Table A-9.10 ESTIMATED PROJECT COST OF MACHINING

		(UNIT	: US\$1,0
			· 039 X 7 0
Item	Foreign	Local	Total
. Plant direct cost			
(1) Equipment, materials	3,586.9	400	3,586.9
(2) Spare parts	71.7		71.7
(3) Ocean freight,	57.5		57.5
Insurance	68.1	_	68.1
Inland transportation		23.0	23.0
(4) Civil & erection	26.0	856.7	882.7
(5) Office accommodation & facilities	-	71.7	71.7
(6) Engineering & Supervising	225.5	_	225.5
(7) Over head expense (10%)	403.6	95.1	498.7
Sub-total	4,439.3	1,046.5	5,485.8
			•
. Tax and duty	•		
(1) Import tax (CIFx10%)		378.4	378.4
(2) Import sales tax (CIFx10%)	-	378.4	378.4
(3) Value added tax (Localx10%)	· -	104.7	104.7
Sub-total		861.5	861.5
. Working capital (3 months of variable cost)	-	403.7	403.7
. Contingency & other (20%)	887.8	462.3	1,350.1
Grand-total	5,327.1	2,774.0	8,101.1
Production capacity (T/Y)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		639
Investment cost per ton of product (\$/T)			12,700

Table A-9.11 ESTIMATED PROJECT COST OF SHEET WORKING (SHEET WORK & WELDING)

		(Unit:	US\$1,000
Item	Foreign	Local	Total
		-	
			420.1
•			8.
		-	7.5
			13.
			3.0
	· ·	-	
			8.4
,			40.4
(7) Over head	50.5	40.3	90.8
Sub-total	555.1	443.7	998.
Tax & duty			
	 '	44.9	44.9
		44.9	44.9
(3) Valve added tax Local	_~	44.4	44.
Sub-total		124 2	134,2
oup-cocar	_	134.2	134.4
Working capital (3 months of variable cost)	.	290.9	290.9
Contingency & other (20%)	111.0	173.8	284.8
Total	666.1	1,042.6	1,708.
	Plant direct cost (1) Equipment & material (2) Spare parts (3) Ocean freight	Plant direct cost (1) Equipment & material 420.1 (2) Spare parts 8.4 (3) Ocean freight 7.5	Plant direct cost

Table A-9.12 ESTIMATED PROJECT COST OF PRESS WORK (SMALL PARTS)

		rinu)	us\$1,00
Item	Foreign	Local	Total
. Plant direct cost			
(1) Equipment, materials	468.2		468.2
(2) Spare parts	17.0	-	17.0
(3) Ocean freight,	9.3		9.3
Insurance	11.7	••	11.7
Inland transportation	-	3.7	3.7
(4) Civil & erection	10.0	277.9	287.9
(5) Office accommodation & facilities	 -	9.5	9.5
(6) Engineering & Supervising	17.8	**	17.8
(7) Over head expense (10%)	53.4	29.1	82.5
Sub-total	587.4	320.2	907.6
May and July			
. Tax and duty (1) Import tax (CIFx10%)		48.8	48.8
(2) Import sales tax (CIFx10%)		48.8	48.8
(3) Value added tax (Localx10%)	_	32,0	32.0
(3) Value daded our (Boodinies)			
Sub-total	-	129.6	129.6
. Working capital (3 months of variable cost)	, mark	366.0	366.0
. Contingency & other (20%)	117.5	163.1	280.6
Grand-total	704.9	978.9	1,683.8
Production capacity (T/Y)			1,380
Investment cost per ton of product (\$/T)			1,220

Table A-9.13 ESTIMATED PROJECT COST OF STEEL FABRICATION

	<u></u>	(UNIT	: US\$1,000)
Item	Foreign	Local	Total
1. Plant direct cost			
(1) Equipment, materials	679.1	_	679.1
(2) Spare parts	25.5	-	25.5
(3) Ocean freight,	26.3	***	26.3
Insurance	42.5	_	42.5
Inland transportation		10.5	10.5
(4) Civil & erection	75.1	2,054.5	2,129.6
(5) Office accommodation & facilities	-	13.6	13.6
(6) Engineering & supervising	74.5	_	74.5
(7) Over head expense (10%)	92.3	207.9	300.2
Sub-total	1,015.3	2,286.5	3,301.8
2. Tax and duty			
(1) Import tax (CIFx10%)	***	77.3	77.3
(2) Import sales tax (CIFx10%)	-	77.3	77.3
(3) Value added tax (Localx10%)	***	228.7	228.7
Sub-total		383.3	383.3
3. Working capital (3 months of variable cost)	-	325.8	325.8
4. Contingency & other (20%)	203.1	595.1	798.2
Grand-total	1,218.4	3,590.7	4,809.1
Production capacity (T/Y)			1,500
Investment cost per ton of product (\$/T)			3,210

Table A-9.14 EQUIPMENT & MACHINERY LIST OF SMALL SCALE CASTING

Section	Name	Quantity	Specification
Melting	High Frequency Furnace	1.	0.5T Reserves Furnace Body
-	CE Meter	1	
	Imersion Pyrometer	1	1700°C
	Ladle	2	0.5T, Top pouring
Sand Preparation			
& Molding	Sand Preparation Unit	l set	ЗТ/Н Мах
-	Platform Scale (1)	1	50kg Max
	Platform Scale (2)	1	250kg Max
Trimming	Shot Blast	l set	150kg/Batch
· ·	Double Head Grinder	1	Wheel 405¢ x 50
			1960 r.p.m.
	Air Grinder (1)	1	Wheel 100ø 9000 r.p.m.
	Air Grinder (2)	1	Wheel 150ø 7200 r.p.m.
Inspection	Movable Compressor	1	5.5 - 7kg/cm ²
Handling	Hoist (1)	1	2T
·	Hoist (2)	1	1T
	Forklift	1	1T
Utilities	Sub-station	1	3000V + 220V (600kVA)

Table A-9.15 ESTIMATED PROJECT COST OF SMALL SCALE CASTING

	Item	Foreign	Local	Total
1.	Plant direct cost			
-	(1) Equipment, materials	424		424
	(2) Spare parts	15		15
	(3) Ocean freight,	8	···	8
	Insurance	6		6
	Inland transportation	•	3	3
	(4) Civil & erection	21	418	439
	(5) Office accommodation & facilities	·	8	8
	(6) Engineering & supervising	32		32
	(7) Over head expense (10%)	51	_43	94
	Sub-total	557	472	1,029
2.	Tax and duty			
	(1) Import tax (CIFx10%)	_	45	45
	(2) Import sales tax (CIFx10%)		45	45
	(3) Value added tax (Localx10%)	<u></u>	47.2	47.2
	Sub~tota1	-	137.2	137.2
3.	Working capital (3 months of variable cost)	-	47	47
4.	Contingency & other (20%)	111	131.2	242.2
	Grand-total	668	787.4	1,455.4

Table A-9.16 EQUIPMENT & MACHINERY LIST OF SCREW & RIVET SHOP

	Name	Q'ty	Specification
1.	Cold header	1	6 x 60 Double stroke cold header (3.7kW + 0.75kW)
2.	Tumbling machine	1	$0.4m^3 \times 15 - 20$ rpm $(0.75$ kW)
3.	Rolling machine	1	6 x 35 Inclined type motor drive (0.75kW)
4.	Die	5	For M6, M5, M4, M3 & M2.6
5.	Measuring tools & inspection tools	l set	Screw gauge, Dial gauge, Measuring microscope, etc
5 .	Electric receiving unit	1	(10kVA)

Table A-9.17 ESTIMATED PROJECT COST OF SCREW/RIVET

Item	Foreign	Local	Total
1. Plant direct cost			
(1) Equipment, materials	60.0		60.0
(2) Spare parts	1.2		1.2
(3) Ocean freight,	0.5		0.5
Insurance	0.9	- .	0.9
Inland transportation		0.2	0.2
(4) Civil & erection	3.0	49.9	52.9
(5) Office accommodation & facilities	-	1.2	1.2
(6) Engineering & supervising	6.5	- :	6.5
(7) Over head expense (10%)	7.2	5.1	12.3
Sub-total	79.3	56.4	135.7
2. Tax and duty	·		
(1) Import tax (CIFx10%)	-	6.3	6.3
(2) Import sales tax (CIFx10%)	-	6.3	6.3
(3) Value added tax (Localx10%)		5.6	5.6
Sub-total		18.2	18.2
3. Working capital (3 months of variable cost)	-	9.9	9.9
4. Contingency & other (20%)	15.9	16.9	32.8
Grand-total	95.2	101.4	196.6

Table A-9.18 EQUIPMENT & MACHINERY LIST OF PRESS WORK SHOP

	Name	Q'ty	Specification
1.	Press brake machine	2	80 ton Hydrostatic press (18.5kW)
2.	Shearing machine	1	6 x 2.5 Mechanical shearing machine (5.5kW)
3.	Bench type drilling machine	1	Bit dia = 20ø (0.75kW)
4.	Welding machine	2	Arc. spot welder (100V-10A)
5.	Welding machine	1	Arc. welder (24.5kVA)
6.	Die	10	
7.	Measuring tools	1	
8.	Electric receiving unit	1	(100kVA)

Table A-9.19 ESTIMATED PROJECT COST OF PRESS (SMALL ITEMS BY THIN PLATE)

Item	Foreign	Local	Total
1. Plant direct cost (1) Equipment, materials	110.0		110.0
		. -	
(2) Spare parts	2.0	-	2.0
(3) Ocean freight,	3.2	-	3.2
Insurance Inland transportation	1.7	1.3	1.7 1.3
(4) Civil & erection	5.6	77.2	82.8
(5) Office accommodation & facilities	_	2.2	2.2
(6) Engineering & supervising	8.5	-	8.5
(7) Over head expense (10%)	13.1	_8.1	21.2
Sub-total	144.1	88.8	232.9
2. Tax and duty			
(1) Import tax (CIFx10%)	-	11.7	11.7
(2) Import sales tax (CIFx10%)	-	11.7	11.7
(3) Value added tax (Localx10%)		8.9	8.9
Sub-total	-	32.3	32.3
3. Working capital (3 months of variable cost)	· -	28.5	28.5
4. Contingency & other (20%)	28.8	29.9	58.7
Grand-total	172.9	179.5	352.4

Table A-9.20 EQUIPMENT & MACHINERY LIST OF PLATING SHOP

(1/2)

Section	Name	Q'ty	Specification
Plating	Bath for Alkali		
-	Decreasing	1	1200 x 900 x 600H, SS + PVC
	Bath for Rinsing	19	600 x 600 x 600H, PVC
	Bath for Piclking	1	900 x 600 x 600H, PVC
	Bath for Electrolytic		·
	Decreasing	1	900 x 600 x 600H, SS + PVC
	Bath for Cyanide Zinc		
	Plating	1	1200 x 1200 x 800H, SS + PVC
	Bath for Rinsing	1	600 x 1200 x 800H, SS + PVC
	Bath for Hot Rinsing	ı	600 x 600 x 600H, SUS304
		Т	000 X 000 X 00011 B0D304
	Barrel for Cyanide Zinc	2	1400 - CEOT - DUC
4	Plating	3	ø400 x 650L, PVC
	Cage	40	ø300 x 200H, SUS304
	Carrier (Hand Movable)	1	
	Driving Device of Barrel		0.001.0
	Rotation	1	0.25kW
	Rectifier for	_	
	Electrolytic Decreasing	1	10V x 300A
	Rectifier for Cyanide		
	Zinc Plating	ing 1 12V x 600A	12V x 600A
	Filter for Electrolytic		
	Decreasing	1.	700 1/Hr, 0.18kW
	Filter for Cyanide Zinc		
	Plating	1	3500 1/Hr, 0.265kW
	Heater for Alkali		
	Decreasing	2	3kW x 2
	Heater for Electrolytic		· .
	Decreasing	1	3kW
	Heater for Hot Rinsing	1	3kW
	Cooler for Cyanide Zinc		
	Plating	1	Air Cooling Type 1.5kW
	Centrifugal Dehydrator	1	Motor: 2.2kW
			Heater: 5kW
	Cage for Centrifugal		
	Dehydrator	2	ø550 x 300H, SUS304
	Showering Tower for	-	
	Electrolytic Decreasing		
	and Pickling	1	Pump: 0.2kW
	and crossing	- Sa.	Fan: 0.75kW
	Showering Tower for		The second secon
	Cyanide Zinc Plating	1	Pump: 0.2kW, Fan: 0.75kW
	Water Tank	1	3m ³ Pannel Tank, 1m x 3m x 1m
	Cubicle	1	70kVA
	· · · · · · · · · · · · · · · · · · ·		1444
	Pannel Board	1	

Table A-9.20 (Continued)

(2/2)

Section	Name	Q'ty	Specification
Drainage	Primary and Third		
·	Reacting Tank	2	550 x 550 x 700H, PVC
	Secondary Reacting Tank,		
	Primary pH Tank and		
	Coagulating Tank	3	750 x 750 x 900H, PVC
	Secondary pH Regulating		
	Tank	1	1000 x 1000 x 900H, PVC
	Reducing Tank	1	400 x 400 x 600H, PVC
	Chemicals Tank	6	N-100, 100 l Poly-tank
	Pump for Water	8	0.2kW x 8
	Pump for Chemicals	14	0.065kW x 14
•	Plunging Pump of		
	Calcium Hydrate	1	0.2kW
	Dehydrator	1	Pump: 3.7kW
			Oil Pressure 1.5kW
	Agitator	10	0.1kW x 10
	Agitator for Secondary		
	pH Tank	1	0.2kW
	pH Meter	7	0 - 14pH
	ORP Meter	4	±700 micro V
	pH Recorder	1	0 - 14 pH
	Flow Meter	7	PVC/PVC
	Level Switch	10	PVC Float
	Control Pannel Board	1	Outdoors Self-Standing Double Door Type
Common			
facilities for			
plating and		_	
drainage	Valve		15A - 40A, PVC
	Materials for Piping		15A - 50A, PVC
	Framwork		SS + Tar Epoxy Paint, PVC
	Copper Bus-bar		5T x 50W
	Copper Cable	1 lot	

Table A-9.21 ESTIMATED PROJECT COST OF ELECTROPLATING

	Item	Foreign	Local	Total
1.	Plant direct cost		-	
	(1) Equipment, materials	97.0	-	97.0
	(2) Spare parts	2.9		2.9
	(3) Ocean freight,	3.4	-	3.4
	Insurance	1.5		1.5
	Inland transportation	-	1.3	1.3
	(4) Civil & erection	28.9	37.4	66.3
	(5) Office accommodation & facilities		1.9	1.9
	(6) Engineering & supervising	34.5	-	34.5
	(7) Over head expense (10%)	16.8	4.1	20.9
	Sub-total	185.0	44.7	229.7
2.	Tax and duty			
	(1) Import tax (CIFx10%)		10.5	10.5
	(2) Import sales tax (CIFxl0%)	-	10.5	10.5
	(3) Value added tax (Localx10%)	<u> </u>	4.5	4.5
	Sub-total	-	25.5	25.5
3.	Working capital (3 months of variable cost)	-	2.7	2.7
4.	Contingency & other (20%)	37.0	14.6	51.6
	Grand-total	222.0	87.5	309.5

Table A-9.22 MACHINERY LIST OF FILTER MANUFACTURING FACTORY

وروه و و و و و و و و و و و و و و و و و و	
Existing machinery	
1. Press machine 35T	1
2. Press machine 16T	2
3. Press machine 10T	1
4. Press machine 6.3T	2
5. Lathe	1
6. Folding machine	1
7. Drilling machine	1
8. Spot welder	2
9. Transformer for welding	1
10. Hand press	6
Additional machinery	
Additional machinery	
1. Power press machine, 70T x 165 strokes	2

Table A-9.23 ESTIMATED EXPANSION COST OF FILTER MANUFACTURING FACTORY

Item	Foreign	Local	Total
1. Plant direct cost		<u> </u>	
(1) Equipment, materials	23.5	⊸	23.5
(2) Spare parts	1.5	- .	1.5
(3) Ocean freight,	0.5	-	0.5
Insurance	0.5	-	0.5
Inland transportation	-	0.1	0.1
(4) Civil & erection	-	20.0	20.0
(5) Office accommodation & facilities	-	0.5	0.5
(6) Engineering & supervising	2.4	-	2.4
(7) Over head expense (10%)	2.8	2.1	4.9
Sub-total	31.1	22.7	53.8
2. Tax and duty	i i		
(1) Import tax (CIF x 10%)	-	2.6	2.6
(2) Import sales tax (CIF x 10%)	-	2.6	2.6
(3) Value added tax (Local x 10%)	-	2.3	2.3
Sub-total		7.5	7.5
3. Working capital additional		45.0	45.0
4. Contingency & other (20%)	6.2	15.0	21.2
Grand-total	37.3	90.2	127.5

Table A-9.24 MACHINERY LIST OF PUMP MANUFACTURING FACTORY

(Foundry Equipment)

Item	Q'ty	Description				
1.	2	High frequency induction furnace 350 kW, 2 x 500 kg complete set				
2.	1	High frequency induction furnace 500 kW, 2 x 1,500 kg complete set				
3.		Laboratory equipment l spectrometer l current pulse generator l micro processor l printer l visual display				
4.	1	CE temperature meter				
5.	1	Induction holding unit				
6.	1	Moulding system				
7.		Core making 1 sand mixing machine 3 table 1 core shelf 1 core drying furnace				
8.		Sand treatment plant 1 sand mixing machine 1 pneumatic sand transport				
9.		Surface cleaning and fettling 5 small shot blast machine 1 grinding machine 1 vise 1 stationary grinding machine 1 shot blast machine 10 hand grinding machine 1 HF installation				
10.	1	Gust-apparatus 1,000 Amp. 1 ventilator				
11.	1.	Rolling conveyor				
12.	3	Overhead crane				
13.	1	Wall crane				
14.		Other equipment				
15.	1	Compressor with piping				
16.	3	Pouring ladle				
17.		Cope and drug				

Table A-9.25 MACHINERY LIST OF PUMP MANUFACTURING FACTORY

(Machine Shop and Assembly Shop Plant and Equipment)

Item	Q'ty	Description			
1.	6	Lathe, Centre height 255 mm, Centre distance 1,000 mm, Motor power 10 HP			
2.	1	Lathe, Centre height 255 mm, Centre distance 3,000 mm, Motor power 10 HP			
3.	ı	Lathe, Centre height 300 mm, Centre distance 6,000 mm, Motor power 15 HP			
4.	2	Lathe, Centre height 420 mm, Centre distance 1,500 mm, Motor power 20 HP			
5.	1	Lathe, Centre height 500 mm, Centre distance 4,000 mm, Motor power 40 HP			
6.	1	Lathe, Centre height 800 mm, Centre distance 4,000 mm, Motor power 75 HP			

Table A-9.26 ESTIMATED COST OF PUMP MANUFACTURING FACTORY

Item	Foreign	Local	Total
1. Plant direct cost			
(1) Equipment, materials	1,945.0	***	1,945
(2) Spare parts	82.7		82.7
(3) Ocean freight,	50.0	_	50.0
Insurance	60.0		60.0
Inland transportation	-	40.0	40.0
(4) Civil & erection	-	1,350.0	1,350.0
(5) Office accommodation & facilities		15.0	15.0
(6) Engineering & supervising	300.0		300.0
(7) Over head expense (10%)	243.8	140.5	384.3
Sub-total	2,681.5	1,545.5	4,227.0
2. Tax and duty			
(1) Import tax (CIF x 10%)	-	213.8	213.8
(2) Import sales tax (CIF x 10%)		213.8	213.8
(3) Value added tax (Local x 10%)		154.6	154.6
Sub-total	-	582.2	582.2
3. Working capital additional	_	900.0	900.0
4. Contingency & other (20%)	536.3	605.5	1,141.8
Grand-total	3,217.8	3,633.2	6,851.0

Table A-9.27 MACHINERY LIST OF SWITCHGEAR MANUFACTURING FACTORY
FABRICATION AND PAINTING SHOP (EXISTING EQUIPMENT) (1/2)

No.	Q'ty	Name
1.	2 sets	20 Ton Power Press
2.	3 sets	15 Ton Power Press
3.	l set	Cutting Machine
4.	2 sets	Spot Welder
5.	l pce	Cutting Machine
6.	l pce	Bending Machine
7.	2 pcs	Painting Oven
8.	l pce	Cutting Machine
9.	1 pce	Bending Machine
10.	l pce	Testing Equipment
11.	l pce	M/C Derset GM
12.	1 pce	Spot Welder Merk Aro
13.	l pce	Spot Welder Merk Moller
14.	l pce	Compressor Hitachi
15.	1 pce	Hydrolic Machine
16.	1 set	LVD Hydrolic Press Prizo 70/30
17.	l set	LVD Hydrolic Quiletine MPB 2500
18.	l set	LVD Trump Nibling
19.	1 pce	Compressor
20.	1 pce	Novo Press Machine
21.	l pce	Spot Welder
22.	l pce	Bending Machine for Acrilic
23.	1 pce	Cutting Machine
24.	2 pcs	Hand Pallet Opel
25.	l pce	Screw Compressor
26.	4 pcs	AC ARC Welder
27.	3 pcs	Spot Welder
28.	1 pce	Spot Welder
29.	1 pce	Spot Welder
30.	1 pce	Cutting Machine For
31.	2 pcs	Grindstone Machine
32.	1 pcs	Sawing Machine
33.	2 pcs	Drilling Machine
34.	1 pce	Power Press Machine
35.	1 set	Auto Shear
36.	l set	Auto Bender
37.	3 pcs	25 Ton Power Press
38.	1 pce	16 Ton Power Press
39.	l pce	6.3 Ton Power Press

Table A-9.27 (Continued)

(2/2)

No.	Q'ty	Name
40.	3 pcs	3.15 Ton Power Press
41.	1 pce	Spot Welding Toa Seiki
42.	2 pcs	CO2 Welding TS ARC
43.	1 pce	Cutting Machine for Equal Angel Bor

Note: Equipment and machineries in perolatan work shop and laboratory were deleted.

