Appendix C.5 POLICY ON PORT DEVELOPMENT

- C.5.1 Policy for Transportation System
- C.5.1.2 National Transportation System

C.5.1.2.1 Port structure (Based on the "National Transportation System")

(1) Primary trunk port : Batam

(2) Secondary trunk ports

: Belawan, Panjang, Bojanegara, Tanjung Priok, Tanjung Emas, Tanjung Perak, Bitung, Ujung Pandang

(3) Tertiary trunk ports

: Lhokseumawe, Dumai, Pekanbaru, Tanjung Pinang, Teluk Bayur, Palembang, Cirebon, Cilacap, Benoa, Pontianak, Sampit, Balikpapan, Samarinda, Banjarmasin, Batu Licin, Kendari, Anggrek/Kwandang, Tenau Kupang, Ambon, Sorong, Biak, Jayapura

(4) Regional feeder ports

: Malahayati, Kuala Langsa, Sibolga, Kuala Tanjung, Jambi, Bengkulu, Pangkal Balam, Cirebon, Tegal, Meneng, Lembar, Maumere, Sampit, Tarakan, Pantoloan, Kendari, Ternate, Dilli, Kumai, Luwuk, Pare-Pare, Ende, Bima, Fak-Fak, Merauke, Manokwari

(5) Local feeder ports

: Gunung Sitoli, Tanjung Balai, Bengkalis, Air Bangis, Kuala Tungkal, Toboali, Juwana, Pasuruan, Badas, Kalabahi, Sintete, Gorontalo, Bau-Bau, Tual, Dobo, Nunukan, Pangkalan, Bun, Kendawangan, Toli-Toli, Poso, Ampenan, Pagimana, Banggai, Raha, Bulukumba, Labuhan Bajo, Badas, Wikelo, Larantuka, Sangkulirang/Bontang, Kolonedale, Blinyu, Pangkal Balam, Kuala Enok, Tanjung Pandan, Muara Sabak, Wahai, Sarmi, Serui, Amahai, Larat, Saulaki, Namlea, Tobelo, Bandaneira, Nabire, Kaimana, Amamapare, Sanana, Mangole, Laiwisi, Labuha, Bobong, Sedanau, Selat Lampa, Ranai, Dabo Singkep, Letung, Tarempa, Enggano, Pulau Tello, Siberut, Siuban, Sikakap, Bintuhan, Scumeue, etc.

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Appendix C.7 PORT DEVELOPMENT PLAN

C.7.2 Five year Development Plan (REPELITA)

Policy	Realization
Building and expanding transportation network	- Coordinating with Communication Department and Public Works
Functioning hierarchy of ports	Department in building/implementing access road - Establishment of the Port Structure, Trunk port and Feeder port
Expanding infrastructure standard	- Standardized sea transportation infrastructure
Simplifying documentation process and other procedure	- Centralized transportation service at 5 main ports Realized joint venture with private sectors in building UTPK III such as
	Tanjung Priok, Tanjung Perak and Bojonegara - Applied EDI(Electronic Data
	Interchange) at the main ports (Tanjung Priok) - Simplified the procedure for the
	foreign ship to enter Indonesian territory

Table C 7.2.1	Target Policies and realiza	tion in developing th	e National Transport System

Table C.7.2.2 Target policies and realization in developing the Regional Transportation System

Policy	Realization					
Providing sea Transportation services to the less advanced areas (especially East Indonesia)						
Increasing private sector participation in pioneer transportation	- Increased private sectors participation					
Increasing transportation services in isolated areas	- Determined pioneer transportation route					

Policy	Realization
	- Issued deregulation supply ship
Motivating the industrial development by transportation infrastructure development	- Issued port building licenses
Developing transportation for tourism area	- Increased port facilities in tourism area (Belawan, Batam, Bintan, Nias, Teluk Bayur, Tanjung Emas, Benoa, Ujung Pandang, Bitung, Ambon and Biak)

Table C.7.2.3 Target policies and realization in supporting industrial sectors development

Table C.7.2.4 Target policies and realization for developing transportation service quality

 Policy	Realization					
 Upgrading schedule of departure and arrival time	- Upgraded schedule for sea transportation					
Reconstructing ships	- Built 80 unit ships of Caraka Jaya type - Realized 32 unit ships (111,600DWT),					
	5 unit ships for calling Palwa Buana and 2 unit container ships (400TEU capacity)					

Table C.7.2.5 Target policies and realization for upgrading community roles

 Policy	Realization				
Starting joint venture with private sector	- Applied joint venture with private sector especially in port development (UPKTIII at Tanjung Priok, Bojonegara and Tanjung Perak				
Increasing relationship with private service providor (?)	- Providing an authority from the Government to association (?)				

Policy	Realization
Determining career system	- Issued Ministry decree no. KM 87/1994 about staff level and position
Expanding education's schedule and qualification requirement	- Issued STCW 1995 about inducement of appropriate education schedule
	- Applied high education about high technology system, such as EDI internet, computer and CCTV (?)

Table C.7.2.6 Target policies and realization for developing human resources and technology

	-		10 A	<u> </u>	•		, • , •
Table (1797	l'orgo	t natioide and	roniration	tor unor	naging	national	competitiveness
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Policy	Realization					
Increasing incentives for gaining the international competitiveness by coordinating with relevant agencies	 Simplified procedure for ship Freed the tax for import ship, renting and delivery 					
Expanding bilateral and multilateral relationship	 Expanded regional coordination in field of sea transportation (IMT-GT, IMS-GT, BIMP-EAGA and AIDA) Expanded bilateral relationship especially in the field of sea transportation Motivated alliance strategy with international shipping company 					
Developing the capacity for handling the container cargo	 Provided the Ro/Ro route between Tanjung Priok and Surabaya Motivated container service by development of ICD(Inland Container Depo), LCD(Local Container Depo) and CDC(Cargo Distribution Center) 					

C.7.2.3 Draft Plan of REPELITAVII

C.7.2.3.1 Acknowledgment of the Current Problems and Necessary Countermeasures

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Table C.7.2.8 Acknowledgment of the Curre	Countermeasures
Current Problems	
a) Quality of the sea transportation service	- Designating the route which in not served
is still low.	by private companies
One trip of Pioneer ship	- Increasing the role of pioneer ships
transportation takes long days	
(approximately 12-26days in	company by providing them with
average).	investment mechanism with low interest
	- Increasing coordination which will create
	the synergy affect for all sectors
b) Investment for sea transportation	- Increasing the finance for domestic
development is limited.	shipping by a low interest.
	(ex: Two step loan by OECF
	Interest rate 2.7%)
	- Increasing private company participation
	for port facilities development
	- Prioritizing the government fund to the
	port facilities development under non
	IPCs, such as small ports and basic quays)
	- Supporting the IPCs to find the port
	facilities fund by private sectors
	- Examining the possibility for charging the
	cost of maintaining the navigation
	facilities to the users
	Quere attention the chinging companies by
c) Organizational establishment for sea	- Strengthening the shipping companies by
transportation is still not effective.	way of alliance with other shipping
	companies, providing low interest fund
	and so on - Increasing sea transportation monitoring
	system and data processing sysytem
	system and data processing system
d) Safaty and security for sea transportation	
d) Safety and security for sea transportation is not optimum yet.	
to not optimum you.	
e) Human resources competence and	- Developing educational quality, including
technology application is still low.	teachers, educational facilities and
combiog approaction is surfied.	curriculums
	- Increasing port service standard to the
	international standard quality(ISO) by
	using Indonesian technology, computer
· · · · · · · · · · · · · · · · · · ·	<u> </u>

Table C.7.2.8 Acknowledgment of the Current Problems and Necessary Countermeasures

f) Environmental conservation and energy saving is not optimum yet.	- Formulating the clear regulation for facilities for waste processing
suving is not optimum yet.	 Increasing facility investment for handling waste process
	- Using the solar energy
	- Implementing the regulation which stipulate that each ship should have a
	facility for waste processing in order to conserve the environment
	- Strengthening the National Contingency Plan(NPC), which is national leading
	agency for dealing with the oil spilled emergency
g) Institution and regulation are not well	- Preparing the detail rules of Shipping Law
effective.	no. 21, 1992

C.7.2.3.2 Main direction of REPELITAVII (Proposal of GBHN)

(1) General direction

Transportation system development plays an upgrading role for artery economy, people's life, socio-culture, national policy, security defense, creating healthy condition and obtaining high competitiveness.

Special attention should be given to expanding transportation system in isolated area, especially in Eastern Indonesia.

All mode of Transportation development should be implemented integrally, so that global development can be attained through transportation development.

[Roles of transportation]

Roles of Total transportation are as follow.

- Providing reliable, smooth, safe and comfortable national transportation system in order to support and motivate dynamic national and regional development
- Supporting human mobility and distribution system of the goods and services
- Supporting area development and upgrading international relationship
- Uniting the Nusantara areas

[Importance of the private sectors participation]

In order to fulfill community needs and the demand from the national transportation and international trade, reliable transportation facilities should be developed.

In implementing transportation development, creation of healthy competitive condition, such as providing more pioneer ship transportation route, is very important for the private sectors to be motivated to invest. <u>Roles of private sectors and Government State</u> <u>Enterprises in international transportation system (land, air and sea) must be developed</u> with business oriented way. By doing so, important standard market segment can be introduced in the transportation system.

Moreover transportation service is crucial parts of the states and affects lots of people. So in formulating the relevant regulation, condition and capacity should be considered.

(2) Sea transportation

In order to form an Archipelago concept, which unites all Indonesia area and ocean as one unity, sea transportation should be developed. <u>Sea transportation development can</u> <u>ease ship visiting and make industrial, trading and other development activity efficient and</u> <u>effective, especially in the anticipated globalization era.</u>

Also sea transportation development should motivate national development and regional development, especially Eastern Indonesia.

Especially in Nusantara ocean, reliable, safe and effective sea transportation should be provided in order to create job opportunity.

(3) Shipping

National shipping development should be continuously upgraded and expanded, ????? Sea transportation will be able to be operated efficiently and effectively in supporting national development to unite all Indonesian areas. National sea transportation ships (so called "Armada") continuously should be developed. In addition, support facilities, strong investment structure, qualified human resources, simple license procedure, taxation system and ship maintenance and repair should be developed in order to compete with international shipping.

For domestic shipping, priority is given to Indonesian Flag. In order to improve interisland transportation, especially an isolated area, wood vessel and Pioneer ship should be continuously developed and constructed. To fulfill export & import goods necessary infrastructure facilities should be developed.

C.7.2.3.3 Basic policy for port development (Draft)

- (1) Upgrading Sea Transportation Service
- 1) Supporting national economic activity by giving the industry sector efficient and effective transportation method
- 2) Upgrading port network (including public port, special port and crossing port) to be efficient and effective national transportation system
- 3) Developing transhipment ports which have function as a collecting port through

which cargoes can be distributed to the consign place

- 4) Upgrading port facilities which can manage to handle the cargoes by government (especially for wooden shipping and pioneer shipping) in order to resolve regional isolation, abolish poverty and develop economic activity and environmental consideration
- 5) Coordinating growth among Container terminal, inland container depo, local container depo and cargo distribution center (CDC) in international and domestic ports
- 6) Upgrading management service quality which was oriented with ISO
- 7) Upgrading loading and unloading system aiming at "One Unit Serve System (PPSA) in Ports, such as ports of Dumai, Palembang, Panjang, Pontianak, Banjarmasin, Sampit, Balikpapan, Samarinda, Bitung and Ambon
- 8) Developing information system in serving management at 25 strategic ports, including "Real Time Processing System", "Electronic Data Interchange (EDI)", "Paperless Document Service System", "Just in Time Concept", "Vessel Traffic Information System (VTIS)"
- 9) Improving productivity for container loading and unloading equipment at main container ports
- 10) Using pneumatic equipment for liquid bulk cargo loading which has a cruising speed about 300 ton/hour at certain port
- 11) Utilizing CCTV for handling cargo and operation at main ports
- 12) Improving the truck control system in access road and inside yard area at main port
- 13) Upgrading service activity through improving ship service, port facility utilization and productivity
- 14) Providing port facilities and equipment which are able to accommodate demand of port services
- (2) Increasing budget for sea transportation development
- 1) Optimizing budget for port facility development by allocating budget for prioritized projects
- 2) Limiting the allocation of government budget for the ports under IPC, by allocating the government budget only for main facilities
- 3) Emphasizing allocating of the government budget in wooden shipping and pioneer shipping quays development in isolated areas
- 4) Supporting business growth through simplification of the procedures in ports
- 5) Supporting IPC to utilizing the peoples money through share selling in money market

- (3) Establishing institutional matter related to the port development
- 1) Completing the laws and regulations regarding cooperation between government and private sector
- 2) Improving port charge structure
- 3) Supporting IPC to upgrade port activity services, increase port facilities and equipments
- 4) Decreasing the subsidy by the government to the IPC in port facilities development

5) Improving Safety and Security of sea transportation

Appendix C.9 PORT FACILITIES

Table C.9.1.1 Number of Public Port and Special Port

r1	Commercial Port Non-commercial Port Special Port												
No.	Province	Comm Stra.	ercial Other	Port Subtots	Facilit	Non-co No faci	Subtota	l Port New	Total	Port	wharf	ort Subtota	Total
1	ACEH	1	5	6	8	2	10	0	10	14	11	25	41
2	NORTH SUMATRA	1	7	8	16	29	45	0	45	34	19	53	106
3	RIAU	3 (1)	.9	12	27	16	43	3	46	58	57	115	173
4	WEST SUMATRA	1	2	3	6	0	6	0	6	3	4	7	16
5	SOUTH SUMATRA	1	7	8	3	0	3	0	3	57	12	69	80
6	LANPUNG	1	0	1	7	4	11	5	16	1	4	5	, 22
7	BENGKULU	0	1	1	2	1	3	0	3	0	2	2	. 6
8	JAMBI	0	4	4	4	4	8	1	9	4	41	45	58
9	D. K. I. JAKARTA	1	2	3	0	0	0	0	0	14	9	23	26
10	WEST JAWA	1	2	3	5	8	13	3	16	4	31	35	54
11	CENTRAL JAWA		2	3	7	3	10	0	10	26	31	57	70
12	EAST JAWA	1	7	8	12	6	18	0	18	17	18	35	61
13	BALI	1	1	2	1	6	7	_1	8	9	9	18	28
14	EAST NUSA TUNGGARA	0	3	3	5	7	12	0	12	14	5	19	34
15	WEST NUSA TUNGGARA	1	4	5	19	11	30	4	34	10	9	19	58
16	EAST TIMOR	0	1	1	2	7	9	1	10	1	i	2	13
17	WEST KALIMANTAN	1.	.6	7	3	1	4	0	4	86	110	196	207
18	CENTRAL KALIMANTAN	0		8	0	3	3	0	3	18	93	111	122
19	SOUTH KALIMANTAN	1	1	2	4	0	4	0	4	4	90	94	100
20	EAST KALIMANTAN	2	3	5	6	7	13	0	13	15	123	138	156
21	NORTH SULAWESI	. 1	2	3	16	20	36	1	37	26	4	30	70
22	CENTRAL SULAWESI	Ö	2	2	13	9	22	0	22	33	9	42	66
23	SOUTH SULAVES I	1	3	4	16	21	37	1	38	5	2	7	49
24	SOUTHEAST SULAWESI	0	1	1	12	21	33	3	34	5	4	9	
25	MALUKU	1	2	3	39	17	56	1	57	17	8	25	85
26	IRIAN JAYA	3	3	6	29	79	108	3	111	17	15	32	149
Gr	and Total	24	88	112	262	282	544	25	569	492	721	1, 213	1, 894

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				of		Five Year Development Plan(REPELITAVI) Construction and Development (Physical)	ment Plan(Developme:	REPELIT nt (Physica	AVI)				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			5year Plan		Real	lization unt	il 4th	Pla	in for 5th y	/ear		5 vear tots	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Goveri	nment	-	Total	overn	IPC/Private	Total	Government	IPC/Private	Total	Government	IPC/Private	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	12	8		14,850		4,697	14,358	1,342	856	2,198		5.553	16.556
$ \begin{array}{ c c c c c c c c c c c c c c c c c c $	ő	000		80,000		1,400	25,990	3,110		3,110	_	1.400	29.100
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$.6	2,500	<u> </u>	900,000	1	465,108	725,005	29,296	274,892	304,188	289,193	740,000	1.029.193
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		9,210	_	24,250			18,952	2,350	4	2,350	 	3.232	21.302
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		20		50		25	28	P	22	22		47	50
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Syear Plan Realization until 4th Plan for 5th year 5 year total $ PCPrivale Total Government PCPrivale Total Government PCPrivale Total Government PCPrivale Total Government PCPrivale T S$						Rehabilitat	tion (Physic	cal)					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			5year Plan		Real	ization unti	il 4th		n for 5th y	ear		5 vear tota	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŝ	Government	IPC/Private	Total	Government	IPC/Private	Total	Government	IPC/Private	Total	Government	IPC/Private	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		10,800	1,955	42,755		29,107	64,981	3,680	1	3,680	39.554	29.107	68.681
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		33,400	7,450	40,850		14,296	21,562	1	1		7,264	14.298	21.562
Construction and Development (Expense) (Billion R Syear Plan Realization until 4th Plan for 5th year $(Billion R)$ FC/Private Total Government PC/Private Total Government Plan for 5th year $(Striate)$ Syear total PC/Private Total Government PC/Private Total PC/Private		38,000	1,000	39,000	7,916		68,411	1,000	1	1,000	8.916	60.495	69.411
Syear Plan Realization until 4th Plan for 5th year Sty ear total $ PC/Private Total Govenment PC/Private Total Govenment PC/Private 5 year total 559.0 2.088.9 728.1 683.4 1.411.5 215.1 250.9 466.0 943.3 934.1 1 2.0 27.5 11.5 2.4 13.9 2.7 - 2.7 14.3 34.1 1.5 10.1 10.7 2.3 13.0 1.7 - 2.7 14.3 2.4 400.3 773.8 36.3 416.6 452.9 0.9 171.0 171.9 37.3 587.6 4.5 - 3.6 3.6 - 0.9 0.9 77.9 3.7.3 587.6 4.60.3 773.8 36.3 416.6 452.9 0.9 0.9 2.4 2.3 4.60.3 773.8 56.3 0.9 0.9 0.9 2.4 2.3 5 $	l				Const	truction and	d Developr	nent (Expe	ense)		ļ	(Billin	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			5year Plan		Real	ization unti	I 4th	Pla	5th	ear		5 year tota	
559.0 $2.088.9$ 728.1 683.4 $1,411.5$ 215.1 250.9 466.0 943.3 934.1 1 2.0 27.5 11.5 2.4 13.9 2.7 $ 2.7$ 14.3 2.4 $ 2.7$ 14.3 2.4 $ 2.7$ 14.3 2.4 $ 2.7$ 14.3 2.4 $ 2.7$ 14.3 2.4 $ 2.7$ 14.3 2.4 $ 2.7$ 14.3 2.4 $ 2.9$ $ 2.94$ 488.4 $ 1.7$ 12.4 2.3 $ 2.3$ $ 2.3$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.5$ $ 4.$	3	vernment	IPC/Private	Total	Government	IPC/Private	Total	Government	IPC/Private	Total	Government	IPC/Private	1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $,529.9	559.0	2,088.9	728.1	683.4	1,411.5	215.1	250.9	466.0	943.3	934.1	1.877.4
		25.5	2.0	27.5	11.5	2.4	13.9	2.7	1	2.7	14.3	2.4	167
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		59.4	134.6	194.0	26.1	412.6	438.7	3.3	55.8	59.1	29.4	488.4	497.8
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		8.6	1.5	10.1	10.7	2.3	13.0	1.7	ł	1.7		2.3	14.7
4.5 4.5 $ 3.6$ $ 0.9$ 0.9 $ 4.5$ Spear Plan Rehabilitation (Expense) Spear Plan (Billion Rt Spear total IPC/Private Total Government FC/Private Total D 5.0 1.6 0.2 1.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 3.9 40.2 34.8 71.0 70.2 </td <td></td> <td>373.5</td> <td>400.3</td> <td>773.8</td> <td>36.3</td> <td>416.6</td> <td>452.9</td> <td>0.0</td> <td>171.0</td> <td>171.9</td> <td>37.3</td> <td>587.6</td> <td>624.9</td>		373.5	400.3	773.8	36.3	416.6	452.9	0.0	171.0	171.9	37.3	587.6	624.9
Syear PlanRehabilitation (Expense)(Billion RupiSyear totalSyear totalIPC/PrivateTotalGovernmentIPC/PrivateTotalGovernmentIPC/PrivateTotalGovernmentIPC/PrivateTotal1.540.236.234.871.03.9-3.940.234.871.005.01.60.21.83.940.234.871.0			4.5	4.5	•	3.6	3.6	•	6.0	6.0	1	45	45
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0 5.0 1.6 0.2 1.8 - - - 1.6 0.2 0 5.0 0.1 13.3 13.4 0 - 0 0.1 13.3		38.7	1.5	40.2	36.2	34.8		3.9	1	3.9	40.2	34.8	75.0
0 5.0 0.1 13.3 13.4 0 - 0 0.1 13.3		5.0	0	5.0	1.6	0.2	1.8	1	1		1.6	0.2	1 8
		5.0	0	5.0	0.1	13.3	13.4	0		C	0	13.2	12.4

of Five Year Development Plan(REPEI IT A VI)

