

APPENDIX OF CHAPTER 4

4.1 Industrial Carrier Case Study: ITP Tunggal Perkasa

(1) Profile

Year of Establishment: 1973
Status: PMA (Penanaman Modal Asing)
Ownership Type: Foreign Investment (German)
Share: Heidelberg (German company) (75-80%)
Government (under 10%)
Private (10%)
Public (under 10%)
Number of Employees: 8,000 persons
Capital Investment: 1,000,000 \$ US
ITP is the biggest cement company in Indonesia.
Capacity of ITP Plant

Figure 4.1 Cement Processing ITP Production

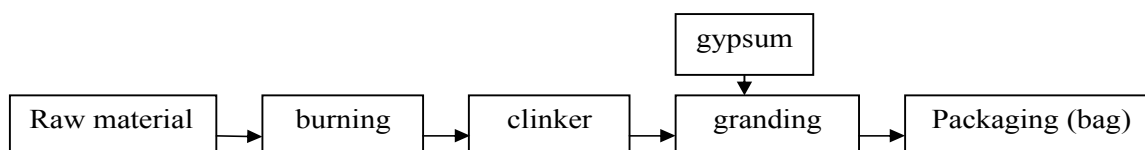


Table 4.1 Capacity of Cement Plant in Citeurep (Jawa Barat)

Plant	Year	Capacity / year (ton)
1	1975	500,000
2	1976	500,000
3	1979	1,000,000
4	1981	1,000,000
5	1981	200,000
6	1983	1,500,000
7	1985	1,500,000
8	1985	2,000,000
11	1999	2,450,000
Total		10,650,000

Table 4.2 Capacity of Cement Plant in Palimanan/Cirebon (Jawa Barat)

Plant	Year	Capacity / year (ton)
9	1985	1,300,000
10	1997	1,300,000
Total		2,600,000

Table 4.3 Capacity of Cement Plant in Tarjun (Kalimantan Selatan)

Plant	Year	Capacity / year (ton)
12	1998	2,450,000

ITP has four terminals: Jakarta, Bandung, Semarang, and Surabaya. It planned to expand production 20 years later after operation, however, future investment plans were derailed due to Indonesia's economic crisis. However, the present situation of the cement industry is very good.

ITP has three production areas: Citeureup West Jawa meets the demand in the west side of Indonesia and export; Palimanan West Jawa meets the demand in Jawa Island and Tarjun Shouth Kalimantan meets the demand in the east side of Indonesia.

The competitiveness in the cement industry is very high. Biggest market of ITP is in Jawa Island particularly West Jawa. Future market of ITP is still in Jawa Island because it has a big population and has big infrastructure demand.

(2) Market share

1. Export : 33	➔	bulk cement	11	}	Sea Transport
	➔	clinker	11		
	➔	bag cement	11		
2. Domestic: 67	➔	Sea Transport	15		
	➔	Land Transport	85	(truck)	

(3) Transport share

1. Citeurep (Jawa Barat) : 90 land transport (truck) and 10 sea transport
2. Palimanan/Cirebon (Jawa Barat) : 90 land transport (truck) and 10 sea transport
3. Tarjun (Kalimantan Selatan) : 10 land transport (truck) and 90 sea transport

The poor development of railway system in the country makes the use of railway unavailable to land transport of cement.

(4) Sea Transport

(a) Bulk Vessel

- ITP has a joint venture with Gear Bulk Company to charter 3 bulk vessels from Steel Water Company (SWC). The joint venture is 50% owned by ITP and 50% owned by Gear Bulk, with all vessels carrying the foreign flag of Bahamas.
- These three vessels are operated by PT. Tri Manggada Nusantara Lines. This company also operates eight general cargo vessels to carry other commodities.
- These three Bulk vessels only transport cement from Tarjun to Surabaya, Semarang and Lombok terminal.

Tarjun ➔	Surabaya	(500.000 Ton/year)
➔	Semarang	(400.000 Ton/year)
➔	Lombok	(100.000 Ton/year)

(b) General Cargo Vessel

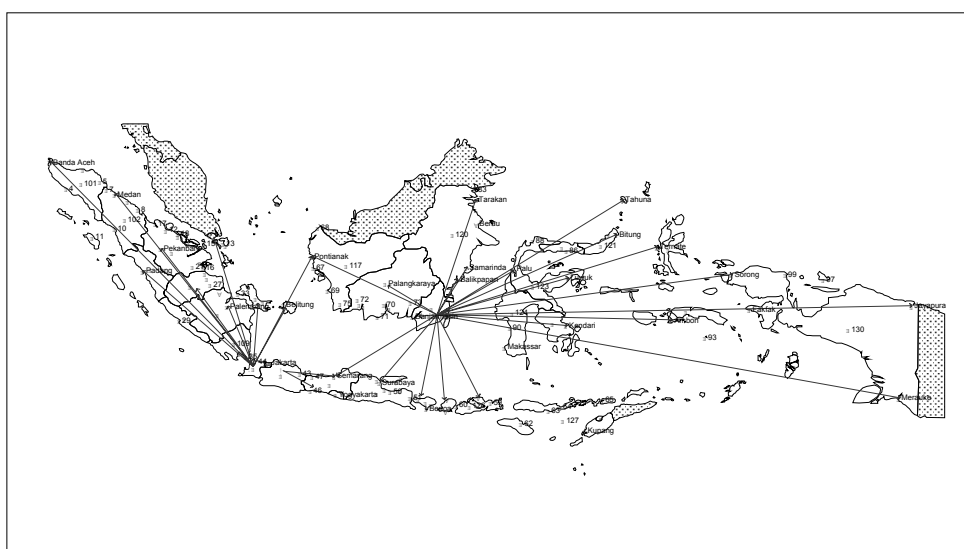
- ITP charts cargo vessel to carry cement bags from Tanjung Priok to west side of Indonesia and from Tarjun to east side of Indonesia. Status of the charter contract is voyage charter. The sizes of the vessels being used are 200 - 1000 DWT to serve the west side and 1000 - 5000 DWT to serve the east side.
- ITP charts around 600 general cargo vessels per year to carry cement bags.

Sea transportation network of Indonesia is as follows:

Table 4.4 Loading and Discharging Ports

Loading Port	Discharging Port
Tg. Priok	Belawan
	Banda Aceh
	Bangka Belitung
	Pontianak
Cirebon	Semarang
Tarjun (Kalimantan Selatan)	Semarang
	Surabaya
	Bali
	Lombok
	Bima
	Tahuna
	Bitung
	Palu
	Luwuk
	Kendari
	Ternate
	Ambon
	Sorong
	Jayapura
	Merauke

Figure 4.2 Domestic Transportation of ITP



Transportation share is large in Tarjun.