FABRICATION AND PAINTING SHOP (NEW EQUIPMENT)

No.	Q'ty	Name
1.	2 sets	Equipment for Press Brake (Amada Meteres)
2.	l set	Painting Equipment, Drying Furnase and Power Coating Equipment

Table A-9.28 ESTIMATED EXPANSION COST OF SWITCHGEAR FACTORY

Item	Foreign	Local	Total
1. Plant direct cost			
(1) Equipment, materials	167.0	-	167.0
(2) Spare parts	8.5		8.5
(3) Ocean freight,	0.3	-	0.3
Insurance	2.6		2.6
Inland transportation	_	0.1	0.1
(4) Civil & erection	50.0	950.0	1,000.0
(5) Office accommodation & facilities	-	19.0	19.0
(6) Engineering & supervising	16.7	-	16.7
(7) Over head expense (10%)	24.5	96.9	121.4
Sub-total	269.6	1,066.0	1,335.6
2. Tax and duty			
(1) Import tax (CIF x 10%)	-	17.8	17.8
(2) Import sales tax (CIF x 10%)	-	17.8	17.8
(3) Value added tax (Local x 10%)	~	106.6	106.6
Sub-total	~	142.2	142.2
3. Working capital additional	_	630.0	630.0
4. Contingency & other (20%)	53.9	367.6	421.5
Grand-total	323.5	2,205.8	2,529.3

Part IV ANNEX

CONTENT

PART IV ANNEX

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 - 1-2 MEMBER LIST OF STEERING COMMITTEE OF THE STUDY ON THE DEVELOPMENT OF LINKAGE-TYPE INDUSTRIES
 - I-3 LIST OF GOVERNMENT ORGANIZATION VISITED BY THE TEAM
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- ANNEX II BASIC DATA FOR ECONOMY AND INDUSTRY IN INDONESIA
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- ANNEX IV RESULTS OF QUESTIONNAIRE TO LARGE-SCALE INDUSTRY AND MEDIUM- AND SMALL-SCALE INDUSTRY
- ANNEX V BACK DATA FOR DELETION PROGRAM

ANNEX I PERFORMANCE LIST OF LOCAL SURVEY

ANNEX I-1

MEMBER LIST OF JICA TEAM

- 1. Coordination group
 - M. SAKANASHI (Team Leader/Project Management)
 - S. INAKAZU (Sub-leader of the Team/Senior Project Engineer)
 - H. TANAKA (Residential Coordinator/Economist)
 - T. USHIJIMA (Technical Group Leader/Electrical Engineer)
- 2. Financial group
 - J. KUWABARA (Economist)
 - S. ISHII (Economist)
- 3. Technical group 1
 - M. IMOTO (Metalworking Senior Engineer)
 - S. KOHARA (Mechnical Engineer)
- 4. Technical group 2
 - M. HAGINO (Senior Project Engineer)
 - M. NAGATOMO (Transportation Machine Engineer)
- 5. Technical group 3
 - H. ENDO (Metalworking Engineer)
 - T. SETO (Metalworking Engineer)

MEMBER LIST OF STEERING COMMITTEE

o.f.

THE STUDY ON THE DEVELOPMENT OF LINKAGE-TYPE INDUSTRIES

Chairman : Mr. Tuk Setyohadi
Secretary General
Ministry of Industry (MOI)

Ministry of Industry (MOI)

Vice Chairman : Mr. Bachrum S. Harahap Special Assistant to Minister, MOI

Committee Secretary : Mr. A.S. Siagian
Head, Bureau of International
Cooperation, MOI

Committee Members :

1. Mr. Tata C. Syarief, Director of Programme Development,
SE Directorate General of Machinery and
Basic Metal Industry, MOI

2. Ir. Soesanto Sahardjo Director of Programme Development,
Directorate General of Multifarious
Industries, MOI

3. Ir. Soenaryo Director of Programme Development
Directorate General of Basic Chemical
Industry, MOI

4. Mr. Djoko Mulyanto Director of Programme Development,
Directorate General of Small Scale
Industry, MOI

5. Drs. Muchlis Tahar Head of Industrial Research Center, Agency for Industrial Research and Development, MOI

6. Mr. Ilchaidi Elias S.E. Head, Bureau of Planning, MOI

7. Mrs. Buli O. Director for External Fund Foreign Surjaatmaja Monetary Fund, Ministry of Finance

8. Dr. Ir. Bambang Purnomo Head, Bureau of Industry, Mining and Electric Energy, BAPPENAS

9. Ir. Mansjurdin Nurdin Deputy General manager and of General Credit Department, Bank Indonesia

10. Drs. Wahid Salim

Head of the Inter-Governments

Department, Cabinet Secretariat of
R.I.

ANNEX I-3

LIST OF GOVERNMENT ORGANIZATION

VISITED BY THE TEAM

MINISTRY OF INDUSTRY

Secretary General

Bureau of International Cooperation

Bureau of Planning

Agency for Industrial Research and Development

Directorate General of Machine and Basic Metal Industry

Directorate of Programming
Directorate of Machine Industries

Directorate of Electrical Equipment and Electronic Industries

Directorate of Land and Air Transportation Industry

Directorate of Ship Building Industries

Directorate General of Multifarious Industry

Directorate of Programming
Directorate of Electrical Equipment and Metal Industries

Directorate General of Small-scale Industry

Directorate of Programming
Directorate of Metal-working Industries

REGIONAL OFFICE OF DEPARTMENT OF INDUSTRY (KANWIL)

KANWIL DKI JAKARTA JAKARTA KANWIL WEST JAVA BANDUNG SEMARANG KANWIL CENTRAL JAVA KANWIL EAST JAVA SURABAYA KANWIL YOGYAKARTA YOGYAKARTA MEDAN KANWIL NORTH SUMATERA KANWIL EAST KALIMANTAN BALIKPAPAN UJUNG PANDANG KANWIL SOUTH SULAWESI

MINISTRY OF FINANCE Jl. Lapangan Banteng Timur 2-4

Directorate General of Foreign Monetary Fund

Directorate of External Fund

Directorate General of Domestic Monetary Fund

Directorate of Financial Institution Directorate of Investment

BKPM (Investment Coordination Board)

Bureau of Promotion

ANNEX I-4

LIST OF FINANCING ORGANIZATION VISITED BY THE TEAM

No.	Name of Organization	Address
1.	Bank Indonesia	Jl. M.H. Thamrin 2 Jakarta
2.	Bank Indonesia, Surabaya Office	Jl. Pablewan No.105 Surabaya
3.	Bank Negara Indonesia 1946 Surabaya Branch and Surabaya Resional Office	J1. Pemuda No.36
4.	Bank Dagang Negara Surabaya Branch	Jl. Kemban Jepur 168
5.	Bank Pembangunan Daerah of East Jawa Office	Jl. Garuda No.l Surabaya
6.	Bank of Tokyo	Nusantara Building Jl. M.H. Thamrin No.59, Jakarta
7.	OECF	Nusantara Building Jl. M.H. Thamrin No.59, Jakarta
8.	Bank Bumi Daya Central Office	Jl. Imam Bonjol No.61 Jakarta
9.	Bank Pembangunan Indonesia Central Office	Jl. Gondangdia Lama 2-4, Jakarta
10.	World Bank Jakarta Office	Jl. H.R. Rasuna Said (Lippo Bldg.)
11.	Bank Expor Impor Indonesia Central Office	Jl. Lapangan Setasiun l, Jakarta-Kota
12.	Bank Rakyat Office Central Office	Jl. Veteran No.8, Jakarta Pusa

No.	Name of Organization	Address
	P.T. Asuransi Kredit Indonesia	Jl. Cikini Raya No.99 Jakarta Pusat
	Bank Duta Ekonomi Head Office	Jl. Kebon Sirih 12, Jakarta
15.	Overseas Express Bank	Jl. Pecenongan No.84 Jakarta
	Bank Indonesia, Bandung Office and RPMUs - Jabar	Jl. Braga, Bandung
	Bank Negara Indonesia Bandung Regional Office and Bandung Branch	J1. Braga No.133, Bandung
	Bank Dagang Negara Bandung Branch	Jl. Asia Afrika 119, Bandung
	Bank Pembangunan Daerah of Jabar - Head Office	Jl. Kejaksaan No.8, Bandung
20.	Bank Indonesia Medan	Jl. Palang Merah 112A, Medan

ANNEX I-5

LIST OF LARGE SCALE INDUSTRIES
INTERVIEWED BY CONSULTANTS AND
LOCAL INTERVIEWERS

(Employee over 100 persons)

1. AUTOMOTIVE AND AUTOMOTIVE PARTS

- P.T. Karama Yudha Tiga Berlian Motors
 Jl. Jen. A. Yani Proyek Pulomas
 Jakarta
- 2. P.T. Toyota-Astra Motor Jl. Jenderal Sudirman 5 Jakarta
- P.T. Toyota Engine Indonesia
 Jl. Yos Sudarso Sunter I
 Jakarta
- 4. P.T. Toyota Mobilindo Jl. Yos Sudarso Sunter II Jakarta Utara
- 5. P.T. Multi Astra Jl. Yos Sudarso Sunter Jakarta
- 6. P.T. Kramayudha Ratu Motor Jl. Raya Bekasi Km. 22-23 Jakarta
- 7. P.T. Sanoh Indonesia
 Jl. Rawagelam IV/K. II-3
 Kawasan Industri
 Pulogadung Jakarta
- 8. P.T. Nippondenso Indonesia Jl. Yos Sudarso, Sungai Bambu Jakarta Utara

- 9. P.T. Meiwa Indonesia Jl. Raya Bogor Km. 30 Jawa Barat
- 10. P.T. Kramayudha SBY Majapahit Motor
 J1. Taman Sepanjang
 Surabaya
- 11. P.T. Colt Engine Manufacturing
 Jl. Raya Bekasi Km. 21-22
 Rawaterate Pulogadung
 Jakarta
- 12. P.T. Mitsubishi Kramayudha & Manufacturing
 Jl. Bekasi Timur Km. 22
 Jakarta
- 13. P.T. Kayaba Indonesia
 Jl. Rawaterate Raya I/4
 Pulogadung Jakarta
- 14. P.T. Mesin Isuzu Indonesia
 Jl. Sudirman H.18 Lt.4
 Jakarta
- 15. P.T. Showa Indonesia
 Jl. Laksda Yos Sudarso
 Sunter II
 Jakarta
- 16. P.T. Suzuki Indonesia Manufacturing Jl. Kalibesar Barat 46 Jl. Raya Penggilingan Cakung, Jakarta

2. HEAVY EQUIPMENT

- 17. P.T. Komatsu Indonesia Jl. Kramat Raya 43 Jakarta
- 18. P.T. Barata Indonesia
 Jl. Ngagel 109
 Surabaya
- 19. P.T. Boma Bisma Indera Jl. Ngagel No. 155-157 Surabaya

3. SHIP BUILDING

- 20. P.T. Pelita Bahari Jl. Sindang Laut 100 Tg. Priok Jakarta Utara
- 21. P.T. Dok & Perkapalan Tg. Priok Jl. Penambangan Pelabuhan I Tg. Priok, Jakarta
- 22. P.T. Kojai
 Jl. R.R. Martadinata I/2
 Tanjung Priok
- 23. P.T. Dok dan Perkapalan Surabaya Jl. Perak Barat 432-435 Surabaya
- 24. P.T. Menumbar

 Jl. Batu Panggal Samarinda
 East Kalimantan

25. P.T. Industri Kapal Indonesia Jl. Tinumbu, Ujung Pandang

4. AGRICULTURE MACHINERY

- 26. P.T. Kubota Indonesia Jl. Setiabudi 279 Semarang
- 27. C.V. Karya Hidup Sentosa Jl. Magelang 144 Yogyakarta
- 28. P.T. Yamindo
 Jl. Ir. H. Juanda
 Surabaya
- 29. P.T. Yanmar Agricultural Machinery Manufacturing Jl. Ir. H. Juanda 42 Jakarta
- 30. P.T. Candi Naga
 Jl. Jembatan Lima No.43
 Jakarta Barat Tel. 346140 375651

5. PUMP

- 31. P.T. Ebara IndonesiaJl. Raya Jakarta Bogor Km. 32Curug Cimanggis Bogor
- 32. P.T. Aneka Pompa Bandung Jl. Kramat Jati 18 Jakarta Timur

6. DIESEL ENGINE & PARTS

- 33. P.T. Yanmar Diesel Indonesia Jl. Raya Bogor Bogor
- 34. P.T. Yanmar Indonesia
 Jl. Raya Bogor Cimanggis
 Bogor
- 35. P.T. Bani Nusa Indonesia
 Jl. Industri No.15
 Bandung Tel. (022) 614797

7. MACHINE TOOL

- 36. P.T. Oyama
 Jl. Yos Sudarso 56
 DKI
- 37. P.T. Sarana Widya Utama
 Glodok Plaza S 84
 Jl. Pinangsia
 Jakarta Tel. 627727, 627440
- 38. P.T. Sumber Bahagia
 Jl. Mayor Okeng Jaya Atmaja 13
 Bogor Tel. (0251) 21633
- 39. P.T. Sumber Bahagia
 Jl. Mayon Oking No.13 Bogor

8. STEEL STRUCTURES & OFFSHORE EQUIPMENT

- 40. P.T. Musashi Indonesia Jl. Yos Sudarso, By Pass Jakarta
- 41. P.T. Permiko Enginnering and Construction
 Ratu Plaza Office Tower, 30th Fl.
 Jl. Jen. Sudirman
 Jakarta

9. ELECTRICAL EQUIPMENT

- 42. P.T. Fuji Dharma Electric Co. Ltd.
 Jl. Gajah Mada 156
 Jakarta
- 43. P.T. Industira

 Jl. Bendungan Hilir II

 Jakarta
- 44. P.T. Toa Galva Industries
 Jl. Hayam Wuruk 27,
 Jakarta
- 45. P.T. Metbelosa

 Jl. Taruna No.1, Pulogadung

 Jakarta Timur
- 46. P.T. National Gobel
 Jl. Raya Jakarta Bogor
 Gandaria Pakayon
 Pasar Rebo
 Jakarta Timur
- 47. P.T. Morawa Electric Tranbuana
 Jl. Timor No.21F
 Medan

10. PLANT EQUIPMENT

48. P.T. Super Andalas Steel (Boiler, Blower)
Jl. K.L. Yos Sudarso Km 9 Medan

11. BASIC METAL

- 49. P.T. Krakatau Steel
 Jl. Cilegon West-Jawa
- 50. P.T. Gunung Gahapi (Steel Plate)
 Jl. Medan Belawan Km 10 Medan
- 51. P.T. Sermani Steel Corporation (G.I Sheet)
 Jl. Urip Sumohardjo Tello Baru
 Ujun Pandang

LIST OF MEDIUM AND SMALL SCALE INDUSTRIES INTERVIEWED BY CONSULTANTS AND LOCAL INTERVIEWERS

(JAKARTA AREA)

No.	Name of Organization	Address	Business Field
1.	P.T. PRIMA JABAR STEEL	Jl. Rawa Gelam III no. l Kawasan Pologadung Jakarta Timur	Tea Screenings
2.	SINAR LOGAM	Jl. Dokter no.41 Kaplik Utara Raya	Spray Container
3.	P.T. ASAFLUX & SOLDER	Jl. Pluit Mas V Block E no.7 A.B	Solder material
4.	RITAFNI	Jl. Kebon Raya (Simpang III) Tomang Barat Baru Jakarta	Fence
5.	SUGENG	Jl. Raya kebon Jeruk no.32 Jakarta Barat	Fence
6.	SUBUR JAYA	Jl. Raya Bogor 107/km 19 Jakarta - Timur 13510	Fence
7.	PEMUDA	Jl. Pemuda No.75 Rawamangun Jakarta Timur	Repair of Industrial Machinery, Pressworks
8.	P.T. SURIA MURNI	Gg. Kongsi no.3 K.H. Mansyur Jakarta Kota	Oil can, Cake can etc. Presswork
9.	C.V. HIDUP BARU	Jl. Mangga Besar 4R/ 47 Jakarta	Printing letter Casting printing
10.	P.T. MATAHARI ALKA	Jl. Rawagelam I no.l Kawasan Industri Pulogadung. Jkt	Filling Cabinet Drafting stand, Kitchen sink

No.	Name of Organization	Address	Business Field
11.	P.T.PURNA KADERA	Jl. Rawagatel Kav.III S.39 Industrial Estate Pulogadung Jakarta	Seat frame & Cover, bus seat
12.	P.T. BUMI KAYA STEEL INDUSTRIES	Jl. Pulolentut 7, Kawasan Industri Pulogadung-Jkt	Galvanized Steel pipe electric pole
13.	MURNI	Jl. Karet Sawah 300 Jakarta Pusat	Wire net
14.	P.T. MULIA BHAKTI WIBAWA	Jl. Karet Tongsin Raya Jakarta Pusat	Repairing for Auto parts
15.	P.T. SINAR WIRA UTAMA	Jl. Raya Rawa Buaya 6 Cengkareng P.O. Box 953/Jkt. Jakarta Barat	Workshop, Machining
16.	P.T. PRINDA	Jl. Raya Pisangan Lama 79 Jatinegara	Thermos, Coffee Pot (Glass)
17.	P.T. LEDU	Jl. Pisangan Lama Raya no. 77 Jajarta Timur	Rice Cooker (Aluminium)
18.	P.T. SENOPATI MICROFIT SENANATHO		Powder Metallurgy
19.	P.T. WIRA GULFINDO	Jl. Gunung Sahariraya no. 30	Kerosene, Pressure Vessel for Oil
20.	P.T. CAHAYA BINTANG SUASA	Jl. Kapuk Raya Gg. Sama no.7 Jakarta Barat	Container for Paint
21.	MALUKU MUDA	Jl. Teluk Gong No.19 A-C Jakarta Utara	Cast Iron, Machining (Flywheel, Cnoppling)