Table C.9.1.2 Development of Port Facilities and Equipment until 4th Year and Plan for 5th Year

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Source : DGSC

Table C.9.1.3 Existing Container Terminal Facilities and Future Development Plan

		VIOD T		Suncivit C	-	. [• •		tion Boail			T TATAL		
			berth		Contait	Container lard		COULAL	TOTIEL LAUGT	CONTAINET NAMALING FACILITIES	T CTCS	ΥТ.	LISEN TOPA AUTTOMA	train pacin	
		Length	Width	Depth	Area	Capacity	Cantry	Harber Mobil	Transtainer	Ruber tyred	Top Laoder	Forklift	Head Truck	Chussis (ILLESS	SFO (SEC)
	-	(II)	(m)	(m)		(TEUS)	(Units)	orane (on ts)	(S1100)	18170011000	(ST TUN)	- T	/STITUN)	(ST TIN)	(794)
	ig. priok	000	27		31.4	27 800	00	ст,	6		2	13	59	66	
,- 	- E	510	16	9 9 9 9 9	6.8	7,400	4)1	13			6	15	18	
	CTIL	450	40		15.0	12, 900	5 C		12				40	54	
	Pasoso				1.5	714					H	6	74	84	4, 500
	Future Plan														
	Belawan			÷							1		4	1	
~	Gabion	200	31	10.0	1.7	8,000	5	10 3			ŋ	12	12	77	10,400
	Semi Cont.	350	26	0				(4)							016'ZT
	Future Plan	(500)	(31)	(10, 0)	(11.0)	(8, 944)	6		8				18	18	
	Tg. Perak TPK I (semi)	420	50.0				-		2						
<u>ო</u>	TPKI	500	50.0	10.5	12.0	14, 850	5		2	11	2	24	44	66	10,000
	Future Plan														
•	Trifer Teland	500	50.0 50.0	12. 0 7 5 0	12:0	14,850 6 000	F CV						20.4C	20 70 20	
	Pan iang		2			5									
4	Berth E	300	29	12.0	4.5	4, 745	2	2			2	12	18	20	6,000
	11.4	(00:E)) ()											
	Tg. Emas													1	
ŝ	Container	345	25	10.0	7.0	7,400	5		9		n	9	10	20	3,464
	Future Plan	(009)		12:0			2		9						
<u>ں</u>	U. Pandang New Hatta	490		10.0	2.5	7,616					ĝ	80	6		3, 564
	Future Plan	180											10	20	
£	Banjarmasin	006	19	<i>6</i>	č v	000 6	Land Crane					-			
-	Future Plan	40	12						0. P -0.0000000	399 600 600 100 F	101000000000000000000000000000000000000		2000 (Sec. 12)	2120001200	
α	Teluk Bayur	150		с Ģ	c c										
>	(Semi)	221									,				
o	Palembang (Semi)	150	20		4.6							ধ্য	বা	9	
	Future Plan					2									5,200
	Pontianak		, ,					1							
2 	CT07 (Semi)	100	18	0.0 	C .2		200800 - Barrow	100 1000 1000 1000 1000				100,000 V (100,000)		, e	
	TINUYOVIN	20T		- H N								X			
. =	Futur plan Balikpapan Amrangau(Somi)	390	30	12	12.0			5		3	2	4	9	12	6,000
	Futur plan														
12	Bitung (Semi) Container	130	40	0 0	3.7			3	Grane (100t) I			12	3	ĉ	1, 500
	Future Plan	, ooc		í.			(0F)			10,1					
E T	*bojonegara	rona 'T)	(25)	(c1)	(10)	(114)	(21)			5					
Ň	Note : * Preliminary Value	ary Value													

Note : * Preliminary Value Source : DGSC

		Total number	With	without.	until Develop∎	4th year ent REPEVI			Tota] number	With	without	until Developm	4th year ent REPEVI
No.	Province	of port	Facility	Facility	Number	New Location	No.	Province	of port	Facility	Facility	Number	New Locatio
1	ACEH	10	8	2	2	0	14	EAST NUSA TUNGGARA	12	5	7	3	0
2	NORTH SUMATRA	45	16	29	3	0	15	WEST NUSA TUNGGARA	30	19	11	9	. 4
3	RIAU	43	27	16	9	3	16	EAST TIMOR	9	2	7	1	1
4	WEST SUMATRA	6	6	0	3	0	17	WEST KALIMANTAN	4	3	- 1	1	0
5	SOUTH SUMATRA	3	3	0	3	0	18	CENTRAL KALIMANTAN	3	0	3	0	0
6	LANPUNG	11	7	4	6	5	19	SOUTH KALIMANTAN	4	4	0	0	0
7	BENGKULU	3	2	1	0	0	20	EAST KALIMANTAN	13	6	7	3	0
8	JAMBI	8	4	4	4	1	21	SOUTH SULAWES I	37	16	21	9	1
9	D. K. I. JAKARTA	0	0	0	0	0	22	SOUTHEAST SULAWESI	33	12	21	. 8	1
10	WEST JAWA	13	5	8	3	3	23	CENTRAL SULAWESI	22	13	9	7	0
11	CENTRAL JAWA	10	7	3	3	0	24	NORTH SULAWES1	36	16	20	6	1
12	EAST JAWA	18	12	6	7	0	25	MALUKU	56	39	17	8	1
13	BALI	7	1	6	1	1	26	IRIAN JAYA	108	29	79	14	3
S	ub-total	177	98	79	44	13	S	ub-total	367	164	203	69	12
So	ource : DG	SC		· · ·				Total	544	262	282	113	25

Table C.9.1.4 Number of Non-Commercial Ports

Table C.9.1.5(1) Port name of Commercial and Non-commercial Port in each province1. Port Name List (D.I Aceh)

Commercial	Sabang	Malahayati	Ulee I	Lheue	Lhok Seumawe(46.2)
	Kuala Langsa	Meulaboh			6 ports
Non	W	ith Facilities			Without Facilities
Commercial	Idi	Tapak Tuan		Sigli	· .
	Singkil(50)	P.Banyak		Kuala	Beukah
	P.Serok	Sinabang(70)			
	Calang	Susoh	:		
		8 ports	\$		2 ports

2. Port Name List (North Sumatra)

Commercial	Pangkalan Brandan Belawan K	Kuala Tanjung 🛛 Tg. Balai Asahan
· · ·	Sibolga Gunnung Sitoli Pangka	alan Susu
	Teluk Nibung / Bagan Asahan	8 ports
Non	With Facilities	Without Facilities
Commercial	Teluk Dalam(100) Sirombu(35)	Lahusa Lagundri
	Hinako Lahewa	Muale Lelhelawau
	Pulau Tello Sigolo-golo	Solonako Tuhembarua
	Tg. Beringin Tg. Tiram(30)	P.Bias Lab. Hiyu
	Teluk Leidong Labuhan bilik	P. Tanah Mas Pantai Cermin
	Natal Sialang Buah	Percut Pantai Labu
·.	Sei Berombang Pulau Kampai	Rantau Panjang Perupuk
•	Tg. Sarang Elang Sikara-kara	Pangkalan Dodek Gaja Mati
		Simandulang Ajamu
		Tabuyung Pulau Sembilan
		Singkuang
		Sei kubung Pantai Pukat
		Barus Manduamas
		Muara Tapus Tg. Pura
		Tapak Kuda Kuala Serapu
	16 ports	29 ports

Note 1 : underlined port name is constructed or reconstructed during REPELITA VI Note 2 : () value is constructed or reconstructed length of berthing facilities Source : DGSC

Commercial	Bagan Siapiapi Dumai Bengka	lis Selat Panjang
Commercial	Pakanbaru / Parawang Rengat Te	v
		alai Karimun
	Siak Indrapura	12 ports
Non	With Facilities	Without Facilities
Commercial	Pulau Sambu Tg. Uban	Pulau Bulan Bandul
Commercia	Sungai Pakning Sei Apit	Kurau/Selat Lalang Melibur
	Bandul Buatan	Pasir Panjang Ranai
	Tg. Samak Tg. Kedadu	Kakap Natuna Udang Natuna
	Tarempa <u>Letung(70)</u>	Sikumbang kundur Moro
	Midai Sedanau	Daik Sapat
	Serasan Tambelan	Parigi Raya Kuala Gaung
	Tg. Batu Sungai Guntung	Kuala Madah Halang
	Penyalai Dabo Singkep(50)	
	Sei Buluh Penumba(35)	
	Kuala Raja Senayang	
	Sinaboi Panipahan	
	Batu Panjang(30) Batam(32)	
	Sei Kolak Kijang(104)	
	27 ports	16 ports
	Now Location	
	Midai(67) Sribintan Pura(15)	
	Payalaman(115)	

Table C.9.1.5(2) Port name of Commercial and Non-commercial Port in each province 3. Port Name List(Riau)

4. Port Name List(West Sumatra)

Commercial	Air Bangis '	Feluk Bayur	Muara Pa	dang	3 ports
Non	W	ith Facilities		W	ithout Facilities
Commercial	Toapejat(35)	Siberut	Siuban	-	
	Sikabaluan	Sikakap(6	Z)		
	Bake(67)		6 ports		0 ports

Kuala Tungkai 3 ports Muara Sabak Commercial Jambi Without Facilities With Facilities Non Nipah Panjang Pemusiran Simbur Naik(25) Sungai Lokan(25) Commercial Lambur Luar Air Hitam Laut Sungai Jambat(25) 4 ports Kuala Mendahara 4 ports New Location Pangkal Duri(30)

Table C.9.1.5(3) Port name of Commercial and Non-commercial Port in each province

6. Port Name List(South Sumatra)

Commercial	Palembang Pangkal Balam Tg. Pa Sungai Lais Sungai Selan Sunga	
Non	With Facilities	Without Facilities
Commercial	Manggar(40) Toboali(35)	
	Sei Lumpur (30) 3 ports	

7. Port Name List(Bengkulu)

Commercial	Bengkulu 1/I	Pulau Baai		1 ports
Non	1	With Facilities	Wit	hout Facilities
Commercial	Malakoni	Bintuhan/Linau	Muko-Muko	
		2 ports		1 ports

8. Port Name List(Lampung)

Commercial	Panjang		1 ports
Non	With	Facilities	Without Facilities
Commercial	Kuala Teladas	Kota Aguhg	Manggala Sungai Burung
	Krui	Maringgai(30)	Teluk Betung Way Penet
	Way Seputih	Mesuji	
	Kalianda	7 ports	4 ports
	• New Location		
	P.Tabuan(25)	P. Simbesi(30)	
	Legundi(25) I	Kelumbayan(25)	
	KaPenet(25)		

9. Port Name List(DKI Jakarta)

Commercial	Sunda Kelapa	Tg. Priok	Kali Baru	3 ports
Non	With Facil	ities	With	out Facilities
Commercial		0 port		0 port

10. Port Name List(West Jawa)

Commercial	Cigading Banten/Bojonegara C	irebon 3 ports
Non	With Facilities	Without Facilities
Commercial	Karangantu Anyer Lor	Labuhan Pelbuhan ratu
· . ·	Pangandaran Bojanegara	Indramayu Balongan
	Pamanukan 5 ports	Kresek M.Binuangeun
· · · ·	New Location	Eretan Kejawanan
	Ma. Cituis(30) Ma. Gembong(30)	8 ports
	Ma. Gebang(30)	

Table C.9.1.5(4) Port name of Commercial and Non-commercial Port in each province

11. Port Name List(Central Jawa)

Commercial	Semarang	Tegal	Cilacap		3 ports
Non		With Facilitie	es	Without Facil	ities
Commercial	Jepara	Karimun J	awa(70)	Brebes Lasem	
	Juwana(70)	Remban	<u>g(30)</u>	Wiradesa	
н. 	Batang	Pemalang	- - -		
· .	Pekalongan		7 ports		3 ports

12. Port Name List(East Jawa)

Commercial	Gresik Tg. Po			linggo	
	Tg.Wangi / Mene	eng Kalianget	Tuban	Panarukan	8 ports
Non		Facilities		Without Fac	ilities
Commercial	Bawean	Masalembo	Sepulu	Branta	
	Telaga biru(30)	Gayam	Besuki	Kamal	
	Sampang(30)	Sapudi(53)	Paiton	Ketapang	3
	P.Raas(35)	Sepekan(76)			
	Kangean	Kalbut(30)			· · · · ·
· .	Brondong (30)	Jangkar 12 ports	5	· .	6 ports

13.Port Name List(Bali)

Commercial	Benoa Celukan Bawang	Padang	Baai	3 ports
Non	With Facilities		With	out Facilities
Commercial	Nusa penida		Gilimanuk	Kusamba
		l ports	Sanur N	lusa Lembongan
	New Location	- · · ·	Labuhan lalang	Buleleng
	Padangbai(30)			6 ports

14. Port Name List(NTB)

Commercial	Lembar Badas Bima	3 ports
Non	With Facilities	Without Facilities
Commercial	Tg. Luar Pamenang Tanjung	Labuhan Haji Labuhan Ialar
	Labuhan Lombok(70)	Alas Senggigo
	Sape(50) Kempo(35)	Calabahi Dumpu/Cempi
	5 ports	Ampenan 7 ports

 Table C.9.1.5(5)
 Port name of Commercial and Non-commercial Port in each province

Commercial	Waingapu	Ende	Tenau	Kala	abahi	Maum	ere	5 ports
Non	Wi	th Facili	ties			With	out Facili	ties
Commercial	Larantuka	Waiw	erang		Robek		Baing	
	Balauring	Lewol	eba		Kabir		Kolba	no
	Reo(38)	Waike	lo		Marita	ing	Oelaba	t
	Rua(50)	Atapu	ipu		Batutu	a		
	Wini	Baran	usa		Biu		Mauro	le
	Baa	Papela	1		Labuha	un Bajo	Nangal	ili
	Ndao(70)	Seba						
	Raijua(50)	Mbor	ong(40)					
	Aimere	Marap	okot					11 ports
	Naikliu		19 po	rts				
	New Locatio	n						
	Maumbawa(70) B	looking(70	<u>)</u> .				
	Waiwadan(35)	<u>Sabu '</u>	<u> Timur(42)</u>					

15. Port Name List(NTT)

16. Port Name List(East Timor)

Commercial	Dili		· . · ·	1 ports
Non	With	Facilities		Without Facilities
Commercial	Com Oekus	i	Lautem	Lora
. :		2 ports	Santana	Baucau
· · · · ·	• New Location		Laga	Lalete
	Tibar(50)		Beaso	7 ports

17. Port Name List(West Kalimantan)

Commercial	Singkawang	Sintete Pontiana	ak Telok Ai	r
	Ketapang	Pemangkat Sam	ibas	7 ports
Non	Wit	th Facilities	Withou	It Facilities
Commercial	Paloh/Sakura	Kendawangan(35)	Teluk Melano	
	Air Hitam			
		3 ports		1 ports

18. Port Name List(Central Kalimantan)

Commercial	Pulau Pisau Kuala Pembuang	Kuala Kapuas Pangkalan Bun	Samuda Sukamara	Sampit Kumai 8 ports
Non	With	Facilities		Without Facilities
Commercial			Kereng Ba	ngkirai Bahaur
		0 ports	Pegatan M	lendawai 3 ports

Table C.9.1.5(6) Port name of Commercial and Non-commercial Port in each province

19. Port Name List(South Kalimantan)

Commercial	Banjarmasin Kotabaru / Batulicin	2 Ports
Non	With Facilities	Without Facilities
Commercial	Satui/Sei Danau Pagatan Kotabaru	······································
	Simpang Empat Batulicin	
	Gunung Batu Besar 4 ports	0 port

20. Port Name List(East Kalimantan)

Commercial	Nunukan T	arakan	Samarino	la Balik	cpapan
	Kampung Baru				5 ports
Non	With	Facilities	·	W	Vithout Facilities
Commercial	Tg. Laut(40) Tanah Grogot(70)	Sangkulira Tg.Redep	U 1	Lhok Tuan Tg. Selor	Sangata Kuala semboja
		uk Adang		Talisayan	Sungai Nyamuk
		61	ports	Pulau Buny	u 7 ports