(5) Freight rate

1. Bulk	MV. Tiga Roda	10,000 DWT	6000 \$US / day	} time chartered rate
	MV. Tarjun	12,000 DWT	7300 \$US / day	
	Barge vessel		2200 \$US / day	
	MV. Saesar	5,500 DWT	8.5 \$US / ton	
2. Bag	average rate for bag carrier is		6-7 \$US /ton	

Requirements for port facility

Tanjung Priok Port has an insufficient draft which should already be made deeper.

APPENDIX OF CHAPTER 5

5.1 Profile of 15 Surveyed Shipyards

(1) PT. PAL INDONESIA

1	Name of Company	PT PAL INDONESIA (Persero)
2	Year Established	1980, the yard was constructed on the previous site of Marine Establishment. It is the most modern shipyard in Indonesia.
3	Status	BUMN
4	Capital	Confidential
5	Ownership/Shareholder	BUMN (Badan Usaha Milik Negara/State-owned Enterprise) 100% shares held by the Government
6	Address	Office / Yard Ujung Surabaya, PO BOX 134
7	Main Facilities	<ul style="list-style-type: none"> Berth/Wharf: Length = 840 m, Depth = 4.00-6.00 m Building Berth: No specific building berth as the ships are built in many locations, i.e. in the covered assembly shop, open space, in the graving docks, etc. and launched by ship-lift, conventional launching, or undocked. Docks : <ul style="list-style-type: none"> Graving Dock of 30,000DWT, with Goliath Crane 1 x 300T, LLCrane 2 x 40T, LLCrane 1 x 20 T (1 unit) Graving Dock of 20,000 DWT, with LL Crane 2 x 30 T (1 unit) Floating Dock of 5,000 TLC, with LL Crane 2 x 5 T, LL Crane 2 x 7.5T (each) (2 units) Graving Dock of 1,000 DWT, with OH Crane 1 x 4 T, Wing-wall crane 1 x 2T (each) (2 units) Ship-lift of 2,000 TLC (1 unit) Graving Dock of 5,000 TLC, with LL Crane 2 x 7.5 T (1 unit) Cranes : <ul style="list-style-type: none"> Floating Crane of 50 T 2 units Floating Crane of 200 T 1 unit Mobile Crane of 10 T 2 units Mobile Crane of 30 T 2 units Mobile Crane of 125 T 1 unit Other facilities with the most advanced workshop equipment to support maintenance and repair work for the whole or parts of ships are available.
8	Yard Capacity	Biggest ship built: Container Ship of 1,600 TEU (18,000 GT) Biggest ship docked: 42,000 DWT Number of ships repaired annually: 86 units, 850,000 DWT (average)
9	Working Area	Total area: 1,500,000 m ² (150 ha) Hull Construction Workshops (Fabrication, Assembly) Outfitting Workshop (Carpentry, Electrical, Pipe, Machinery, Outfitting, etc) Electronic and Weapon Workshop (Radio Communication, Sound Navigation, etc) General Engineering Workshops (CNC Lathe, CNC Milling, Water Brake, etc)
10	Quay Length / Depth	L = 840 meter, Depth = 4.00 – 6.00 meter (zero tide)
11	Manpower	Total: 3,247 persons Technical: 1,764 persons Non Technical: 1,483 persons University: 963 persons College: 2,281 persons Subcontractors: 84 companies with 1,050 persons
12	Products	New Building: up to 50,000 DWT <ul style="list-style-type: none"> Naval Ship: Design and production of various types and purposes. Fast Patrol Boat of 57 and 14 meters, develops designs for 1,300 T, 1,500 T Low Cost Corvettes and 600 T Mine Hunters. Merchant Ship: Trawler, Long-line fishing boats, Utility vessel, Advance ocean liner, Highly efficient tankers with double hull, Bulk carrier, Container vessels, Passenger vessels for coastal transportations, etc., up to

		50,000 DWT <ul style="list-style-type: none"> Other than Steel vessels, namely: Aluminum Hull, Fiber Reinforced Polyester (FRP) and Laminated Wooden Boat. Maintenance & Repair: up to 30,000 DWT <ul style="list-style-type: none"> Hull, Superstructure, Engine, Propulsion system, Electronics and Armaments, as “one stop services” to minimize docking time. Docking, floating dock of 5,000 TLC and graving dock of 20,000 DWT, with the most advance equipment workshops to serve all repair works. General Engineering: <ul style="list-style-type: none"> Fabrication of: Power plants, Chemical and Oil refinery industries, Offshore structures, Diesel engine, Cranes, Turbines, Bridges, etc.
13	Financial Highlights	Total Asset: Rp. 7.2 Trillion Equity: Rp. 5.4 Trillion Annual Sales: Rp. 1.03 Trillion
14	Other Information	Current activities : <ul style="list-style-type: none"> Shipbuilding: Oil Tanker of 30,000 DWT (Pertamina 2 units, waiting for contract) Ship repair: Docking, dry docked, floating are fully booked

(2) PT DOK & PERKAPALAN KODJA BAHARI

1	Name of Company	PT. DOK & PERKAPALAN KODJA BAHARI (Persero)
2	Year Established	1992, the company was the result of the merging of 4 (four) state- owned yards, namely: PT. Dok dan Perkapalan Tanjung Priok, PT. Pelita Bahari, PT. Kodja and PT. Dok dan Galangan Kapal Nusantara. Headquarter is in Jakarta. Manages 10 (ten) yards located in Sabang (1), Padang (1), Palembang (1), Cirebon (1), Semarang (1), Jakarta (4), and Banjarmasin (1).
3	Status	BUMN
4	Capital	
5	Ownership/Shareholder	Badan Usaha Milik Negara (State-owned Enterprise, 100% share held by the Government)
6	Address	Head Office: - Jl. Sindang Laut No. 101, Cilincing, Jakarta 14110
7	Main Facilities	<ul style="list-style-type: none"> Berth/Wharf <ul style="list-style-type: none"> Building Berths: from 450 DWT (50.0 m x 15.0 m, Side Launching) up to 50,000 DWT (224.0 x 35.0 m, End Launching) Docks <ul style="list-style-type: none"> Graving Docks: from 250 DWT (40.0 m x 8.0 m) up to 8,000 DWT (120.0 m x 22.0 m) Floating Docks: from 3,750 DWT/1,500 TLC (112.0 m x 14.5 m) up to 30,000 DWT/12,000 TLC (166.0 m x 29.0 m) Lifting Dock: of 100 DWT/75 TLC (30.0 m x 5.0 m) Slipways: from 350 DWT (8.0 m x 1.6 m) up to 1,200 DWT (80.0m x 12.5 m) Cranes <ul style="list-style-type: none"> Traveling Cranes: from Mobile Cranes Crawler Cranes Floating Crane
8	Yard Capacity	Biggest Ship built: R0-Ro Passenger & Trailer Ferry of 18,900 GT Biggest Ship docked: Number of ships repaired annually:
9	Working Area	Shipyard Production Unit and Shipyard Unit are in a separate list.
10	Quay Length / Depth	Ditto Point 23 above
11	Manpower	Total: 2,603 persons Technical: 1,970 persons Non Technical: 633 persons University: 156 persons College: 900 persons Subcontractors :
12	Products	New Building: up to 50,000 DWT <ul style="list-style-type: none"> Ro-Ro Passenger & Trailer Ferry of 18,900 GT for export Chemical Tanker of 16,000 DWT for export LPG Carrier of 5,600 Cbm for export