No.	Name of Organization	Address	Business Field
22.	SUMBER JAYA	Jl. Palmerah Selatan 145 Jakarta Pusat	Aluminium Casting (Flying Pan)
23.	SINAR BAJA SLIPI	J1. Palmerah Utara IV 203 Jakarta Barat	Filing Cabinet Steel Desk
24.	C.V. MAKMUR JAYA	Jl. Kemandoran l No.9A Palmerah Barat	Aluminium Cast Bar for Extrusion
25.	P.T. STAR METAL WARE	Jl. Kemandoran V/ll Palmerah Keb. Lama Jakarta	Lamp, Steam Iron Hair Dryer
26.	SONIC	J1. Rawa Buaya Raya no. Cengkareng Jakarta	8
27.	ABADI	J1. T.S.S. No. 15 Jembatan V Jkt	Container (Tin Plate)
28.	TIGA SAUDARA	Jl. Kerajinan Kebon sayur no.9 Kampun Jawa - Jkt	Machining & Assly (Food Machine)
29.	SETIA	Jl. Mangga Dua abdad No.2 Jkt - Pusat	Liquid Measure
30.	ZUBAIDI DB	Jl. Mangga Dua abdad Rt. 15/11 Jkt - Pusat	Liquid Measure
31.	PT. LLGA RAYA	Jl. Teluk Gong no.9	Cooker (Stain- less Steel)
32.	C.V. CIPTA KARYA	Desa Bibis no.3 Tandes Surabaya	Pump & Machine Tool

No. N	Jame of Organization	Address	Business Field
33. C	C.V. INDOBRAKE	Jl. Buntaran no.3 Desa Manukan Wetan Kecamatan Tandes Surabaya	Brake lining & brake shoe
	P.T. MUARA TEWE PRING	Jl. Pulogadung 30, Pulogadung Industrial Estate Jakarta Timur	Springs for Car
	P.T. BENTENG MERARI NDUSTRI	Jl. Raya 78, AESA GILANG TAMAN SIDOARJO	Kerosine Stove and Electric iron
36. A	SYARI & SONS	Jl. Pertukangan l Pasuruan	Agriculture Machine
37. P	P.T. MAMINDO	Pandaan Kabupaten Pasuruan Jawa Timur	Tractor, Agriculture machine
38. T	ANJUNG ALAM	Jl. Aout III 196	Machining and Repare
	.v. PABRIK MESIN GUNTUR"	Jl. Kol Sugiono 14 Malang	Pump and Machining
40. S	EMERU JAYA	Jl. Mangga 10. Malang	Pump and Agriculture Machine

No.	Name of Organization	Address	Business Field
1.	LIK/CSF, Tegal	Tegal	Water pump
2.	BAROKAH	Jl. KJ. Muklas I/437 Tegal	Rice mill
3.	UD. MASRURI	Tembok Luwung No.291 Adiwerna Tegal	Muffler, Engine Hook Bolt, PLN Equipment
4.	PERTUKANGAN BESI	•	Hand Forging
5.	BP. H. ABOESETRI	Jl. Raya Kajen Talang No. 226 Tegal	Sheet Metal Working/ Machining (Engine parts)
6.	MURBAUT "MAKDUM"	Banjaran Tembok Luwung Rt.04 Rk Ol Aiwerna Tegal	Hand Forging Water pump
7.	GUNANG MAS	Batur, Ceper, Klaten	Iron Casting (for rice mill)
8.	C.V. MUSTIKA KARYA	Batur, Ceper, Klaten	Iron casting (pump)
9.	BD. DAWAN ASYHRI	Jl. Batur, Ceper, Klaten	Al casting (Hopper, Crank case cover)
10.	SLAMET ZAINI	Jl. Kemasan Kalimati Adiwerna Tegal	Cable Clamp Bolt

(BANDUNG AREA)

No.	Name of Organization	Address	Business Field
1.	P.T. TURBINDO	Jl. Baros Pasar 97. Cimahi Bandung	Pump
2.	P.T. TELNIC	Jl. Soekarno-Hatta P.O. Box 582 Bandung	Language Labo. Traffic Signal System
3.	Balai Besar Bahan dan Barang Teknik	Asia Afrika 146, Bandung	Machine Pool pump

No.	Name of Organization	Address	Business Field
1.	P.T. BENIENG MERAPI INDUSTRI	Jl. Raya 78 AESA Gilang Gilang SIDOARJO	Kerosene stone Electric Iron (Presswork, own Die-making)
2.	ASYARI AND SONS	Jl. Pertukangan l Pasuruan	Parts of Agri- machine Press for tile Pulley etc. (Casting & Machining)
3.	TANJUNG ALAM		Machining & Repair for sugar and cement plant
4.	P.T. YANMAR AGRI- CULTURAL MACHINERY MANUFACTURING INDONESIA (P.T. YAMINDO)	Pandaan Kabupaten Pasuruan, Jawa Timur	Wheel Tractor Hand Tractor Rice Huller Rice Polisher Paddy Thresher
5.	C.V. PABRIK MESIN "GUNTUR"	Jl. Kol. Sugiono 14 Malang	Agri-Machine (Machining & Machine Assembly)
6.	SEMERU JAYA	Jl. Kol. Sugiono 250 Malang	Agri-Machine (Casting, Machining Machine Assembly Repair of Auto Mobile Car)

No. Name of Organization	Address	Business Field
(MEDAN)		
1. C.V. LOGAM	Jl. K.L. Yos Sudarso	
2. P.T. GLUGUR	Jl. K.L. Yos Sudarso NO 9L Medan	
3. P.T. SENI	Jl. Medan T. Morawa Km 7½ Medan	
4. U.D. INDUSTRI BAHARI	Jl. Sisingamangaraja No 8B Medan	
(BALIK PAPAN)		
1. P.T. KARINDO	Jl. Adilmakmur XIV/ 45 Balikpapan	
2. P.T. SARANA DAYA UTAMA	Jl. Semoi Rt III No 49 P.O. Box 437	
(UJUNG PANDANG)		
1. C.V. LATIHAN KERJA TEKNOLOGI	Jl. Mentimun No 30 Ujungpandang	
2. P.T. SAMATO	Jl. Bandang VII/4 Ujungpandang	
3. P.T. GARMAK MOTOR	Jl. Urip Sumohandjo No 83 Ujungpandang	

	ANNEX 1-7 LIST OF DOCUMENTS OBTAINED	OBTAINED BY JICA TEAM	ANNEX 1-7 1/5
ŏ. Ož	W K & Z	ISSUED BY	DATE OF ISSUE
÷	Standard Trade & Industry Directory of Indonesia VI 1985 KOMPASS	80	1985
	Buku PEGANGAN PENGGUNAAN PRODUKSI DALAM NEGERI BUKU I	Team Pengendali Pengadaan Barang/Feralatan Pemerintah Sekretariat Negara Republik Indonesia	November 1984
ë.	BUKU PEGANGAN PENGGUNAAN PRODUKSI DALAM NEGERI BUKU II) E 1	i F I
4,	INFORMASI POTENSI INDUSTRI PERIODE OCTOBER 1984	Departemen Perindustrian	October 1984
5.	Buku Saku STATISTIK INDONESIA 1983 Statistical Pocketbook of Indonesia	Biro Pusat Statistik, Jakarta Indonesia	1983
ý	INDIKATOR EKONOMI Monthly Statistical Bulletin	; *	April 1985
7.	HARGA PERDAGANGAN BESAR DI JAKARTA	1 k	February 1985
ω.	PENDAPATAN NASIONAL INDONESIA 1973-1983 (TABEL-TABEL POKOK)	1 E 1	August 1984
on on	STATISTIK INDUSTRI KECIL 1979	t F ;	Maret 1982
10.	STATISTIK INDONESIA - Statistical Yearbook	1 = 1	January 1984
17	INDONESIA 1984 An Official Hand Book	Department of Information Republic of Indonesia	1984
12.	STATISTIK KEUANGAN Financial Statistics 1981/1982 DAN 1982/1983	Biro Pusat Statistik, Jakarta, Indonesia	August 1983

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2	N A M E	ISSUED BY	DATE OF ISSUE
13.	DELETION PROGRAM - Industri Logam Dasar	Direktorat Jenderal Industri Logam Dasar Departemen Perindustrian	
14.	INDONESIA POLICIES AND PROSPECTS FOR LONG TERM FINANCIAL DEVELOPMENT	Report by mission comprising para Suriyaarachchi	June 1984
15.	DAFTAR PERUSAHAAN DIT. JEN. IMLD.	Departemen Perindustrian Direktorat Logam Dasar	15 June 1985
16.	DAFTAR PERUSAHAAN INDUSTRI ELEKTRONIK PROFESSIONAL SEMESTER KE-II 1984	Direktorat Jenderal Industri Mesin dan Logam Dasar Direktorat Industri Mesin Listrik dan Elektronika	December 1984
17.	DAFTAR PERUSAHAAN INDUSTRI MESIN LISTRIK DAN PERALATAN LISTRIK TENAGA 1984	1	December 1984
18.	DAFTAR ANGGOTA GABUNGAN PENGUSAHA INDUSTRI ELEKTRONIK & ALAT-ALAT LISTRIK RUMAH TANGGA INDONESIA	Departemen Perindustrian	September 1984
19.	WEST JAVA DAFTAR PERUSAHAAN	KANWIL, BANDUNG	1985
20.	STARTING AN INDUSTRIAL ENTERPRISE HOW IPIP/UNIDO CAN HELP YOU	OGINA/AIAI	November 1984
21.	STANDAR INDUSTRI INDONESIA (SII)	Pusat Standardisasi Industri	August 1984
22.	STANDAR INDUSTRI INDONESIA SUPPLEMENT SII 1984/1985	ì E I	
23.	ORGANIZATION CHART OF THE MINISTRY OF INDUSTRY		·

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NO.	and	ISSUED BY	DATE OF ISSUE
24.	STAFF APPRAISAL REPORT INDONESIA BANK PEMBANGUNAN INDONESIA (BAPINDO) V	The World Bank	April 13, 1983
25.	STAFF APPRAISAL REPORT INDONESIA BANK PEMBANGUNAN INDONESIA (BAPINDO) V	; r 	May 8, 1981
26.	ANNUAL REPORT	BANK INDONESIA	1981/1982, 1982/1983, 1983/1984
27.	MONTHLY REPORT	BANK INDONESIA	1982/3, 1983/3, 1984/3, 1985/3
28.	WEEKLY REPORT	BANK INDONESIA	1985/3
29.	ANNUAL REPORT	BANK NEGARA INDONESIA 1946	1982, 1983
30.	ANNUAL REPORT	BANK DAGANG NEGARA	1982, 1983
31.	ANNUAL REPORT	BANK BUMI DAYA	1982, 1983
32.	ANNUAL REPORT	BANK PEMBANGUNAN INDONESIA	1981, 1982, 1983
	ANNUAL REPORT	BANK RAKYAT INDONESIA	1982, 1983
34.	ANNUAL REPORT	BANK EXPOR IMPOR INDONESIA	1981, 1982, 1983
35.	ANNUAL REPORT	BANK DUTA EKONOMI	1983
36.	ANNUAL REPORT	OVERSEAS EXPRESS BANK	1982, 1983

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ANNEX	

NO.	NAME	ISSUED BY	DATE OF ISSUE
37.	ANNUAL REPORT	BANK PEMBANGUNAN DAERAH - JABAR (WEST JAVA)	1983
38.	ANNUAL REPORT	BANK PEMBANGUNAN DAERAH - JATIM (EAST JAVA)	1982, 1983
39.	ASSOSIASI PERBENGKELAN 7 PERMESINAN	Assosiasi Perbengkelan & Permesinan	April 1983
40.	ASSOSIASI PRODUSEN PERALATAN LISTRIK INDONESIA	Assosiasi Produsen Peralatan Listrik Indonesdia	1984
41.	PENGEMBANGAN KAPASITAS NASIONAL SEKTOR INDUSTRI 1984 - 1987	Departemen Perindustrian	Edisi 1984
42.	THE DEVELOPMENT OF THE DIESEL INDUSTRY	P.T. Data Conmilt Inc.	25 July 1983
43.	GABUNGAN INDUSTRI PENGERJA LOGAM DAN MESIN INDONESIA LIST OF MEMBERS AS OF APRIL 25, 1985	4 X X X 5	25 Aprîl 1985
44	PELIMPAHAN WEWENANG PEMBINAAN INDUSTRI KECIL KEPADA KANTOR DEPARTEMEN PERINDUSTRIAN DI KABUPATEN/KOTAMADKA DAN PENDAFTARAN INDUSTRI KECIL	Departemen Perindustrian	March 1983
4. 5.	SURAT KEPUTUSAN MENTERI PERINDUSTRIAN	Departemen Perindustrian	August 1980
46.	PRB-FEASIBILITY STUDY FOR FOUNDRY AND PUMP PRODUCTS	P.T. Aneka Pomp bandung	April 1985
	MARKET APPRAISAL - PUMPS IN INDONESIA	1 E.	 E 1
47.	STUDI INVESTASI INDUSTRI REPARASI/DOK KAPAL UNTUK KELAS 30.000 DWT	Proyek Pengembangan Industri Perkapalam Direktorat Jenderal Industri Mesin dan Logam Dasar D.P.	November 1984

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ANNEX	

NO.	NAME	ISSUED BY	DATE OF ISSUE
8 .	STUDI INVESTASI INDOSTRI PEMBUATAN BANGUNAN BARU KAPAL UNTUK KELAS 10.000 DWT	Proyek Pengembangan Industri Perkapalam Direktorat Jenderal Industri Mesin dan Logam Dasar D.P.	November 1984
<u>ል</u> ዕ	ALSINTANI Member List Indonesian Agricultural Machinery Associations Member List	alsintani	1
50,	S I I STANDAR INDUSTRI INDONESIA	Pusat Standardisasi Industri	30 January 1985
51.	DAFTAR PERUSAHAAN (List of Company in Bandung Area)	M O I Bandung	22 July 1985
52.	P.T. KUBOTA INDONESIA LIST OF SUBCONTRACTORS	P.T. Kubota Indonesia	ı
ພ ນ	L I K "TAKARU" MEMBERS LIST	LIK "TAKARU" Tegal	ı
5. 4.	DISTRIBUTION SYSTEM OF STEEL PRODUCT OF THE INDONESIAN	NKK JAKARTA Office	t
55.	PELAKSANAAN PROGRAM KETERKAITAN ANTARA SECTOR INDUSTRI DENGAN SECTOR EKONOMI LAINNYA	Departemen Perindustrian (Biro Humas)	March 1985
56.	PROYEK PENGEMBANGAN DUNIA USAHA JAWA TENGAH (Central Java Enterprise Development Project)	Development Alternatives, Inc.	March 31, 1983
57.	INDONESIA POLICIES FOR GROWTH AND EMPLOYMENT (COPY)	World Bank	April 23, 1985
ν ω	INDONESIA RECENT ECONOMIC DEVELOPMENT	I. M. F.	May 10, 1985

LIST OF INSTITUTIONS VISITED BY THE TEAM (AS SUPPLEMENTAL LOCAL SURVEY)

(Jakarta Area)

- 1. The Center for Vocational and Extension Service Training (CEVEST)
- Laboratory for Strength and Material Component and Structure (LUK), PUSPIPTEK

(Surabaya Area)

- 3. Regional Institute for Industries in Surabaya
- 4. Surabaya Institute of Technology
- 5. Project for Simple Standard Machine Tool (MPSS)

(Bandung Area)

- 6. Metal Industries Development Center (MIDC)
- 7. Institute for Research and Development of Industrial Materials and Technical Products (BBBT)
- 8. Bandung Institute of Technology (ITB)

ANNEX II BASIC DATA FOR ECONOMY AND INDUSTRY IN INDONESIA

GROSS DOMESTIC PRODUCT BY INDUSTRIAL ORIGIN AT CURRENT MARKET PRICES, 1969-84

															(Rp.	billion)
	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983 <u>/a</u>	1984 <u>/b</u>
Agriculture	1,339	1,575	1,646	1,837	2,710	3,497	4,003	4,812	2,906	6,706	8,996	11,290	13,642	15,668	18,771	22,737
Farm food crops	822	961	196	1,071	1,573	2,095	2,554	3,044	3,660	3,992	4,892	6,357	8,102	196'6	12,381	15,455
Farm nonfood crops	199	214	196	226	323	386	358	481	762	803	1,201	1,305	1,326	1,227	1,496	1,746
Estate crops	69	83	107	118	152	191	184	21.3	326	404	290	693	904	1,026	1,146	1,277
Livestock products	89 9	103	124	135	173	223	303	346	305	462	069	186	1,258	1,418	1,521	1,757
Forestry	60	102	142	173	355	423	413	513	525	653	1,048	1,141	1,140	983	1,040	1,122
Fishery	101	112	116	114	134	179	191	215	328	393	575	803	912	1,053	1,188	1,380
	6	,	•			1		4	4		•					1
Minng & quarryng	129	173	294	497	83T	2,374	2,485	2,930	3,600	4,358	6,980	TT,673	175,971	20/17	13,824	17,473
Manufacturing	251	312	307	448	650	890	1,124	1,453	1,817	2,420	3,310	5,288	5,822	7,681	8,913	12,531
Electricity, gas & water	13	15	18	20	30	25	70	96	706	118	149	225	288	380	503	622
Construction	75	100	128	174	262	406	590	813	1,023	1,242	1,790	2,524	3,118	3,507	4,434	4,689
Commerce, hotels, etc.	476	619	592	769	1,118	1,775	2,104	2,552	2,959	3,450	4,775	6,391	7,966	8,865	10,874	12,268
Transport & communications	77	96	162	182	257	442	521	663	843	1,032	1,421	1,965	2,353	2,795	3,325	3,887
Banking, etc.	22	e e	45	53	83	113	151	207	236	396	659	752	1,404	1,604	1,841	2,108
Ownership of dwelling	53	99	85	103	143	194	258	319	542	671	914	1,200	1,439	1,703	1,962	2,248
Public administration																
& defence	136	183	214	290	405	585	864	1,074	1,394	1,685	2,200	3,142	3,905	4,429	5,225	5,957
Other services	147	168	181	197	264	380	473	546	607	999	835	966	1,119	1,293	1,538	1,743
Gross domestic product	2,718	3,340	3,672	4,564	6,753	10,708	12,643	15,467	19,033	22,746	32,025	45,446	54,027	59,633	71,215	86,261
							- 1									

/a Preliminary.
/b Estimate.

GROSS DOMESTIC PRODUCT BY INDUSTRIAL ORIGIN AT CONSTANT 1973 MARKET PRICES, 1971-84

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983 <u>/a</u>	1984 <u>/b</u>
Agriculture Farm food crops	2,441	2,479	2,710	2,811	2,811	2,944	2,992	3,135	3,256	3,425	3,594	3,670	3,845	4,040
sdo	302	329	323	307	312	325	385	388	402	417	429	459	484	510
Estate crops	154	160	152	174	183	188	201	210	231	233	244	285	288	290
Livestock products	160	169	173	186	202	216	177	184	202	212	220	230	241	249
Forestry	258	276	355	325	274	310	335	352	338	308	246	197	203	207
Fishery	131	130	134	138	144	150	159	166	174	182	193	204	217	224
Mining & quarrying	551	674	831	859	828	952	1,070	1,049	1,047	1,035	1,069	940	957	1,031
Manufacturing	490	564	650	755	848	930	1,058	1,236	1,395	1,705	1,878	1,901	1,942	2,391
Electricity, gas & water	25	26	30	37	41	46	49	57	69	78	00	106	113	119
Construction	171	222	262	320	365	385	464	529	563	639	720	758	805	747
Commerce, hotels, etc.	924	1,028	1,118	1,224	1,294	1,351	1,438	1,530	1,681	1,852	2,043	2,159	2,240	2,289
Transport & communications	210	229	257	288	303	343	439	514	260	609	677	717	753	790
Banking, etc.	64	75	83	88	102	11.7	151	165	180	208	231	259	276	291
Ownership of dwelling	93	121	143	174	198	209	252	288	306	336	359	377	401	418
Public administration														
and defence	326	393	405	443	564	969	689	768	802	972	1,076	1,115	1,176	1,215
Other services	250	256	264	270	277	283	280	296	303	310	319	323	334	339
Gross domestic product	5,545	6,067	6,753	7,269	7,631	8,156	8,882	9,567	10,165	11,169	12,055	12,325	12,842	13,670
- GDP deflater	99	7.5	100	147	166	190	214	238	315	407	448	484	555	631
- GDP growth (%)		۵.	11.3	7.6	5.0	6.9	6.9	7.7	6	φ. Φ.	7.9	2.2	4.2	9
 Growth of manufacturing sector (%) AV. annual growth (%) for the 5 	(%)	15.1	15.2	16.2	12.3	9.7	13.8	16.8	12.9	22.2	10.1	1.2	2.2	23.1
years development plan period: REPELITA II (1974-1978)	Ol A	GDP 6.9%	Manu	Manufacturing 12.7%	sector									
REPRITTA 111 (1979-1983)	4	*		ď										

(Note) <u>/a</u> Preliminary. <u>/b</u> Estimate.