21. Port Name List(South Sulawesi)

Commercial	Makassar Pare-pare Paotere	Capa Ujung 4 ports
Non	With Facilities	Without Facilities
Commercial	Mamuju(30) Majene	Budong-budong Kalukku
	Malili(30) Polewali	Pasang Kaya Sampaga
	Tinambung(42.5) Selayar(70)	Tappalang Sendana
	Awarange Baru(70) Sinjai	Pamboang Mulunda
	Bulukumba(35) Belang-belang	Campalagiang Bira/Tanah Beru
	Palopo(66) Siwa(40)	Kayu Angin Kambuno Bonerate
	Biringkasi Jeneponto Palipi	Pammatata Burung Leo
	Pattirobajo 16 ports	Tujuh-Tujuh Cendrana Barebbo
	New Location	Kading Jampea
:	Marabombang(30)	Bajoe 21 ports

Note 1 : underlined port name is constructed or reconstructed during REPELITAVI

Note 2 : () value is constructed or reconstructed length of berthing facilities

Source : DGSC

Table C.9.1.5(7) Port name of Commercial and Non-commercial Port in each province

Commercial	Kendari	1 ports
Non	With Facilities	Without Facilities
Commercial	Tangke Tada(30) Bau-Bau	Pomalaa Dawi-Dawi
	Wanci(70) Boepinang	Toari Bana Bungi
	Sikeli Raha(35)	Kasipute Lasalimu
	Maligano(35) Kolaka(70)	Dongkala Kaledupa
	Watunohu Langara	Waha/Usuku Papaliya
	Molawe(35) Lapuko(35)	Ereke Tampo
	12 ports	Labuhan Belanda Boranga
		Lasusua Ranteangin
	New Location	Olo oloho Wollo Torobulu
	Pagimana(70)	Malombo Munse 21 ports

22. Port Name List(Southeast Sulawesi)

23. Port Name List(Central Sulawesi)

Commercial	Pontoloan / Donggala Toli-tori	2 ports
Non	With Facilities	Without Facilities
Commercial	Leok(50) Ogoamas(70)	Lokodidi Palele
	Poso Parigi	Kumalele Sabang
	Moutong(60) Ampana	Ogutua Wakai
	Bunta Pagimana	Sabang/P.Peleng Wosu
	Luwuk(50) Salakan(35)	Wani
	Banggai(100) Kolanedale	
	Bungku(50)	the second s
	13 ports	9 ports

24. Port Name List(North Sulawesi)

Commercial	Bitung Manado Gorontalo	3 ports
Non	With Facilities	Without Facilities
Commercial	Lirung <u>Mianggas(70)</u>	Esang Beo
	Karatung Melanguane	Marompit Tamako Pehe
	Mangarang Tahuna(15)	Tumbak Amurang
	Marore Petta(30)	Kotabunan Molibagu
	Kawaluso(35) Ulu Siau	Inobonto Kema
	Tagulandang(70) Labuhan Uki	Boroko Tolinggula
	Kwandang Belang Air Tembaga	Gentuma Tilamuta
	Rainis 16 ports	Bumbulan/Labulo Marisa
	New Location	Popayato Lemito Likupang
	Anggrek(120m)	20 ports

Table C.9.1.5(8) Port name of Commercial and Non-commercial Port in each province

Commercial	Ambon Ternate Bandanei	
Non	With Facilities	Without Facilities
Commercial	Tobelo Labuha/Babang	Wailei Tatani
	Soa-siu Weda	Pulau Amutu Besar
	Saketa(35) Gita/Payahe	Guruapin Gelela
	Sanana <u>Dofa(70)</u> Bobong	Taniwel Wulu
	Namlea Amahai Tehoru	Adaut Dawera
	Kataloka/Ondor Geser	Lerokis Bere-bere
	Tulehu(50) Kairatu	Air Buaya Hila/Romang
	Saparua/Haria Piru	Ilwaki Lakoi
	Hitu Tual Elat <u>Dobo(58)</u>	P.Gebe Waisarisa
	Batu Goyang Saumlaki	
	Larat Tepa Sarwatu(134)	
	Kaiwatu/Moa Mangole	
	Jailolo Daruba Laiwui	
	Leksula(35) Wonreli Wahai	
	Bula <u>Kobisonta(70)</u> Buli	17 ports
	Kao 39 ports	
	New Location	
	Mafa(35)	

25. Port Name List(Maluku)

Table C.9.1.5(9)Port name of Commercial and Non-commercial Port in each province26. Port Name List(Irian Jaya)

Commercial	Sorong Fak-Fak Manokw	vari Biak
	Jayapura Merauke	6 ports
	With Facilities	Without Facilities
Non	Serui(70) Nabire/Tlk.Kimi	Ansus Wainapi
Commercial	Kaimana Kabare(42)	Poom Dawai Ambai
	Sarmi <u>Teba(70)</u>	Kaipuri Wanggur Napan
	Waren(70) korido(35)	Wapoga Kuatisore Nusa
	Janggerbun(70) Oransbari	Susunu Lobo Kanoka
	Windesi(70) Ransiki(42)	Selasai Weti Karas
	Saukorem Wasior	Adijaya Senini Pulau Adi
	Teminabuan Inawatan	Etna Wakde Demta
	Waigama Kalobo	Betaf Apauwer Matabor
	Sausapor(70) Seget(42)	Armopa Kasonaweja Bagusa
	Pomako/Timika(50) Bade	Takar Barapasi Yamna
	Bintuni Babo	Wardo Kameri Misbipondi
	Kokas Agats	Korem Bosnik Sailolof
	Kimaan Amamapare	Makbon Konda Mega
	Saunek 29 ports	Klamano Sele Kasim
	New Location	Salawati Arandai Sagan
	Fatanlap(70) Numfor(70)	Kumbati Bomberai Kokonao
	<u>Weru(50)</u>	Hiripau Uta Sawaerma
· ·		Yaosakor Jipawer Yamas
		Atsy kamur Pirimapun
		Kepi Tanah Merah Tanah Miring
		Gententeri Okaba Semanggi
		Bian Kaptei Bayun
		Anggamburan Senggo Moor
		Mindiptanah Cabang Tiga Bupui
		Arambu Muting Bulaka
· · ·		Kumbe Eci
		79 ports

	Table C.9.1.6(1) Foreign Aid during REPELITA V and VI Foreign Aid during REPELITA V (1988/1989 - 1993/1994)	
<u> </u>	Subject	Remark
Source of Fnance		
1.Japan /	1. Dumai Port Development Phase I & II	· · · · · · · · · · · · · · · · · · ·
OECF	2. Ujung Pandang port Urgent Rehabilitation Project	
	3. Semarang Port Development Phase II stage I	
	4. Semarang Port Development Phase II stage II	
	5. Maritime Transport In Eastern Indonesia Phase I	
	6. Maritime Transport In Eastern Indonesia Phase II	
	7. Maritime Telecommunication Development Phase III	
2.ADB	Ninth Port Project : Balikpapan, Samarinda, Tarakan,	
	Pantoloan, Toli-Toli, Belang-Belang and Pare-Pare	
3.Germany	1.Passenger Vessels (2vessels)	
	2.Passenger Vessel (1vessel)	
	3.Dredging Vessel (3Vessels)	
4.Norway	1.Inter-Island Fleet: Advisory Course and Training	
5.France	1.Navigation Aid: 26beacons	· · · · · · · · · · · · · · · · · · ·
6.Spain	1.Navigation Aid: 25light house,76beacons,60floating buoy	
7.Export	1.Navigation ship: 5units	
Credit		
	Foreign Aid during REPELITAVI (1994/1995-1998/1999)	
1.Japan /	1. Dumai Port Development Phase II	
OECF	2. Ujung Pandang port Urgent Rehabilitation Project	
	3. Semarang Port Development Phase II Stage I	
	4. Semarang Port Development Phase II Stage II	
	5. Maritime Transport In Eastern Indonesia Phase I	
	6. Maritime Transport In Eastern Indonesia Phase II	
	7. Maritime Telecommunication Development Phase	
	8. Kupang and Bitung Port Development Project	
2.ADB	1. ADB Confinance JEXIM: Pilot Boat	
2.1100	2. Study : Port of Belawan Technical Assistance	
	3. Study : Balikpapan, banjarmasin and Gresik Port	
	Development Project	
	4. Study : Privete Sector Participation for transportation Sector	
3.IBRD	1.Study : Southern Sumatra and West Jawa port Development	
4.IDB	1.Ujung Pandang Port Container Handling Facilities	
1	Procurement	
5.Germany	The 16th - 20th Ship	
6.Norway	1.Inter-Island Fleet Development	
7.France	1.Navigation Aid: 26Light	ļ
8.Export	1.Navigation ship: 7units	
Credit		
9.US EXIM	1.5unit split barges, 1unit tug boat and spare parts	
Bank		· .

Table C.9.1.6(1) For	reign Aid during	REPELITA V	/ and VI
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F	'lan for Foreign Aid during REPELITA II (1999/2000-2003/2004)	
Source of Fnance	Subject	Remark
1.Japan /	1. Kupang and Bitung Port Development Project	
OECF	2. Dumai Port Development Project Phase III	
	3. Small Port Development Project (12port)	
2.ADB	1. Belawan, Banjarmasin and Balikpapan Development Project	
3.IBRD	1. Procurement of Container Crane in Belawan Port	

Table C.9.1.6(2) Plan for Foreign Aid during REPELITA ₩

Table C.9.1.6(3) Foreign Aid Proposal for Blue Book (1998)

	Subject
1	. Development of Local port in Eastern Indonesia
2	2. Belawan, Banjarmasin and Balikpapan Development Project
3	B. Development Project of Inland Container Terminal for Ujung Pandang
4	. Urgent Development Plan of Semarang Port Phase II
5	5. The Deepening and Widening of Channel Banjarmasin Port
6	5. The Deepening and Widening of Channel Surabaya Port
7	7. Modernization Port of Tanjung Perak
8	3. Procurement of Maritime Desaster Prevention Ship
9	D. Development and Improvement of Marine Aids to Navigation
	10.Maritime Safety Training Centre
	11.Upgrading of Oil Spill Response Capabilities in Indonesia
	12. Study of The Maritime Traffic Safety System Development Plan
	13. Monitoring & Management Environmental Study for Commercial port
	14. Feasibility Study on Vessels traffic Services for Malacca and Singapore Straits
	15. Technical Assistance for Feasibility Study for Development Port of Telok Air in West
۰.	Kalimantan
	16. The Study of River Port Development
	17.Domestic Shipping Modernization in Indonesia
	18. Procurement of 6 units Container Vessel for PT. Djakarta Lloyd
	19. Procurement of 2 units Ro-Ro Vessels and Spare Parts Project
	20.Procurement 10 units of Pioneer Inter Island Passenger Vessels

		Port			Ł	Present Condition of Port Infrastructures	Port Infrastrue	ctures			
		15-								;	
•	_	;	Access Channel	ł		Container Berth	Conventional	erminal	Passenger		Remarks
Province	Location	Classification	Length, Width, Depth	Basin Area Depth (Ha) (m)	Brackwater F	e.	Length Depth (m) Length Depth (m) (m)	Length Depth (m) (m)	Terminal Length Depth (m) (m)	Pioneer Length Depth (m) (m)	:
			(W) (W) (W)				L 32 D 9				wooden deck
<u> </u>	Sabang	Traitar.		010 07 0	000		Γ		L 288 D		transfered from AAF
	Lhok Seumawe	I cruary			~~~		Γ				
	Malahayati	Kegional		COLOCIA			1 22 20 2				
	Meulaboh			A 15 D 1.5			1 25 7 0				
•	Kuala Langsa	Regional	L7 W 80 D 6	A 15 D 7	-		2007				
	Pangkalan Susu		L 20 W 60 D 5.7								
		Cocondeny		A4 117D6 5-10		1.350 D 9		L 350 D 7*	L215D9		*Multi/liquid cargo
	Belawan	Secolidat y	- 1	A 10 D 6-12			<u> </u>				past of INALUM
	Nuala 1 anjung	Negrona					1 204 D 1 5			_	•
	Tg.Balai Asahan	, 	L 21 W 80 D 1.5	A 7.5 D 2.5			1 136 75.7			L 146 D 2	
	Sibolga	Regional		A 50 D 7			L 100 1 0*		136 035		*Multi purpose
	Dumai	Tertiary	L 57 W 250 D18	A 74 D 7-10			L 633 L 0		1 50 01 5.3		
	Tg. Pinang	Tertiary	L 19 W100 D3.5-8	A 315 D3.5-8			L 61 / LJ-8		2.27		*Multi numoce
	Fekanbaru	Tertiary	L161.5 W 60 D 6	A 2.8 D 6			L 346 D 4-5"			1 6 10 6	and and strates
	Bagan Siapi-api		L 6.7 W 100	A 0.5 D - I			L 31.5 D 0.5		10401	102401	*ind nontoon 20m
RIAU	Bengkalis			A 0.075 D 6.5		_	L 75 D 4.5		L 18 U 4.3	L 105" D 4	
	Selat Paniang			A 64 D 6.5			L 207 D 7		L 10 D 2.5	L 100* D 4	Tinci pontoon Jum
	Tembilahan			A 10 D 7			L 60 D 7				
	Kuala Enok			A 40 D 8			LL 100 D 6				
	To Balaikarimin			A 57 D4-8			L70 D5				
	Le.DalalNammun		e co	A 2 25 D 6.5						L 86 D 3.5	incl. KACIRAKY
	Ratam	Primary									•
WECT	Tolinb Rover	Tertiary	1.18W150D10	A 22.4 D 12	1	Scmi L 150 D9.5	L 940 D 9.5	L 248 D 9.5		L 335 D 2	incl. Ma.Padang
N DO I	Air Bandie			A D1.5	Γ		L 53 D 1.5				
Τ	Tombi	Perional	1 140 W 80 D 4 5				L 400 D 7				incl. Talane Dulsu
Τ	Palamhano	Tertiary	L111 W 120 D 6	A100.4 D 9/11		Semi L 265 D 9.2	L 475 D 7				*PELRA
111000	Muntak	/					L 25 D 3		L 100 D 6*		*Bliuyu
	Dendrol Ralam	Peeional		A 2.3 D 2/5			L 654*D 5				*incl. PELRA
SUMATKA DENCVIII II	rangad Datau	Regional		A1.000 D2-11			L 150 D 9	L 125 D 9		L 100 D 5	
PENGNULU	Danjana	Secondary		A 55 D12		Full 400 D 12	L1.007 D7-12				RO-RO 20
TAMENT	Renten(Ciwanda)	Secondary	13	A 54.8 D7/10			L 322 D10-15	L 132 D 7		L25D3	
WEST JAWA &	Sunda Kelapa			A24.9 D3-4						L2.587D2-4	
		Cassadoru		4 474 D 12		Full L1.860 D9-11-	_	L2300D7.5-12	L600D7.5-12		RO-RO
UNLJANAKIA	1g.priok	Ter Reg		A 8.5 D 3/7	1,711		L713 D6-7	L 131 D 7	+	L 655 D 3	
	Ta Fmor	Secondary		A 97 D 4/9	5,100	Full L 345 D 12	L 605 D 9	L 180 D3-8	L 150 D 7	L1.697 D 3	*FC=345m
	Tegal	Regional					L 783 D			L 325 D 3	
	Cilacan	Tertiary	L 17.6 W 70 D 9	A 180 D 7		-	L 495 D7.5-9	L 10 D 7			~~~~
	To Persk	Secondary	1.46.3 W100 D9.7	A1.634 D 9/12		Semi L390 D10.5 Full L500 D10.5	L5.385D4-9.5		L 400 D9-10	L2.270 D 3	FC=550m
FACT	Proholingeo	X	L 2 W 50 D 5	A 6.1 D 2			L1,460 D 1				
	Meneno	Regional	L W D20	A 316 D 12			L 388 D			L 573 D 3	Inc.Tg.Wangi
	kali Anget	2					L 80 D 4				
	Pasuruan	Regional					L 1.130			L 407 D 3	
	Gresik			A 12 D 3			L 250 D 6			L 802 U 3	
	Benoa	Tertiary	L W 160 D 9.5	A D4			L 186 D 4-6	L 30 D 3	IT SND	111000	
BALI	Celukan Bawang		L 0.7 W 350 D 17	A 10 D 9			F 170 D 2		-		*
	ACEH NORTH SUMATRA SUMATRA RIAU RIAU RIAU BENGKULU LAMPUNG MEST JAWA & DKI JAKARTA JAVA JAVA JAVA JAVA BALI BALI		ee Tertiary Regional Regional Regional Regional Tertiary Tertiary Tertiary Negional Regional Regional Regional Secondary Secondary Regional Tertiary Mary Regional Tertiary Secondary Regional Tertiary Regional Tertiary Regional Tertiary Regional Tertiary Regional Tertiary Regional Tertiary Regional Tertiary Regional Tertiary Regional	ee Tertiary L0.6 W 200 D10 Regional L7 W 80 D6 u Regional L20 W 60 D 57 u Secondary L 20 W 00 D 10 Regional L21 W 80 D 1.5 Regional L21 W 80 D 1.5 Regional L21 W 80 D 1.5 Regional L1.0 W 00 D 1.5 Regional L1.1 W 20 D 1.5 Tertiary L1.5 W 30 D 1.5 Tertiary L1.1 W 120 D 6 n Regional L 17.2 W 100 L5 W 30 D 1.5 win L 6 W 30 D 1.5 win L 6 W 30 D 1.5 win Regional L 19.6 W 100 L 5 W 30 D 1.5 win L 1.1 W 120 D 6 n Regional Regional L 1.40 W 80 D 4.5 Regional L 1.1 W 120 D 6 R L 1.1 W 120 D 6 R Regional Regional L 1.40 W 80 D 1.5 Regional L 1.40 W 80 D 1.5 Regional L 1.40 W 150 D 1 Secondary	ee Tertiary L0.6 W 200 D 10 A Regional L7 W 80 D 6 A Regional L7 W 80 D 6 A Regional L20 W 100 D 10 A Regional L20 W 00 D 13 A Regional L21 W 80 D 15 A Regional L140 W 100 D 15 A Regional L15 W 100 D 15 A Regional L110 W 120 D 6 A Regional L140 W 80 D 45 B Regional L110 W 120 D 6 A Regional L140 W 80 D 45 B Regional L140 W 80 D 45 B Regional L110 W 120 D 6 A Regional L140 W 80 D 45 B Regional L140 W 90 D 15 B Regional L140 W 90 D 15 B <	ee Tertiary Lo6 W 200 D10 A 40 D10 1,000 Regional L 7 W 80 D6 A 15 D 15 A 15 D 15 A 15 D 15 Regional L 20 W 60 D 57 A 15 D 15 A 10 D 6-12 A 10 D 6-12 Regional L 20 W 100 D 10 A 11 T06.5-10 A 10 D 6-12 A 10 D 6-12 Regional L 21 W 80 D 1.5 A 75 D 25 A 15 D 7.5 A 10 D 6-12 Regional L 21 W 80 D 1.5 A 74 D 7.10 A 10 D 6-12 A 10 D 7 Tertiary L 19 W 100D A 0075 D 6.5 A 10 D 7 A 10 D 7 Tertiary L 19 W 100D A 0075 D 6.5 A 10 D 7 L 10 M 200 D 1.5 A 228 D 6 A 10 D 7 Regional L 140 W 80 D 1.5 A 200 P 3 Regional L 140 W 80 D 1.5 A 225 D 6.5 Primary L 18 W 150D 10 A 223 D 12 Regional L 111 W 120D 6 A 233 D 2.5 Regional L 140 W 80 D 1.5 A 244 D 12 Regional L 111 W 120D 6 A 244 D 12 Regional L 111 W 120 D 7<	Regional Lo6 W 200 D10 A 0 D10 1.000 Regional L7 W 80 D6 A 15 D7 rent. 200 P10 Regional L7 W 80 D6 A 15 D7 rent. 200 P10 Regional L7 W 80 D15 A 117065-10 L350 D9 Regional L20 W 80 D15 A 73 D 25 L350 D9 Regional L21 W 80 D15 A 74 D 7-10 L350 D9 Regional L21 W 80 D15 A 74 D 7-10 L350 D9 Regional L21 W 80 D15 A 74 D 7-10 L350 D9 Regional L99 W100 D554 A 30 D 7 Regional Regional L91 W 100 D155 A 74 D 7-10 L150 W 100 Regional L19 W100 D54 A 20 D5 Reside D55 Mintary L151 W 100 D54 A 25 D6.5 L150 D95 Primary L15 W 100 D54 A 25 D6.5 L150 D95 Regional L111 W 120 D6 A 10 D5 Regional L150 D95 Regional L14 W 150 D13 A 24 D 12 Full 400 D 12 Regional L111 W 120 D6 A 25 D54	ef Tertiary Lo.6 w 200 Fig A 95 Dis Los for 5 Dis Los for 6 Dis <	ef Tertiary L0.6 w 200 Dio A 6 Dio 1.000 L967 D9.5 L0.600 Dis Regional L.7 w 80 Dr6 A 15 D 15 L975 Dis L975 Dis L975 Dis N Regional L.7 w 80 Dr6 A 15 D 15 L975 Dis L975 Dis L975 Dis N Regional L.7 w 80 Dr5 A 10 F125.10 L930 D9 L950 D56.10 L Secondary L20 W 100 D13 A 10 F32.5 A 11 D55.10 L 350 D9 L950 D56.10 L Regional L21 W 80 D15 A 15 D3.5 L 130 D9 L 250 D15 L 204 D15 Regional L21 W 100 D1 A 31 D 3.5 L 130 D56.4 L 130 D56.5 L 10 D7 N Tertiary L161 W 100 D1 A 31 D 45 L 10 D7 L 200 D7 N Tertiary L11 W 120 D6 A 25 D 45 L 10 D7 L 200 D5 N L132 W 100 D64 A 25 D 45 L 10 D7 L 200 D5 L 200 D5 N L132 W 100 D7 A 25 D 45 L 10 D7 L 200 D5 L 200 D5	me Tertiny Lo6 W 200 10 A 010 1000 15 L 150 15 <thl 150="" 15<="" th=""> <thl 150="" 15<="" th=""> <thl 150<="" th=""><th>m Trentiny Los W 300 10 A 40 D10 J 300 10 <t< th=""></t<></th></thl></thl></thl>	m Trentiny Los W 300 10 A 40 D10 J 300 10 J 300 10 <t< th=""></t<>