		<ul style="list-style-type: none"> • White Oil Tanker of 6,500 DWT for Pertamina • Offshore Supply Vessel of 2 x 1,770 HP for Pertamina • Container vessels of 4180 DWT/208 TEU • Tin Bucket Dredger of 12,000 T for PT. Timah • Hopper Split Barge of 1,500 DWT for PT. Rukindo • Fishing vessels any types up to 700 GT • Other type and size of ships <p>Ship Maintenance and Repair up to 30,000 DWT</p> <ul style="list-style-type: none"> • Annual Survey of: <ul style="list-style-type: none"> - 3,500 DWT Cargo Ship -Caraka jaya - 9,100 DWT Cargo Ship -Permai I • Special Survey of: <ul style="list-style-type: none"> - 7,500 GT Bulk Carrier - PT. Pusri - 3,500 M3 Cutter Suction Dredger - Ruindo - Passenger Ship - PT. Peln • Refurbishment & rehabilitation of: <ul style="list-style-type: none"> - Cruise Ship - Awani Dream - Conversion Passenger & Car Ferry -PT. Peln - Repowering LST - Indonesian Navy - Refurbishment of Single Point Mooring Buoy -Kodeco • Offshore construction & Maintenance <ul style="list-style-type: none"> - Single Point Mooring Buoy of 15 m (diameter), complete with Yoke and Tanker Beam - IMODCO-USA - Heat Exchanger & Separator - Pressure Vessel - Repair & Maintenance of Oil Storage Barge - Cinta Natomas • Quality Control & Assurance <ul style="list-style-type: none"> - ISO 9001 & 9002 accredited by Lloyd's Register Certification Authority, have been implemented
13	Financial Highlights	<ul style="list-style-type: none"> • Total Asset: Rp. 1,800 Billion • Equity: Rp. 237 Billion • Annual Sales: Rp. 198 Billion
14	Other Information	<p>Current Activities:</p> <ul style="list-style-type: none"> • Shipbuilding: • Ship repair: • Others:

(3) PT. DOK DAN PERKAPALAN SURABAYA

1	Name of Company	PT. DOK DAN PERKAPALAN SURABAYA (Persero)
2	Year Established	1976, established in 1910 as NV Droogdok Maatschappij Soerabaja, nationalized in 1961, "Sumber Bhaita" dockyard integrated to Dok Surabaya in 1963, and adopted the present name in 1976.
3	Status	BUMN
4	Capital	
5	Ownership/Shareholder	BUMN (Badan Usaha Milik Negara = State-owned Enterprise), 100% shares held by the Government
6	Address	Office / Yard Jl. Tanjung Perak Barat 433-435 Surabaya 60165
7	Main Facilities	<ul style="list-style-type: none"> • Berth/Wharf: <ul style="list-style-type: none"> - Building Berth North Yard: 125.00 m x 22.00 m - Transverse Slipway: 60.00 m x 40.00 m - Building Berth South Yard: 69.00 m x 21.00 m • Docks: <ul style="list-style-type: none"> - Floating Dock IV: 2,000 TLC (100.00 m x 22.00 m) - Floating Dock II: 3,500 TLC (109.30 m x 28.40 m) - Floating Dock I: 3,500 TLC (109.30 m x 28.40 m) - Floating Dock V: 6,000 TLC (152.50 m x 33.60 m) • Cranes: <ul style="list-style-type: none"> - Tower Crane of 60 T at 6.00 m, 27 T at 90.00 m - Tower Crane of 50 T at 18.00 m, 14 T at 60.00 m

	<ul style="list-style-type: none"> - Tower Crane of 12 T at 20.00 m, 7 T at 35.00 m - Floating Crane of 75 T at 15.00 m - Portal Travel Crane of 5 - 15 T at 20.00 m - Jib Crane of 5 T - Overhead Traveling Cranes of 5 T - 6 units, 10 T- 5 units, and 16 T 2 units - Hydraulic Jack of 50, 100 and 150 T, each 5 units • Others <ul style="list-style-type: none"> - Engineering with complete hardware and - TRIBON software for Design, Production (Hull Construction, Piping, Ducting & Cable tray). 	
8	Yard Capacity	<p>Biggest ship built: White Product Oil Tanker Double Hull of 5,230.00 GT</p> <p>Ship conversion: Cement Bulk Carrier of 5,977 GT</p> <p>Number of ships built annually: 2 units of 6,500 DWT each.</p> <p>Biggest ship docked: 10,000 DWT</p> <p>Number of ships repaired annually: 100-120 units with 310,000 GT</p> <p>Productivity Level (steel throughput): 6,000 Ton / year</p>
9	Working Area	<p>Land surface: about 57,000 sqm</p> <p>Water surface: about 70,000 sqm</p> <p>Covered workshops: 11,525 sqm, including</p> <ul style="list-style-type: none"> • Plate Shop: CNC cutting machine, Eye tracer cutting machine, Automatic welding machine, Press Machine, Frame bender, etc. • Welding Sop: many kinds of welding machines • Machine Sop: Tail-shaft lathe (500 mm x 16,000 mm), Universal milling machine, Gear Machine, etc. <p>Uncovered workshops: 11,949 m²</p> <p>Opened storage: 5,250 m²</p> <p>Closed storage: 2,750 m²</p>
10	Quay Length / Depth	Length = 1,200 meter, Depth = 4 – 5 meters (zero tide)
11	Manpower	<p>Total: 779 persons</p> <p>Technical:</p> <p>Non technical:</p> <p>University:</p> <p>College:</p> <p>Subcontractors:</p>
12	Products	<p>Shipbuilding:</p> <ul style="list-style-type: none"> • Specializes in commercial vessels up to 8,000 DWT (tankers, container ships, bulk carriers, barges) and special ships up to 1,500 GT (supply vessels, tugboats, fishing vessels, ferries, etc.) <p>Ship repair:</p> <ul style="list-style-type: none"> • Dry-docking, annual and special surveys, floating and running repair of vessels of up to 10,000 DWT (passenger ships, tankers, cargo vessels, tugboats, ferry boats, navy vessels, etc.) <p>Ship conversion:</p> <ul style="list-style-type: none"> • In 1994 it became the core business. 5 cargo vessels of 7,500 DWT each were converted to bulk cement carriers complete with the latest loading and unloading technology. <p>Offshore construction and steel structure fabrication:</p> <ul style="list-style-type: none"> • Living quarters, platforms, heliports, ship components, crane fabrication/assembly, pipelines, and other steel works. <p>Design and engineering:</p> <ul style="list-style-type: none"> • The Design Center also provides designs and engineering drawings for other shipyards or companies. • The facilities include 14 networked workstations to speed up the design process, supported by CAD/CAM system using the newest and most complete TRIBON software which enables integration of hull construction simultaneously with outfitting, leading to the implementation of integrated hull construction, outfitting and painting (IHOP). <p>Quality control and assurance:</p> <ul style="list-style-type: none"> • ISO 9000 has been implemented. Accuracy control system to maintain dimensional accuracy and minimize rework as part of