Source: BPS, REPELITA III

EXPENDITURES ON GDP AT CURRENT MARKET PRICES, 1971-84

													(Rp.	billion)
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983/a	1984 <u>/b</u>
Private consumption	2,848	3,309	4.804	7,344	8,732	10,572	12,481	15,184	19,514	27,503	35,560	41,670	49,231	59,182
Government consumption	341	414	716	841	1,254	1,591	2,077	2,659	3,733	4,689	5,788	6,832	7,791	7,606
Gross domestic investment (GDI)	580	857	1,208	1,797	2,572	3,205	3,826	4,671	6,704	9,485	11,553	13,467	17,188	17,759
services	527	762	1,356	3,044	2,897	3,621	4,513	4,974	9,629	13,849	14,928	13,345	17,733	22,203
Less import of goods and non-factor services	624	778	1,331	2,318	2,812	3,522	3,864	4,742	7,555	10,080	13,802	15,681	20,728	20,489
Gross domestic product (GDP) 3,672	3,672	4,564	6,753	10,708	12,643	15,467	19,033	22,746	32,025	45,446	54,027	59,633	71,215	86,261
Net factor income abroad	-68	-344	-245	-499	-557	-483	-678	-867	-1,484	-2,011	-1,925	-1,958	-3,036	-4,317
GNP (Gross National Product)	3,604	4,420	6,508	10,209	12,086	14,984	18,355	21,879	30,541	43,435	52,102	57,675	68,179	81,944
GDS (Gross Domestic Saving)	483	841	1,233	2,523	2,657	3,304	4,475	4,903	8,778	13,254	12,679	11,130	14,193	n.a.
GNS (Gross National Saving)	415	697	886	2,024	2,100	2,821	3,797	4,036	7,294	11,243	10,754	9,172	11,157	п.
GDI/GDP (%)	15,8	18.8	17.9	16.8	20.3	20.7	20.1	20.5	20.9	20.9	21.4	22.6	24.1	20.6
GDS/GDP (%)	13.2	18.4	18.3	23.6	21.0	21.4	23.5	21.6	27.4	29.2	23.5	18.7	19.9	•
GNS/GNP (%)	11.5	15.8	15.2	19.8	17.4	18.8	20.7	18.4	23.9	25.9	20.6	15.9	16.4	•

/a Preliminary.
/b Estimate.

EXPENDITURES ON GDP AT CONSTANT 1973 MARKET PRICES, 1971-84

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983 <u>/a</u>	1984 <u>/b</u>
Private consumption	4,088	4,324	4,804	5,502	5,699	6,154	6,400	6,880	7,866	8,867	10,350	10,698	11,501	12,155
Government consumption Gross domestic investment	518 867	561 1,032	716	641	836 1,650	896 1,749	1,044	1,288	1,345 2,436	1,490	1,641 3,219	1,775	1,759 3,921	3,474
Export of goods and non-factor services	943	1,143	1,356	1,445	1,410	1,650	1,806	1,824	1,822	1,719	1,678	1,444	1,535	1,774
Less import of goods and non-factor services	871	866	1,331	1,759	1,964	2,293	2,395	2,698	3,304	3,803	4,833	5,229	5,874	5,312
Gross domestic product	5,545	6,067	6,753	7,269	7,631	8,156	8,882	9,567	10,165	11,169	12,055	12,325	12,842	13,670
Net factor income abroad	- S	-184	-245	-378	1389	-314	-420	-493	-649	-759	-674	-653	- 835	-1,453
GNP (Gross National Product)	5,450	5,883	6,508	6,891	7,242	7,842	8,462	9,074	9,516	10,410	11,381	11,672	12,007	12,217
GDS (Gross Domestic Saving)	728	1,012	1,233	1,987	1,712	1,807	2,435	2,461	3,337	4,319	3,606	2,856	3,071	ı
GNS (Gross National Saving)	633	828	988	1,609	1,323	1,493	2,015	1,968	2,688	3,560	2,932	2,203	2,236	ı
GDI/GDP (%)	15.6	17.0	7.0	σ	2	21.4	22.8	24.4	24.0	9	26.7	79.5	5.	,

/a Preliminary.
/b Estimate.

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DISTRIBUTION OF GDP. AT CURRENT MARKET PRICES, 1971-84

													(In	percent)
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1961	1982	1983/2	1984/1
Economic sectors						i								
Agriculture, forestry and									•					
fishery	44.8	40.3	40.1	32.7	31.7	31.1	31.0	29.5	28.1	24.8	25.3	26.3	26.4	26.4
Mining	8.0	10.8	12.3	22.2	19.7	18.9	18.9	19.2	21.8	25.7	24.0	19.6	19.4	20.3
Manufacturing	8.4	8.6	9.6	8,3	6.8	9.6	9.5	10.6	10.3	11.6	10.8	12.9	12.5	14.5
Electricity, gas and water	0.5	0.4	0.5	0.5	0.5	9.0	9 0	v. 0	0.5	0.5	0.5	9.0	0.7	0.7
Construction	3.5	3.8	3.9	9,8	4.7	5.3	5.4	5.5	5.6	9.5	5.8	5,9	6.2	5.4
Transport and communications	4.4	4.0	3.8	4.1	4.1	4.3	4.4	4.5	4-4	4.3	4.3	4.7	4.7	4.5
Other services	30.4	30.9	29.8	28.4	30.4	30.4	30.2	30.2	29.3	27.5	29.3	30.0	30.1	28.2
Gross domestic product	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Expenditure categories	2.77	72.57	1.17	9,89	5	4	65 6	t V	6.09	, 0	a v	9	69.1	9
Government consumption	6	7.6	10.6	7.8	6.6	10.3	10.9	11.7	11.1	10.3	10.7	11.4	0.11	8
Gross domestic investment	15.8	18.8	17.9	16.8	20.3	20.7	20.1	20.5	20.9	20.9	21.4	22.6	24.1	20.6
Exports, net	-2.6	-0.4	0.4	8,8	0.7	9.0	3.4	1.0	6.5	e 8	2.1	-3.9	-4.2	2.0
Gross domestic product	0.00τ	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

 $\frac{a}{b}$ Estimate.

DISTRIBUTION OF GDP AT CONSTANT 1973 MARKET PRICES, 1971-84

													HT.	Der Cent.
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983/a	1984/b
Economic sectors														
Agriculture, forestry and														
fishery	44.0	40.8	40.0	38.7	36.8	36.1	33.7	32.8	32.0	30.7	29.8	29.8	29.9	29.6
Mining	6.6	11.1	12.3	11.8	10.9	11.7	12.1	11.0	10.3	9.3	8.9	7.6	7.4	7.5
Manufacturing	8.8	6.3	9 6	10.4	17.17	11.4	11.9	12.9	13.7	15.3	15.6	15.4	15.1	17.5
Electricity, gas and water	0.5	0.4	0.4	0.5	0.5	9.0	9.0	9.0	0.7	7.0	0.7	0.9	6.0	6.0
Construction	3.1	3.7	3.9	4.4	4.8	4.7	5.2	5.5	5.6	5.7	6.0	6.2	6.3	η. υ.α
Transport and communications	3.8	3.8	3.8	4.0	0.4	4.2	4.9	5.4	υ. υ.	υ. 4.	9.8	5.8	5.9	5.8
Other services	29.9	30.9	29.8	30.2	31.9	31.3	31.6	31.8	32.2	32.9	33.4	34.3	34.5	33.2
Gross domestic product	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Expenditure categories														
Private consumption	73.7	71.3	71.1	75.7	74.7	75.5	72.0	71.9	77.4	79.4	85.9	86.8	89.6	6.88
Government consumption	9.4	9.2	10.6	φ. φ.	11.0	11.0	11.8	12.8	13.2	13,3	13.6	14.4	13.7	11.6
Gross domestic investment	15.6	17.0	17.9	19.8	21.6	21.4	22.8	24.4	24.0	25.9	26.7	29.5	30.5	25.4
Exports, net	1.3	2.5	0.4	-4.3	-7.3	-7.9	9.9	-9.1	-14.6	-18.6	-26.2	-30.7	-33.8	-25.9
Gross domestic product	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

/a Preliminary.
/b Estimate.

BALANCE OF PAYMENTS, 1973/74 - 1984/85

	1973/74	1974/75	1974/75 1975/76		87/7761 77/978	1978/79 1979/80	1979/80	1980/81	1981/82	1982/83	1983/84	(US\$ million) 3/84 1984/85 Prel.
1. Net oil <u>/a</u>	641	2,638	3,138	3,710	4,352	3,785	6,308	9,345	8,379	5,788	6,016	5,308
2. Net LNG Za	I	I	ı	1	93	225	199	1,256	1,382	1,378	1,355	1,922
<pre>3. Non-oil (net) Exports, FOB Imports, CIF Services (non-freight)</pre>	-1,397 1,905 -2,938 -364	2,776 2,033 -4,341 -468	1,873 -5,090 -755	2,863 -6,167 -1,208	3,507 3,507 -7,241 -1,401	3,979 -7,543 -1,601	-4,777 6,171 -9,028 -1,920	-8,470 5,587 -11,837 -2,220	-12,551 4,170 -14,561 -2,160	-14,205 3,928 -15,824 2,309	-11,522 5,367 -14,346 -2,543	-10,171 5,902 -13,446 -2,627
4. Current account (1+2+3)	-756	-138	-854	-802	-690	-1,155	2,198	2,131	-2,790	-7,039	-4,151	-2,941
5. SDRs	ı	1	ı	1	ı	64	65	62	ı	1	ı	
6. Official capital IGGI Program aid Project aid ODA Non-ODA Non-IGGI	643 556 281 275 275 (275) (-)	6660 513 180 180 333 (333)	945 945 74 871 (482) (389)	1,823 1,596 1,449 1,449 (513) (936)	2,106 1,694 1,537 1,537 (661) (876)	2,101 1,567 1,473 (814) (659)	2,690 2,237 239 1,998 (1,106) (892)	2,684 2,406 2,288 (1,299) (989) 278	3,521 2,415 50 2,365 (996) (1,369)	2,905 2,905 2,884 (1,356) (1,528) 2,106	5,793 4,255 4,171 (1,902) (2,269)	3,584 3,263 52 3,211 (1,411) (1,800)
7. Official debt repayment (principal)	-81	68-	-77	-166	-761	-632	-692	-615	608-	-926	-1,010	-1,292
8. Miscellaneous capital Direct investment Others	549 331 218	538 538 - 669	-1,075 454 -1,529	38 287 -249	176 285 -109	392 271 121	-1,315 217 -1,532	-361 140 -501	1,140 142 998	1,795 311 1,484	1,191	401 245 156
9. Total (4 through 8)	355	302	뒤	893	833	770	2,946	3,901	1,062	-1,159	1,823	-248
10. Errors and omissions	LF	-311	-353	108	-180	-62	-1,256	-1,165	-2,050	-2,121	247	915
ll. Monetary movements $\angle b$	-360	Ø	364	-1,001	-651	-708	-1,690	-2,736	886	3,280	-2,070	-667

 $\frac{2}{2}$ Gross exports of products less imports of goods and services of the oil and LNG sectors respectively. $\frac{2}{2}$ Bank Indonesia's net international reserves. Increase in net assets indicated by a minus (-).

Source: Bank Indonesia

EXPORTS BY CATEGORY, 1971/22 - 1984/85

	1971/72	1971/72 1972/73 1973/74	1973/74	1974/75	1974/75 1.975/76		87/7761 77/98	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	83/84 1984/85 Prel.
Timber /a	170	275	720	615	527	885	943	1,130	2,166	1,672	752	899	1,123	r e
Rubber Coffee	215 54	211	483 79	425 92	381 112	577 330	608 626	774 508	1,101 715	1,078 588	770 343	614 363	962 469	ਜ ਜ ਲ ਲ
Other agriculture exports Subtotal - Agriculture	207	230	371	491	452	555	721	787	1,133	935	866 2,731	646	750	ц в в
Metals and Minerals (excluding oil)	82	102	175	. 296	257	320	363	437	609	774	756	929	764	n s
Manufactures plywood others	56 56 56	76 76	77	114	144	196	245	343	447	540	683 199 484	730 324 406	1,299 n.a.	ਸ਼ ਸ਼ ਲ ਲ ਲ
Total non-oil exports	784	577	1,905	2,033	1,873	2,863	3,506	3,979	6,171	5,587	4,170	3,928	5,367	5,902
Total oil and LNG	и. С	n.a.	n.a.	4,548	5,410	6,350	7,354	7,374	12,340	17,298	18,824	14,744	14,449	13,869
Oil and products LNG	्र इ	ថា ជ	n.e.	4,548	5,410	6,350	7,192	6,858 516	10,995	15,187 2,111	16,482	12,283	12,050	10,625 3,244
Total exports	n.a.	п.а.	n.a.	6,581	7,283	9,213	10,861	11,353	18,510	22,885	22,994	18,672	19,816	19,771

/a Includes plywood up to 1981.

Source: Bank Indonesia

IMPORTS BY CATEGORY, 1975/76 - 1984/85

Second						_
consumer goods 265 693 1,106 mediate goods 1,869 1,867 2,275 al goods 2,456 3,347 3,579 non-oil imports 5,090 6,167 7,241 ector 2,262 2,640 2,909 actor services (net) 345 490 536	3/79 1979/80	80 1980/81	1981/82	1982/83	1983/84	1984/85 Prel.
200 260 281 1,869 1,867 2,275 2,456 3,347 3,579 <u>5,090</u> <u>6,167</u> 7,241 2,262 2,640 2,909 (net) 345 490 536			1,637	1,296	п	n.a.
1,869 1,867 2,275 2,456 3,347 3,579 5,090 6,167 7,241 2,262 2,640 2,909 345 490 536			743	1,146	n.a.	n.a.
2,456 3,347 3,579 5,090 6,167 7,241 2,262 2,640 2,909 345 490 536			4,983	5,192	n.a.	n.a.
5,090 6,167 7,241 2,262 2,640 2,909 345 490 536			7,198	8,190	n.a.	n.a.
2,262 2,640 2,909 345 490 536	543 9,028	11,837	14,561	15,824	14,346	13,446
345 490 536	364 2,940	0 4,050	5,407	4,802	3,489	3,210
			2,604	1,715	2,543	2,627
Total imports and NFS 7,697 9,297 10,686 11,493	193 13,205	17,589	22,572	22,341	20,378	19,283

Source: Bank Indonesia

DISTRIBUTION OF EXPORT VALUE BY CATEGORY, 1974/75 - 1984/85

(in percentage)	1984/85	n.a.	n.8.	n.a.	29.9	70.1	100.0
rad ur)	1983/84	16.7 (61.6)	3.9 (14.2)	6.5 (24.2)	27.1 (100.0)	72.9	100.0
	1982/83	13.5 (64.2)	3.6 (17.2)	3.9 (18.6)	21.0 (100.0)	0.67	100.0
	1981/82	11.8 (65.5)	3.3 (18.1)	3.0 (16.4)	18.1 (100.0)	81.9	100.0
	1980/81	18.7 (76.5)	3.4 (13.8)	2.3 (9.7)	24.4 (100.0)	75.6	100.0
	1979/80	26.7 (82.7) 28.2 (80.4) 27.6 (82.9) 18.7 (76.5) 11.8 (65.5) 13.5 (64.2) 16.7 (61.6)		2.4 (7.2)	33.3 (100.0)	2-99	100.00
	1978/79	28.2 (80.4)		3.0 (8.6)	35.0 (100.0)	65.0	100.00
	1977/78	26.7 (82.7)	3.3 (10.3)	2.3 (7.0)	32.3 (100.0)	57.7	100.0
	1976/77	_	3.5 (11.2)	2.1 (6.8)	31.1 (100.0)	68.9	100.001
	1975/76	20.2 (78.6)	4.5 (14.6) 3.5 (13.7)	2.0 (7.7)	25.7 (100.0)	74.3	100.0
	1974/75 1975/76	24.7 (79.8) 20.2 (78.6) 25.5 (82.0)	4.5 (14.6)	1.7 (5.6)	30.9 (100.0) 25.7 (100.0) 31.1 (100.0) 32.3 (100.0) 35.0 (100.0) 33.3 (100.0) 24.4 (100.0) 18.1 (100.0) 21.0 (100.0) 27.1 (100.0)	69.1	
		Agricultural produces Metals and minerals (excluding	011)	Manufactures	Total non-oil exports	Oil and LNG	Total exports 100.0

Source: Team's estimate based on the figures shown in Table ANX II-8

DISTRIBUTION OF IMPORT VALUE BY CATEGORY, 1975/76 - 1984/85

									(In percentage)	entage)
	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84 1984/85	1984/85
Food	7.3 (11.1)			8.2 (12.5)		8.4 (12.5)				n, a,
Other consumer goods	2.6 (3.9)		2.6 (3.9)	3.0 (4.6)		3.1 (4.6)				n.a.
Intermediate goods	24.3 (36.7)		21.3 (31.4)	22.3 (34.0)		24.3 (36.1)				n.a
Capital goods	31.9 (48.3)		33.5 (49.4)	32.1 (48.9)		31.5 (46.8)				Б. В
Total non-oil imports	66.1 (100.0)	66.3 (100.0)	67.8 (100.0)	65.6 (100.0)	68.4 (100.0)	67.3 (100.0)	64.5 (100.0)	70.8 (100.0)	70.4	69.7
Oil sector	29.4	28.4	27.2	29.3	22.2	23.0	24.0	21.5	17.1	16.7
Non-factor services (net)	4.5	£.2	5.0	5.1	9.4	9.7	11.5	7.7	12.5	13.6
Total imports and NFS	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	100:0

Source: Team's estimate based on the figures shown in Table ANX II-9

ANNUAL CHANGE AND GROWTH OF EXPORTS AND IMPORTS, 1975/76 - 1982/83

		Annı	Annual Change Age	Change Against Previous Year (%)	s Year (8)			Averag	e Annual Grow	th (8)
	1976/77	82/7761	1978/79	1979/80	1980/81	1981/82	1982/83	1975/76 - 1978/79	776 1978/79 1975 8/79 - 1982/83 - 19	1975/76 - 1982/83
Exports										
Agricultural produces Metals and minerals	+59.4	+23.5	+10.4	6.65+	-16.5	-36.1	7.7-	+29.5	-5.8	+8.0
(excluding oil)	+24.5	+13,4	+20.4	+39.4	+27.1	-2.3	-10.6	+19.4	+11.5	+14.8
Manufactures	+36.1	+25.0	+40.0	+30.3	+20.8	+26.5	6.9+	+33.5	+20.8	+26.1
Total non-oil exports	+52.9	+22.5	+13.5	+55.1	+90.5	+74.6	8°51	+28.6	-0.3	+11.2
Oil and LNG	+17.4	+15.8	+0.3	+67.3	+40.2	£ 8+	-21.7	+10.9	+I8.9	+15.4
Total exports	+26.5	+17.9	+4.5	+63.0	+23.6	+24.2	-18.8	+15.9	+13.2	+14.4
Imports			,							
Food	+22.7	+59.6	-14.5	+47.3	+6.6	+10.2	-20.8	+18.7	+8.2	+12.6
Other consumer goods	+30.0	+8.1	+22.4	+6.1	447.9	+37.6	+54.2	+19.8	+35.1	+28.3
Intermediate goods	-0.1	+21.9	+12.6	+36.7	+22.1	+16.6	+4.2	+11.1	+19.3	+15.7
Capital goods	+36.3	6.9+	+3.2	+2.1	+46.9	+30.0	+13.8	+14.6	+22.0	+18.8
Total non-oil imports	+21.2	+17.4	+4.2	+19.7	+31.1	+23.0	+8.7	+14.0	420.3	+17.6
Oil sector	+16.7	+10.2	+15.6	-12.6	+37.8	+33.5	-11,2	+14.1	+6 3	+11.4
Non-factor services (net)	+42.0	+9.4	+6+	+111.1	+37.6	+53.0	-34.1	+19.3	+30.8	+25.7
Total imports and NFS	+20.8	+14.9	+7.6	+14.9	+33.2	+28.3	-1.0	+14.3	+18.1	+16.4

Source: Team's estimate based on the figures shown in Tables ANX II-8 and ANX II-9

CENTRAL GOVERNMENT BUDGET SUMMARY, 1973/74 - 1983/84

										4	,
	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	18/0861	1981/82	1982/83	1983/84
1. Domestic revenue	7.796	1,753.7	2,241.9	2,906.0	3,534.4	4,266.1	6,696.8	10,227.0	12,212.6	12,418.3	14,432.7
2. Routine expenditures /a	713.3	1,016.1	1,332.6	1,629.8	2,148.9	2,743.7	4,061.8	5,800.0	6,977.6	6,996.3	8,411.8
3. Government saving (1-2)	254.4	737.6	909.3	1,276.2	1,385.5	1,522.4	2,635.0	4,427.0	5,235.0	5,422.0	6.020.9
4. Development expenditures	450.9	961.8	1,397.7	2,054.5	2,156.8	2,555.6	4,014.2	5,916.1	6,940.0	7,359.6	9,899.2
5. Balance (3-4)	-196.5	-224.2	-488.4	-778.3	-771.3	-1,033.2	-1,379.2	-1,489.1	-1,705.0	-1,937.6	-3,878.3
Financed by:											
6. Counterpart funds /b	8.68	36.1	20.2	10.2	35.8	48.2	64.8	64.1	45.1	15.1	14.9
7. Project aid 8. Change in balances	114.1	195.9	471.4	773.6	737.6	987.3	1,316.3	1,429.7	1,663.9	1,924.9	3,867.5
(- = increase)	-7.4	17.8	-3.2	-5.5	-2.1	-2.3	6.4-	-4.7	-4.0	-2.4	-4.1

/a Includes debt service payments. /b Program aid.