Table C.9 1.7(1)-1 Existing Port Facilities In Main port

Province Location WEST Lembar WEST Lembar WWEST Badas TUNGGARA Bima TUNGGARA Maumere NUSA Eade TUNGGARA Maumere Maumere H KALIMANTAN Singkawang SoUTH Banjarmasin RALIMANTAN Sampit Telok Air Telok Air SOUTH Banjarmasin RALIMANTAN Sampit SoUTH Banjarmasin Banikapapan T SOUTH Banu Licin RALIMANTAN Nunukan RALIMANTAN Sampit SOUTH Banu Licin Banu Licin T SOUTH Banu Licin Banu Licin T SOUTH Banu Licin Banukan T SOUTH Banukan SULAWESI Pare-Pare NORTH Manado	Port Classification Regional Local Regional Regional Regional Local Local	Access Chamel Length, Width, Depth (km) (m) (m) (km) (m) (m) (m) (m) L 0.3 W 150 D20 L 7.5 W1,000 D25 L 5.7 W2.760 D20 L 5.7 W2 D1 L 5.7 W D1 L 1.5.7 W D1 L 1	Basin Area Depth (Ha) (m) A 76 D A 9 D3/17 A 30 D12 A 2.858 D50	Braekwater Length (m	Present Condition o Container Berth Full/Sem Len Dep	of Port Infrastructures Conventional Bulk 7 Length Depth (m) Length 1 (m) (m)	uctures Bulk Terminal Length Depth (n (m)	n) Terminal L	Small or Pioneer Length	Remarks
Province Location WEST Lembar WEST Lembar WEST Lembar NUSA Badas NUSA Badas TUNGGARA Bima Badas H NUSA Badas TUNGGARA Badas NUSA Badas TUNGGARA Badas TUNGGARA Badas NUSA Kalabahi TUNGGARA Kalabahi KALIMANTAN Singkawang Singkawang T KALIMANTAN Singkawang SOUTH Banjarmasin RALIMANTAN Sampit SOUTH Banjarmasin RALIMANTAN Sampit Kunai T KALIMANTAN Sampit SOUTH Banjarmasin Banjarmasin T SOUTH Banjarmasin SOUTH Banjarmasin South Batu Licin Nunokan L South Batu Licin Sout			Basin Area Depth (Ha) (m) A 76 D A 9 D3/17 A 2.858 D50 A 2.858 D50	Braekwater Length (m)	Container Berth Full/Sem Len Dep	Conventional Length Depth (m) (m)	Bulk Termina Length Depth ((m)	 Passenger m) Terminal Length Dawh (m) (m) 	Small or Pioneer Length	Remarks
WEST Lembar Index WUSA Badas Index NUSA Badas Index NUSA Badas Index TUNGGARA Bima Index TUNGGARA Bina Index TUNGGARA Maumere Index TUNGGARA Maumere Index KALIMANTAN Singkawang Index VALIMANTAN Singkawang Index Valabahi Index Index KALIMANTAN Sambas Index KALIMANTAN Sambas Index KALIMANTAN Sambas Index SOUTH Banjarmasin Index KALIMANTAN Sampit Index SOUTH Banjarmasin Index KALIMANTAN Sampit Index SOUTH Banjarmasin Index			Juepin (ma) (m) A 76 D A 9 D3/17 A 30 D12 A 2.858 D50	(m) unduart		(E	(m)	(m) (m) Hourd		_
WEST WEST NUSA TUNGGARA EAST NUSA TUNGGARA Bima TUNGGARA Badas TUNGGARA Rainaphi EAST NUSA NUSA Numere Maumere Kalimark WEST Rainak WEST Rainak Maingapu SouTHA Bau Licin Ranhasin Bau Licin Bau Licin Baukpapan SouTH Bau Licin Baukpapan SouTH Bau Licin Baukpapan SouTH Baukpapan SouTH Baukpapan Baukpapan SouTH Baukpapan SouTH Baukpapan SouTH Baukpapan SouTH Baukpapan SouTH Baukpapan South Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan South Baukpapan Baukpan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpapan Baukpan Baukpapan Baukpan Baukpapan Baukpapan Baukpapan Baukpan Ba			A 76 D A 9 D3/17 A 30 D12 A 2.858 D50		F/S (m) (m)			Loopus (ray) (m)	Depth (m) (m)	
NUSA Badas TUNGGARA Bima EAST Waingapu BAST Waingapu NUSA Waingapu Funde TunoGARA Bima EAST TUNGGARA Bima TUNGGARA Maumere NUSA Maumere WUSA Maumere NUSA Maumere Fontianak Fontianak WEST Kalabahi Pontianak Pontianak WEST Kalabahi Fontianak Fontianak WEST Kalabahi Fold Air Singkawang SouTH Banjarang South Banuak KALIMANTAN Kumai KALIMANTAN Kumai KALIMANTAN Sambas South Banu Licin South Balikpapan EAST Nunukan South Balikpapan South Balikpapan <			A 9 D3/17 A 30 D12 A 2.858 D50			L 218 D 7		L 120 D	L 200 D 3	
TUNGGARA Bima TUNGGARA Bima EAST Waingapu NUSA FenawKupang FAST TIMOR Maumere NUSA Maumere Pontianak Pontianak VALIMANTAN Singkawang Pontianak Valada Kapus CENTRAL Kuala Kapus CENTRAL Kuala Kapus NOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Bankpagan SULAWESI ParePare SULAWESI Paneloloan SULAWESI Paneloloan SULAWESI Paneloloan SULAWESI Paneloloan NORTH Manado SULAWESI Paneloloan NORTH Manado SULAWESI Paneloloan NORTH Manado SULAWESI <td></td> <td></td> <td>A 30 D12 A 2.858 D50</td> <td></td> <td></td> <td>L 199 D 6</td> <td></td> <td></td> <td>L 50 D 4</td> <td></td>			A 30 D12 A 2.858 D50			L 199 D 6			L 50 D 4	
EAST Tenau/Kupang EAST Waingapu NUSA Maumere NUSA Kalabahi Singkawang Fontianak WEST Pontianak WEST Fontianak WEST Fontianak WEST Fontianak WEST Folok Air SOUTH Sampit SOUTH Banjarmasin Baulkpapan Baulkpapan SULAWESI Panelaan SULAWESI Panelaan SULAWESI Panelaan SULAWESI Paneloan SULAWESI Paneloan SULAWESI Paneloan SULAWESI Paneloan SULAWESI Paneloan SULAWESI Paneloan NORTH Manado SULAWESI Anbon MALUKU Fermate MALUK			A 2.858 D50			L 140 D 6			L 100 D 4	
EAST NUSA Waingapu TUNGGARA Ende NUSA Ende TUNGGARA Maumere Kalabahi Dilli Singkawang Pontianak WEST Ketapang KALIMANTAN Singkawang Pontianak Wess KALIMANTAN Singkawang KALIMANTAN Singkawang KALIMANTAN Singkawang SOUTH Kuala Kapus KALIMANTAN Sambas SOUTH Banjarmasin Baularmasin Baularmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banarinda Nunukan Southas SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Matassar SULAWESI Manado SULAWESI Manado SULAWESI Manado SULAWESI Manado SULAWESI Manado SULAWESI Anbon MALUKU Sorong Biak Sorong		D 0.5 D 0.5 D 1.3 D 1.3 D 2.5 D 7 400 D 0.5				L 323 D 7			L 60 D 4	
NUSA TUNGGARA TUNGGARA Maumere Ende TUNGGARA Maumere Maumere Kalabahi Kalabahi NEST Singkawang WEST Singkawang WEST Singkawang WEST Singkawang WEST Singkawang Pontianak Singkawang KALIMANTAN Singkawang SOUTH Kunai KALIMANTAN Sambas CENTRAL Kumai KALIMANTAN Sambas SOUTH Banjarmasin Banjarmasin Banjarmasin Banjarmasin Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Bankapaan SOUTH Bankapaan SOUTH Bankapaan SOUTH Bankapaan SOUTH Bankasar SOUTH Bankasar SOUTH Bankasar SOUTH Makaasar SOUTH Bankasar SOUTH Makaan		D 0.5 D 0.5 D 1.3 D 2.5 D 2.5 D 2.5 D 2.5 D 2.5 D 2.5 D 2.5 D 1.5 D 1.5		-		L 193 D 8			L 100 D 4	
TUNGGARAMaurnereTUNGGARAKalabahiKalabahiSingkawangKALIMANTANSingkawangPortianakBingkawangWESTKetapangKALIMANTANSinneteSOUTHKuala KapusKALIMANTANSambasCENTRALKuala KapusKALIMANTANSambasCENTRALKumaiKALIMANTANSambasSOUTHBanjarmasinBaul LicinBanjarmasinKALIMANTANBanjarmasinSOUTHBanjarmasinSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHBanianSOUTHPare-PareSOUTHPare-PareSOUTHBanadoSULAWESILuwukNORTHManadoSULAWESIAnggrekMALUKUSorongBiakSorong		D0.5 B0D5.5 D1.3 D2.5 D7 400 D0.5				L 175 D 6				
) EAST TIMOR Dilli) EAST TIMOR Dilli EAST TIMOR Dilli EAST TIMOR Dilli Pontianak WEST Ketapang Fourtianak WEST Ketapang Folok Air SoUTH Kunai KALIMANTAN Simtete SOUTH Banjarmasin Batu Licin KALIMANTAN Sampit SOUTH Banjarmasin Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin SOUTH Banjarmasin Banjarmasin SOUTH Banjarmasin Banjarmasin SOUTH Banjarmasin Banjarmasin SOUTH Banjarmasin Banjarmasin Southear Southasi 		D 0.5 B 0 D 5.5 D 1.3 D 2.5 D 7 400 D 0.5				L 140 D 6			L 150 D 4	
) EAST TIMOR Dilli NEST Singkawang WEST Singkawang WEST Katamak WEST Ketapang KALIMANTAN Singkawang Fourtianak Ketapang KALIMANTAN Singkawang KALIMANTAN Sintete SOUTH Ruala Kapus KALIMANTAN Sampit SOUTH Banjarmasin Batu Licin Batu Licin KALIMANTAN Kotabaru SOUTH Balikpapan SOUTH Balikpapan SOUTH Balikpapan SOUTH Makasar SOUTH Makan Nunukan CENTRAL Pare-Pare Nunkan SULAWESI Luwuk NORTH Manado SULAWESI Gorontalo NURKU Anbon MALUKU Sorong MALUKU Sorong		D 0.5 80 D 5.5 D 1.3 D 2.5 D 7 400 D 0.5				L 110D6				
Singkawang WESTSingkawang PontianakWESTWESTWESTKetapangKALIMANTANKetapangCENTRALKuala KapusKALIMANTANSambasCENTRALKuala KapusKALIMANTANSampitKALIMANTANSampitKALIMANTANSampitSOUTHBatu LicinKALIMANTANBatu LicinKALIMANTANRotabaruEASTBalikpapanSOUTHBalikpapanSOUTHBatakanSOUTHPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPareoloanSULAWESILuwukNORTHManadoSULAWESIGorontaloNORTHManadoSULAWESIGorontaloNURUKUTernateMALUKUSorongBitakSorong		D 0.5 80 D 5.5 D 1.3 D 2.5 D 7 400 D 0.5				L 240 D 6				
WEST WESTPontianak Ketapang KALIMANTANKALIMANTANSinteteeCENTRALKuala KapusCENTRALKuala KapusKALIMANTANSampitSOUTHBanjarmasinKALIMANTANBanjarmasinKALIMANTANBanjarmasinKALIMANTANBanjarmasinKALIMANTANBanjarmasinSOUTHBanjarmasinSOUTHBanjarmasinSOUTHBanikrapaanSOUTHBanikrapaanSOUTHPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESILuwukNORTHMakaasaNORTHManadoSULAWESIGorontaloNURUKUAnggrekMALUKUSorongBitakSorong		80 D 5.5 D 1.3 D 2.5 D 7 D 1 D 1 t00 D 0.5				A D 0.5				See Sintete
WEST WESTKetapang KetapangKALIMANTANSinteteeCENTRALRuala KapusKALIMANTANSambasKALIMANTANKuala KapusKALIMANTANBanjarmasinKALIMANTANBanjarmasinKALIMANTANRotabaruKALIMANTANRotabaruKALIMANTANRotabaruKALIMANTANNunukanSOUTHBalikpapanSOUTHBalikpapanSOUTHPare-PareSOUTHPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIParedonanNORTHManadoSULAWESIGorontaloNORTHManadoSULAWESIGorontaloMALUKUSorongBiakSorong		D I.3 D 2.5 D 7 D 1 D 1 400 D 0.5	A 21.4 D 5		Semi L 300 D 10	L 517 D 6	L 140 D 6		L 200 D 4	
KALIMANTAN Sintete CENTRAL Telok Air Sambas CENTRAL Kuala Kapus Sampit KALIMANTAN Sampit KALIMANTAN Sampit KALIMANTAN Sampit KALIMANTAN Sampit KALIMANTAN Baulutcin KALIMANTAN Baulutcin KALIMANTAN Baulutucin Baulutucin Balikpapan EAST Samarinda SOUTH Balikpapan SOUTH Balikpapan SOUTH Balikpapan SOUTH Balikpapan SOUTH Pare-Pare SULAWESI Pare-Pare NORTH Manado SULAWESI Gorontalo NORTH Manado SULAWESI Gorontalo MALUKU Sorong MALUKU Sorong		D 2.5 D 7 D 1 00 D 0.5				L D25			L 100 D 5	
Telok Air CENTRAL Fuala Kapus Kunai Kanbas KALIMANTAN Sampit SOUTH Baul Licin KALIMANTAN Bauliarmasin SOUTH Balikpapan SOUTH Bauliarmasin SOUTH Bauliarmasin SOUTH Baustranda SOUTH Baustranda SOUTH Baustranda SOUTH Makassar Nontere Matudo SULAWESI Luwuk NORTH Manado SULAWESI Gorontalo MALUKU Ternate MALUKU Sorong		D7 D1 400 D0.5				L D3.5			L 335 D 4	wroden deck and Singkawang
CENTRAL Sambas CENTRAL Kunal KALIMANTAN Sampit SOUTH Baul Licin KALIMANTAN Baul Licin KALIMANTAN Baul Licin KALIMANTAN Baulkpapan EAST Baulkpapan KALIMANTAN Nunukan EAST South Baukpapan Balikpapan EAST Nunukan SOUTH Parekan SOUTH Parekan SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Pareoloan SULAWESI Pareoloan SULAWESI Pareoloan SULAWESI Pareoloan SULAWESI Gorontalo NORTH Manado SULAWESI Gorontalo MALUKU Anbon MALUKU Sorong Biak Sorong		D 1 400 D 0.5				L D 2.5			L 100 D 5	
CENTRALKuala KapusKALIMANTANSampitSOUTHBanjarmasinSOUTHBau LicinKALIMANTANRotabaruKALIMANTANNunukanEASTSamarindaKALIMANTANNunukanTarakanSOUTHSOUTHMakassarSOUTHMakassarSOUTHPare-PareSULAWESIPare-PareSULAWESIPareloanSULAWESIPareloanSULAWESIPareloanSULAWESIContaloSULAWESIGorontaloNORTHManadoSULAWESIGorontaloNORTHManadoNURUKUTernateMALUKUSorongBiakSorong		0.5				L D1.0				
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KALIMANTAN Sampit SOUTH Banjarmasin SOUTH Bau Licin KALIMANTAN Kotabaru Bau Licin Balikpapan FAST Balikpapan KALIMANTAN Nunukan Tarakan SOUTH SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Panoloan CENTRAL Panoloan SULAWESI Panoloan NORTH Manado SULAWESI Gorontalo MALUKU Ambon MALUKU Sorong Biak Sorong	Tor Dag					L 300 D 6			1,306.D.3	
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KALIMANTANBatu LicinKALIMANTANKotabaruEASTBalikpapanEASTSamarindaKALIMANTANNunukanTarakanSOUTHSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareSULAWESIPare-PareNORTHPaneloanSULAWESILuwukNORTHMatadoSULAWESIGorontaloMALUKUTemateMALUKUSorongBitak		L 25 W 55 D 6	A3 D4		Semi 1, 240 D 7	1.590 15 5-9	1.40 D.7	L 70 D 9	1.428.D.4	
KALIMANTAN Kotabaru EAST Samarinda EAST Samarinda KALIMANTAN Nunukan Ratkan SOUTH Tarakan SULAWESI SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Pare-Pare SULAWESI Luwuk NORTH Manado SULAWESI Gorontalo NORTH Anggrek MALUKU Tentate MALUKU Sorong						1 70 105				
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KALIMANTAN Nunukan SOUTH Tarakan SULAWESI Pare-Pare NORTH Paroloan NORTH Manado SULAWESI Gorontalo MALUKU Ternate MALUKU Sorong	T	2 -				1 827 D 7		Γ	1 50 05	
Tarakan SOUTH Matassar SULAWESI Pare-Pare SULAWESI Pare-Pare DoUTHEAT SULAWES Kendari CENTRAL Pancoloan CENTRAL Panoloan CENTRAL Panoloan SULAWESI Luwuk NORTH Manado SULAWESI Gorontalo NORTH Anggrek MALUKU Ternate Biak Sorong	T			Ť					22	
SOUTH Matassar SULAWESI Pare-Pare SULAWESI Pare-Pare CENTRAL Panoloan CENTRAL Panoloan Toli-Toli SULAWESI Luwuk NORTH Manado SULAWESI Gorontalo SULAWESI Gorontalo MALUKU Ternate MALUKU Bitak		1	A1D7			1 250 D 7			T	
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MALUKU Pantoloan CENTRAL Pantoloan SULAWESI Luwk NORTH Manado SULAWESI Gorontalo SULAWESI Gorontalo MALUKU Ternate Biak			A2 U8			L 43/ D 6			L 100 D 4	
CENTRAL Fantoloan SULAWESI Luwuk NORTH Manado SULAWESI Gorontalo Anggrek MALUKU Temate Biak	1	1 10 W 120 D20	A 3/.2 U 8			L 331 D 6			L 80 D 3	
SULAWESI Luwuk NORTH <u>Bitung</u> NORTH Manado SULAWESI Gorontalo Anggrek MALUKU Temate Biak	nal	-	A 10 D 9			L 230 D 7		_	L 100 D 3	
SULAWESI Luwuk NORTH Bitung NORTH Manado SULAWESI Gorontalo Anggrek MALUKU Temate Biak	Locai		A3D6			L 155 D 7				
NORTH Bitung NORTH Manado SULAWESI Gorontalo Angerek Ambon MALUKU Temate Biak	Regional								L100D4	
NORTH Manado SULAWESI Gorontalo Anggrek MALUKU Temate Biak		L16.2 W4.000 D68	A 4.3 D 14			L1.207 D 7	L 146 D 7	_	L 60 D 4	
SULAWESI Gorontalo Anggrek MALUKU Temate Biak									L52 D2	
Anggrek Ambon MALUKU Temate Biak		L 8 W 200 D 15	A1 D7			L 134 D 6				
Ambon MALUKU Temate Sorong Biak						L 100 D 8				Under construction
MALUKU Ternate Sorong Biak			A 635 D 10			L617D7			L 100 D 4	
Sorong Biak		<u> </u>	A 1.9 D 7	:		L 400 D 7			L 50 D 3	
Biak		1	A 93 D 9			L 280 D 7				
		L 6.4 W 360 D 16	A 50 D 9			L 262 D 7				
IRIAN Jayapura	Tertiary	1	A 500 D 9			IL 132 D 7			1.33 D.4	
(IV) JAYA Fak-Fak		— —	A2 D6			L 154 D 5				
Manokwari R	ŀ		A 24.98 D 6			L 163 D 7			L 50 D 3	
Merauke	Regional	r-	A 1 D 6			L 74 D 5			1 50 D 3	
			1							