		QA/QC program, to keep the production process moving smoothly, on schedule and in keeping with both classification society's and customer's requirements.
13	Financial Highlights	<ul style="list-style-type: none"> • Total Asset: Rp. 75.6 Billion • Equity: Rp. 46.0 Billion • Annual Sales: Rp. 89.0 Billion
14	Other Information	<p>Current activities :</p> <ul style="list-style-type: none"> • Shipbuilding : <ul style="list-style-type: none"> - Tug Boat of 3,200 HP (Pelindo III) - Oil Tanker of 6,500 DWT (Pertamina, waiting for contract) • Ship repair : <ul style="list-style-type: none"> - Docking, dry docked, floating, fully booked • Others:

(4) PT. JASA MARINA INDAH

1	Name of Company	PT. JASA MARINA INDAH (Private)
2	Year Established	1977 – Unit I, 1993 – Unit II
3	Status	PMDN
4	Capital	Rp. 6,000,000,000.-
5	Ownership/Shareholder	
6	Address	Shipyard: UNIT I Jl. Deli No. 21, Pelabuhan Tanjung Emas, Semarang 50129
7	Main Facilities	<ul style="list-style-type: none"> • Berth / Wharf: <ul style="list-style-type: none"> - Building Berth of 6,500 DWT (Unit I, operated) - Building Berth /Dock of 30,000 DWT (Unit II, operated) - Building Dock of 35,000 DWT (Unit II, under construction) • Docks : <ul style="list-style-type: none"> - Graving Dock of 8,000 DWT (Unit I, operated) - Graving Dock of 35,000 DWT (Unit II, planned) • Cranes : <ul style="list-style-type: none"> - Mobile Crane of 150 T at 20 m – 1 unit - Mobile Crane of 25 T – 1 unit - Mobile Crane 45 T – 1 unit - Wharf Crane of 10 T – 1 unit - Tower Crane of 30 T – 1 unit - Heavy Transporter of 10 T and 20 T – 1 unit each
8	Yard Capacity	Biggest ship built: Crude and Clean Product Tanker of 6,500 DWT Biggest ship docked: 8,000 DWT Number of ship repaired annually: 45 units Productivity level: New Build - 4,500 Ton/year Repair - 3,500 Ton/year
9	Working Area	UNIT I Total area : 23,000 m ² Covered workshop : 14,125 m ² , including <ul style="list-style-type: none"> • Plate shop: Frame bending, Press Machine • Welding shop: Manual cutting, Automatic cutting, NC cutting, Manual welding, Automatic welding • Pipe shop: Pipe bending, pipe cutting • Machinery shop: Lathe, Milling, Scraping, • Carpenter shop: Wood working machinery • Electrical shop: UNIT II <ul style="list-style-type: none"> • Total area :81,000 m² • Covered workshop: 6,175 m², including (operated) • Plate shop: Bending Machine, NC Cutting Machine, • Pipe shop: Pipe Bending, Pipe Cutting • Outfitting shop: • Electrical shop • Other shops under construction

10	Quay Length / Depth	Unit I: Length = 170 m, Depth = 4.0 m (zero tide) Unit II: Length = 465 m, Depth = 7.0 m (zero tide)
11	Manpower	Total of: 377 persons Technical: 303 persons Non Technical: 74 persons University: 87 persons College: 290 persons Subcontractors: 825 persons
12	Products	Shipbuilding: <ul style="list-style-type: none"> Commercial vessels of up to 8,000 DWT (Crude and Clean Product Tanker, full and semi containers, general cargo vessels, split barges, tugboats (for export), ferry boats, etc. Ship repair: <ul style="list-style-type: none"> Docking and repairing ships of up to 8,000 DWT Tank coating specialist Quality Management: <ul style="list-style-type: none"> ISO 9001:2000 has been implemented, Lloyd Register Quality, Inc.
13	Financial Highlights	<ul style="list-style-type: none"> Total Asset: Rp. 35.4 Billion Equity: Rp. 13.0 Billion Annual Sales: Rp. 31.0 Billion
14	Other Information	Current activities: <ul style="list-style-type: none"> Shipbuilding: <ul style="list-style-type: none"> Oil Tanker of 6,500 DWT (Pertamina, waiting for contract) Ship repair: <ul style="list-style-type: none"> Docking, dry dock, floating repair, fully booked until Dec. 2003