Source: Ministry of Finance

CENTRAL GOVERNMENT RECEIPTS, 1973/74 - 1983/84

	14/6701	24/ 100	26/ 260 5		01/110	01/0101	00/0101	10,0001	00/1001	(RP)	
	#1/C/ET	C1/8/64	01/0161	11/0/67	19///8	13/8/13	19/8/61	79/n867	79/1961	1304/03	1307/04
Taxes on income	34.4	1,228.7	1,592.1	2,046.6	2,511.3	2,996.3	5,129.3	8,230.3	10,100.3	10.009.9	11,605.1
Corporate tax	44.2	91.2	128.2	127.2	169.5	226.5	297.1	447.6	559.1		757.4
Corporate tax on oil	344.6	973.1/a	1,249.1	1,619.4	1,948.7	2,308.7	4.259.6	7,019,6	8,627.8	_	9,520.2
Withholding tax	56.8	83.3	97.3	148.4	201.7	232.5	291.3	433.5	513.0	641.9	628,1
IPEDA	19.5	28.0	34.6	42.2	52.5	63.1	71.4	87.2	94.5		132.4
Other	5.5	8.6	21.2	25.2	34.3	43.3	61.8	78.2	98.7		168.2
Taxes on domestic consumption	165.4	158.6	231.3	319.6	397.8	491.4	537.2	732.9	888.0	1,137.4	1,392.1
EXTING STATE	61.7	74.4	97.9	130.7	181.9	252.9	326.4	437.9	544.2	620.1	773.2
Other oil revenues	37.6	-15.9	7	15.9	q/-	q/-	q/-	م /-	q/-	₫/-	q/-
Miscellaneous levies	11.5	15.2	15.9	10.7	12.5	17.4	18.6	29.4	33.1	40-7	43.7
Taxes on international trade Import duties	247.5	299.8	308.1	421.3	481.7	587.0	843.0	948.1	536.2	835.4	916.0
Sales tax on imports	50.7	6.89	72.5	102.2	114.6	125.5	137.2	195.1	223.3	231.0	255.0
Export tax	68.6	70.3	61.6	61.7	80.2	166.2	389.1	305.0	128.4	82.5	104.0
Non-tax receipt	49.8	66.6	110.4	118.5	143.6	191.4	187.3	315.7	336.4	435.6	519.5
Domestic revenue	967.7	1,753.7	2,241.9	2,906.0	3,534.0	4,266.1	6,596.8	10,277.0	12,212.6	12,418.3	14,432.7
Development funds Counterpart funds /c	203.9	232.0	491.6	783.8	773.4	1,035.5	1,381.1	1,493.8	1,709.0	1,940.0	3,882.4
Project aid /d	114.1	195.9	471.4	773.6	737.6	987.3	1,316.3	1,429.7	1,663.9	1,924.9	3,867.5
Total revenues	1,171.6	1,985.7	2,733.5	3,689.8	4,307.8	5,301.6	8,077.9	11,720.8	13,921.6	14,358.3	18,315,1

Excludes under payment of revenues, estimated at about Rp. 340 billion, due to the Government by PERTAMINA. Oil subsidies shown as government expenditures (see Table 5.3).

Includes commercial bank and suppliers' credits for development programs/projects. Since 1984/85 withholding tax neglected and combined with income tax. Clasification changed to other tax and included in miscellaneous levies. Since 1984/85 clasification changed to value-added tax and tax on luxury goods. Program aid. **리인인민비번**의

Source: Ministry of Finance

DEVELOPMENT EXPENDITURES BY SECTOR, 1975/76 - 1983/84

									(Rp. billion)
Sector	1975/76	1976/77	81/1161	97/8761	1979/80	1980/81	1981/82	1982/83	1983/84
Agriculture and irrigation	257	356	380	450	508	929	954	931	913
(or which refullizer subsidy)	(135)	(101)	(32)	(83)	(125)	(284)	(371)	(420)	(324)
Industry and mining	124	195	139	205	356	491	827	913	2,153
Electric power	128	218	223	272	376	431	530	758	660
Transportation and tourism	312	429	355	41.3	466	780	807	876	1,527
Manpower and transmigration	12	27	19	95	162	326	417	436	456
Regional development	173	190	251	275	336	482	919	711	749
Education	114	136	211	251	362	575	726	703	1,032
Health	38	48	7.1	79	142	218	286	259	279
Housing and water supply	13	30	90	26	117	191	166	151	221
General public services /a	72	114	123	225	473	700	800	785	899
Government capital									
participation	115	225	1.90	162	466	389	389	281	234
Others /b	40	87	63	73	250	404	422	556	176
Total development									
expenditures	1,398	2,055	2,157	2,556	4,014	5,916	6,940	7,360	6,899
Total (excluding fertilizer subsidies)	1,264	1,948	2,125	2,473	3,929	5,633	6,569	6,940	9,575

Law and order, defense and security, government apparatus. Trade and cooperatives, religion, information and science. From 1979/80 includes natural resource development and environment. ह्य वि

Source: Ministry of Finance

PROJECT AID BY SECTOR, 1975/76 - 1983/84

)	(Rp. billion)
Sector	1975/76	1976/77	1977/78	1978/79	1979/80	18/0861	1981/82	1982/83	1983/84
Agriculture and irrigation	43.0	106.7	145.5	135.2	154.5	223.0	135.9	101.0	155.0
Industry and mining	76.4	137.3	95.4	199.0	306.8	225.9	580.9	733.8	1,051.0
Electric power	89.7	165.2	163.9	207.8	257.2	264.9	308.2	206.0	1,182.0
Transportation and tourism	226.5	303.8	212.9	249.7	192.4	308.0	263.6	332.1	889.0
Manpower and transmigration	9.0	1.0	8.6	11.6	23.0	31.1	30.5	14.9	45.0
Regional development	4.0	1.5	7.9	7.9	18.2	23.6	16.7	2.6	7.0
Education	7.3	5.3	. 29.5	35.3	42.8	50.0	36.7	24.2	211,0
Health	6.9	ა. ზ.	14.8	21.7	34.4	36.2	33.6	23.7	37.0
Housing and water supply	2.8	2.9	28.1	18.3	28.1	33.0	21.7	21.2	51.0
General public services	i	ı	l	54.1	174.9	153.8	180.0	83.2	152.0
Government capital participation	6.7	7.3	23.1	33.1	34.3	35.6	27.9	46.7	45.0
Others <u>/a</u>	11.1	36.7	6.7	13.6	49.7	44.6	28.2	35.5	42.0
Total project aid <u>/b</u>	471.4	773.6	737.6	987.3	1,316.3	1,429.7	1,663.9	1,924.9	3,867.0

 $\frac{2}{2}$ Since 1979/80 includes natural resource development and environment. $\frac{2}{2}$ Includes commercial credits for development programs/projects.

Source: Ministry of Finance

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APPROVED FOREIGN INVESTMENT BY SECTOR, 1967-83 /a

									(US\$ million)
Sector	1967–76	1977	1978	1979	1980	1981	1982	व/६८६१	Total 1967-83
Agriculture	84.4	21.4	3.1	22.2	50.2	25.0	15.9	1	222.2
Forestry	147.3	28.5	38.6	39.7	38.6	157.6	63.3	ı	513.6
Fishery	45.3	2.7	16.6	38.4	2.9	21.6	6.2	i	133.7
Mining & quarrying	1,057.4	0.5	38.1	350.0	3.0	17.0	226.4	19.0	1,711.4
Manufacturing Food	2,819.6	245.0	280.8	1,516.2	708.9	854.4	1,245.9	1,751.6	9,422.4
iles & leather	842.6	6.89	113.8	91.4	77.4	138.6	46.9	11.9	1,391.5
	22.3	1 1	0.1.	0.9	11.2	123.6	15.5	12.9	192.5
Paper & paper porducts Chemicals & rubber	308.5	50.3	0 .v.	10.4 380.2	282.2	25.5	1 15°	628.9	786.0
Nonmetallic minerals	310.9	18.3	19.7	76.7	222.1	20.1	62.5	11.9	742.2
Ferrous metals	820.4	18.4	6.6	843.5	1	84.8	3.6	819.2	2,599.8
Metal products	248.7	72.1	1.86	44.5	8.86	143.0	759.5	141.6	1,606.3
Other	3.0	ı	6.9	ı	0.7	i	ı	ı	12.6
Construction	62.4	2.5	4.6	0.5	7.7	48.8	30.9	ਨ ਜ	159.7
Trade & wholesale Wholesale trade Hotels	167.8 11.7 156.1	7.0	9.7	3.0	38.6	ili i	19.2	25.0 - 25.0	270.3 13.9 256.4
Transport & communication Transport Communication	44.6	IJI t	1]] 1	0.5	31.6	1] 1 1	17.8	1] 1 1	94.2
Real estate & business services	234.8	20.2	4.	45.2	ı	23.4	204.9	92.6	625.6
Other services	14.7	ı	ı	ı	2.0	í	t	1	1
Total	4,663.6	327.9	396.7	2,015.4	881.5	1,147.8	1,830.5	1,889.7	13,153.1

 $\frac{\sqrt{a}}{D}$ Intended Capital Investment. Amounts represent original approval plus approved expansion minus cancellation.

Source: Investment Board

IMPLEMENTATION OF FOREIGN INVESTMENT BY SECTOR, 1967-83

Sector	1967-76	1977	1978	1979	1980	1981	1982	1983/8	(US\$ million) Total 1967-83
Agriculture	40.2	12.5	10.1	4.3	14.5	13.0	8.3	2.3	102.7
Forestry	260.3	22.1	15.0	19.2	26.2	34.9	11.0	2.6	391.3
Fishery	67.8	2.8	13.5	10.5	7.9	0.4	0.6	1	111.9
Mining & quarrying	299.2	20.1	57.3	47.5	49.4	70.0	32.2	17.7	593.4
Manufacturing	1,726.6	186.2	267.0	192.0	235.4	243.5	378.9	220.3	3,449.9
Food	136.4	11.9	14.9	7.1	7.4	15.8	7.1	1.2	201.8
Textiles & leather	716.9	27.9	31.4	41.7	78.7	102.5	69.7	14.1	1,082.9
Wood & wood products	20.7	1.4	0.4	0.1	2.3	2.2	23.9	8.0	9.09
Paper & papar products	17.9	9.6	11.8	1.4	6.1	2.5	1.6	ı	6.03
Chemicals & rubber	237.9	28.0	71.7	44 8 6	32.0	44.5	164.9	110.5	734.4
Nonmetallic minerals	210.8	42.9	0.6	2.5	30.0	30.9	4. C	6.41	292.1
Ferrous metals	111.8	27.8	37.8	5.7.5	23.9	6.00	28.5	54.0	339.2
others	10.8	1.3	0.1	10.2	2.0	. t.	. I	2.0	26.5
Construction	34.5	3.0	1.4	12.0	8.0	9.0	6.9	ı	59.2
Trade & Hotels	79.8	6.2	17.2	4.3	0.4	2.9	П	0.2	111.0
Wholesale trade Hotels	10.1	6.2	0.7	4.3	0.4	2.0	1 1	0.2	13.5
Transport & Communication	16.3	2.0	4.7	21.9	4.8	1.3	11	П	51.0
Transport Communication	6.6	1.8	3.4	21.8	2.1	1.1	1 1	l i	15.2
Real estate & busines services	76.5	3.8	14.0	6.9	7.2	12.4	6.1	3.8	130.7
Others	109.5	0.1	0.0	ı	ı	ı	ı	1	114.6
Total	2,710.7	258.8	405.2	318.6	346.6	379.0	449.9	246.9	5,115.7

/a Preliminary estimates.

Source: Bank Indonesia

APPROVED DOMESTIC INVESTMENT /a BY SECTOR, 1968-82

							(Rp	(Rp. billion)
Sector	1968–75	1976	1977	1978	1979	1980	1981	1982/5
Agriculture, fisheries & livestock	9*68	42.3	49.4	100.4	36.4	126.9	192.0	511.0
Forestry	178.7	35.1	64.0	58.5	81.8	397.6	313.0	182.0
Mining	50.0	ı	ı	18.3	32.9	37.1	13.5	453.0
Manufacturing	1,125.3	174.6	401.4	531.2	502.3	861.5	1,791.0	2,096.0
Textile Chemicals Flooting manufacturing	405.5 178.8	42.5	75.0	167.6	41.8	143.6	96.0	77.0
Other manufacturing	516.8	134.3	227.7	260.6	318.5	286.3	802.0	1,477.0
Construction	14.2	-1.2	1	2.6	2.1	1.5	15.1	16.0
Hotel	79.7	8.9	4.1	11.6	12.4	1.0	52.6	70.0
Real estate	92.4	41.3	35.2	15.0	3.8	24.0	-12.5	71.0
Others	111.7	7.4	19.9	24.2	16.9	53.9	61.0	461.0
Total	1,741.6	276.3	574.5	761.8	688.6	1,503.6	2,426.0	3,860.0

 $\angle a$ Intended capital investment. Pigures represent original approvals plus approved expansions minus cancellations. $\angle b$ Preliminary estimate.

Source: Investment coordinating Board

PROJECTED BALANCE OF PAYMENTS (1984/85 - 1988/89)
(REPLITA IV)

	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(US\$ million)
	1984/85	1985/86	1986/87	1987/88	1988/89
A. Trade and services					
1. Exports (FOB)	19,875	22,433	25,332	28,223	31,116
Non-oil/LNG	6,050	7,009	8,015	9,215	10,753
Oil	10,644	11,873	13,463	14,664	15,766
LNG	3,181	3,551	3,854	4,344	4,597
2. Imports (FOB)	-17,287	-18,979	-20,844	-22,906	-24,799
Non-oil/LNG	-13,190	-14,482	-16,011	-17,636	-19,194
Oil	- 3,885	- 4,260	- 4,573	- 4,979	- 5,304
LNG	 212	- 237	- 260	- 291	- 301
3. Services (net)	- 7,257	- 8,026	- 8,570	- 9,087	- 9,548
Non-oil/LNG sector	- 4,283	- 4,736	- 4,931	- 5,021	- 5,166
Oil sector	- 1,845	- 2,003	- 2,221	- 2,445	- 2,656
LNG	- 1,129	- 1,287	- 1,418	- 1,621	- 1,726
4. Current Account	- 4,669	<u>- 4,572</u>	- 4,082	<u>- 3,770</u>	- 3,231
Non-oil/LNG	-11,423	-12,209	-12,927	-13,442	-13,607
Oil	4,914	5,610	6,669	7,240	7,806
LNG	1,840	2,027	2,176	2,432	2,570
B. Official Capital	5,481	5,079	5,070	5,568	5,713
1. Program aid	67	42	44	48	51
2. Project aid	3,248	4,037	4,352	4,920	5,278
3. Others	2,166	1,000	674	600	384
C. Official debt	- 1,297	- 1,380	- 1,665	- 2,169	- 2,536
prepayments D. Private capital	695	1,097	927	821	692
E. Monetary movements	- 210	- 224	- 250	- 450	- 638
F. Error and omissions	3 -		-	_	eno-

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NUMBER OF ESTABLISHMENTS AND PERSONS ENGAGED IN THE MANUFACTURING SECTOR (LARGE - AND MEDIUM - SCALE ESTABLISHMENTS: 1974/75 -1983)

١			-											
, 1	224-0-126-24		Mumbe	r of Esta	Number of Establishments	S			Persons	Persons engaged (1,000 persons)	1,000 per	(sous)		
101		1974/75	1979	1980	1981	1982	1983	1974/75	1979	1980	1981	1982	1983	
31	Food, beverages, and tabacco	2,367	2,420	2,489	2,341	2,268	2,395	268	295	321	321	324	322	
		(33.4)		(30.9)	(29.5)		(29.0)	(40.5)	(33.9)	(33.1)	(31.7)	(30.4)	(28.8)	
32	Textile, wearing apparel,	2,066	2,147	2,188	2,153	2,088	2,065	174	227		265	266	301	
	and leather	(29.1)	(27.0)	(27.2)	(27.1)	(26.0)	(25.0)	(26.3)	(26.1)	(26.6)	(26.2)	(24.9)	(26.9)	
33	Wood and wood products;	407	633	620	647	705	717	22	51.		17	97	92	
	including furniture	(5.7)	(7.9)	(7.7)	(8.1)	(8.8)	(8.7)	(3.3)	(8.9)	(6.7)	(7.0)	(9.1)	(8.2)	
34	Paper and paper products;	289	358	363	366	378	384	22	30	32	32	37	36	
	printing and publishing	(4.1)	(4.5)	(4.5)	(4.6)	(4.7)	(4.7)	(3.3)	(3,4)	(3.3)	(3.5)	(3.5)	(3.2)	
35	Chemicals; and chemical, /a	899	823	837	851	920	979	. 48	104	110	121	132	145	
	petroleum, coal, rubber	(12.7)	(10.3)	(10.4)	(10.7)	(11.5)	(11.9)	(12.7)	(12.0)	(11.4)	(12.0)	(12.4)	(13.0)	

1,067 1,012 (100.0) 8,245 662 870 969 (100.0) (100.0) (100.0) 7,942 8,020 (100.0) 8,054 7,960 7,091 Manufacturing-total

(7.0)

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93

95

84

83 (1.0)

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(13.1)

(13.0)

121 (12,5)

106

56 (8.4)

880

(10.4)

(10.2)

(10.1)

796

(7.0)

500

Fabricated metal products, machinery, and equipment

38

Other manufacturing

39

industries

55 (4.9)

53

50 (4.9)

47 (4.9)

43

25 (3.8)

707 (8.6)

704

665 (8.4)

640 (7.9)

675 (8.5)

480 (6.8)

Non-metalic mineral products (except petroleum

36

and coal products)

Basic metals

37

and plastic products

13 (1.2)

10 (0.9)

10

6 (0.0)

(6.0)

(0.3)

25 (0.3)

22 (0.3)

23

22 (0.3)

18

1,119

Note: /a Excluding petroleum refinery.