Table C.9.1.7(1)-2 Existing Port Facilities In Main port

			Tab	Table C.9.1	.7(2)-1 Exis	9.1.7(2)-1 Existing Port Facilities In Main port	lities In	Main po	ort			
			Port			Present	Present Condition of Port Facilities	of Port Facil	ities			
°. X	Province	Location	Classification	Container Yard (ha)	Container Handling Load/unioad System Name / No./ Cap	Container Handli Yard OperationFaci	Container Freight Station (m2)	Open Storage Area (m2)	Shed facilities Area (m2)	Cargo Handing Equipment name no/Cap	Passenger Terminal Area (m2)	Remarks
		Cabara				Name/ No./ Lap.			9.410			
		Javang I hok Senmavie	Tertiary					20,158	2.000	MC / 2/10-25	290	
+	ИСЕН	Malahavati	Regional					30,820	10,802	MC / 2/15	788	
- Ĺ		Menlaboh	0					2.520				
(f)		Kuala Langasa	Regional					500	800	FC / 2/ 5		
		Panekalan Susu	>									
		Delorion	Secondary	9.5	GC / 2 / 40	Top Loader / 5 / 40 Travel lift / 4 / 40	7,300	96,915	70,000	MC/ 5/2540 FL/20/2-15	7,605	
	NUKIH	DCIAWAII	Demonal									
ca ŕ	CINATDA	NUAIA LAUJUUS	INCE IOINA					6,125	3.820	FC/ 2,1/ 3.5	645	
(1)	SUMATKA	I g. Datat Asattau	Regional					1,783	2,900		160	
		Divuga	Tertiary					11,175	18,066	MC/2/35-40	1,100	
		Dumai Tra Diana	Tertiany					2,000	2,400	MC/2/5-15	2,443	
		L Ş.F IIIalığ Dekanhami	Tertiary					5.215	1,920	MC/3/2.5-8	188	
		Ragan Sianiani									70	
6	PIAT:	Rengalalis							600		196	
n É		Selat Paniano						1.600	1.120		760	
		Tembilahan							300		159	-
	•	Kuala Enok										
	•	Tg.Balai Karimun										
		Rengat						2,400	400			
		Batam	Primary									
4	WEST	Teluk Bayer	Tertiary	3.9		七/1/40	5,250	724.500	12,400	MC/ 1/25		
(11)	SUMATRA	Air Bangis						4	070.1			
5(II)	JANBI	Jambi	Regional	0.6				2,650	1,800			
	SOUTH	Palembang	Tertiary	4.5		TL SL / 1.2 / 40	9,000	35.000	107,148			
9		Muntok						6 700	1.760	MC/1/15		
	SUMATRA PENCYIU II	Pangkal Balam	Regional		MC / 1 / 25			5,700	3.850			
<u>(</u> Ш))	DENONUCO	Doniana	Secondary	4.5	2/	TT / 3 / 40	6.000	19,088	19,102	MC/ 2/25		
<u>/π)</u> ο	TAIMIT UND	r aujaug Banten(Ciwanda)	Secondary					22,400	1,500	MC/1/15		
6	WEST JAWA &				4 1			4.517	33.000		0.000	
(II)	DKI JAKARTA		Secondary	54.7	GC / 17/40	TT / 56/40	4.500	260,000	20 200	1L SP/ 3/ 24-33	2007	
		Cirebon	Ter.Reg			mr / c / 10	2 564	005 661	AD ADA		4.530	
21	CENTRAL	Tg.Emas	Secondary	0.7	CC / 7 / +0	11/ 0/ 40	toric .	5 380	840			
(III)	,	Tegai	regional Trationi					21.200	7,100	MC.FL/		
	JAVA	Cilacap	I eruary		CC / E / VO	TT PTC / 15 /40	10.000	110.147	122.317		7,129	
	Ĩ	Tg.Perak	Secondary	14.4			200101	10.000	17.280			incl Tg.Wangi
	EASI	Monang	Regional					32,450	8,050	MC.FL/1.6/25,	200	
= É	141/4	Irali Anget						2.030	069 .		300	
		Pasuruan	Regional					32.900	1.400			
	-	Gresik						6.880	1,400	NC.		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
12		Benoa	Tertiary					6.400	1.014	FC/ 4/3	7440	
<u>(</u>)	BALI	Celukan Bawang						000.01	010	-	-	~

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Province Location Constant and Symposity and Symposity Constant and Symposity Cons <td></td> <td></td> <td></td> <td>Port</td> <td></td> <td></td> <td>Presen</td> <td>t Condition</td> <td>OI FOR FACH</td> <td>lines</td> <td></td> <td></td> <td></td>				Port			Presen	t Condition	OI FOR FACH	lines			
Pronte Location Cuatification Summit Amonganie Summ				-	Contrainer	Container Handling					Cargo Handing	Passenger	
WEST Lember Regional Number 12/56 7/2 A/1/5 TUNGGAR Batas Regional Regional Regional 2000 200		Province	Location	Classification	Yard (ha)	Load/unload System	Facilities	Freight Station (m2)	Storage Area (m2)		Equipment name	Terminal Area (m2)	Kemarks
WIGAAA Basis Lotal Lotal Lotal 2000 200 Cold	17	WEST	ll embar	Regional					12.750	720	FL/1/3	500	
TUNGGAA Tatisat Regional Regional Regional 2.000 4.00 4.00 FAST Tunger Regional Regional 2.000 2.00 2.00 2.00 8.00		NITSA	Radae	l ocal					2.700	600		300	
Functionsex Tenux 2000 2.90 MC-1/1/-/ RAT Exat Tenux 2.000 2.90 MC-1/1/-/ NUSCARA Waingepu Regional Tenux 2.000 2.90 MC-1/1/-/ NUSCARA Mahonie Regional Tenux 2.000 2.90 MC-1/1/-/ MUSCARA Mahonie Regional 0.4 2.000 2.90 2.90 2.00 MUSCARA Mahonie Regional 0.4 0.4 2.000 2.90 2.00 2.00 MUST Reapeage Tentary 0.4 0.4 2.000 1.900 2.00 1.000 2.		NGCAPA	Bima	Regional					2,000	400		300	
RAT INGGAR Mannessenses Wittensenses (ability) Wittensenses (ability) Wittensenses (ability) Wittensenses 2000 2450 A INNCGAR Mannes Regional Mannes Regional Fertisy 0.4 0.00 2.			Tenau/Kimano	Tertiary					20.000	2.500	1	700	
TUNGGARA Munerei Regional Regional Regional Regional 2.00 2.69 2.69 2.69 FATTMOR Dilli Rubarei Regional 0.4 2.00 2.69 2.03 FATTMOR Dilli Rubarei Regional 0.4 2.00 2.03 2.03 FATTMOR Dilli Rubarei Regional 0.4 2.00 2.03 2.03 FATTMOR Dilli Rubarei Regional 0.4 2.00 1.00 2.00 2.03 FALMAVTAN Simbas Textage 0.4 2.00 1.30 2.00 1.310 KALIMAVTAN Simbas Local 1.0.0 2.00 1.310 2.0.0 1.310 Souths Local Local 1.0.0 2.0.0 1.310 2.0.0 1.310 2.0.0 1.310 2.0.0 1.310 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 2.0.0 <td></td> <td>E A CT</td> <td>1 Citau Nupang</td> <td>1 41 4144 9</td> <td></td> <td></td> <td></td> <td></td> <td>2.250</td> <td>800</td> <td></td> <td>300</td> <td></td>		E A CT	1 Citau Nupang	1 41 4144 9					2.250	800		300	
TUNGGARA Balabali Responsi Rationali Responsi Responsition Responsition Responsis and and and a		LASI MISA	W alligapu	Demonal	-				2.000	2.450		720	
I.UNUCARIA Magnetie Regional Negotia 450 200 520 220 EAST TIMOR Dilli Rabinit Regional 0.4 9.00 9.00 9.00 9.00 9.00 9.00 9.00 8.00 <t< td=""><td>:</td><td>NUSA</td><td>LEnde</td><td>Decional</td><td></td><td></td><td></td><td></td><td>3.100</td><td>1</td><td></td><td>300</td><td></td></t<>	:	NUSA	LEnde	Decional					3.100	1		300	
I EASTTINOR Namenin Regional Recipies Re		NGGAKA	Maumere	Kegiona					480	000		300	
I EAST TIMOK Dill Regonal Containak Tentiny 0.4 1.300 2.001 No 2.001 WEST Fontianak Tentiny 0.4 0.4 0.00 9.00 18.00 XC/2/3 WEST Fontianak Tentiny 0.4 0.00 9.00 18.00 XC/2/3 VEST Folds Arr Tentiny 0.4 0.00 9.00 1.300 XC/2/3 KALIMANTAN Simplicantin Tentiny 0.4 0.00 1.300 XC/2/3 KALIMANTAN Simplicantin Tentiny 1.8 LC/2.1/35/50 CS/2/40 3.000 1.300 XC/2/3 KALIMANTAN Saminhum Tentiny 1.8 LC/2.1/35/50 CS/2/40 3.000 1.300 XC/2/3 KALIMANTAN Koubern Tentiny Tentiny XC/2/3 3.000 1.300 XC/2/3 KALIMANTAN Koubern Tentiny Tentiny XC/2/4 3.000 XC/2/3 XC/2/3 KALIMANTAN </td <td>╉</td> <td></td> <td>KalaDani</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>040 8</td> <td>2 2 2 2</td> <td></td> <td>400</td> <td></td>	╉		KalaDani						040 8	2 2 2 2		400	
NERT Numerication Tettary 0.4 0.000		ST TIMOR	Dulh	Kegional					1 202	030.0			
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WEST KALIMANTAN Sineta Keapeng I	16		Pontianak	Tertiary	0.4				9,080	19.8W		-	
KALIMANTAN India Sintee 100 90 </td <td></td> <td>WEST</td> <td>Ketapang</td> <td>:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		WEST	Ketapang	:									
Tolok Air Tolok Air <thtolok air<="" th=""> <thtolok air<="" th=""> <tht< td=""><td>KAI</td><td>LIMANTAN</td><td>Sintete</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tht<></thtolok></thtolok>	KAI	LIMANTAN	Sintete										
Sambas Sambas Local <			Telok Air										
CENTRAL Numai Kuala Kapus 1000 990 990 990 KALIMANTAN Sumai Local Local Local 2.000 1.400 MC/2/35 KALIMANTAN Sumai Local Local Local No 2.300 1.400 MC/2/35 SOUTH Ban Jainmasin Tertary 2.8 LC/21/25.50 C5/2/40 2.1900 12.400 MC/2/35 KALIMANTAN Ban Jainmasin Tertary 2.8 LC/21/25.50 C5/2/40 2.1900 12.400 MC/2/35 SOUTH Ban Jainmasin Tertary 2.8 LC/21/25.50 C5/2/40 2.100 1.700 MC/2/35 KALIMANTAN Numatindia Tertary 2.8 1.000 9.00 1.700 MC/2/354 SOUTH Ban Jain Regional Tertary A.00 MC/1/15 1.700 MC/2/254 SOUTH Tarakan Regional Tertary A.00 4.300 MC/1/15 1.700 MC/2/254 SOUTH Tertary <			Sambas										
KALIMANTAN Jumai Local Land Land <thland< th=""> <thland<< td=""><td>ŀ</td><td>ENTRAL</td><td>Kuala Kapuas</td><td></td><td></td><td></td><td></td><td></td><td>1,000</td><td>086</td><td></td><td></td><td></td></thland<<></thland<>	ŀ	ENTRAL	Kuala Kapuas						1,000	086			
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Would man the field m	1	NULTING		Tertiary	c x	_	6		21.900	12.430	MC/2/	2.110	
KALIMANTAN KALIMANTAN Kalikingapin Entiary 410 EAST Baikingapin Tertiary 2000 3.170 Mc/7/75345 EAST Baikingapin Tertiary 2.1160 570 Mc/1/15 KALIMANTAN Numatinda Tertiary 2.000 3.170 Mc/7/751 KALIMANTAN Numatinda Tertiary 2.000 570 Mc/1/151 SOUTH Restin Restinda 7.5.24235 4.000 45.00 3.020 SOUTH Makassar Secondary 7.5 R.1.7.3.2.42.35 4.000 45.00 3.020 SOUTH Makassar Secondary 7.5 R.1.7.3.2.42.35 4.000 45.00 3.020 SOUTHARTANNAN Makassar Secondary 7.5 4.000 45.00 45.00 45.00 SOUTHARTANAN Makassar Secondary 7.5 4.000 45.00 45.00 4.000 47.00 45.00 4.000 47.00 45.00 4.000 47.00 <t< td=""><td></td><td>111000</td><td>Batu Licin</td><td>Tertiary</td><td></td><td>_</td><td></td><td></td><td></td><td>800</td><td></td><td>200</td><td></td></t<>		111000	Batu Licin	Tertiary		_				800		200	
Accumany Main Fertiary Fertiary Fertiary Fertiary MC/1/15		IN ANTAN	K otahani							430		300	
EAST Description Terriary Description C/1/15 KALIMANTAN Nunukan Local Terriary No. / 1/15 No. / 1/15 Tarakan Local Terriary Regional 7.0 9.00 9.00 9.00 SULIAWATAN Nunukan Local No. / 1/15 1.000 5.00 MC/ 1/15 1.000 5.00			Ralibraran	Tertiany					12.900	3,170	L	2.500	
	 	БАСТ	Samarinda	Tertiary					21.116	4,400	MC/	1.260	
MALLAWER Regional No. 5.896 1.720 SOUTH Makassar Secondary 7.5 Rs.TL/3.2/42.35 4.000 45.60 20.200 MC/3/755-40 SULAWESI Pare-Pare Regional 7.5 Rs.TL/3.2/42.35 4.000 45.60 1.000 SULAWESI Pare-Pare Regional 7.5 4.000 45.60 1.000 SULAWESI Pare-Pare Regional 7.5 4.000 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 5.000 50.00 45.00 50.00 45.00 4	مشمنس	L IM A NT A N		1 ocal					00001	570			
SOUTH Matassar Secondary 7.5 RS:TL/32/42.35 4.000 43.500 MC/3/25-40 SULAWESI Pare-Pare Regional 7.5 4.55 4.56 20.200 MC/3/25-40 SULAWESI Pare-Pare Regional 7.5 4.56 0.000 MC/3/25-40 SULAWESI Pare-Pare Regional 7.5 4.56 0.000 1.000 Toil-Toil Local Regional Regional 8.600 4.350 0.00 1.2761 SULAWESI Panoloan Regional Regional 0.000 4.350 0.000 1.2761 SULAWESI Panoloan Regional 0.000 4.350 0.000 0.000 0.000 0.000 0.000 0.000 0.020 0.000 <td></td> <td></td> <td></td> <td>Revional</td> <td></td> <td></td> <td></td> <td></td> <td>5.890</td> <td>1.720</td> <td></td> <td>1,268</td> <td></td>				Revional					5.890	1.720		1,268	
NOUTH SULAWER Markasar Resonant Resonant Nouth 12.767 456 No SULAWER Regional Regional Regional Regional 12.767 456 1000 SULAWERS Kendari Ter.Reg Regional Ter.Reg 8.600 1.000 900 SULAWESI Luvuk Regional Coral 2.100 900 550 55.17/25 NORTH Toli-Toli Local Local 2.100 900 5500 55.17/25 NORTH Manado Local Secondary 1.00 900 5.480 1.725 NORTH Manado Local Secondary 1.00 900 5.480 1.725 NORTH Manado Local Secondary 1.000 2.300 5.1/25 5.400 5.480 1.566 1.725 NORTH Manado Contato Regional Regional 1.566 Mc/1/25 1.566 1.566 5.560 5.57 5.500 5.560 5		0.011111		Cocordon	3 6		DC TI /23/42 35	4 000	43 500	20.200	L	3.620	
SULAWEST FARTARE TextRet Notement Endering TextRet Notement Endering TextRet Notement Endering Endering <thendering< th=""></thendering<>		SOUTH THANEST	Makassar Dore Dore	Decional Decional	<u>c.1</u>		CONTRACTION AND	0001	12.767	456			
DOUTIAND Statement Returned Returned <td></td> <td>ULA WESI</td> <td>r arc-r arc</td> <td>Tor Dec</td> <td></td> <td></td> <td></td> <td></td> <td>8.600</td> <td>1 000</td> <td></td> <td>500</td> <td></td>		ULA WESI	r arc-r arc	Tor Dec					8.600	1 000		500	
CENTRAL Tolis Tolia Regional Local Regional Regional <thregional< th=""> <thregional< th=""> Region</thregional<></thregional<>	$ \square$	HEAST SULAWES	Nendari	Decional					6 700	4 350		2.000	
SULAWESI IOUT-IOU LUAUK Regional Colaboration Solution Solution Solution Solution Local Local Local Local Solution	:		Talituloan	1 ocol					2,00	006		048	
JOLAMEJ Luwuk Negroud Nogroud Scool 5.000 5.000 5.000 5.000 5.000 5.000 CS/1/25 NORTH Manado Luwuk Secondary No 6.480 CS/1/25 6.480 CS/1/25 NORTH Manado Local Local Sold 5.000 5.000 CS/1/25 6.480 CS/1/25 NORTH Magrek Regional Local Local 1.0180 6.210 MC/1/25 10.000 2.284 1/255 1 MALUKU Temate Regional Tertiary 10.000 2.284 1/255 1 1/255 1<		TO A WEST	101-101	Perional					625	750		300	
NORTH Dituits Documents Constant 6.480 6.490 6.40 <t< td=""><td></td><td>TOT M POT</td><td>Dituan</td><td>Secondary</td><td></td><td></td><td></td><td></td><td>36.000</td><td>5.000</td><td>CS/1/</td><td>2.750</td><td></td></t<>		TOT M POT	Dituan	Secondary					36.000	5.000	CS/1/	2.750	
NULAWESI Gorontalo Local	50	HLACN	Manado							6.480			
Anggreik Regional Regional Regional MC/1/25 Anbon Tertiary 0.000 0.100 6.210 MC/1/25 MALUKU Tertiary 10.180 6.210 MC/1/25 10.000 MALUKU Tertiary 10.000 2.284 10.000 2.284 MALUKU Tertiary 10.000 4.700 0.000 4.700 Biak Tertiary 10.000 4.700 3.020 MC/1/25 JAYA Fak-Fak Regional 11.700 3.020 MC/1/25 JAYA Manokwari Regional 11.200 6.00 MC/1/25 Manokwari Regional 1.200 6.00 MC/1/25 MC/1/25		IN AWFSI	Gorontalo	I ocal					2.800	1.560		2.000	
Ambon Teritary Teritary Mc/1/25 MALUKU Temate Regional Mc/1/25 MALUKU Temate Regional Mc/1/25 Sorong Teritary 1.000 2.284 Sorong Teritary 1.000 2.284 Biak Teritary 1.000 4.700 Jayapura Teritary 11.700 3.020 JAYA Manokwari Regional 11.200 600 Manokwari Regional 2.450 640			Angerek	Regional									
MALUKU Temate Regional Ende Regional 1,000 2,284 Ende Ende <thende< th=""> <thende< th=""> <thende< th=""></thende<></thende<></thende<>	24		Ambon	Tertiary					10.180	6.210	MC / 1/	103	
Sorong Tertiary Tertiary <		MALUKU	Ternate	Regional					000'1	2,284		650	
Biak Tertiary Entiary 10,000 4.700 4.700 4.700 7.700 6.100 7.700 6.100 7.700 6.100 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700 6.40 7.700	-		Sorong	Tertiary					7.000	1,950		1,226	н .
IRIAN Jayapura Tertiary Manokwari Regional 6,100 3,020 MC/1/25 JAYA Fak Regional 6,100 600 600 600 MC/1/25 Manokwari Regional 2,150 640 640 640		•	Biak	Tertiary					10,000	4,700		400	
JAYA Fak Regional 1.200 600 600 Manokwari Regional 6.100 600 Merauke Regional 2.450 640	25	TRIAN	Javapura	Tertiary					11.700	3.020	MC/ 1/	1.200	
Manokwari Regional 6.100 600 640 Merauke Regional 6.40		IAYA	Fak-Fak	Regional					1.200	600		390	
Regional 2.450 640			Manokwari	Regional					6,100	600		2.000	
			Merauke	Regional					2,450	640		240	

