Committee

3. Following up of Demonstration Trials

1) Demo 1: Simplification of gate procedures at Port gate No.1

RFID system is not yet used for entry/exit control. Furthermore, the reception time became longer due to the changes in operation procedures at Port Gate No.1.

2) Demo 2: Utilization of TVT-Parking

Situation has not changed. The TVT-parking is not used as a parking lot although the issuance of HEP is still in operation.

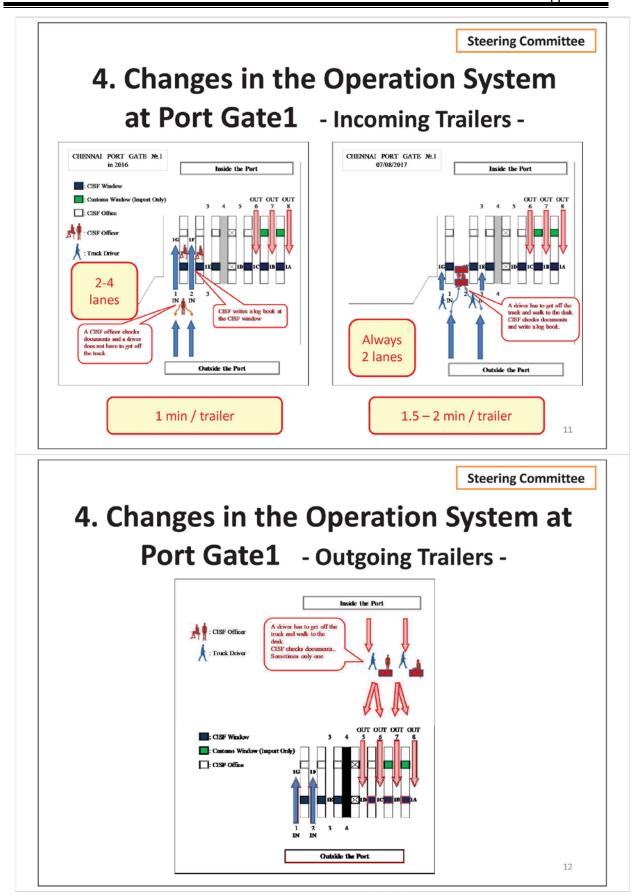
3) Demo 3: Restriction of parking on internal roads

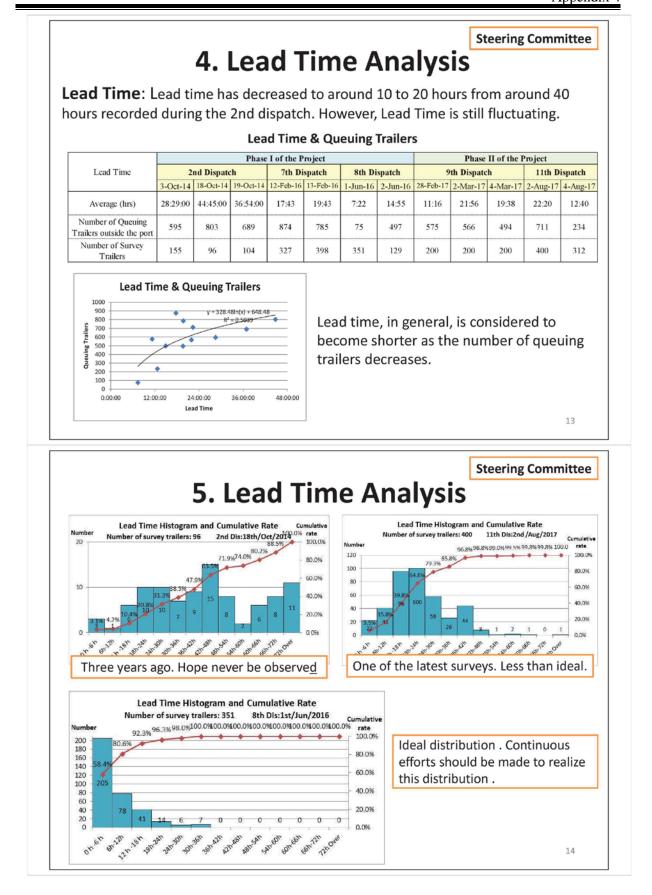
The traffic flow of trailers inside the Port this time seemed to be smoother as heavy congestion was not observed; however, a large number of parked trailers is still observed.

4) Demo 4: Allocation of traffic control persons at intersections together with introduction of traffic flow regulation

Trailer drivers have a greater awareness of the no parking rule at the intersections and traffic control persons were allotted more frequently; however, the instructions by traffic control persons are still required.