SUBSECTORAL VALUE - ADDED IN THE MANUFACTURING SECTOR, 1975 - 1983 (LARGE - AND MEDIUM - SCALE ESTABLISHMENTS: AT FACTOR COST)

,		Valve	Valve added at	factor c	cost (Current	ent prices)	(\$;	Valve ad	added at fa	factor cost	(Constant	1975	prices) /b
o ret	Industry	1975	1979	1980	1981	1982	1983	1979	1980	1981	1982	gAGWth Rate(%) 1975/80	Annth Rate(%) 1975/82
꼂	Food, beverages, and tabacco	197.5 (41.0)	433.2 (33.6)	674.7	854.0	904.2	1,121.2	313.9 (41.2)	365.0 (38.8)	379.8 (37.1)	391.7	13.1	10.3
32	Textile, wearing apparel, and leather	86.0	198.2	292.4	317.9	391.5	533.5	92.9	98.3 (10.5)	103.6	99.1 (9.6)	2.7	2.0
e e	Wood and wood products; including furniture	18.3	59.9	153.3	204.9	247.1	199.5	37.8 (5.0)	66.5	80.4	72.2	29.4	21.7
3.4 4.	Paper and paper products; printing and publishing	17.2 (3.6)	44.7	63.1	56.0	76.0	64.0	24.3	24.4 (2.6)	24.4 (2.4)	23.7 (2.3)	7.2	4.7
33	Chemicals; and chemical, <u>/a</u> petroleum, coal, rubber and plastic products	71.7 (14.9)	224.9	360.8 (16.9)	467.2 (17.2)	476.5	549.9	139.2 (18.3)	175.3	197.5 (19.3)	199.8	22.5	15.8
36	Non-metalic mineral products (except petroleum and coal products)	25.7 (5.3)	113.3	152.7	201.7	154.8	191.8 (5.4)	70.3	81.7	89.8	92.5	26.0	20.1
37	Basic metals	1.1 (0.2)	58.8	67.0	79.5	67.7	72.6 (2.0)	4.6	10.6	12.8	10.0	57.3	27.5
æ K	Fabricated metal products, machinery, and equipment	63.7	153.2	357.7 (16.8)	533.1 (19.6)	576.8	826.4 (23.2)	77.4 (10.1)	116.8	132.0	136.2 (13.3)	12.9	11.5
99	Other manufacturing industries	1.1	4.2 (0.2)	8.3 (0.4)	8.1 (0.3)	9.5	10.0	1.6	1.9	2.2 (0.2)	2.1	11.6	7.6
1	Manufacturing-total	482.3	1,290.4	2,130.0	2,722.4	2,904.1	3,568.9	762.0	940.5	1,622.5	1,027.3	14.3	11.4

Note: /a Excluding petroleum refinery.

Source: U.N. Industrial Statistics for 1975 and 1979, B.P.S. for 1980 - 1983, and Team's estimates

GROSS OUTPUT VALUE AND VALUE - ADDED AT MARKET PRICE (LARGE - AND MEDIUM - SCALE ESTABLISHMENTS: 1981 - 1983)

}												(Rp. b	billions)
(F () F	,	(A)		Gross Output Value	ие	(B) Value	ie - Added at	l at Market	et Price))	(C) B/A Ratio	io (%)	
		1981	1982	1983	Average (1981/83)	1981	1982	1983	Average (1981/83)	1981	1982	1983 (1	Average (1981/83)
33	Food, beverages, and tabacco	2,902.1	3,260.7	3,892.8	3,351.9	1,154.4	1,275.0	1,522.7	1,317.4	39.8	39.1	39.1	39.3
32	Textile, wearing apparel, and leather	1,040.9	1,141.2	1,353.0	1,178.4	327.1	401.8	545.1	424.7	31.4	35.2	40.3	36.0
33	Wood and wood products; including furniture	513.7	702.0	513.2	576.3	209.7	255.1	207.0	223.9	40.8	36.3	40.3	38.9
34	Paper and paper products; printing and publishing	205.2	250.4	343.6	266.4	59.6	81.4	0.69	70.0	29.0	32.5	20.1	26.3
35	Chemicals; and chemical, <u>/a</u> petroleum, coal, rubber and plastic products	1,503.8	1,518.7	2,256.1	1,759.5	497.1	505.6	581.5	528.1	33.1	38.3	25.8	30.0
36	Non-metalic mineral products (except petroleum and coal products)	363.4	409.2	384.3	385.6	211.9	166.7	203.7	194.1	58.3	40.7	53.0	50.3
37	Basic metals	249.4	275.6	354.9	293.3	81.7	71.0	75.6	76.1	32.8	25.8	21.3	25.9
38	Fabricated metal products, machinery, and equipment	1,498.9	1,844.7	2,171.4	1,838.3	566.7	627.8	873.0	689.2	37.8	34.0	40.2	37.5
66	Other manufacturing industries	21.6	28.1	33.9	27.9	9.8	10.4	10.8	ę. ę.	39.8	37.0	31.9	35.5
	Manufacturing-total	8,299.0	9,430.6	11,303.2	9,677.6	3,116.8	3,394.8	4,088.4	3,533.3	37.6	36.0	36.2	36.5

Note: /a Excluding petroleum refinery.

FIXED CAPITAL FORMATION IN MANUFACTURING SECTOR (LARGE - AND MEDIUM- SCALE ESTABLISHEMENTS: 1980 - 1983)

												(Rp. b	billions)
C E		Fixed C	apital F	Fixed Capital Formation (FCF)	(FCF)	FC	FCF/VAM /b Ratio (8)	tatio (%)		FCF,	FCF/VAF <u>/c</u> Ra	<u>/c</u> Ratio (%)	
12.5		1980	1981	1982	1983	1980	1981	1982	1983	1980	1981	1982	1983
ᄄ	Food, beverages, and tabacco	56.2	62.8	136.5	100.4	6.0	5.4	10.7	6.6	8.3	7.4	15.1	0.6
32	Textile, wearing apparel, and leather	110.9	116.2	131.2	142.5	36.9	35.5	32.7	26.1	37.9	36.6	33.5	26.7
33	Wood and wood products; including furniture	43.8	45.6	122.8	89.7	27.6	21.7	48.1	45.0	28.6	22.3	49.7	45.0
34	Paper and paper products; printing and publishing	15.3	63.1		48.7	23.3	105.9	47.3	70.6	24.2	112.7	50.7	76.1
35	Chemicals; and chemical, <u>/a</u> petroleum, coal, rubber and plastic products	61.6	100.5	182,2	148,2	16.3	20.2	36.0	25.5	17.1	21.5	38.2	27.0
36	Non-metalic mineral products (except petroleum and coal products)	83.1	106.8	197.7	175.1	52.6	50.4	118.6	86.0	5. 4.	52.9	127.7	91.3
37	Basic metals	8.3	4.8	33.1	22.7	11.8	6 ° 10	46.6	30.0	12.1	0.9	48.9	31.3
38	Fabricated metal products, machinery, and equipment	58.9	76.7	176.3	137.5	15.2	13.5	28.1	15.8	16.5	14.4	30.6	16.6
99	Other manufacturing industries	1.9	0.3	2.4	2.1	21.6	3.5	23.1	19.4	22.9	3.7	25.3	22.1
	Manufacturing-total	439.8	576.8	1,020.7	866.9	17.8	18.5	30.1	21.2	20.6	21.2	35.1	24.3

Notes: <u>/a Excluding petroleum refinery.</u>
<u>/b VAM: Value-added at market price.</u>
<u>/c VAF: Value-added at factor cost.</u>

NUMBER OF ESTABLISHMENTS AND NUMBER OF PERSONS ENGAGED OF LARGE/MEDIUM, SMALL AND HOUSEHOLD MANUFACTURING ESTABLISHMENTS 1974/1975

		Number of Establ	tablishments	-		Persons	s Engaged	
Industry Code	Large/ Medium	Small	Household	Total	Large/ Medium	Small	Household	Total
31	2,367	24,275	434,284 (35.18)	460,926 (35.74)	268,388 (40.56)	151,194	1,401,117	1,820,759
32	2,066 (29,13)	5,792 (12.02)	139,680	147,538 (11.44)	174,246 (26.33)	55,375 (16.13)	435,124	664,745 (13,55)
33	407	5,456	534,862 (43,33)	540,725 (41.92)	22,368 (3.38)	41,680 (12.14)	1,644,004	1,708,052 (34.82)
34	289 (4.08)	867	2,628	3,784 (0.29)	21,982 (3.32)	8,067	9,478 (0.24)	39,527 (0.81)
35	899 (12.68)	1,382 (2.87)	5,317	7,598 (0.59)	83,802 (12.67)	12,422	20,946 (0.54)	117,170 (2.39)
36	480	6,749	80,599	87,828 (6.81)	24,597	46,916 (13.67)	263,203	334,716 (6.83)
37	18	1 1	1 1	18	2,060 (0.31)	1 1	1.1	2,060
8 8	500 (7.05)	2,957 (6.14)	15,432 (1.25)	18,889	55,867 (8.44)	22,113	55,773 (1.43)	133,753 (2.73)
თ ო	65 (0.92)	708	21,709 (1.76)	22,482	8,394	5,473 (1.60)	70,151 (1.80)	84,018 (1,71)
Total	7,091	48,186 (100.00)	1,234,511	1,289,788	661,704 (100.00)	343,240 (100.00)	3,899,856 (100.00)	4,904,800 (100.00)

Source: BPS

AII-25

VALUE OF GROSS OUTPUT AND VALUE ADDED (AT MARKET PRICE) OF LARGE/MEDIUM, SMALL, AND HOUSELHOLD MANUFACTURING ESTABLISHMENTS 1974/1975

		Value of Gross	ss Output			Value Added	at Market Price	
Industry Code	Y Large/ Medium	Small	Household	rotal	Large/ Medium	Small	Household	Total
33	543,872 (42.04)	86,019 (54.59)	114,093 (56.81)	743,984 (45.03)	226,754 (47.54)	25,637 (48.35)	37,300	289,691 (47.29)
33	232,881	21,113	18,191	272,185 (16.48)	72,213	6,263	7,133	85,609 (13.98)
e K	28,691	16,514 (10.48)	38,872 (19.36)	84,077 (5.09)	12,534 (2.63)	6,992 (13.18)	21,949 (26.58)	41,475 (6.77)
34	30,142 (2.33)	3,728	862	34,732 (2.10)	11,490 (2.41)	1,699	482 (0.58)	13,671 (2.23)
35	214,007	9,579	3,043 (1.51)	226,629 (13.72)	62,494 (13.10)	3,340 (6.30)	1,140	66,974 (10,93)
9 8	32,245	9,991 (6.34)	15,823 (7.88)	58,059 (3.51)	16,633	4,502	9,535	30,670 (5.01)
37	18,805	1 1	1 1	18,805 (1.14)	3,998 (0.84)	1 1	1 4	3,998
38	173,780	9,039	5,915 (2,94)	188,734	60,280 (12.64)	3,874 (7.31)	2,960	67,114 (10.96)
98	19,363	1,575	4,028	24,966	10,551	720 (1.36)	2,066	13,337 (2.18)
Total	1,293,786	157,558	200,827	1,652,171	476,947	53,027 (100.00)	82,565 (100.00)	612,539 (100.00)

NUMBER OF ESTABLISHMENTS AND NUMBER OF PERSONS ENGAGED OF LARGE/MEDIUM, SMALL AND HOUSEHOLD MANUFACTURING ESTABLISHMENTS 1979

		Number of Esta	Establishments			Persons	s Engaged	
Industry Code	Large/ Medium	Small	Household	Total	Large/ Medium	Small	Household	Total
TE	2,420	57,280 (50.68)	617,668 (43.56)	677,368 (44.02)	294,441	403,517 (48.79)	1,362,762 (48.76)	2,060,720
32	2,147 (26.97)	9,692 (8.57)	177,246 (12.50)	189,085 (12.29)	227,787 (26.18)	91,402 (11.05)	293,198 (10.49)	612,387 (13.63)
E E	633	15,144 (13.40)	434,376	450,153 (29.25)	51,221 (5.89)	110,932 (13.41)	735,816 (26.33)	897,969 (19.99)
3.4	358 (4.50)	1,263 (1.12)	1 1	1,621 (0.11)	29,876 (3,43)	11,931	1 t	41,807 (0.93)
35	823 (10.34)	1,786	1 1	2,609	103,803	17,363	1 1	121,166 (2.70)
36	675 (8.48)	19,814 (17.53)	104,997	125,486 (8.16)	43,000	133,687 (16.17)	221,113 (7.91)	397,800 (8.86)
37	22 (0.28)	1 1	1 1	22 (0.00)	8,247 (0.55)	1 1	t I	8,247
88 8	796 (10.00)	6,814 (6.03)	32,009 (2.26)	39,619 (2.57)	105,686 (12.15)	49,527 (5.99)	79,447	234,660 (5.22)
36	86 (1.08)	1,231	51,506 (3.63)	52,823 (3.43)	5,958 (0,69)	8,676	102,497 (3.67)	117,131 (2.61)
Total	7,960	113,024	1,417,802	1,538,786 (100.00)	870,019 (100.001)	827,035 (100.00)	2,794,833	4,491,887

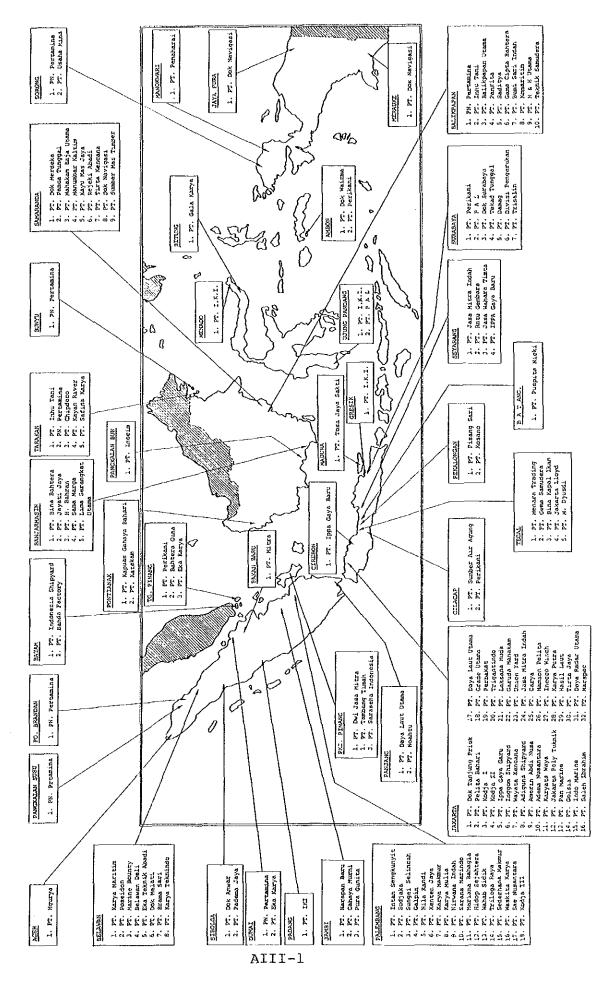
Source: BPS

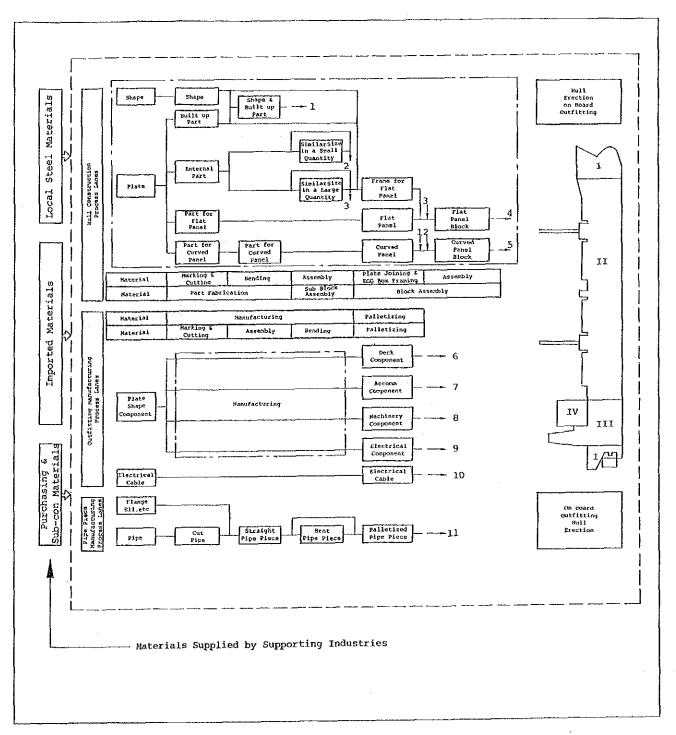
VALUE OF GROSS OUTPUT AND VALUE ADDED (AT MARKET PRICE) OF LARGE/MEDIUM, SMALL, AND HOUSELHOLD MANUFACTURING ESTABLISSMENTS 1979

		Value of Gros	Gross Output			Value Added	at Market Price	
Industry	Large/ Medium	Smal.1	Household	Total	Large/ Međium	Small	Household	Total
31	1,614,688 (34.87)	344,684 (57.36)	440,637 (58.94)	2,400,009 (40.14)	674,109	82,489 (44.04)	133,172 (45.69)	889,770 (41.59)
32	669,277 (14.45)	73,930	50,989	794,196 (13.28)	207,104	27,684	20,623	255,411 (11.94)
33	189,274 (4.09)	71,395	105,861	366,530	62,704	29,258	58,020 (19,91)	149,982 (7.01)
9. 4.	127,813 (2.76)	11,082 (1,84)	1 1	138,895	49,277 (2.97)	4,660 (2,49)	1-1	53,937 (2.52)
35	890,898 (19.24)	22,864 (3.81)	1 1	913,762 (15.28)	264,481 (15.93)	8,756 (4.67)	1 1	273,237
36	207,536 (4.48)	37,648 (6.27)	44,754 (5.99)	289,938 (4.85)	115,037 (6.93)	18,549	26,948 (9.25)	160,534
37	215,154 (4.65)	1 1	1 1	215,154 (3.60)	59,145 (3.56)	i i	1 1	59,145
38	696,257	34,918	42,724 (5.72)	773,899	223,688	14,151	23,079 (7.92)	260,918 (12.20)
36	19,717 (0.42)	4,410	62,577 (8.37)	86,704 (1.45)	4,914 (0.29)	1,776	29,600 (10.16)	36,290
Total	4,630,614	600,931	747,542	5,979,087	1,660,459	187,323 (100.00)	291,442 (100.00)	2,139,224