Table C.9.1.7(2)-2 Existing Port Facilities In Main port

	Remarks																																							Inc.Tg.Wangi					
	Typical Soil condition		seardy clav	saury cray				Code coil	DOIL SUL			ailer coil	SHLY SUL											silty soil		silty soil	sity soil			candu cnil	tine fairne		silty soil		soft soil	soft soil	2.250 snady soil	75 soft soil							coral Island
Main port	Present Condition of Port and Hinterland Access Road Access Port Service Parking Area	Facilities (m2)																																			2.2	12.875							
Facilities In	Present Condition of P Access Road Access	-7-		L 1,500 W 6		+			L 2,500 W 8				L 2,400 W12	L 1,000 W 5	W 5		-																Caroo	28-2	1 1 500 W 8		1.3.500 W12	W10-15 P.& C	1	L2,000 W 10			L 4.100 W 7	L 2.500 W12	
Table C.9.1.7(3)-1 Existing Port Facilities In Main port	Raod in Port Area Acce	Length(m)/width(m) Length(m)/ /Area(m2)//	T		L300 W5.5 A1.650		L1.500 W6 A9.000		10,643/61,620 L9,722W7.5A72.918 L 2.5		L 650 W6 A3,900	-	- †	ب	L1,070 W5 A5.350 L			L360 W5 A1.800	L100 W6 A 600			L671 W5.5 A3.695													, I 1 8 /M	>	8 M	W5-12-5A122000		[T2'0			1.2.290 W8 A18.320 L 4.	1	1-
C.9.1.7(3)-	Pon Area Sea /	Land (Ha) (Ha)		S		232 / 0.45	4.	15/2.1	10,643/61,620 L9		2					17.625/0.72		2.642/9.4 L2		6.200/1.000	23,031/6.12			6,470 / 12.4			1,120/22,409			_		4	/50.8	C/C/ 177	1 02000011		- T-	1.011/202.11	2111200	971/112	211/1/2	2.47.3.1	T		Τ
Table	Port	Classification		Tertiary	Regional		Regional		Secondary	Regional		Regional	Tertiary	Tertiary	Tertiary								Primary	Tertiary		Regional	Tertiary		Regional	Regional	Secondary	Secondary		Secondary	I CI, NCK	Secondary	INCENTIAL	l eruary Secondary	DCCUINED	Demonal	INCENTIAL	Domonol	regional	Tertiary	1 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
·		Location	Sabang	Lhok Seumawe	Malahayati	Meulaboh	Kuala Langasa	Pangkalan Susu	Belawan	Kuala Tanjung	Tg.Balai Asahan	Sibolga	Dumai	Tg.Pinang	Pekanbaru	Bagan Siapiapi	Bengakalis	Selat Paniang	Tembilahan	Kuala Enok	To Raiai Karimun	Rengat	Batam	Datatu Tehnk Raver	Air Rangie	Jambi	Palemhano	Mintok	Pangkal Balam	Bengkulu	Panjang	Banten(Ciawnda)		****	Cirebon	Tg.Emas	l cyai	Cilacap	l g.Perak	Probolinggo	Mencing	kalı Anget	Pasuruan	Gresik	Celukan Rawang
		Province			ACEH []		<u>.</u>		NORTH []		SUMATRA						RIAU							WFST		IANRI			SIIMATRA		1	1	WEST JAWA &	DKIJAKARTA		CENTRAL		JAVA	-	EAST		AVA			BAT I
. •		No.			, ,	1)				2	(1)	+					¢,	, E	(+)				•	*	; ; ;					(Π)	8 (II)		6	(II)		21	(m)				-				

		Роп			Present Cor	Present Condition of Port and Hinterland	ort and Hinto	erland		
No. Province	Location	Classification	Port Area Sea / Land (Ha) (Ha)	Raod in Port Area Length(m)/Width(m) /Area(m2)	Access Road Length/Width (m) (m)	Access RailWays Passe/Cargo	Port Service Facilities	Parking Area (m2)	Typical Soil condition	Remarks
3 WEST	Lembar	Regional	481/156.5	L1.275 W7 A8.925						
(国) NUSA	Badas	Local	758 /46.5	L 825 W6 A4,950						
TUNGGARA	Bima	Regional	4.529/37.6	L275 W12 A3,300						
	Tenau/Kupang	Tertiary	32/42.7	L1,300W10A13.000	L3,000 W 5		-		coral reef	
EAST	Waingapu		3.000/ 8.3	L600 W6 A3,600					coral reef	
	Ende	Regional	483 / 7.2	L1,150 W6 A6.900					sundy soil	
(回) TUNGGARA	Maumere	Regional	34.5/ 4.3	L500 W6 A3,000					coral reef	
	kalabahi		2.925/ 2.1	L1.040 W6 A6.240					sundy soil	
15(II) EAST TIMOR	Dilli	Regional	20 / 5.8	L1,400 W6 A8,400					sundy soil	
	Singkawang									
	Pontianak	Tertiary	1.0438/17.32		L 800 W 8				soft soil/silty	
(II) WEST	Ketapang									
KALIMANTAN										
	Telok Air									
-	Sambas -									
17 CENTRAL	Kuala Kapus		1.067/ 56.1	L525 W6 A3,150						
· ·	Kumai	Local	5,786/ 6.0	L175 W6 A1.050						
KALIMANTAN Sampit	Sampit	Ter.Reg	93,687/5.6	L760 W6 A4.560						
18 SOUTH	Baniarmasin	1	115.000/95	L4.205W10A42.046	L 700 W 8					
	Batu Licin		237.217 /190	L475 W6 A2.850						
KALIMANTAN Kotabaru	Kotabaru	ļ	1	L500 W6 A3,000						
	Balikpapan	Tertiary			L 1.500 W 8				sandy soil	
19 EAST	Samarinda	Tertiary	11,032/4.4							
KALIMANTAN		Local								
	Tarakan	Regional	17,220/4.38							
SOUTH	Makassar	Secondary			L W 8				sandy soil	
	Pare-Pare	Regional								
21(IV) SOUTHEAST SULAWES Kendari	s Kendari	Ter,Reg	7,201 /22.1							
CENTRAL	Pantoloan	Regional	1.11/ 0.186			_				
	Toli-Toli	Local	16,950/1.85							
(IV) SULAWESI	Luwuk	Regional						1,750		
	Bitung	Secondary	3.217/38.8						sandy soil	
23 NORTH	Manado									
S O	Gorontalo	Local	1,754/ 4.0							
-	Anggrek	Regional								
24	Ambon	Tertiary	239.040/14.9						silt	
(IV) MALUKU	Ternate	Regional								
	Sorong	Tertiary	207.570/20.3						mudy soil	
	Biak	Tertiary	12,900/12.7							
IRIAN	Jayapura	Tertiary	688/4.7							
(IV) JAYA	Fak-Fak	Regional								
	Manokwari	Regional								

Table C.9.1.8 Number of Special Port and Main Activities

			Special Port	:	Special Wharf					Special Port		Special Wharf		
No.	Province	Number	Main	Number		Total	No.	Province	Number	Main Activity	Number			Total
	+		6E	-	poom			NUSA		I		Tourism	4.	ç
	ACEH	14	Cement I	=	Fuel oil 4	25	14	TUNGGARA BARAT	14	Fuel oil 2	4 2 0	Luci oli	 -1	۲ď
	SUMATRA		2		oil			NUSA		7		Fuel oil	ເດ	 ,
8		34	Other wood 4	19	po +	ŝ	12	TUNGGARA	10	Ferry	ວ ກຕ	rısn Ferrv	20	AT .
	UTAKA		1 hars	-	Plwood 10			TIMOR				Fuel oil		
¢7	RTAIL	22	Fuel oil 12	57	oil	115	16				H 			2
> 		}	Other wood 10		wood		_	TIMIR						T
<u> </u>			Other wood 3		Cement I			KAL IMANTAN		Other wood 29			21	((
4	SUMATRA	دى 		4	Fuel oil	t~	17	TADAT	86	PIywood &	011 - R	fuel oil	ר מכ	06T
	BARAT				,		-	DARAI			+	Other wood	 	T
			2		General cargo 3	0.7	9	WALL MAIN FAIN	0	Uther wood II	1 03	Transmianation	י קיני ר	11
	SUMATRA SEI ATAN	57	Granite sand 15 Fuel vil 4	7.T	Ruber 11 2	80	01	TENGAH	2 7	110				
	10TVTVTTC	-	Firel oil		Other wood 2			KALIMANTAN		r wood		Other wood	32	•• •••
<u>.</u>	UNITARIA I I	-		4	oil	ю -	19		ক		1 90	Plywood .	20	94
D 			- - -		Coal11 1			SELATAN		-		Coal	8	
				 	Fuel oil 1			KALIMANTAN					28	
2	BENGKULU	0		07	Fish	. 2	20		15		4 123	Other	26	138
		·						YUMT I		برا.			10	
			Other wood 4		Other wood 9			SULAWESI	ć	-1		Fuel oil	n r	ç
ø	JAMBI	ক'		41	Lio.	4 4	21	UTARA	56	Coconut Tourism	4' 	r 1sn		20 20
				-	TTO 3D		1-	SIT AWPST		Other wood 11		Mining	œ	
6	D. K. J. JAKARTA	14	Fish 3	Б	tourism 2	23	22	TFNGAH	33	4	0 	Fuel oil)	42
	TAWA				181		- 	SULAWESI				Fuel oil	2	
10		4	1	31	Fuel oil 5	35	23		ເດ	Nickel	5			2
	BARAT		Bentonit l					SELATAN					•	T
	JAWA		-		oil 1			SULAWESI	ינ	il .			- در	c
=	TTENSO ATT	26	Tourism 3	31	Cement 3 Fortirizer 2		24	TENGGARA	C C	NICKel Asphalt	*	rio tana	-1	 D
	TAWA		Fish 9		tory 1		†				6	Fish	ę	
12		17	Fuel oil 5	18	DS DS	35	25	MALUKU	17	poc	ي م	Plywood	~~~~~	25
	TIMUR				011		T			1.1		Fuel oil		T
		ç	Genaral 4	c	Fish b	ă F	30	TRTAN TAVA	17	Other wood	2	Fish	- 4	32
21 .	BALL		Fish 1		10 60	2			-				14	;
Nor	Not e : Data in March 1993	March 1	993								1			
Sot	Source : DGSC						Gra	Grand Total	492		127			1, 213
								1			-]

Rp.)	Irian Jaya	16,000	90,000	60,000		3,200	2,250	270,000	5, 000, 000	50,000	1.500	Irian Jaya	15,000	6.000	16,000		9,000	Irian Jaya	900,000	450,000	1, 275, 000	19,000	50,000	Irian Jaya	105,933	358, 950	41,045	5, 852	3, 187, 500	159, 195	125,000	•	C/8.12	
(Unit:Rp	Sulawesi Tengah	13, 500	36,000	9,500		2,100		247, 500	4, 750, 000	12,500	600	Sulawesi Tengah	7,000		8,000	14,000	7.000	Sulawesi Tengah	825,000	412,500	536,000	11.875	31,250	Sulawesi Tengah	71,536	237.630		က်	2,517,000	141,800	114, 580	ic) c	20,050	
	Sulawesi Selatan	11,000	36,000	27,000			2, 750	225,000	4, 750, 000	25,000	600	Sulawesi Selatan	16,000	5,000	8,000	14,000	8.000	Sulawesi Selatan	750,000	375,000	1,062.500	11, 875	31,250	Sulawesi Selatan	84,850	222, 130		က်	2,400,000	135, 600	104,	-	18.230	
	Timor Timur	15,000	36,000	24,000	1,200	3, 500		405,540	5, 000, 000	27,000	600	Timor Timur	15,000	6,000	8,000	14.000	11.250	Timor	900,000	450,000	1,275,000	11, 875	31, 250	Timor Timur		`]	39,135	5, 180	2,947,190	91,685	125, 000	2, 708, 630	21.8/2	
cion Cost	Kalimantan Tengah	15.500 {	36,000	18,500 [1.200	2,100	1,875	225,000	4, 750, 000	60,000	600	Kalimantan Tengah	9,000	7,500	8,000]	14,000	4.500	Kalimantan Tengah	750,000	375,000	1.062.500		31.250	Kalimantan Tengah	84,173	286.955	32,217		2,481,650	135, 570	104,	2, 223, 680	18, 230 1	
Construction	NTB	12,500	36,000	17,000	1,200	2.100	2.062	247, 500	4, 750, 000	24.750	600	NTB	17,000	4,000	8,000	14,000 [7.500	NTB	825.000	412.500	1.168.000		31, 250	NTB	90, 858		34,686	ŝ	2,569,710	141,810	114, 580	2, 293, 320	ZU. 000	
Price and (Jawa Tengah	10,500	36,000	40,000	1,200	2,500	1,500	210,000	4, 500, 000	18,000	600	Jawa Tengah	13,000	6,000	8,000	14,000	7, 500	Jawa Tengah	600,000	300,000	850.000	11.875	31.250	Jawa Tengah	71.366	230, 630	33, 720		2, 381, 360	123, 220		2,160,230	14, 580	
Material Pr	Jawa Barat	10,500	36,000	40,000	1,200	1,500	1,500	180,000	4, 500, 000	18,000	600	Jawa Barat	17,500	10,000	8, 000	14,000	7, 500	Jawa Barat	600,000	300,000	850,000	11,875	31, 250	Jawa Barat	69, 750	256, 655	30, 955	3.230	2, 075, 800	86, 750	83, 330	1,891,140	14, 580	
	DKI Jakarta	10,500	45,000	40,000	1,500	1,500	1.500	210,000	4, 500, 000	18,000	750		17,500	10,000	10,000	17.500	10,000	DKI Takarta	600.000		850,000	9,500	25,000	DKI Jakarta	71, 350	264, 725	31,100		45	<u>1</u> 2	30		S	
Table C.9.2.1	Sumatra Utara	10.500	36,000	17.000	1.200	1,687	1,687	210,000	4, 500, 000	20.250	600	Sumatra Utara	10.000	8, 500	8,000	14,000	8, 500	Sumatra Iltara	675.000	337,500	956, 250	11.875	31,250	Sumatra Utara	80.775	231.225	31.530	3, 663		129,429			16.406	•
	Unit	back	m3	Em.	m3	Ke	Kg	8	Unit	в3 13	Kg	Unit	Dav	Day	Dav	Dav	Dav	Unit	Dav	Dav	Dav	Hour	Hour	Unit	a	m3	m2	Kg			د		unt	
	Material Cost	Cement	Course aggregate	Fine aggregate	Water	Re-bar	Shaped Steel	Concrete pile \$500	Rubbe fender V250H_1 51	Stone	Asphlt	Labour cost	Foreman	Common worker	Bar bender	Operater	Assistante operater	Hiring charge of	Crawler crane	Diesel hammer	Piling pontoon	Dump truck	Buldozer	Construction cost	Pile driving	Concrete(K300)	Concrete form	Reinforce bar	Quay construction	Preparation	Mobilization	Construction	0thers	Source : DGSC

Appendix C.10 PORT ADMINISTRATION, MANAGEMENT AND OPERATION

C.10.1 "No. KM 41/1997 Organization and Working Procedure of DGSC"

Main tasks and functions of DGSC are as follows ;

(1) Tasks

: to carry out a part of the main tasks of MOC in the sea transport sector in accordance with the policies determined by the Minister of Communications and based on related laws and regulations.