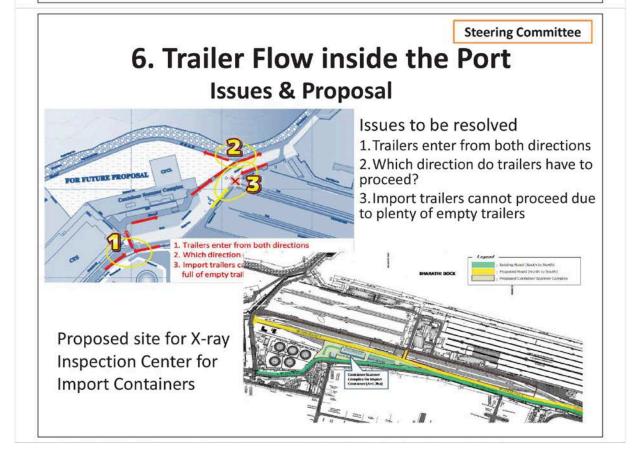
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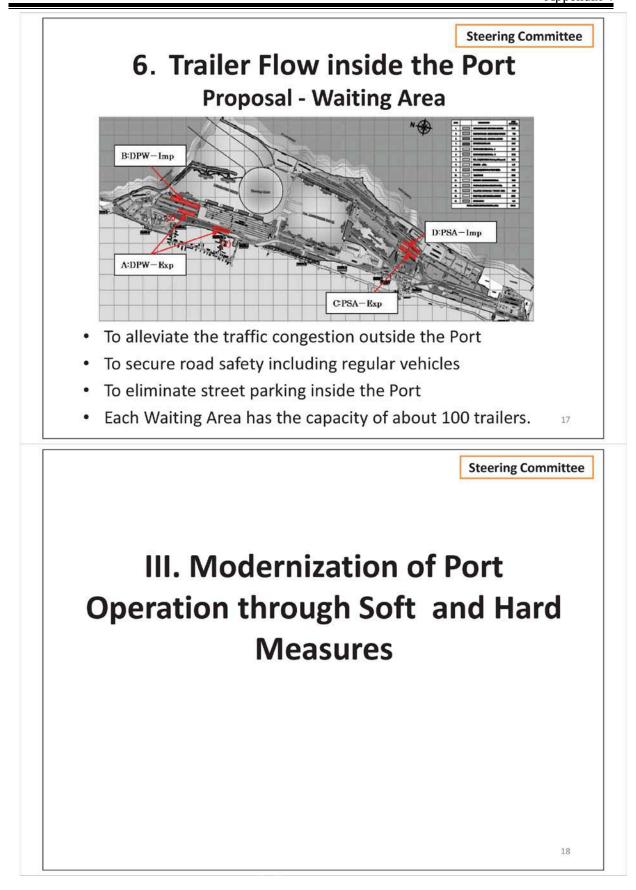




4-7

6. Trailer Flow inside the Port							
Area	Issues	Measures					
North Side	Import trailers for X- Ray Inspection have to cross another flow	To establish a new X-Ray Inspection Center for Import					
	Two empty trailer flows mixed	To unify the empty traffic flow To DPW North Gate					
Central Area	Too many types of trailer flows mixed	To realign / develop internal road					
South Side	Empty trailers for PSA North Gate occupy the access road for the coastal terminal	To establish a new Waiting Area near PSA terminal					
		15					





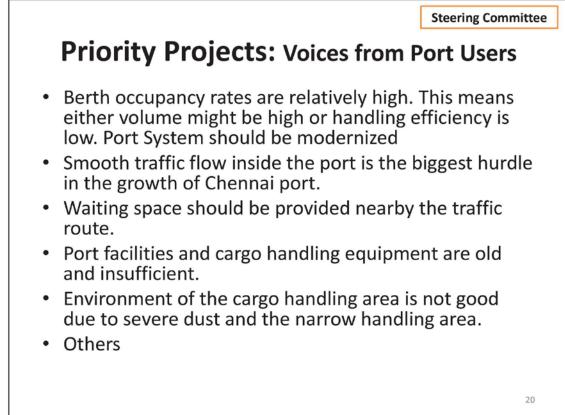
Priority Projects: Sagarmala Report Traffic Projections and Capacity/Demand