(5) PT. INDUSTRI KAPAL INDONESIA

1	Name of Company	PT. INDUSTRI KAPAL INDONESIA (Persero) (PT. IKI)
2	Year Established	1977, this company was appointed to be the shipyard and Maritime Development Center in the eastern region of Indonesia, especially for fishing vessels and passenger ships (Ro-Ro). It operates two yards: one in Makassar (South Sulawesi), and one in Bitung (North Sulawesi)
3	Status	BUMN
4	Capital	Rp. 9,410,817,016.66
5	Ownership / Shareholder	Badan Usaha Milik Negara (State-owned Enterprise, 100% shares held by the Government)
6	Address	Jl. Galangan Kapal PO.BOX 1196 Makassar 90211
7	Main Facilities	<ul style="list-style-type: none"> Berth / Wharf: <ul style="list-style-type: none"> Berth for ships up to 6,500 DWT (4 units) Berth for ships up to 500 GT (10 units) Docks: <ul style="list-style-type: none"> Graving Dock: 10,000 DWT (120 m x 28 m x 8 m) (1 unit) Main Shifter (transfer shifter): 1,500 T (1 unit) Site Track: 9 lines : 2 lines (300 meter/line), 4 lines (80 meter/line), 3 lines (70 meter/line) Vessel draught: 5.00 meter Cranes: <ul style="list-style-type: none"> Crawler Crane: 400T (1 unit) Tower Crane: 60T (3 units) Mobile Crane: 35T (5 units) Gantry Crane: 5 up to 15 T (2 units) Overhead Crane: 5T (1 unit)
8	Yard Capacity	Biggest ship built: Semi-container Ship of 4,180 DWT, Ferry Ro-Ro of 600 GT and Fishing Vessels of 300 GT. Biggest ship docked: 4,180 DWT (Caraka Jaya Niaga) Number of ships repaired annually: 87 units

9	Working Area	Workshop: 5,781.33 m ² , covering: <ul style="list-style-type: none"> • Plate shop: with plate forming machinery, CNC cutting, • Welding shop: Automatic welding, etc • Pipe shop: pipe bending machine, threading, etc • Machine shop: Lathe of c.h. =330 mm x c.l. =12,000 mm, etc • Electric workshop • Woodwork shop: Joinery works, wood laminate works, etc.
10	Quay Length / Depth	Length = 850 m / Depth = 5.00 m
11	Manpower	Total: 491 persons Technical: 199 persons Non technical: 292 persons University: 88 persons College: 403 persons Subcontractors : 152 persons
12	Products	Shipbuilding: <ul style="list-style-type: none"> • Commercial vessels of up to 4,180 DWT, Ferry Ro-Ro of 300, 500 and 600 GT, Fishing Vessel of 300 GT, Barges of 100 m, "Pinisi" (wooden Boat), etc. Ship repair: <ul style="list-style-type: none"> • Docking and repairing ships of up to 4,180 DWT (Cargo ships, Tankers, Passenger ships, Ferry Ro-Ro, Tugboats, Fishing vessels, Barges, etc) • Repair works covering : Hull, Engine, Electric, Navigation, Communication, etc
13	Financial Highlights	<ul style="list-style-type: none"> • Total Asset: Rp.176.3 Billion • Equity: • Annual Sales: Rp. 80.5 Billion
14	Other Information	<ul style="list-style-type: none"> • No shipbuilding activities, some blocks of Mina Jaya Project (Fishing Vessel) laid up on the berth, lots of containers containing equipment and parts for the same project stacked on the open storage, waiting for further decision. • Ship repair activities carried out in the graving dock and floating along the berth.

(6) PT. INDUSTRI KAPAL INDONESIA -Unit Dok dan Galangan Bitung-

1	Name of Company	PT. IKI UNIT DOK DAN GALANGAN BITUNG
2	Year Established	Same as PT. IKI
3	Status	Same as PT. IKI
4	Capital	Same as PT. IKI
5	Ownership/Shareholder	Same as PT. IKI
6	Address	Jl. Samuel Languyu Bitung 95524
7	<ul style="list-style-type: none"> • Main Facilities <ul style="list-style-type: none"> - Berth/Wharf: Length = 40.00 m, Depth = 6.00 m • Docks: <ul style="list-style-type: none"> - Slipway I: 300 TLC (L = 90.00 m) - Slipway II: 200 TLC (L = 72.00 m) - Slipway III: 400 TLC (L = 100.00 m) - Slipway IV: 500 TLC (L = 120.00 m) - Slipway V: 850 TLC (L = 150.00 m) - Slipway VI: 1,000 TLC (under construction) • Cranes: <ul style="list-style-type: none"> - Mobile Crane of 35 T (1 unit) - Mobile Crane of 7.5 T (1 unit) - Forklift of 3.0 T (1 unit) - Mooring Boat of 120 HP(1 unit) 	
8	Yard Capacity	Biggest ship built: Biggest ship docked: 800 DWT Number of ships repaired annually: 40 units
9	Working Area	Administration: 368 m ² Workshop: 2,880 m ² Including Machine shop with Lathe of c.d=600mm,

		c.l.=12,000mm New building area: 10,000 m ²
10	Quay Length / Depth	Length = 80 m, Depth = 3.00 m (high water level)
11	Manpower	Total : 96 persons Technical : 66 persons Non Technical : 30 persons University : 17 persons College : 79 persons Subcontractors : 52 person
12	Products	<ul style="list-style-type: none"> Shipbuilding: <ul style="list-style-type: none"> Steel hull vessel (planned) of up to 1,500 DWT for Pilot Boats, Passengers, Tugboats, Fishing boats, Barges, Ferries, etc. Ship repair: <ul style="list-style-type: none"> Ships of any types and size of up to 1,500 DWT Ship conversion: <ul style="list-style-type: none"> Fishing vessel converted to Tanker, Fuel supply boat for Passenger vessel. Steel Construction: <ul style="list-style-type: none"> Pipe laying and fuel storage tank for PLTG Steel tunnel for PLTA Fuel storage tank of 10,000 kl for Pertamina Conveyer fabrication, etc.
13	Financial Highlights	Total Asset: Rp.16.1 Billion Equity: Annual Sales: Rp. 13.0 Billion
14	Other Information	Current activities: Ship repair: all slipways occupied, berth crowded with floating repair Shipbuilding: no activities

(7) PT. DUMAS TANJUNG PERAK SHIPYARD

1	Name of Company	PT. DUMAS TANJUNG PERAK SHIPYARD (Private)
2	Year Established	1980
3	Status	PMDN
4	Capital	Rp. 8,540,000,000.00
5	Ownership/Shareholder	Agus Bintoro Andy Bintoro Arlita Bintoro Letkol (Mar) Sutikno, BA
6	Address	Jl. Nilam Barat 24 – 26 Surabaya
7	Main Facilities Berth/Depth	<ul style="list-style-type: none"> Docks: <ul style="list-style-type: none"> Graving Dock: 8,000 T (1 unit) Floating Dock: 1,500 TLC (1 unit) Cranes: <ul style="list-style-type: none"> Gantry Crane: 30 T (1 unit) Crawler: 35 T (1 unit) Rough Terrain: 35 T (1 unit) Mobile: 20 T (1 unit) Mobile: 5 T (1 unit)
8	Yard Capacity	Biggest ship built: Full Container 208 TEUS of 4,180 DWT. Biggest ship docked: Cargo Vessel of 4,250 DWT. Number of ships repaired annually: 15 units
9	Working Area	Administration: 629.40 m ² Workshop: 1,439.80 m ²
10	Quay Length / Depth	
11	Manpower	Total: 166 persons