(2) Functions

: to formulate technical policies, provide guidance and standards for sea transportation and port activities, issue permits for ships and seamen and execute navigation aids, coast-guard and rescue, which are determined by MOC.

DGSC comprises of :

Secretariat of the Directorate General

Directorate of Sea Transport

Directorate of Port and Dredging

Directorate of Marine Safety

Directorate of Navigation

Directorate of Coast-guard

1) Secretariat of the Directorate General is responsible for providing technical and administrative services to all Directorates within DGSC.

2) Directorate of Sea Transport carries functions of;

a. preparing the formulation of technical policies in the sector of domestic, international and special sea transport, and sea transport supports

b. fostering the domestic, international and special sea transport, and sea transport supports

c. coordinating and fostering national fleet development

d. coordinating and servicing domestic, international and special sea port, and sea transport supports

3) Directorate of Port and Dredging carries functions of;

a. preparing the formulation of technical policies in port and dredging works

b. coordinating and guiding port development

c. coordinating and guiding the program of technical designs of ports

d. coordinating and guiding the dredging and reclamation

e. coordination and guiding the pilotage and ship mooring

f. coordinating and guiding the activities of operation services of ports

4) Directorate of Marine Safety carries functions of ;

a. preparing the formation of technical policies in the field of ship worthiness, ship measurement, ship registration and nationality, nautical technology, radio, pollution prevention and management of marine safety and seamanship

b. coordinating and establishing ship worthiness, ship measurement, ship registration and nationality, nautical technology, radio, pollution prevention and management of marine safety and seamanship

c. coordinating and providing services of ship worthiness, ship measurement, ship registration and nationality, nautical technology, radio, pollution prevention and management of marine safety and seamanship

5) Directorate of Navigation carries functions of;

a. preparing the formation of technical policies of navigation aids, signal installation, maritime telecommunication, sea watching, own ships and bases

b. fostering navigation aids, signals, maritime telecommunication, own ships and facilities of bases

c. coordinating and developing facilities of navigation

d. providing services and information of navigation aids, signals and maritime telecommunication

6) Directorate of Coast-guard carries functions of ;

a. preparing the formation of technical policies on the security, patrol and disaster, order and disciplines at waters and port, salvage and underwater works, preparation of facilities and equipment of coast-guard and life saving

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b. fostering the security, patrol and response to the pollution and disaster, order and disciplines at waters and port, salvage and underwater works, preparation of facilities and equipment of coast-guard and life saving

c. coordinating the security, patrol and response to disaster, order and disciplines at waters and port, salvage and underwater works, preparation of facilities of coast-guard and life saving.

C.10.2 "No. KM 89 / 1993 The Permanent Method of Implementing the Working Relationship of the Regional Office of Communications (KANWIL)", "No. KM 55 / 1995 Organization and working System of Regional Office of MOC", "No. KM 13 / 1996

Perfecting of No. KM 60 / 1993 "

(1) The Regional Office of MOC (KANWIL) is installed at each capital of province, just same other Regional Offices of Ministries and to the KANWIL, ADPELs, KAMPELs and other MOC Branch Offices are subjected.

(2) The main duty of KANWIL is to execute MOC policies of Planning Bureau, Directorates of Land, Sea and Air Communications in each provincial area as the vertical organization of MOC.

(3) For example, Type A KANWIL is organized as follows as ;

a. Administration Division

b. Plan and Program Division

c. Land Communication Division

d. Sea Communication Division

e. Air Communication Division

(4) Within Plan and Program Division, Plan Preparation Section is there. Its duties are : to arrange long and middle term development plans, to collect and process all communications data and other related information in the region.

(5) Sea Communication Division is divided into;

a. Sea Transportation Section

b. Port Affairs Section

c. Ships/Vessels and Sea Affairs Section

d. Coast-guard/Security and Safety Section

(6) Duties of Sea Transportation Section are to prepare, control and guide the implementation of local shipping, special shipping, traditional shipping, pioneer shipping, loading/unloading, sea expedition, sea transportation service/support, shipping route implementation, tariff and loading/unloading workers.

(7) Duties of Port Affairs Section are to prepare, control and guide commercial activities, port management implementation and to give guidance towards development and maintenance of port facilities, depth of basin/channel.

C.10.3 "No. KM 35 / 1993 Organization and Working Order of Port Administration Office(KANPEL)"

1) Duties

KANPEL is positioned under and responsible to the Head of KANWIL .

KANPEL has duties to execute port activity services, to control and maintain the port basin/channel, sea transportation, harbor-master affairs, security of port and ship berthing as well as maritime service activities in the port.

2) Functions

a. composing the operational working plan of such as port activity services, harbor-master affairs, controlling and maintaining the port basin/channel and sea transportation traffic.

b. executing port services and port technical activities as well as controlling smoothness of sea traffic.

c. executing activities of ship berthing, safety, measurement and registration of ships as well as maritime service activities.

d. executing activities of security and orderliness in the port working area as well as Search and Rescue(SAR).

e. implementing fire-fighting and preserving from pollution in the port working area.

f. coordinating all other government agencies, working units and state-owned enterprises in the port working area.

C.10.4 "Corporate Profile - Indonesia Port Corporation II"

(1) Historical Background of IPC

In 1960, the management of public ports in Indonesia has been undertaken by PN (Public Corporation) Pelabuhan I to IX under the control of the Government.

The legal status of PN Pelabuhan has been subjected to change in conformity with the Government policies in the effort to support the national development and to keep pace with the dynamic growth of port service demands.

The changes can be described in the following chronologies;

1960 - 1969

The management of public ports was conducted by the Public Corporation as stipulated in Act No. 19 PRP / 1960. PN Pelabuhan's also function as the port authority.

1969 - 1983

In this period, the management of ports was carried out by the Port Management Body based on Government Regulations No.1 of 1983.

1983 - 1991

The management of public ports was differentiated into those which were commercially managed (commercial ports) and those non-commercially managed (non-commercial ports).

Commercial ports were managed by Perum Pelabuhan, which are state-owned companies. The management of non-commercial ports was done by operational units under the control of DGSC as stipulated in the Government Regulation No.11 of 1983.

PERUM Pelabuhan II (Public Port Corporation II) established by the Government Regulation No.15 of 1983 was one of four Public Port Companies to manage commercial ports.

1991 - Present

The change of the legal status of PERUM Pelabuhan II into PERSERO Pelabuhan Indonesia II (IPC-II, Indonesia Port Corporation-II) was in conformity with the Government Regulation No.57 dated October 19, 1991 and confirmed by Deed Notary No.3 dated December 1, 1992.

The transformation from PERUM Pelabuhan Indonesia into IPC-II has shown the Government trust on the basis of the successes made so far by the Port Company in managing commercial ports.

C.10.5 "Corporate Profile 1997 - IPC-II", "Decree of IPC-II with regards to Organization (HK. 56/2/15/PI.II-94)"

1) Board of Commissioners

: Chairman (Director General of DGSC) and 4 members

2) Board of Directors

: Managing Director and 4 Directors

3) Other Units of Organization

: 3 Bureaus and Internal Auditor

: Port Branches, Container Terminal, Port Hospital and Education & Training Center

4) Purpose and Business of IPC-II

Purpose of IPC-II is ;

: to execute and support the Government programs and policies in the field of economic development.

: to guarantee the corporation's growth by operating port service business

To achieve above mentioned purpose, IPC-II has to operate businesses in the field of, as follows;

: port basin and waters for ship traffic

: pilotage and tugboat

: quay and other mooring facilities for loading/unloading

: transit-shed, loading/unloading facilities and equipment

: land for providing buildings, yards and others

: providing electricity, freshwater and waste disposal

: port terminal service

: consultant service, education training

C.10.6 "No. 21 / 1992 Shipping Law"

"Shipping Law", among others, is the fundamental law which supports the port administration and management/operation in Indonesia issued in September 1992. This is made up of essential articles and provisions so that supplemental regulations and decrees are necessary for the actual implementation of port administration and management/operation affairs. The important articles related to port affairs are in "Chapter VI Port Affairs" as follows; (Paragraph 21) Definition of port affairs that cover all port management activities

(Paragraph 22) Classification of ports * public ports, special ports

(Paragraph 23) Determination of port location *land area, waters

(Paragraph 24) Determination of port working area, port concerned area and of that rights at public port

(Paragraph 25) Execution of development and operation at public port

(Paragraph 26) Port operation bodies at public port * by the Government and IPC

(Paragraph 27) Port supporting activities bodies at public port * by Indonesian corporate bodies/Indonesian citizens

(Paragraph 28) Determination of land area functioning as a public port

(Paragraph 29) Construction, operation of special port and of that permission

(Paragraph 30) Prohibition of special port used as a public port

(Paragraph 31) Determination of the port opened to international trade

(Paragraph 32) Determination of port tariff

(Paragraph 33) Compensation for damages of port facilities and equipment by users (Paragraph 34) Responsibility of port operator to users

C.10.7 "PR No. 70 / 1996 Port Affairs"

This Government Regulation is to supplement above introduced "Shipping Law" for its actual implementation of port affairs, and is the newest one. But for more detailed implementation procedures, it shall be necessary to prepare another Minister of Communications Decrees and others. Here only special articles are introduced briefly;

(Paragraph 3) National port structure compilation with regional land use, economic growth, environmental conservation and ship safety

(Paragraph 8) The port working area and port concerned area determination by the Minister (Paragraph 9 and 10) Definition manners for the port working area and port concerned area (Paragraph 15) The permission for construction by the Minister or appointed official

(Paragraph 17) The Minister's determination of the port master plan for the development and operation of public and special ports

(Paragraph 20 and 21) The development and operation of special port with the permission given by the Minister

(Paragraph 25, 26 and 27) Definition of port management/operation activities by each organization at public port

(Paragraph 28, 29 and 30) Definition of port services by each organization at public port (Paragraph 39,40 and 41) Determination of port tariffs (Paragraph 42 - 49) Management/operation and development manners of special port (Paragraph 50,51 and 52) Determination of internationally opened port (Paragraph 53 and 54) Waste reception facilities at port

C.10.8 "Draft KM Procedure of Port Master Plan Arrangement"

In Paragraph 17 of "PR 70 /1996 Port Affairs", it is stipulated that the Minister of Communications determines the port master plan after obtaining opinions from the local government and other relevant authorities, and also prepares the standards of port facilities etc. To cope with this stipulation, DGSC is now preparing "Draft KM Procedure of Port Master Plan Arrangement". The outlines shall be as follows;

(Paragraph 2 and 3) Purpose of port master plan arrangement (Paragraph 4 - 7) Scope of port master plan arrangement

- * Public port master plan prepared by IPC, Technical Planning Unit(UPT)
- * Port master plan divided to Zoning Plan, Detailed Facilities Plan, Detailed Engineering Plan
- * Long term port master plan with consideration of port development within 25 years Medium term port master plan within 10 - 15 years
 - Short term port master plan within 5 -10 years

(Paragraph 8 - 11) Status, responsibility and authorization of port master plan arrangement

- * Port master plan referred to Spatial Use Plan(RTRWN), National Transportation System, National Port Structure etc.
- * Port master plan used as reference for Port Working Area and Port Concerned Area
- * Port master plan arrangement method prepared by DGSC

(Paragraph 12 - 17) Procedure of port master plan arrangement

- * Parameters just like transportation development projection, technique, economical and financial feasibility and environmental impact
- * Public port master plan legalized by the Minister and/or Directorate General
- * Port master plan consisted of a) master plan, b) summary of master plan, c) drawing of port activity area, d) relevant attachments

C.10.9 "Draft KM National Port Affairs Arrangement"

In order to supplement "No. 21 / 1992 Shipping Law" for its actual implementation, "PR No. 70 / 1996 Port Affairs" was issued. And for more detailed implementation procedures to be made clear, this "Draft KM National Port Affairs Arrangement" is now preparing in the fields of port planning, port use and port control affairs, by DGSC. The outlines shall be as follows;

(Paragraph 1) Establishing national port affairs arrangement is of port planning, port use and port control affairs.

(Paragraph 2 and 3) Principles : Establishing national port affairs arrangement has to integrate efficiency, productivity and balance with facilities and other transportation infrastructures nationwide.

: Implementation of port use affairs has to be appropriate with the purpose of national sea transportation system and national transportation system.

(Paragraph 4 and 5) The right and obligation :Every one has right to receive benefit from port affairs and also has obligation to obey the national port affairs arrangement.

(Paragraph 7) Planning of port affairs : Plan of national port affairs arrangement is determined for next 25 years.

(Paragraph 8) Port use affairs : Port use affairs are implemented based on national port affairs arrangement established.

(Paragraph 9) Control of port use : Port use control affairs are implemented through supervision and control activities.

(Paragraph 10) Plan of national port affairs arrangement : Plan of port affairs arrangement is divided in three.

: Plan of national port affairs arrangement is determined by the Minister, planning term is 25 years.

: Plans of regional and local port affairs arrangement are determined by Directorate General, planning terms are 15 years and 10 years for each.

C.10.10 "No. IM-7/AL-3011/PHB-1995 The Realization of One Roof Service Center for Ship and Loading/Unloading Services in Tg. Priok Port"

(1) The try-out of One Roof Service Center for ships and loading/unloading in Tg. Priok Port was implemented by No. IM 4/AL 3014/PHB-1995. Then, by No. IM-7/AL-3011/PHB 1995, the try-out period was extended until the completion of the hardware and software structures. The outline of the latter is as follows ;

(I General) PPSA(One Roof Service Center) is the job of Tg. Priok Branch Office of IPC-II, which has duty to unite and decide wharf using plan for ship berthing, open storage yard/warehouse involving shipping companies/agents and loading/unloading companies(PBM), and not involving government offices.

(II Duty, Function, Authority and Responsibility) Duty, function, authority and responsibility of government office, Tg. Priok branch office, PBM and/or Terminal Operator

Loading/Unloading Company(PBM/TO), shipping company/agent and forwarder/transportation company/goods owner are introduced one-by-one.

(III Service Regulations) Ship services and loading/unloading services procedure is introduced for each case of conventional wharf and container terminal.

(2) The outline under this try-out is as follows;

1) At least 24 hours before the ship berthing, the shipping company/agent inform PPKB(demand of the ship service) to Tg. Priok Branch Office through PPSA.That information is conveyed to ADPEL and related Government Offices immediately.

2) Based on PPKB, PPSA plans and determines allocation of berth, transit-shed/open storage yard, and then inform ADPEL and related Government Offices.

3) PBM, after being appointed by cargo-owner/shipping company/agent, can start loading/unloading activities based on the productivity target.

4) In order to accelerate loading/un-loading activities, Tg. Priok Branch Office appoints the Operation Supervisor(SO) for supervising, directing and improving loading/un-loading activities.

5) In case of conventional wharf, cargoes for loading/un-loading in general must be kept in transit-shed/open storage yard for accelerating productivity (direct loading/un-loading from/to truck is limited for special cargoes).

C.10.11 "The Study on Integrated Modernization Plan for Sea Transportation in Eastern Indonesia (3. 1994 JICA)"

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General

7. Insufficient infrastructures hinder to the development in the East. Among various infrastructures, maritime transportation is one of the most important elements for the area.

8. The Government of Indonesia is aware of this fact and since the beginning of REPLITA V, budget allocation has been shifted to Eastern Indonesia.

9. In fact, DGSC shifted the weight of budget allocation for the port facilities from Central and Western Indonesia to Eastern Indonesia in recent years.

10. Restructuring of sea communication system in 1988 resulted in general improvement and modernization to the sector. Deregulation of shipping industry as a whole in Indonesia has stimulated private sectors and generally accelerated competition in the service.

14. Modernization in shipping has promoted use of containers. Containerization is rapidly increasing in international trade. Some local general cargoes have also started to become containerized.

15. Ferry services as an extension of the road network are increasing as part of the growth of connecting highway network. Long distance ferry or roll-on roll-off service will supplement some inter-island cargo movement.

16. The new open port policy in stead of the four gateway ports system together with new custom clearance system has increased the number of ports for foreign trade.

Problems of Sea Transportation and Modernization

20. Continuity with the previous classification of shipping lines and categories has been lost. Many private shipping companies no longer provide precise operation data for statistical purposes. DGSC has no means to enforce statistic compilation because most lines are no longer subject to licensing for shipping routes.