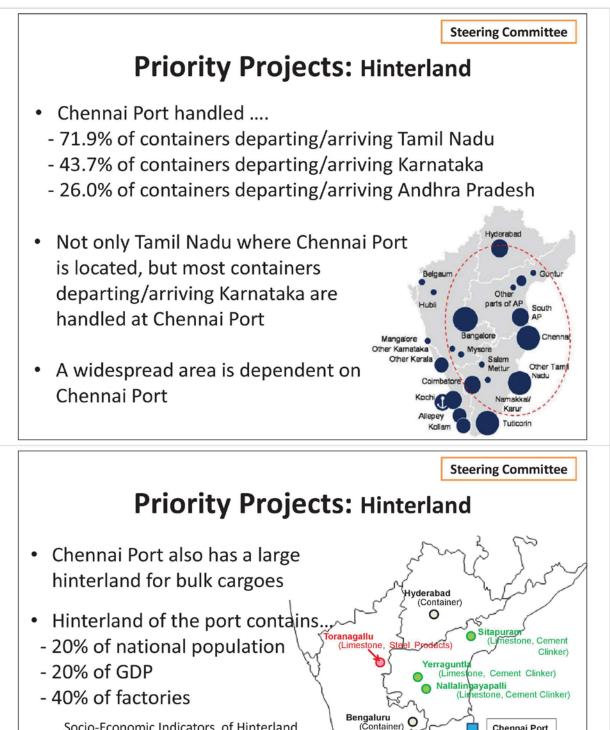
Port	2014/15	2020	2025	2035
Chennai	1.55	0.9	1.2 - 1.4	2.0 - 2.4
Kamarajar	0.0	0.8	1.1 - 1.3	1.8 - 2.1
Kattupalli	0.1	-	-	
Krishnapatnam	0.08	0.1 - 0.12	0.15 - 0.19	0.25 - 0.34
Chennai Cluster	1.7	2.32	3.0	
Chennai Cluster	1./	2.4	3.2 - 3.7	

Source: Final Report on Cargo Traffic Projections & Logistics Bottlenecks, Ministry of Shipping, July 2016

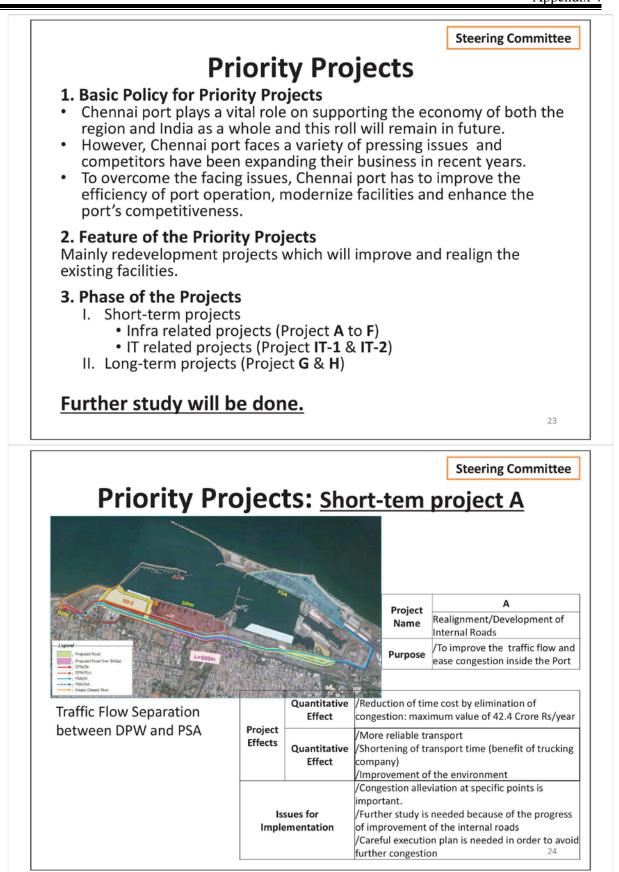
The capacity of Chennai port is estimated to exceed the demand. However, because of insufficient space for cargo handling and storage, inefficient operation of cargoes, the berth occupancy rates are relatively high. Chennai port should make efforts to improve the productivity and efficiency of operations. Due to the emerging ports in the vicinity of Chennai port, container volume handled at Chennai port is forecast to fall from about 1.55 million TEUs in 2015 to 0.9 million TEUs in 2020 but will then begin to increase again towards 2025 and beyond.