ANNEX III BASIC DATA FOR CAPACITY,
PRODUCTION AND TRADE OF GOODS
PRODUCED BY ASSEMBLY-TYPE
INDUSTRY

PETA LOKASI PERUSAHAAN-PERUSAHAAN GALANGAN KAPAL DI INDONESIA



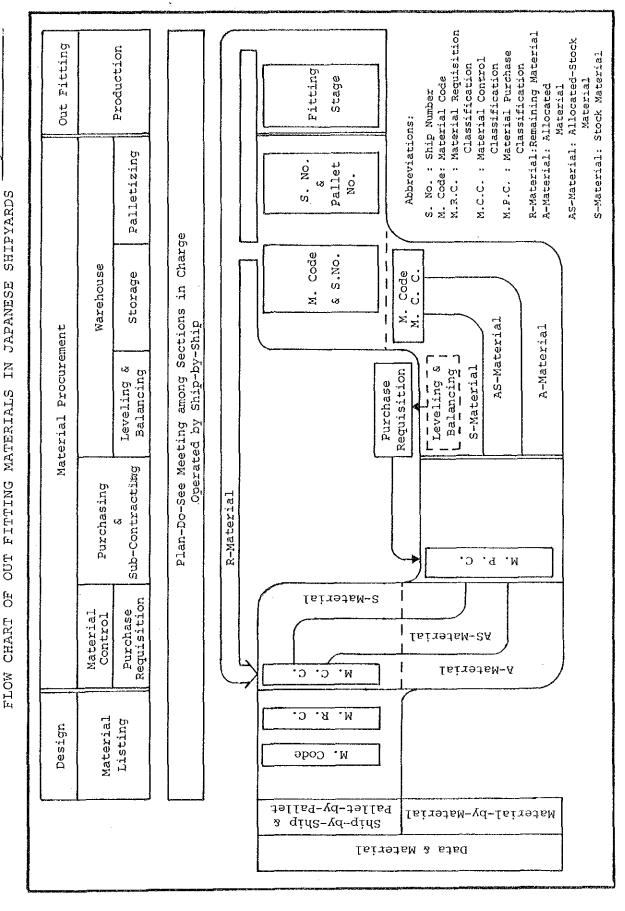


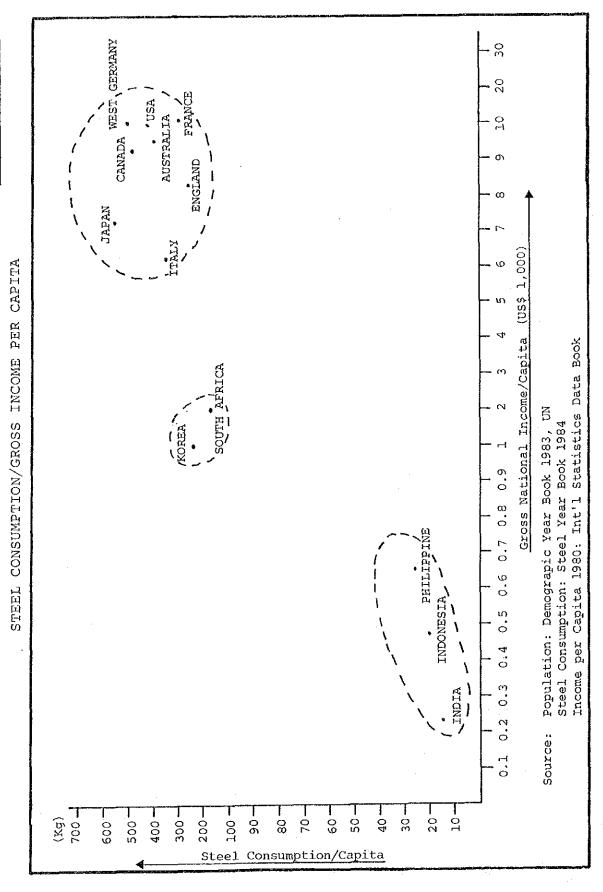
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J. William

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	HOWTHS	CLASS	INDONESIAM SHIPYARDS 3500 DWT TANKER, OMNER: PERTANIKA	PRELIMINARY SCHEDULE	T Mini-Crawol and Spanic of	ACTUAL SCHEDULE	KONTHS	CLASS	INDONESIAN SHIPYARDS	TYPICAL SCHEDULE		NONTHS	CLASS	JAPANESES SHIPYARDS	1500T CARGO TYPICAL SCHEDULE	10,000 - 20,000 CLASS CARGO TYPICAL SCHEDULE	80,000 TANKER TYPICAL SCHEDULE	250,000 TANKER TYPICAL SCHEDULE

III-5 Figure ANX OUT FITTING MATERIALS IN JAPANESE SHIPYARDS OF F





ESTABLISHMENTS, EMPLOYEES, VALUE ADDED AND LOCALIZATION BY INDUSTRY GROUP (1980) $\underline{1}\underline{/}$

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Code No.	Industry Group	Establish- ment (No.)	Employees (Fersons)	2/ Emp./Est. (Persons)	Value Added (Million RP)	Fixed Capital Formation (Million.RP)	Import 3/ Materials (Million RP)	Total 4/ Materials (Million RP)	5/ Localization (%)
38200	Machineries & repair incl. machineries & sewing machine assembling	132	12,055	91	34,944	3,444	34,128	41,317	17.4
38311	Storage batteries	12	1,029	86	3,650	308	5,398	5,620	4.0
38312	Dry cell battery	Ţ	5,932	539	12,592	2,284	17,767	19,803	10.3
38320		34	14,527	427	53,861	7,599	110,075	125,281	12.1
	communication equipment & apparatus								
38330	Electrical apparatus and supplies	53	15,706	296	59,671	5,106	58,018	77,169	24.8
38340	Electricity appliances	ო	194	65	199	7	62	340	81.8
38411	Ship building and repairing	42	7,034	167	20,287	2,016	4,514	9,943	54.6
38430		32	11,424	357	78,499	13,764	89,152	109,844	18.8
38440	Motor cycles and three wheel motor	35	5,568	371	35,758	1,610	68,522	105,861	35.3
	vehicles assembling and manufacturing								
38460	Motor vehicle body and equipment	50	4,284	86	6,917	2,738	7,579	13,186	42.5
38490		4	67	17	47	1	14	2.4	41.7
	Total	388	77,820	201	306,425	38,870	395,229	508,388	22.3

Notes:

The data are for medium & large-scale industries based on BPS classification (20 employees and above). Averaged employees per establishment.
Imported raw materials, intermediates, components and parts.
Imported materials plus local ones.
(1.0 - Import/Total) x 100

Statistik Industri, BPS Source:

ESTABLISHMENTS, EMPLOYEES, VALUE ADDED AND LOCALIZATION BY INDUSTRY GROUP (1981) $\underline{1/}$

Code No.	Industry Group	Establishment (No.)	Employees (Persons)	2/ Bmp./Est. (Persons)	Value Added (Million RP)	Fixed Capital Formation (Million RP)	Import 3/ Materials (Million RP)	Total 4/ Materials (Million RP)	Localization (%)
38200	38200 Machineries & repair incl. machineries s sewing machine assembling	128	12,658	66	44,694	10,107	47,400	60,581	21.8
38311	Storage batteries	13	1,147	88	6,214	810	5,038	6,572	23.3
38312		თ	6,229	692	12,846	1,697	22,469	25,713	12.6
38320		36	16,142	448	61,129	9,291	130,053	151,786	85.7
	communication equipment & apparatus								
38330	Electrical apparatus and supplies	55	15,095	274	62,608	11,845	60,659	81,309	25.4
38340		2	165	83	416		179	187	4.3
38411		46	7,261	158	26,963	1,742	5,377	10,915	50.7
38430		38	14,250	375	102,646	8,313	92,549	126,773	27.0
38440	Motor cycles and three wheel motor	14	6,869	491	143,905	4,457	86,732	135,111	35.8
	vehicles assembling and manufacturing	ייז							
38460	Motor vehicle body and equipment	55	5,740	104	11,146	9,802	664'6	17,273	45.0
38490		2	34	17	38	1	ı	70	100.0
	classified								
	Total	86E	. 85,590	215	472,605	58,065	459,955	616,290	25.4

Notes:

The data are for medium & large-scale industries based on BPS classification (20 employees and above). Averaged employees per establishment. Imported raw materials, intermediates, components and parts. Imported materials plus local ones. (1.0 - Import/Total) x 100 기의 의 의

Source: Statistik Industri, BPS

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ESTABLISHMENTS, EMPLOYEES, VALUE ADDED AND LOCALIZATION BY INDUSTRY GROUP (1982) 1/

Code No.	Industry Group	Establish- ment (No.)	Employees (Persons)	2/ Emp./Est. (Persons)	Fixed Value Added Capital (Willion RP) Formation (Willion R	Fixed Capital Formation (Million RP)	Import 3/ Materials (Million RP)	Total 4/ Materials (Million RP)	5/ Localization (%)
38260	38260 Machineries & repair incl. machineries & sewing machine assembling	131	13,007	66	54,641	7,197	42,481	63,244	32.8
38311	Storage batteries	15	1,364	91	7,053	2,473	6,338	7,687	17.5
38312	Dry cell battery	σ	4,874	542	15,780	1,561	22,735	26,874	15.4
38320	Radio, T.V. cassette and other	36	15,340	426	73,605	8,696	116,188	135,574	14.3
	communication equipment & apparatus			;					
38330	Electrical apparatus and supplies	56	15,129	270	91,320	16,705	91,665	104,775	12.5
38340	Electricity appliances	7	165	83	308	Ħ	233	576	59.5
38411	Ship building and repairing	54	8,090	150	27,018	9,698	8,057	20,307	60.3
38430	Motor vehicles assembling & mftg.	42	14,354	342	91,546	24,607	120,023	150,340	20.2
38440	Motor cycles and three wheel motor	13	7,486	576	90,543	16,624	166,584	241,551	31.0
	vehicles assembling and manufacturing								
38460	毙	58	6,257	108	20,175	4,252	8,212	17,762	53.8
38490	Transport equipment not elsewhere classified	4	6,488	1,622	8,500	38,741	28,899	30,866	6.4
	Total	420	92,554	220	480,489	130,555	611,415	799,556	23.5

Notes:

The data are for medium & large-scale industries based on BPS classification (20 employees and above). Averaged employees per establishment. Imported raw materials, intermediates, components and parts. Imported materials plus local ones. (1,0 - Import/Total) x 100

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Statistik Industri, BPS Source:

Table ANX III-4
CAPACITY, PRODUCTION DEMAND OF MACHINE TOOLS (1982 - 1987)

		 			<u> </u>			(Uni
			1982	1983	1984	1985	1986	1987
٠oľ	Kind of machine				Capac			
	tools				proqu dema	ction		
						<u></u>		
			300	300	700	700	700	1,200
1	Lathe	Unit	127	183	250	300	450	700
_		5	3,000	3,400	3,700	4,200	4,900	5,250
			550	550	550	550	550	2,000
2	Drilling machine	Unit	71	130	225	350	550	1,500
٤	Diffilling machine	01120	1,200	1,600	2,500	3,600	4,400	5,600
			100	100	100	100	100	100
3	Sawing machine	Unit	30	30	50	75	100	100
J	Dawing machine	· UILL	8,800	8,800	8,950	9,120	9,280	9,440
			250	250	250	250	250	550
4	Milling machine	Unit	25	25	50	100	250	400
•	matrially macritic		500	600	650	700	800	800
			100	100	100	100	100	100
5	Bending machine	Unit	25	25	25	50	75	100
-	201142-19 1114013-115		200	400	700	1,000	1,500	2,000
			_	_	100	100	100	100
6	Shaping machine	Unit	_	_	20	40	60	75
•			75	75	75	100	100	150
			_	-	25	25	50	50
7	Grinding machine	Unit	_	-	25	25	50	50
			25	25	25	30	50	70
			100	100	100	100	100	100
8	Rolling machine	Unit	10	15	25	35	50	75
•			1,100	1,400	1,520	1,630	1,740	1,850
			100	100	100	100	100	100
9	Shearing machine	Unit	15	20	50	60	75	100
•	3		300	300	360	430	490	750
0	Dies, mold, jigs,		3,000	3,000	11,500	11,500	11,500	11,500
	& fixtures	Ton	150	150	1,000	3,000	4,500	6,500
			11,500	11,500	11,800	12,200	12,400	12,700
1	Special machine		_	_	250	250	250	250
-	tools	Unit	***		20	60	80	135
		==	90	90	124	132	160	200

Source: PENGEMBANGAN KAPASITAS NASIONAL SECTOR INDUSTRI 1984-1987, MOI, 1984

IMPORT OF MACHINE TOOLS (1982-1984)

KIND OF MACHINE TOOLS	_	NTITY NIT)	NET WEIGHT (TON)
Machine tool operating by electricity,	1	1,942	880
ultrasonic	2	406	473
uttrasonic	3	1,726	327
Gear cutting machine	1	75	69
	2	74	6
	3	12	5
Lathe	1	2,301	2,765
	2	1,512	1,790
	3	1,053	1,032
Reaming or milling machine, metal	ı	358	374
working	2	597	299
•	3	620	354
Drilling or boring machine	1	4,863	980
-	2	4,540	498
•	3	3,973	482
Sawing machine	1	4,385	279
•	2	454	111
	3	2,807	130
Plating machine	1	126	146
	2	604	70
	3	140	89
Tapping or screw cutting machine	1	196	134
	2	271	39
	3	425	51
Sharpening, trimming, trucing, grinding,	1	-	1,248
polishing	2	-	594
	3	-	720
Other metal working press	1	_	4,130
grinding, polishing	2	-	3,475
	3	-	1,798
Forging machine, strapping machine	1		90
	2	_	10
•	. 3	~	54
Bending, forming, folding or flattening	1	-	849
	2	-	909
	3	-	479
Shearing, punching or notching	1	-	619
	2	-	501
	3	-	1,042
Other machine tools for working metal	1	-	5,838
	2	-	5,696
	3		4,716

NOTE

^{1: 1983} 2: 1983 3: 1984 SOURCE: IMPORT STATISTICS, IBPS

Table ANX III-6
CAPACITY, PRODUCTION AND DEMAND OF AGRICULTURAL MACHINE AND EQUIPMENT

,						(Unit:	number)
Item		1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
1. Hand tractor	. Capacity	2,150	2,150	2,150	2,150	2,150	2,150
•	. Production	1,055	1,270	1,500	1,700	1,900	2,150
	. Demand	4,000	5,000	8,000	15,800	20,500	33,000
2. Mini tractor	. Capacity	200	200	200	200	200	200
12-22.5KW	. Production	116	100	125	150	175	200
	. Demand	1,200	1,500	3,000	3,500	4,000	5,000
3. Tractor	. Capacity	-	5,250	5,250	5,250	5,250	5,250
over 22.5KW	. Production	-	_	10	500	520	550
0,01	. Demand	-		2,000	2,200	2,500	2,900
4. Thresher	. Capacity	2,500	2,500	2,500	2,500	2,500	2,500
1. 1111.00110.	Production	1,279	1,284	1,500	1,700	2,000	2,500
	. Demand	3,000	5,000	10,000	20,000	40,000	78,000
5. Huller	. Capacity	6,100	6,100	6,100	6,100	6,100	6,100
J. nuller	. Production	1,678	1,559	2,000	3,000	4,000	6,000
	. Demand	32,000	34,000	39,000	46,000	54,000	72,000
6. Polisher	. Capacity	3,500	3,500	3,500	3,500	3,500	3,500
0, 10110110-	. Production	388	376	1,000	1,500	2,500	3,500
	. Demand	33,000	34,000	39,000	46,000	54,000	72,000
7. Rice milling	. Capacity	1,570	1,570	1,570	1,570	1,570	1,570
, . 1(x00 mxxxxxx	. Production	372	500	1,000	1,250	1,500	1,570
	. Demand	1,000	2,250	3,500	5,000	7,000	11,500
8. Irrigation	. Capacity	7,200	7,200	7,200	7,200	7,200	7,200
pump	. Production	2,110	3,065	5,000	5,500	6,000	7,200
L. comb.	. Demand	4,600	5,500	6,000	8,000	9,500	11,000
9. Hand sprayer	. Capacity	348	497	497	497	497	497
(1000 unit)	. Production	159	170	200	225	240	260
(2000 0000)	. Demand	160	172	185	200	217	236

Source: PENGEMBAGAN KAPASITAS NASIONAL SECTOR INDUSTRI 1984-1987, MOI, 1984

Table ANX III-7

IMPORT OF AGRICULTURAL MACHINE AND EQUIPMENT (1981-1984)

	······································			(Un	it: number)
CCCN Cođe No.	Item	1981	1982	1983	1984
8410200	Reciprocating pump	23,961	61,421	34,589	61,571
8410300	Centrifugal pump	8,032	11,695	23,132	7,239
8410400	Rotary pump	15,167	11,975	14,785	134
8425200	Combined harvester- thresher	(33.8 ton)	(206.6 ton)	(230.2 ton)	(3.3 ton)
8425300	Other harvester- thresher	(20.6 ton)	(233.1 ton)	(1,214.1 ton)	(18.1 ton)
8429111	Rice huller < 50kg	-	-	5	4,184
8429119	Rice huller > 50kg	~	7,315	5,158	5,476
8429190	Grain mill	-	11,186	11,619	6,168
8701111	Track laying tractor for agriculture CKD < 100KW	1	-	46	-
8701112	Track laying tractor for agriculture CKD > 100KW	25	-	1	1
8701121	Tractor for agricul. built up < 100KW	****	4	7	2
8701122	Tractor for agricul. built up > 100KW	-	27	2	15
8701911	4 wheel tractor for agricul, CKD < 20KW	-	71	80	20
8701912	4 wheel tractor for agricul, CKD 20-40KW	15	50	24	12
8701913	4 wheel tractor for agricul. CKD > 45KW	-	-	71	
8701921	4 wheel tractor for agricul. built up < 20KW	430	66	145	32
8701922	4 wheel tractor for agricul. built up 20-40KW	75	172	59	27
8701923	4 wheel tractor for agricul. built up > 45KW	528	751	636	251
8701941	2 wheel tractor for agricul. CKD	755	808	855	-
8701942	2 wheel tractor for agricul. built up	716	1,633	1,986	1,100
8701992	Other tractor for agricul. CKD, built up	238	212	1	-

Source: Import Statistics, 1981, 1982, 1983 and 1984, BPS

Table ANX III-8

PRODUCTION CAPACITY OF AGRICULTURAL MACHINE AND EQUIPMENT (1982)

Firm	Hand Tractor	Tractor	Thresher	Huller	Rice Mill Polisher	Dryer	Sprayer	Pump. Irriga Centri	tion or fugal
1. Sumber Sujaka								abt.	5,300
2. Sudono & Co.,									N.A.
3. Growth Sumatera									2,000
4. Fongso Indonesia	200								
5. Wira Sakti		200							
6. Biro Tehmk Djupri			1,500						
7. Aktiva Coy			70						
8. Mutof							1,000		
9. Promotor Indonesia									1,200
10. Rođa Tani	1,000				,				1,000
ll. Echo	1,200			2,500	3,300				1,000
l2. Glugur				1,160					
l3. Suratman			40						80
14. Guntur				1,200					
15. New Ruhak Ind. Ltd.	200					300		axial	2,400
l6. Lingga Wastu Jaya	360								
l7. Arika	400	600							
18. Bina Pertiwi	1,000	1,000							
l9. Indo Tani	1,000	1,000							
20. Yamindo	250	200	260	2,500	750				
21. Fa Teha	100		100						
22. Agrindo	2,500	2,000	50 0	900	600	150			
23. Buma Sakti	240		240			240			
24. Dwika									120
25. Ind. National Kemajuan			100	700	120 (Rice mill)				
26. Karya Hidup Sentosa	1,500		1,500	2,000	1,000				1,000
Total	9,950	5,000	4,310	10,960	5,770	690	1,000		14,100

Source: DIRECTORY Basic Metal Industry 1982, BKS-ILLMA

Table ANX III-9 (1)
CAPACITY, PRODUCTION AND DEMAND FOR CONSTRUCTION EQUIPMENT

It	Year em	1982/1983 Capacity Production Demand	1983/1984 Capacity Production Demand	1984/1985 Capacity Production Demand	1985/1986 Capacity Production Demand	1986/1987 Capacity Production Demand	1987/1988 Capacity Production Demand
1.	Crawler		1,065	1,065	1,065	1,065	1,065
	bulldozer	n.a.	22	530	643	739	879
			n.a.	650	715	786	982
2.	Hydraulic		635	635	635	635	635
	excavator	n.a.	10	160	176	194	232
			n.a.	230	253	291	348
3.	Motor		255	255	255	255	255
-	grader	n.a.	-	147	150	171	204
	J		138	150	165	190	226
4.	Wheel		340	340	340	340	340
-	loader	n.a.	1	120	168	193	230
			165	170	187	215	256
			2,295	2,295	2,295	2,295	2,295
1-4	Sub total	n.a.	-	957	1,137	1,297	1,545
			- `	1,200	1,320	1,482	1,812
5.	Road/vibro		1,000	1,000	1,000	1,000	1,000
	roller	n.a.	404	424	445	467	491
			500	525	551	579	607
6.	Stone	590	590	590	590	590	590
	crusher	18	18	20	125	135	150
		100	100	110	125	135	150
7.	Concrete	2,000	2,000	2,000	2,000	2,000	2,000
	mixer	1,200	1,200	1,300	1,800	1,900	2,000
		1,300	1,500	1,650	1,800	1,900	2,100
8.	Plate	500	500	500	500	500	500
	compactor	400	400	440	450	480	500
		450	500	500	600	650	700

Note: 1 to 4 are items stipulated by the deletion program.