		<p>Technical: 132 persons Non Technical: 10 persons University: 8 persons College: 16 persons Subcontractors: as per requirements</p>
12	Products	<p>Shipbuilding: Full Container 208TEUS of 4,180DWT, Ro-Ro Ferry for Passenger and Vehicle of 400GT/500GT/600GT, Tug Boat of 2 x 650 HP, 2 x 1,600 HP Ship repair : Ship repair was actually the core business of this company, any types of ships up to 8,000 DWT able to be docked and repaired Other repair works for Engine and Electrical Other engineering works: Testing and repair of relief valves Fabrication of steel structures Dredging services and equipment supply Construction of civil works</p>
13	Financial Highlights	<p>Total Asset: Rp. 66.4 Billions Equity: Rp. 34.6 Billions Annual Sales: Rp. 10.1 Billions</p>
14	Other Information	<p>Current docking and repair mainly for dry-docking, hindered by sediment outside dock gate of the graving dock which is higher than the dock's floor. Opening the dock gate will let all sediment enter the dock. To re-utilize the dock, the whole sediment along Nilam River has to be dredged out.</p>

(8) PT. INTAN SENGKUNYIT

1	Name of Company	PT. INTAN SENGKUNYIT (Private)
2	Year Established	1974
3	Status	PMDN
4	Capital	
5	Ownership/Shareholder	PT. NUGRA SANTANA
6	Address	Jl. Sei Selincah Palembang 30119
7	Main Facilities	<p>Berth/Wharf : Length = 150 m, Depth = 7.00 m Building berth of 6,500 DWT, 160.00 m x 25.00 m – 1 unit Slipways & Building berths: - of 1,000 DWT, 135.00 m x 13.00 m – 1 unit - of 3,000 DWT, 180.00 m x 18.00 m – 1 unit - of 6,500 DWT, 200.00 m x 22.00 m – 1 unit Docks: Dry-docking to be carried out on the slipways mentioned above. Cranes: Jib Crane of 30 T at 45.00 m – 1 unit Truck Crane of 100 T – 1 unit Truck Crane of 7 T – 1 unit</p>
8	Yard Capacities	<p>Biggest ship built : Semi container of 4,180 DWT/208 TEU Biggest ship docked : Cargo Vessel of 3,650 DWT Number of ships repaired annually : 52 units</p>
9	Working Area	<p>Total area : 200,000 m², for Administration buildings, Workshops, Building Berths, Slipways, Open Storage and Warehouse. Hull shop of 3,600 m² with 2 x 10 T overhead Cranes and 2 x 20 T overhead cranes, 100 T hydraulic press machine, plate & profile roller, optical gas cutting. Outfitting shop of 1,200 m² with 1 x 10 T overhead crane, optical gas cutting. Machine shop of 1,200 m² with 10 m lathe and other machines Pipe and Electrical shop of 1,200 m² Warehouse of 2,400 m² with air-conditioned storage room, chemical & paint room. Open storage of 5,000 m²</p>

10	Quay Length / Depth	L Length = 300 m, Depth = 3.60 m
11	Manpower	Total : 94 persons Technical : 48 persons Non Technical : 46 persons University : 5 persons College : 2 persons Subcontractors : 3 companies with 200 persons
12	Products	Shipbuilding: Semi container of 4,180 DWT /208 TEU Black and white tankers from 950 up to 3,500 DWT Fire Fighting Tug of 2 x 2,100 HP Barges up to 4,000 DWT Ferries, Coaters and Landing crafts Ship repair: Docking and repair of any types ship up to 6,500 DWT able to be carried out Floating and Running repair any type and size Repair of Single Point Mooring Buoy Ship conversion: Heavy steel construction: Ship breaking: (future plan)
13	Financial Highlights	Total Asset : Rp. 6.4 Billion Equity : Rp. 5.1 Billion Annual Sales : Rp. 4.4 Billion
14	Other Information	Current activities : Shipbuilding: no activities (a lot of container for Caraka Jaya Project stacked at the open storage and covered storage as well. Ship repair: some ships are on the slipways, and floating for repair or waiting for owner supplied materials.

(9) PT. INGGOM SHIPYARD

1	Name of Company	PT. INGGOM SHIPYARD (Private)
2	Year Established	In 1964 under the name of PT. KAPIN and financed by a loan from Yugoslavia. Technology, machinery and equipment imported from them. Since 1975 the ownership changed and became the current name.
3	Status	PMDN
4	Capital	
5	Ownership/Shareholder	PT. NUGRA SANTANA
6	Address	Jl. R.E. Martadinata, Volker, Tg. Priok, Jakarta 14310
7	Main Facilities	Berth/Wharf Building Berth of 5,000 DWT – 1 unit Building Berth of 1,000 DWT – 4 units Docks Slipway of 1,500 TLC with 4 (four) berths Cranes Mobile Crane of 80 T - 1 unit Mobile Crane of 10 T - 1 unit Portal Crane of 10 T - 1 unit
8	Yard Capacity	Biggest ship built: Semi-container ship of 4,180 DWT/208 TEU Biggest ship docked: 500GT Number of ships repaired annually :
9	Working Area	
10	Quay Length / Depth	Length = 400 m, Depth =
11	Manpower	Total : 120 persons Technical : Non Technical : University : College : Subcontractors :

12	Products	Shipbuilding: Semi container of 4,180 DWT / 208 TEU Coasters 750 DWT and 950 DWT Tankers of 1,500 DWT Tugboats 2 x 1,600 HP FRP Cabin Cruisers Ship repair: Any type ships up to 2,000 DWT able to be docked and repaired
13	Financial Highlights	Total Asset :Rp. 5.9 Billion Equity : Rp. 5.1 Billion Annual Sales : Rp. 3.5 Billion
14	Other Information	Shipbuilding: Ship repair: Others:

(10) PT. ADILUHUNG SARANA SEGARA

1	Name of Company	PT. ADILUHUNG SARANA SEGARA (Private)
2	Year Established	1994
3	Status	PMDN
4	Capital	Rp. 7,500,000,000.00
5	Ownership/Shareholder	Shareholders
6	Address	Jl. Kabupaten, Desa Ujung Piring Bangkalan, Madura
7	Main Facilities	Berth/Wharf Wharf of 120 m length and 3.00 m depth Building Berth of 10,000 DWT (160 m x 50 m) – 1 units Docks Slipway of 1,200 TLC, (155 m x 19 m) - 1 unit, possibility to be extended longitudinally Cranes Mobile/Crawler of 40 T at 10 m – 2 units Telescopic JLG Lift of 12 m and 18 m – 2 units
8	Yard Capacity	Biggest ship built: Ro-Ro Ferry of 500 GT Biggest ship docked: 4,800 DWT Number of ships repaired annually: 40 units
9	Working Area	Total area: 150,000 m ² Administration building; Hull shop, equipped with rolling machine, cutting, press and welding machine; Machine shop, equipped with lathe, boring, milling, vertical boring, etc.
10	Quay Length/Depth	Length = 120 m, Depth = 3.00 m (zero tide)
11	Manpower	Total : 135 persons Technical : 105 persons Non Technical : 30 persons University : 25 persons College : 110 persons Subcontractors : 30 persons
12	Products	Shipbuilding: With the existing facilities ships of up to 125 m length and 10,000 DWT were built, e.g.: Tankers General cargoes Cutter suction dredger Tugboats Pilot boats Mooring boats Ro-Ro Ferries Fuel Oil Storage barge Work barge, etc Ship repair: Repairing, rehabilitations, conversions and rebuilding of any type ships with current facilities, up to 3,000 DWT able to be

		carried out. Other Engineering: As a sister company of PT. SRIKAYA PUTRA MAS (with a considerable experience in the manufacture and assembly of steel structure and industrial plant equipment, both mechanical and electrical in areas such as sugar industry, water supply treatment, energy, oil & gas); development in the utilization of the strategic location for offshore construction and maintenance to be considered.
13	Financial Highlights	Total Asset : Rp. 22.9 Billion Equity : Rp. 8.5 Billion Annual Sales : Rp. 18.0 Billion
14	Other Information	Compared with the location of shipyards with the same size in Surabaya along the shallow river, this yard has a depth of 12 m and will be increased to 16 m to allow the passage of ships of up to 40,000 DWT. It occupies a strategic location in Ujung Piring on Madura Island in the western channel between Surabaya and Madura.

(11) PT. SANUR MARINDO SHIPYARD

1	Name of Company	PT. SANUR MARINDO (Private)
2	Year Established	1956 as NV. Menara Trading Corporation, 1993 changed in management became as current name
3	Status	PMDN
4	Capital	Rp. 2,000,000,000.00
5	Ownership/Shareholder	Ny. Hj. Nur., H. Amru Bantara Siregar, H.Taripuddin Siregar, Azda Miranu Siregar, Ade Yulianti Siregar
6	Address	Jl. Kalimantan No.1 Tegal
7	Main Facilities	Berth/Depth Building Berth of 6,500 DWT, (150 m x 30 m) – 1 unit Docks: Dock 1 : Slipway of 1,700 DWT, (16 m x 75 m) – 1 unit Dock 2 : Double Slipway of 4,000 DWT, (30 m x 100 m) – 1 unit Dock 3 : Side Slipway of 750 DWT, (30 m x 75 m) – 1 unit Cranes: Crawler Crane of 37 T – 1 unit Mobile Crane of 7.25 T – 1 unit Overhead traveling crane of 5 T (each) – 2 units
8	Yard Capacity	Biggest ship built: Cargo Vessel of 1,000 DWT Biggest ship docked: Cargo vessel of 4,000 DWT, Steel Barge of 6,000 DWT Number of ships repaired annually : 28 units
9	Working Area	Total Area : 55,000 m ² Administration : 302 m ² Workshops : 4,395 m ² , including Plate shop with Precision Cutting Machine, Frame Bender of 15 T, Press Machine of 200 T, Machine shop with Lathe, Milling, Boring, Electrical shop, Pipe shop with pipe bending Machine, Wood shop, etc.
10	Quay Length / Depth	Length = 200 m, Depth =
11	Manpower	Total : 77 persons Technical : 37 persons Non Technical : 12 persons University : 6 persons College : 11 persons Subcontractors : 20 persons
12	Products	Shipbuilding: Cargo Coaster up to 4,000 DWT Barges up to 6,000 DWT

		Fishing vessel up to 500 GT Tugboat up to 2,000 HP Ship repair: Cargo Coaster of 1,000 DWT Steel Fishing Vessel of 170 GT Tugboat of 3,000 HP Steel Barge of 6,000 DWT Dredger and other type of ship with draught less than 4.00 m Other activities utilizing workshops as a subcontractor to other shipyards to carry out: Frame bending for hull construction, Plate press/roll for main – mast and other equipments and components.
13	Financial Highlights	Total Asset : Rp. 10.5 Billion Equity : Rp. 11.0 Billion Annual Sales : Rp. 10.0 Billion
14	Other Information	Current activities: Shipbuilding: Ship repair: Others:

(12) PT. DAYA RADAR UTAMA

1	Name of Company	PT. DAYA RADAR UTAMA (Private)
2	Year Established	1975
3	Status	PMDN
4	Capital	
5	Ownership/Shareholder	
6	Address	Office / Yard Unit I: Jl. R.E. Martadinata, Tanjung Priok, Jakarta 14310
7	Main Facilities Berth / Wharf Building Berth of 850 DWT (62 m x 16 m) – 1 unit Dock: Graving Dock of 8,000 T (130 m x 23 m x 8.5 m) – 1 unit Cranes: Mobile Crane of 35 T – 2 units Overhead crane of 4.5 T at 20 m	
8	Yard Capacity	Biggest ship built: Ferry Ro-Ro of 600 GT Biggest ship docked: Number of ships repaired annually:
9	Working Area	
10	Quay Length /Depth	
11	Manpower	
12	Products	Shipbuilding: building of steel and FRP ships up to: Passenger/Ro-Ro Ferry from 150 up to 600 GT Coaster of 350 and 500 DWT Mooring Boat, Pilot Boat, FRP Patrol Boat, Pilot Boat, Transport Vessel, Marking Buoy, Spar Buoy Floating Quay , Etc. Ship repair:
13	Financial Highlights	Total asset : Rp. 3.5 Billion Equity : Rp. 1.6 Billion Annual Sales : Rp. 16.2 Billion (Including activity as supplier)
14	Other Information	Current Activities: Shipbuilding: under construction Pioneer Ship Project Coaster of 500 DWT – 2 units Ship repair: Others:

(13) PT. MARIANA BAHAGIA

1	Name of Company	PT. MARIANA BAHAGIA (Private)
2	Year Established	1980
3	Status	PMDN
4	Capital	Rp. 1,000,000,000.00
5	Ownership/Shareholder	Johson W. Sutjipto : 48 % Yonhlee W. Sutjipto : 40 % Elly Tetty : 12 %
6	Address	Jl. Pasar 16 Ilir No. 571/I, Palembang 30122
7	Main Facilities	Berth / Wharf Building Berth of 1,000 T each – 2 units Building Berth of 300 T - 1 unit Docks Slipway of 1,000 T each – 3 units Cranes Crawler Crane of 30 T - 1 unit All Terrain Crane of 20 T - 1 unit Overhead Electric Crane of 5 T each – 2 units
8	Yard Capacity	Biggest ship built: Biggest ship docked: 1,200 DWT Number of ships repaired annually: 52 units
9	Working Area	Total Area of 35,000 m ² Workshops for Plate work with Electro Hydraulic Press of 200 T – 1 unit, Hydraulic Press of 60 T – 1 unit, Plate Roller up to 10 mm, Machine shop with lathes, milling, grinding, drilling, Mould Loft of 1 x 1,000 T and 1 x 300.
10	Quay Length / Depth	Length = 30 m, Depth = 3.00 m (high water)
11	Manpower	Total : 130 persons Technical : 100 persons Non Technical : 30 persons University : 11 persons College : 2 persons Subcontractors : N/A
12	Products	
13	Financial Highlights	Total Asset : Rp. 3.6 Billion Equity : Rp. Annual Sales : Rp. 4.7 Billion
14	Other Information	Current Activities: Shipbuilding: Under construction Ferry Ro-Ro of 400 GT, Shell plate erection Keel block preparation for Keel Laying of 500 DWT Pioneer Ship Project Ship repair: No ships on the slipways, Ships along the berth are for floating repair

(14) PT. GALANGAN BALIKPAPAN UTAMA

1	Name of Company	PT. GALANGAN BALIKPAPAN UTAMA (Private)
2	Year Established	1974
3	Status	PMDN
4	Capital	
5	Ownership/Shareholder	Rahim Theodorus
6	Address	Jl. W. Monginsidi RT. 08 No. 07 Kampung Baru Ujung, Balikpapan
7	Main Facilities	
8	Yard Capacity	Biggest ship built: 434 GT(650 DWT) Biggest ship docked: 2,000 DWT Number of ships repaired annually: 60 units

9	Working Are	Total Area: 16,000 m ² (Unit I) 72,000 m ² (plan for Unit II)
10	Quay Length/Depth	Unit I : Length = 60 m, Depth = - 2 units Unit II: Length = 75 m, Depth = - 1 unit
11	Manpower	Total : 81 persons Technical : 64 persons Non Technical : 15 persons University : 1 person College : 1 person Subcontractors : 40 persons
12	Products	
13	Financial Highlights	Total asset : Rp. 25.0 Billion Equity : Rp. 1.5 Billion Annual Sales : Rp. 8.0 Billion
14	Other Information	Current Activities: Shipbuilding: no activities Ship repair: On the Slipway, Flat Top Barge under repair for plate renewal on decks and side shell Repairs on 3 or 4 ships along the berth are carried out floating repair.

(15) PT. BEN SENTOSA

1	Name of Company	PT. BEN SANTOSA SURABAYA (Private)
2	Year Established	1993
3	Status	PMDN
4	Capital	
5	Ownership/Shareholder	
6	Address	Jl. Nilam Barat Baru No. 20 Tanjung Perak, Surabaya 60165
7	Main Facilities	Berth / Wharf Building Berth of 200 GT Docks Graving Dock of 3,500 DWT : (84 m x 20 m x 5 m) – 1 unit Cranes Mobile Crane of 20 T
8	Yard Capacity	Biggest ship built: 240 GT Biggest ship docked: Number of ships repaired annually:
9	Working Area	Total Area of 10,000 m ²
10	Quay Length / Depth	Length = 60 m, Depth =
11	Manpower	
12	Products	Shipbuilding : Fishing Vessel of 120 GT Log Barge of (60 m x 16 m x 3 m) Ship repair : Cargo vessels, Ferry Ro-Ro, Tugboats, Fishing Vessels, Tankers, Cruisers witch are made of steel, aluminum, wood or FRP.
13	Financial Highlights	Total asset : Rp. 1.4 Billion Equity : Rp. 1.2 Billion Annual Sales :
14	Other Information	Current Activities: Shipbuilding: Ferry Ro-Ro start construction Ship repair: in the graving dock 3 ships are docked Repairs are carried out along the berth on floating dock.

(16) PT. PATRA DOK DUMAI

1	Name of Company	PT. PATRA DOK DUMAI (Persero)
2	Year Established	1995
3	Status	PMDN
4	Capital	Rp. 28,712,106,405.00
5	Ownership/Shareholder	Pertamina
6	Address	Jl. Dockyard, Pangkalan Sesai, PO.BOX 3 Dumai 28801
7	Main Facilities Berth / Wharf: Length = 370 m, Depth = 4.00 m Docks: loading Dock of 20,000 TLC – 1 unit Cranes: antry Crane of 12.5 T each – 2 units Heavy Transporter of 10 T each – 6 units	
8	Yard Capacity	Biggest ship built: Not Available Biggest ship repaired: 17,700 DWT Number of ships repaired annually: 30 units
9	Working Area	Total Area: 3,000,000 m ²
10	Quay Length / Depth	Length = n.a., Depth = 5.0 m (zero tide)
11	Manpower	Total: 106 persons Technical: 74 persons Non Technical: 13 persons University: 12 persons College: 7 persons Subcontractors : 158 persons
12	Products	Shipbuilding: No activities for shipbuilding Ship repair: Most are Tankers (80%) Cargoes (10%) Barges (10%) After 2001 (separated from Pertamina) Tankers (60%) Cargoes (20%) Barges (20%)
13	Financial Highlights	Total Asset: Rp. 28.7 Billion Equity: Annual Sales: Rp. 26.5 Billion
14	Other Information	Current Activities: Shipbuilding: not available Ship repair: The dock is occupied with two small ships The capacity of the dock is not fully utilized, due to its condition.