21. While the government tries to promote Eastern Indonesia by shifting weight of budget allocation from the West, the total budget for the transport sector was reduced in the new five years plan. This is due to introduction of the PERSERO system in the port management of the major ports and due to deregulation of shipping business which are expected to contribute sufficient revenue by expansion of activities.

22. Investment by private sectors for ports and shipping business and revenue to PERSERO, however, are not yet effectively increasing in Eastern Indonesia. This is because the area still lacks sufficient infrastructures. PERSERO is not able to furnish the needs of facilities by its own resources and most other private sectors have not yet reached the stage where they enjoy profits from the vast and undeveloped areas of Eastern Indonesia.

27. Even though containers, both international and domestic, have been gradually introduced in Eastern Indonesia in recent years, reception facilities are inadequate at most of ports. Most of the quay structures are not strong enough to receive heavy weight cargo and suitable mechanical equipment is not available.

28. According to present practice of DGSC budget allocation, construction budget for berth extension will not be made available until berth occupancy rate exceeds 70% in the port. Cargo handling equipment will not be acquired unless sufficient revenue from the equipment is expected.

29. This budget allocation principle is quite understandable under present tight budget circumstance. However, quite frequently, potential traders and investors lose interest in conducting business because of the poor facilities at the ports.

30. Jurisdiction of ferry terminal belongs to DGLT. This arrangement has, occasionally, caused insufficient planning coordination on terminal location. Traffic handled by ferry is not consistently recorded in the shipping statistics.

31. Aids to navigation are far from sufficient in Eastern Indonesia where the number of islands and reefs are greater than in the Western area. Number of supporting vessels for aids to navigation are also insufficient in the area.

32. Search and rescue facilities are also inadequate in the area. Besides insufficient number and size of search and rescue vessels, communication facilities for this purpose also need reinforcement.

33. Statistics relating to the marine transportation have long been neglected. Statistics for cargo and passengers, for example, are incomplete or inconsistent. Many other data and information also require improvement in compilation or reporting system. Establishment or upgrading o data base for registered ships, marine accidents, seafarers etc., are urgently needed as essential tools for effective execution of DGSC mission.

Master Plan

56. Improvement and expansion of port facilities in the project area is very important for efficient shipping operation. At the same time efficient ports will promote industrial development in the vicinity of the ports. Although most resource oriented industries will be located in adjacent areas of special ports, industrialization also affects activities of neighboring public ports.

57. Public ports in Eastern Indonesia are divided into two categories, namely over middle class port and small ports. The over middle class ports should strengthen functions as intraregional distribution centers. At the same time some of the major commercial ports should carry gateway functions to regions in the domestic sea transportation as well as in international trade.

58. The small ports, on the other hand, are required to achieve equal distribution of development benefits. To secure connections between remote islands and the main island, necessary port facilities shall be provided at least on the inhabited islands in such a way that vessels of the requisite scale can safely enter and leave. Priority of small port development should be given to the Perintis ship calling ports.

59. Introduction of modernized marine transport technology including containerization and Ro-Ro systems will contribute to improvement of overall transportation efficiency but requre capital investment at the ports.

Recommendation

63. Regarding port sub-sector development program, the following is recommended;

(a) In order to stimulate economic development in Eastern Indonesia, ports should be regarded as a basic social infrastructure, and be improved so as to help lower the marine transportation cost.

(b) Feasibility studies should be carried out for the over middle class ports prior to the implementation of the projects in order to take into consideration the local condition in detail.(c) Development priority of the small class ports should be given to the Perintis ship calling ports, and the basic port facilities should be provided at least on the inhabited islands or remote islands.

(d) The latest information about the noncommercial ports should be compiled into a data base.(e) To achieve the economic development and public welfare in Eastern Indonesia, national budget for port development should be significantly expanded.

64. In order to upgrade maritime safety, following measures are recommended.

(a) Training must be implemented to provide the ATN personnel with not only fundamental expertise knowledge on maritime safety but also the maintenance and repair policy.

(b) From a short-term viewpoint, a Maritime Training Center (MSTC) is proposed in order to train both newly recruited and active personnel swiftly.

C.10.12 "The Study on the Master Plan of Container Cargo Handling Port, Dry Port and Connection Railways in the Republic of INDONESIA (7. 1995 JICA)

*Page 76 of Final Report Vol.1 Summary

125. The master plan should be reviewed and revised periodically taking the changes in the socio-economic conditions in Indonesia and worldwide into consideration.

126. Based on the results of the master plan study, feasibility studies for short-term development plan should be urgently implemented on the following ports ;

i) Tg. Priok including Bojonegara

ii) Tg. Emas

127. The government is planning an implementing several port development projects. These projects should be closely coordinated with the development of related facilities such as highways, railways and urban utilities, in order to achieve effective and efficient port operation.

128. Taking into consideration the public role of ports as a main pillar of socioeconomic development, the privatization into a port development field should be carefully introduced to ensure stable, continuous port operations.

130. The establishment of comprehensive database for all national port activities including container traffic is urgently needed as an essential tool for the effective supervision, planning and operation of ports by all the parties and organizations concerned.

C.10.13 "Technical Assistance Services for a Ports Development Strategy Study for the Southern Sumatra and West Java Region (7. 1996 WB)"

* Page ES-13 - 19 of Final Report

7. Investment Plan and Privatization

: A partial privatization of new investments will not enable IPC-II to sustain all projects. Only a complete privatization of all container transhipment facilities at Tg. Priok and Banten will enable IPC-II to finance all of its common user container investment(breakwaters, harbor dredging, etc.) and sustain other investments related to land banking and transhipment facilities at general cargo ports without resorting to debt.

: To shift port investment strategies recognizing the economies of IPC-II, changing its mission to a landlord organization, providing common user infrastructure and services, and allowing specialized competitive service to be provided by others.

8. Evaluation of Environmental Impacts and Roads Traffic

Development of new ports in Tg. Api-Api and others are expected to have the most

significant ecological (wetland and mangrove forest habitat), social and economical impacts. These adverse impacts can not be minimized, however, compensation for the reduction of habitat could be accomplished by preserving similar habitat at alternate site.

: In any event, a reduction in traffic congestion at the port area will require aggressive action on the part of the city administration to reduce non-port-based general traffic.

9. Planning for an Effective Institutional and Regulatory Framework

: The properly organized planning process should provide continuous capability to monitor, update and implement strategic and master planning of individual ports and the port system.

: The planning process should induce privatization, while maintaining the framework of strategic planning for port development to preserve the public and national interests.

9.1 Legal/Institutional Issues

: The necessary regulations to accompany Shipping Law 21/1992 have not been established. Furthermore, the draft government regulations to that Law should be revised to clarify the issues of private sector participation in port affairs.

: The role of DGSC should be to regulate and enforce policies and guidelines for port development, operation and private sector participation in port affairs, while all commercial and managerial aspects of ports should be handled by IPC.

: It is proposed that the actual composition of the IPC-II Board of Directors be changed to include also port users, instead of only government representatives.

9.2 Revision of Planning/Investment Process

: DGSC should be responsible for updating the SPD(Strategic Development Plans) for each of four IPC and NPSP(National Port System Plan) at least every 5 years. These plans should be reviewed and commented upon by BAPPENAS, and by the ministries of Finance and of Trade and Industry to ensure coordination with national development plans and objectives.

: IPC-II should prepare and update master plans for ports under its jurisdictions at least 5 years. All port master plans must be within the framework of NPSP. The master planning process will include review and comments by city/provincial governments, port users and Ministry of Public Works to ensure coordination of port master plan with city/provincial government master plan, users' needs, and access road development plans.

: Once effective privatization and competition mechanisms are established among ports, terminals, and port operators at IPC-II, all cargo handling tariffs should be determined by private suppliers of services without government interference.

: Other port charges are expected to be determined by terms of conventional lease or operational contracts. The other port charges should be issued by IPC-II, and reviewed by the MOC and the MOF.

9.3 Port Privatization Schemes

The privatization schemes proposed for IPC-II vary in scope from limited provision of only operating/stevedoring services to comprehensive investment in both infrastructure and superstructure and long term operation(20 - 25 years) of ports and terminals on BOT basis. To foster competition among potential private investors and providers of port services, it is recommended that awarding of contracts be based on full transparency and open competitive bidding.

The recommended privatization schemes include,

a) Full terminalization

b) Partial terminalization

c) Operating agreement

d) Licensing agreement

C.10.14 "Balikpaan and Banjarmasin and Gresik Ports Development Projects(11. 1996 ADB)"

* Page 3-30 - 3-34 of Final Report Appendix Vol. I

3.7 Problems in Present Port Organization/Management

1. Lack of implementation regulations and rules related to Shipping Law 21/1992

: To promote private sector participation into port activities, more practical regulations or decrees by MOC or DGSC are necessary, especially for attracting foreign investment.

The government has to prepare the necessary guidelines for contracting and bidding, and related documentation.

Clarification of roles for MOC, DGSC, PTPI and Branch Office for port development
 Each State Port Corporation is preparing masterplans for commercial ports under their jurisdiction. Private companies under special permit of MOC prepare their own plans. MOC branch office may prepare their masterplans for non-commercial ports. The role, relationship,

and responsibilities within related entities are not clear and the government should prepare procedures and flexible guidelines for longer term nationwide port planning and short term implementation programmes.

: Such procedures and guidelines should include the opinions from concerned parties, MOC representatives, provincial government representatives, port operators and port users, etc..

3. The present port organization/management relationship in public ports

: It is unclear who has responsible for productivity improvements but PTPI should play a key role. The port berth allocation, port operation, storage planning, and port control should be done by PTPI but until recently, they found it difficult to assert their authority.

4. TKBM Management System

: The labor force do not regard the stevedoring companies(PBM) as their employers and, therefore, they do not have any royalty to PBM. They, therefore, look to ADPEL because of ADPEL's responsibilities defined in Decree AL62/1/1-87. PBM therefore, find it difficult to effectively manage the labor force.

: Workers should also be motivated to work harder and more effectively by higher pay and shorter working hours.

5. Excess numbers of PBM

: Under PakNov 21/88 the PBM were given opportunities to develop their business but there are many 'paper' companies(without any stevedoring equipment) being non active entities.

6. Further there is not enough cargo handling equipment or trained labor. Therefore, it is important to establish education/training institutions for them in each port region. Cargo handling at conventional terminals is also carried out with insufficient cargo handling equipment.

3.8 Recommendations

 Establishing Government Regulations for the implementation of Shipping Law 21/1992
 The lack of implementing regulations causes some confusion in practical management and operation. And the lack of guidelines for private participation in ports causes delay in the development of port area and causes low productivity in ports. : The first step should be to draw up guidelines like 'Ministry Instructions ' for private sector participation in port activities, and second step would be to establish related regulations in the ports, and third step would be to establish a Privatization Law that includes all aspects of private sector participation.

2. Enlarging the size of domestic enterprise for private sector participation in ports

It would be a necessary step for small business units like shipping companies, agents, freight forwarders, stevedoring companies, to merge with each other to strengthen their capital structure and professional skills. Companies involved in port activities should be encouraged to merge and formulate long term growth strategies, under further government deregulation, which will create positive incentives and encourage them to merge.

3) Decentralization and Local Autonomy

: The central government should promote the acceleration of the development of local autonomy. Currently, for example, central government has, almost exclusively, the power to set tariffs.

4) Clarifying the respective roles of DGSC, ADPEL, PTPI and the branch ports and Reorganization

: Some of their functions and roles were found to overlap. At present government efforts, based on the implementation regulations, are still not fully clarified or adjusted to requirements or the latest circumstances.

: The overlapping activities and functions, in this respect, in divisions of DGSC and ADPEL, should be consolidated. The combined units should be able to independently, and systematically, discharge their responsibilities.

5) Adoption of "One Roof System in Service for Ships and Loading and Unloading" in Other Ports

: The MOC Instruction(No.IM-7/AL-3011/PHB-95) has been on trial in Port of Tg. Priok since last September. After critical evaluation, this system should be positively adopted by other ports.

6) Labor Management in Port - Closer Relationship between PBM and TKBM

: Loading and unloading workers are supplied to the Stevedoring Company(PBM) from the labor pool system(TKBM) and are managed by ADPEL according to AL62/1/1-87. According to the MOC Instruction(No. IM-7/AL-3011/PHB-95), PBM in the Port of Jakarta should have a closer relationship with TKBM and should organize the workers, who are allocated there permanently by the Port Administrator, in order to achieve productivity targets, even though the system has only been on trial since last September.

: The Ministry Instruction also requires PBM to ;

a) increase the effective work hour and work productivity

b) increase the skill of loading and unloading workers

c) increase the income of loading and unloading workers

d) increase the safety of loading and unloading

e) supply good quality mechanical equipment for use by the loading and unloading workers etc.

This system shall be applied to other ports.

C.10.15 Detailed information of Container Terminal Operators in Hong Kong

Four private companies currently operate the terminals at Kwai Chung Container Port in the Port of Hong Kong. They are Hongkong International Terminals Limited(HIT), Modern Terminals Limited(MTL), sea-Land Orient Terminals(SLOT), and the joint venture of HIT and China Ocean Shipping Company(COSCO) named CHT. Table A.3.1 shows summary of the Port of Hong Kong.

(1) Hongkong International Terminals(HIT)

HIT, with ten berths available at Terminals 4, 6 and 7, is the world's largest privately owned container operator. In a joint venture with COSCO, COSCO-HIT Terminals(Hong Kong) Ltd., HIT also has access to the two berths of Terminal 8(East) on Stonecutters Island. More than 450 ships a month are handled at HIT during its 24 hour a day, seven days a week operation. HIT handled over 4 million TEU in 1995.

A Yard Planning Computer System handles the container, cargo and yard planning operations and associated documentation. The Ship Planning Systems(SHIPS) enables two computer screens to link a profile of the vessel together with the yard stacks of containers to be loaded. The Information Exchange System(IES), a comprehensive data-based managing system, has been installed and shipping lines have direct access to selected data on the system. Container yard operations are supervised from the control tower where operators' man groups of modular consoles which are each provided with a trunk radio system, a computer terminal, a closed circuit television and an internal telephone.

The Container Freight Station is now located in the Hongkong International Distribution Centre which is built over Terminal 4. Table 10.4.4 shows HIT's Container terminal facilities and equipment. See Appendix A.3.4.2 for details of the terminal. (2) Modern Terminal Limited(MTL)

Modern Terminals Limited (MTL) is a private company whose shareholders are involved in a broad range of international business activities. MTL owns and operates Terminals 1, 2, 5 and two berths at Terminal 8 (West). Table 10.4.5 shows MTL's container handling facilities and equipment. MTL's throughput for 1996 totalled 2,031,797 TEUs (20-foot equivalent units). By region, trade with North America accounted for 38%, intra-Asia 15%, Europe 39.8%, with the rest comprising the Mediterranean, the Middle East, Australia and Africa.

Beginning in the year 2000, MTL will be offering customers a new facility at Terminal 9 (South) with 1,200 metres of quayside frontage and location capacity of 1.85 million TEUs.

MTL has invested heavily in information technology. A Gatehouse Automation project, incorporating tractor identification, voice appointment and booking information, was commissioned in May 1994. RTG Auto-steering, Radio Data Transmission, and Synchronised Planning and Real-time Control systems are also used to enhance operational efficiency and customer service. Detailed cargo information is exchanged with shipping lines through Electronic Data Interchange technology.

A new computer application - Customer Information Services System (CIS) was implemented in mid-August 1996. The system enables shipping companies to retrieve on-line real-time information of MTL operations such as container information and vessel berthing schedules.

On average, more than 5,500 containers are loaded and unloaded at MTL every day. Nineteen quay side gantry cranes perform the primary job of movig the containers on and off the more than 2,000 vessels that call in at MTL every year. Some of these cranes can lift up to 40 tonners, extend 45.6 metres and move as many as 40 containers an hour. See Appendix A.3.4.2 for details of the terminal.

(3) Sea-Land Orient Terminals Limited(SLOT)

Sea-Land Orient Terminals(SLOT) operates Berth No.3 at Kwai Chung and is positioned mid-way between the other two operators, HIT and MTL. SLOT handles about 20 vessels per week and throughput in 1995 was 880,334 TEU.

An in-house developed, Yard Inventory Control System, is used for container grounding and pick-up activities and is connected with the Gate and Vessel Stowage System, which facilitates pre-stacking of containers. Container yard operations are monitored through a Closed Circuit TV System at decentralised yard workstations. Vessel Stowage functions are performed using Advanced Stowage Planning which allows the planning of vessel loading sequences based upon the container's yard position.

The Gate System facilitates an average of 2,800 in-and-out transactions in a 24 hour period. A tractor Identity Card System is in use and Electronic Data Interchange of information with liner clients ensures efficient gate operations.

Container Freight Station operations for Terminal 3 take place in the Asia Terminal Centre, where there are 94 receiving and loading bays in operation. See Appendix A.3.4.2 for details of the terminal.

(4) COSCO-HIT Terminal(Hong Kong) Ltd.

COSCO-HIT Terminals(Hong Kong) Ltd. (CHT) is a 50/50 joint venture between China Ocean Shipping(Group) Company(COSCO) and Hongkong International Terminals Ltd.(HIT). The terminal is situated on the northern corner of Stonecutters Island and is joined to the Kwai Chung Container Port by a land bridge. It has a designed handling capacity of 900,000 TEU per annum. CHT commenced operations in January 1994 and became fully operational in July 1994. In 1995 it handled over 1 million TEU.

CHT operates a real time yard computer system and an up-to-date ship planning system. These systems ensure fast and efficient container movement. The entry and exit gates use bar code scanners, closed-circuit TV and direct computer links to provide fast and efficient tractor turnaround. See Appendix A.3.4.2 for details of the terminal.

C.10.16 Detailed information of Container Terminals of PSA

(1)Tanjong Pagar Terminal

Tanjong Pagar Terminal works 24 hours a day, seven days a week for vessels. The terminal has computer systems.

Computer systems:

Hardware: IBM 3081 G32, NAS 9060.

Software: in-house Functions: invoicing, container inventory, stowage planning, yard allocation, CFS operations. See Appendix A.4.4.2 for details of the terminal.

(2)Pasir Panjang Terminal

Pasir Panjang Terminal is being built. Phase I of the development, operation is start with four berths by 1998.

Future plans: The terminal is due to be expanded and developed in four phases over 30 years. Phase 1, due for completion in 1998, involves reclaiming 129ha and the construction of eight container berths with a total length of 2,730m. Phase 2 will offer 18 berths and is due for completion in 2009. On completion the terminal will have 50 container berths, total length 17,000m. See Appendix A.3.4.2 for details of the terminal.

(3)Keppel Terminal

See Appendix A.3.4.2 for details of the terminal.

(4)Brani Terminal

The terminal has computer systems.

Computer systems:

Functions: ship and yard planning, stowage planning, berth allocation, mobile radio data transmission, container number recognition. See Appendix A.4.4.2 for details of the terminal.