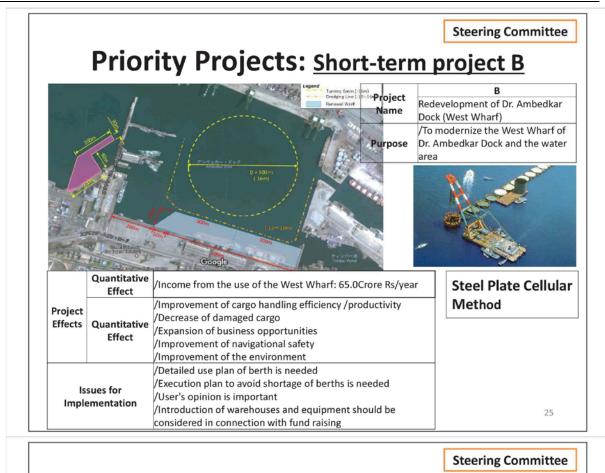
			Current	1	2020	1	2025	1	2035
Cargo Handled	Berths Assigned	VE	Capacity (MTPA)	Projected Traffic (MTPA)	Capacity Augmentation Required (MTPA)	Projected Traffic (MTPA)	Capacity Augmentation Required (MTPA)	Projected Traffic (MTPA)	Capacity Augmentation Required (MTPA)
Crude & POL	BD1, BD 2, BD 3	1	15.00	13.30	0.00	13.10	0.00	14.30	0.00
Dry & Breakbulk	NQ, WQ1 to 3,JD1 to 6, OPB	VE	17.50	16.30	0.00	12.20	0.00	17.10	0.00
Fertilizers	SQ1 & SQ 2	î.	2.50	0.70	0.00	0.80	0.00	1.00	0.00
Containers	CTB1 to 4, SCB1 to 3	VE	58.00	17.37	0.00	23.16	0.00	38.60	0.00
Total		VE	93.00	47.67	0.00	49.26	0.00	71.00	0.00





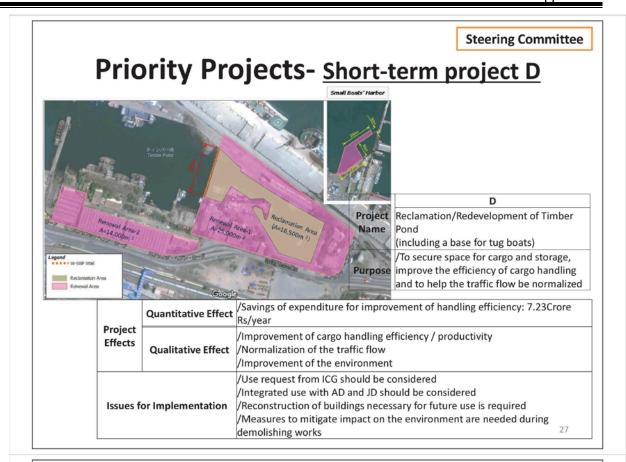
	Tamil Nadu	Karnataka	Andhra Pradesh	Telanga na	All over India	Sono d
Population 2011)	72,147,030 (6.0%)	61,095,297 (5.0%)	84,580 (7.0		1,210,569,573 (100%)	
Nominal GDP 2013-14) Crone Rs.	854,238 (8.2%)	614,607 (5.9%)	464,184 (4.4%)	391,751 (3.7%)	10,472,807 (100%)	O ICD O Steel Factory
No. of Factories (2012-13)	36,869 (16.6%)	11,753 (5.3%)	15,358 (6.9%)	13,656 (6.1%)	222,120 (100%)	Cement Factory

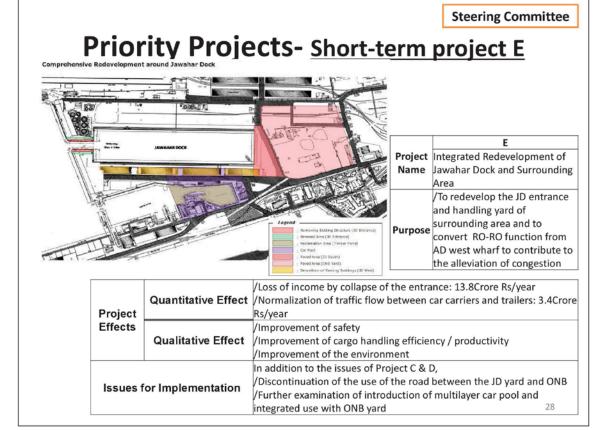




Priority Projects: Short-term project C

		Project Name	C Widening of Jawahar Dock Entrance
		Purpose	/To improve superannuated facilitie and to accommodate larger vessels
	Googla		
	Googla Quantitative Effect	/Loss of income by collapse of the	entrance: 13.83Crore Rs/year
Project Effects		/Loss of income by collapse of the /Improvement of safety	entrance: 13.83Crore Rs/year







Steering Committee

Priority Projects- Short-term project F

Draft Guidance for the Port Users

Preface

This guidance is prepared for the port users to use the facilities in comfortable manner. The ChPT has to be committed to provide the good conditions of the work place. •••••• Chapter 1. General Application

(General Application)

All the users should understand and obey the rules of Chennai port.

Chapter 6. Environment and Safety Issues

(Attending at the Environment and Safety meeting)

The meetings to improve the Environment and the Safety of Operation will be held periodically.

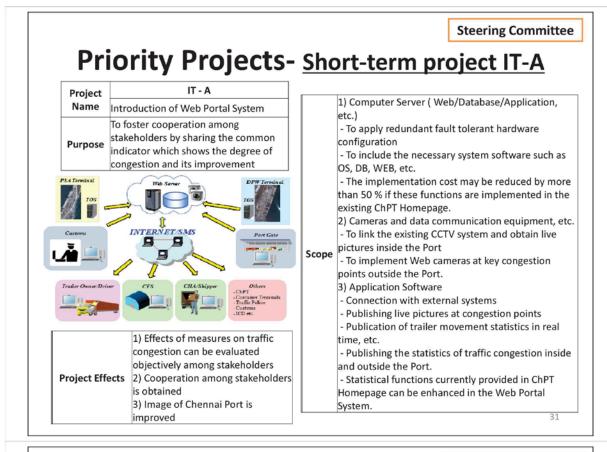
The users of the port should attend the meetings to discuss about the issues on the Improvement of the Environment and Safety, upon the invitation of the ChPT.

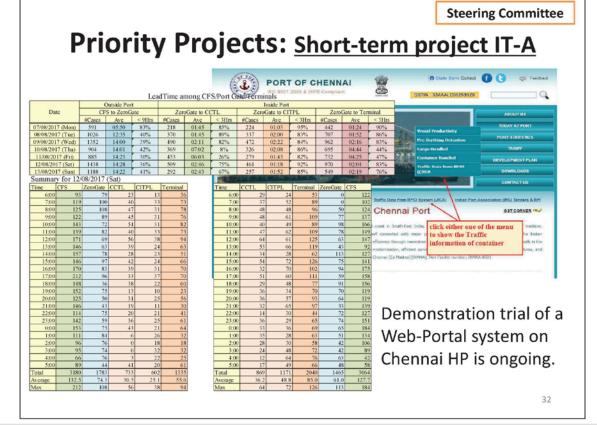
(Air Emissions and Dust)

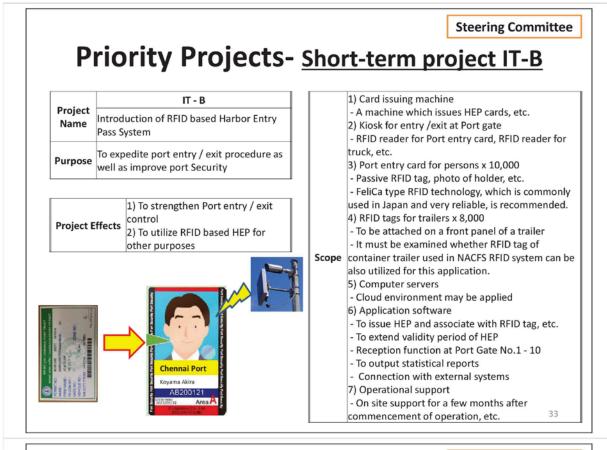
ChPT is committed to reducing the dust that is generated by cargo handling operations. Implementing of dust reduction measures is encouraged.

The users of the port should cooperate to the initiative of the ChPT for reducing of dust in the port.

30







Pr	iorit	ty Proje	cts: Long-te	Steering Committee			
D=720 m (12m)	500m	400m Hesta mesians invos Soutilitar	Legend Queryonal (L-750m) Resultment (L-750m) Rectanation Area Terming Basis (-18m) Drindging Area (-18m) Project Name	G Expansion toward the Northern Area /To expand the northern area of the			
			Purpose	port as a strategic project for securing competitiveness, attracting port users and leading to the future generation of the port			
	Project	Ouantitative Effect	/Income from handling contai target cargoes is containers)	ner (under the assumption that one of			
	Effects	Qualitative Effect	5				
	Issues fo	or Implementation	/Expansion of business opportunities /This project is proposed from the long term point of view; therefore preparations should start from now. /Grasping the timing and volume of potential cargo is important /Further technical study is needed (specifically to grasp wave conditions) /Future direction of development and the intention of the Navy shoul be considered 34				