Source: PENGEMBANGAN KAPASITAS NASIONAL SEKTOR INDUSTRI 1984-1987, MOI, 1984

LICENSED PRODUCTION CAPACITY OF CONSTRUCTION EQUIPMENT

Construction								(Unit)
Equipment	Crawler Bulldozer	Hydraulic Excavator	Motor Grader	Wheel Loader	Road Roller	Vibro Roller	Stone Crusher	Concrete Mixer
Pt. Komatsu Indonesia	555 (47)	75 (1)	90 (2)	75 (1)				
Pt. Natra Raya	410		165	160				
Pt. Triguna Utama Machinery		350 (23)						
Pt. Barata M & E					300	300	300	
Pt. Sakai Sakti					100		150	
Pt. Sydney Metal						٠	30	1,000 (480)
Pt. Boma Bisma Indra								50 (25)
Others	100	210		105		200	135	1
Total	1,065	635	255	340	'H	1,200	615	1,050

Note: () shows actual production in 1983.

Source: BUKU PEGANGAN PENGGUNAAN PRODUKSI DALAM NEGERI 1984, MOI, R.I.

Table ANX III-10

IMPORT OF CONSTRUCTION EQUIPMENT

	Quantity (unit)	Net weight (KG)	Value CIF (US \$)
Products	1982	1982	1982
1200000	1983	1983	1983
	1984	1984	1984
Mechanically propelled	39	231,895	772,430
road rollers in C-K-D	13	65,083	262,931
	4	15,592	38,530
Mechanically propelled	611	2,567,751	9,851,476
road rollers in built-up	458	2,208,367	6,669,732
	178	1,081,498	3,935,841
Parts of mechanically	-	161,604	706,022
propelled road rollers		65,448	221,297
	-	114,865	1,159,166
Bulldozers, angle dozers	1,488	21,764,527	80,875,876
and levellers self	95 7	11,644,019	43,866,070
propelled	623	8,721,248	38,982,183
Mechanical shovels and	••	10,926,355	32,093,198
excavators self propelled	_	8,295,477	19,243,332
		5,592,821	24,275,609
Other machines self	-	2,697,658	15,807,392
propelled		3,426,574	14,655,399
	-	1,903,653	11,072,786

(BUREAU OF STATISTICS)

Table ANX III-ll

PRODUCTION CAPACITY OF AUTOMOTIVE

(NBR) Brand Capacity Assembler P.T. Alun indah 1,500 Citroen, Berliet 20,000 P.T. Garmak motor Chevrolet, Opel 45,000 Daihatsu, Peugeot, Renault P.T. Gaya motor P.T. German motor mfg 8,000 Mercedes Benz Dodge, Ford, Fiat, VW, BMW AMC, Nissan P.T. Indonesia service co. 10,000 P.T. Imer motor 10,000 Nissan P.T. Indo mobil utama 20,000 Suzuki 3,500 Volvo, Nissan P.T. Ismac Mitsubishi P.T. Krama yudha ratu motor 60,000 p.T. krama yudha surabaya 50,000 Mitsubishi P.T. Krama yudha kusuma 6,000 Mitsubishi P.T. Multi astra 80,000 Toyota Mazda, Suzuki, Hino, Landrover P.T. National assembler 15,000 7,500 P.T. Pantja motor Isuzu Honda P.T. Prospect motor 10,000 Mitsubishi P.T. Permorin 10,000 P.T. Udatin 12,000 Holden 368,500 Total

Source: POTENSI INDUSTRI, 1984, MOI

Item	Capacity
Passenger car	55,275
Commercial car	313,225

Source: BUKU PEGANGAN PENGGUNAAN PROPUKSI DALAM NEGERI, 1984

Table ANX III-12

ACTUAL DELIVERY OF AUTOMOTIVE (1984)

				(NBR
Brand	Commercial Car	Passenger Car	General Purpose Car	Total
Daihatsu	33,637	3,270	1,827	38,734
Mitsubishi	32,693	1,681	***	34,374
Toyota	23,226	5,595	849	29,670
Suzuki	18,774	-	5,238	24,012
Honda	_	8,231	-	8,231
Isuzu	1,669	-	· <u>-</u>	1,669
Mazda	360	956	-	1,316
Hino	1,068	_		1,068
Nissan	-	357	133	490
UD nissan	176	-	-	176
Chevrolet	4,455	, -	405	4,860
Mercedes benz	1,753	758	. 75	2,586
Peugeot	_	1,067	_	1,067
Citroen	667	11		678
Jeep	_		625	625
Ford	26	575	-	601
Holden		444	b 0-	444
Renault	-	406	-	406
Volkswagen	391	-	-	391
Volvo	181	87		268
Opel	180	· _	_	180
BMW	-	174	·	174
Fiat		107	_	107
Landrover	· _		94	94
Berliet	58	_	_	58
Dodge	37	-		37
Simca	-	10	·	10
Tata	5		-	5
Total	119,356	23,729	9,246	152,331

Source: P.T. KRAMA YUDHA TIGA BERLIAN MOTORS

Table ANX III-13

ACTUAL DELIVERY OF AUTOMOTIVE (1985)

(From January to May)

(NBR) Commercial Car Passenger Car General Purpose Car Total Brand 13,663 967 1,205 15,835 Daihatsu 1,500 13,774 12,154 120 Suzuki 12,295 11,300 995 Mitsubishi 11,897 1,170 172 10,555 Toyota 3,405 3,405 Honda 1,052 376 676 Mazda 663 663 Isuzu 13 247 234 Nissan 227 227 Hino 2,334 952 1,382 Chevrolet 895 302 101 1,298 Mercedes benz 61.5 607 8 Ford 495 168 327 Opel 418 418 Peugeot 317 314 3 Citroen 196 196 Jeep 173 153 20 Volvo 164 164 Renault 114 Volkswagen 114 112 Berliet 112 61 BMW 61 35 35 Landrover 34 34 Holden 31 31 Fiat 9,508 4,174 65,792 52,110 Total

Source: P.T. KRAMA YUDHA TIGA BERLIAN MOTORS

Table ANX III-14

PRODUCTION AND DELIVERY OF AUTOMOTIVE

	(Pr	oduction)	(NBR)
Year	Passenger	Commercial	Total
1975	29,814	54,296	84,110
1976	31,258	51,093	82,351
1977	12,070	78,126	90,196
1978	15,174	91,733	106,907
1979	14,174	86,604	100,778
1980	22,468	151,267	173,735
1981	27,156	182,740	209,896
1982	29,680	159,965	189,645
1983	24,183	131,655	155,838
1984	23,368	130,302	153,670

Source: MOI, 1985

		(Del	ivery)	(NBR)
Year	Grand Total	Commercial Car	Passenger Car	General Purpose Car
1981	207,804	157,745	25,813	24,246
1982	188,780	133,634	30,096	25,050
1983	151,858	117,247	23,050	11,561
1984	152,331	119,356	23,729	9,246

Source: P.T. KRAMA YUDHA TIGA BERLIAN MOTORS

Table ANX III-15

PRODUCTION CAPACITY OF MOTOR CYCLE

		(NBR)
Assembler	Capacity	Brand
P.T. Harapan motor sakti	200,000	Yamaha
P.T. Federal motor	300,000	Honda
P.T. Indohero steel & eng. co.	200,000	Suzuki
P.T. Tunas bekasi motor co.	60,000	Kawasaki
P.T. Dan motor vespa indonesia	90,000	Vespa
P.T. Tunas bekasi motor	200,000	Binter
P.T. Tunas bekasi motor	60,000	Scooter
Total	1,110,000	·

Source: POTENSI INDUSTRI, 1984

Table ANX III-16
PRODUCTION AND DELIVERY OF MOTORCYCLE AND SCOOTER

	· · · · · · · · · · · · · · · · · · ·	(NBR)
	Delivery	Production
1974	233,000	n.a.
1975	254,176	300,700
1976	194,214	270,000
1977	239,289	302,000
1978	235,658	320,000
1979	190,744	212,572
1980	366,047	409,985
1981	515,682	503,273
1982	550,228	557,439
1983	361,777	362,300
1984	248,000	247,600

Source: PASUMI

CAPACITY, PRODUCTION AND DEMAND OF ELECTRICAL MACHINE & APPLIANCES

									(unit 1,000)
	Products	Item	Unit	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
1	Radio/radio	(1)	1,000	4,950	5,768	5,768	5,768	5,768	5,768
1	cassette	(2)	1,000	1,589	1,503	1,587	1,699	1,818	1,946
	Çabbecce	(3)		1,305	1,414	1,511	1,618	1,732	1,863
2	TV colour	(1)	1,000	700	965	965	965	966	965
-	17 001011	(2)	_,	232	189	279	298	320	342
		(3)		229	189	266	284	306	326
3	TV B/W	(1)	1,000	1,400	1,314	1,314	1,314	1,314	1,314
-	** -**	(2)		421	433	512	549	587	629
		(3)		412	433	488	522	599	599
4	Cassette	(1)	1,000	781	1,424	1,424	1,424	1,424	1,424
	recorder	(2)		366	288	466	499	534	572
		(3)		366	288	414	444	476	509
5	Room fan	(1)	1,000	878	1,356	1,356	1,356	1,356	1,356
		(2)		756	801	1,056	1,131	1,210	1,296
		(3)		756	801	960	1,028	1,100	1,178
6	Air condition	(1.)	1,000	142	317	317	31.7	317	317
		(2)		55	69	79	84	90	97
		(3)		55	69	76	80	85	92
7	Refrigerator	(1)	1,000	340	450	450	450	450	450
		(2)		152	139	176	190	206	227
		(3)		152	139	160	173	187	206
8	Electric iron	(1)	1,000	130	130	130	130	130	130
		(2)		33.7	35.7	40	42.5	44.8	47.4 47.4
		(3)		35.5	38.0	40	42.5	44.8	233
9	Rice cooker	(1)	1,000	53.2	233	233	233	233	68.5
		(2)		49.0	52	58	61.5	65 65	68.5
		(3)		51.5	56	58	61.5		8,000
10	Storage	(1)	1,000	4,059	4,557	6,500	7,000	7,500 7,343	7,862
	battery	(2)		3,521	4,080	6,405	6,869	•	6,562
		(3)		4,700	4,985	5,337	5,716	6,119 1,147,378	1,245,000
11	Dry battery	(1)	1,000	682,420	1,006,536	1,000,536	1,058,466	987,599	1,057,409
		(2)		576,600	633,600	861,566	922,603 768,835	822,999	881,174
		(3)		632,345	670,617	717,963	101,480	101,480	101,480
12	Lamp filament	(1)	1,000	100,400	101,480	101,480	68,192	73,482	78,682
		(2)		30,400	45,439	63,675 53,066	56,826	61,235	65,568
		(3)		45,563	49,239	22,200	22,200	22,200	22,200
13	•	(1)	1,000	21,000	22,200	17,476	18,715	20,032	21,446
	fluorescent	(2)		5,300	9,650	15,888	17,013	18,211	19,497
	_,	(3)	3 000	13,639	14,743 0.5	0.5	0.5	0.5	0.5
14	Blower	(1)	1,000	0.5 0.1	0.1	0.2	0.25	0.35	0.5
		(2)		1.8	1.8	2.3	2.5	3.0	3.4
15	a	(3)	1,000	62.0	62.0	62.0	62.0	76.0	76.0
1.5	Generator set	(1) (2)	1,000	26.4	33.8	37.4	41.1	45.4	50.0
		(3)		50.4	37.6	41.7	45.8	50.5	55.5
16	Electric motor	(1)	1,000	-	16.0	72	92	120	160
10	PIECELIC MOCOL	(2)	1,000		-	36	65	98	133
		(3)		_	297.2	333	337	410	450
17	Distribution	(1)	1,000	9.4	20.2	20,150	20,150	25,150	25,150
4,	transformer	(2)	-,	5.0	5.7	10,300	12,500	13,500	15,000
	CLUMSISTA	(3)		5.7	6.6	11,430	12,340	13,300	14,400
1.8	Power	(1)	1,000	-	20.0	40	40	60	60
,,,	transformer	(2)	-,	***	7.0	20	24	30	40
	Q. Q. D. L.	(3)			-	102	28	35	22
19	Low & medium	(1).	1,000	15.6	19.4	27,000	27,000	42,000	42,000
1.	voltage panel	(2)	-,	10.6	14.0	18,800	22,000	26,100	30,000
	torando Games	(3)		64.2	17.6	20,900	24,500	29,000	33,000
20	High voltage	(1)	1,000	-	0.6	0.6	0.6	0.6	0.6
~~	panel	(2)	•	-	0.1	0.17	0.25	0.31	
	F	(3)		-	-	0.83		360	0.14
21	Electric welding	(1)	1,000	_	9.0	9.0	9.0	9.0	9.0
~-	machine	(2)	•	_	1.8	4.0	5.0	6.0	8.0
		(3)		-	8.2	9.2	10.0	11.0	12.0
22	Kwh meter	(1)	1,000	_	920	1,120	1,120	1,550	1,550
-~		(2)	•	- '	500	700	900	1,160	1,160
		(3)		-	800	1,160	1,160	1,160	1,160
		•-•							

Note: (1) Capacity (2) Production (3) Demand

Source: PENGEMBANGAN KAPASITAS NASIONAL SECTOR INDUSTRI 1984-1987 MOI 1986

Noble Star Ele' Bumi Indah Cemirlang Acma Nusantara Acma Nusantara Besuki Indah Ele' Gloriseni Sirfirelect Industri Belbiru National Gabel Conic Industri Ben Elec' Nasional Telesonic Ele' & Dev Conic Industri Sinar National Sanyo Yasonta Indo Machine Bura Permai Duta Nanjak Jaya Pura Permai Duta Nanjak Jaya Pura Permai Manjak Jaya Pura Asia Permai Inte Valited Roxi Crown Gemini Elec' Star Cosmos Gemina Galindra		4.041.7 Dog 50.00	1 - 1	Air-Conditioner
<u>_</u>		LISULES	Generator Set	
_	n Cemirlang	Mega Eltra	Denyo Indonesia	National Govel
_	ass Corp'	Simens Indonesia	Cahaya Adi Alama	Pandda Raya
_	•	Sinar Angkasa Rungkat	P.M. Guntur	Indo Air-Con
_	st Industri	Mega Daya	New Age Eng'	Sanyo
_	Nasional	Mesindo Agun Eng'	Bina Pertini	Tjiparai
_	ıstri	Sinar Elec' S.E.B.	Imora Makmur	Benua First
_	jg i.	Otees Per Kasa	Adiasa Sakti	Nippon Denso
_		Fox Bord Per Kind Indonesia	Echo	Daikin
_		Mata Ram Indah	Impala Indah	Yansuli
_	74.	First Pura Jaya	B.B.I.	Natrik
_	ai Inte	Teknika	Wira Mustika Indah	Sehat Gembira Jaya Industri
•	S.C.	Abtolite Indah	Indo Coco Ltd.	Soli Tron
Pembina Galindra	91	Elemen	Sinar Jakarta Indah	Plas Copac
		Twink Indonesia	Ahli Teknik	Great Ancol
Multi Polor		Sidsam	Indra Makmur	Glor Seni
Scrotarius Jaya Ele'		Gim Megah	Poreindo Diesel	Hartono Istana Elec'
Sumber Harapan Asia Kaya		Allco Industri	Pabrik Mesin Guntur	Gumpita Work
Arta Pal Elec' Industri		Industri	Avk Indonesia	Jaya Ital Indo
rjiparai		Tata Komponik	Generator Indo	
Ratu Irama Intanasional		Hazemeyen Holee Indonesia		
Kumata Sari Indah		Icesa Eng'		
Echo		Sinar Angkasa Rungkat		
Hartono Istana Elec'		Panel Nusantara		
Mega Elec'		Metrika		
Panggung Elec'		Sinar Elenika Baru		
Segoro Waru Madu		Chaya Pelang Eng'		
Fore Front		Viva Elec' Corp'		
		Jaya Kencan		
		Jaya Teknik Indonesia		
		Aeg Bina		
		Guna Electro		

				(2/3)
Ballast for L.T.	Refrigerator	Glow Lump - Lump Pijian	т. V.	Transformator Distribusi
Daya Elec' Nikatsu Electric Brocomutiara Elec' Sinar Semp Urna Abadi Elec' Asata Utama Ele' Industry Bumi Kencakan Kusuma Veltama Vista Megah Elec Ind' Raw Buaya Sinar Massaakti Indo Tri Saya Industries Textron Sinar Ele'	National Gobel Sanyo Tjiparai Gempita Work Yansuli Mataric Jaya Indo Air-Con Solitron Plas Copac Ster Cosmos Great Ancol Jaya Intal Indo' Glor Seni Hartono Istana Elec	Hikari Philips Sarana Agatra Utama Sibalec Perlana Sinas Purnama Sakti Bintang Terang Sinar Ang Kasa Rungkut Puji Chaya	Besuki Indah National Gobel Wheel Antariksa Yasontha Elbiru Gemini Elec' Hartomo Intana Ele' Indo Machine Solitron Elec' Ster Cosmos Nusantara Polar Ele' Multipular Corp'	Unindo Trafindo Perkasa Morawa Elec' Transbuana Rawa Buaya First Pura Jaya Teknika Asata Utama Bambang Jaya National Gobel
KWH Meter	Storage Battery	Lump T.L	M.C.B.	Radio Kominikasi
Sigma Tirta Metbelosa Fuji Dmaruma Melcoinda Meco Indo Kahi Utama Len	Yuasa Battery G.S. Battery Sinar Stupa electro Asia Storage Battery Nippers Battery Andalasa Jaya Indonesia Battery	Sinar Angkasa Rungkut Philips Ratin Ble' Hikari Sarana Gatrautama Perinda Sinar Purnama Sakti	Alisindo Perkassa Dharmas Sadhana Sigma Tirta Mega Eltra Asean Power Elec' Mega Daya	Radio Fragu Communication Centronic Inti Chatu Listiwa Dharma Switunggal Utama Indisi

				(3/3)
Battery Kering	Motor	Radio Broad Cast	Isolator	Current Transformer
Chemical Intes' Industry Union Carbide Indonesia Padi Tractor Hadi Terang Ever Bright	Eltab Indonesia Ahli Teknik Ind' Wira Mustika Tecomulti Indo Bangna Prima	Centronics Inti Radio Fregu' Communication Len-Lipi	Chaya Inaba Blec' Indonesia Keramik Twink Indonesia Sinar Angkasa Rungkat	Aeg Bina Siri Seg Sinar Elec' Seb Nikkatsu Electric Works
Transformotor	Lumpu Dekorasi	Telephone	Transmitter Brodocast for T.V. & Radio	Lumpu Kendaran Bermotor
Erka Sahatih Moraw Elec' Transeuana Sinar National	Sinar Angkasa Rungkut Rikari Puji Cahaya	Inti Erindo Utama Indi raya	Radio Frequ' Communication Blectronika Nusantara Inti	Sinar Angkasa Rungkut Tiger Head Bulbs
Terminal Box	Kipas Angin	Stap Up/Down Transformer	Condenser	Trans Rectifier
Reychem Perkasa Nasionesia Nusaniara -relekindo	Ster Cosmos Indo Machine National Gobel	Sinar Elec' Seb Nikatsu Elec' Work	Diamond Sardra Elec'	CV Erka Sinar Blectronica Seb
Trans Tanaga	Trans Tinggo	Transceiver	Broadcast transmitter	Lump Senter
Unind Sidohita	Cahaya Inaba Ele' Indonesia Keramik	Hausma Ketabang Kali	Inti Radio Freg' Communication	Tiger Head Bulbs
Semi Conductory	Radio Mobiil	T.V. Antena	Radio Mobil Tele	Mesin Cuci
Fairclid Semi-Con National Semi-Con	Inti	Pers Profesional	Inti	Yasunli
A/C Mobile				
Nippon Denso				

Source: 1)
2)
3)

[&]quot;Potensi Industri 1984", MOI BUKU PEGANGAN PENGGUNAAN PRODUKSI DALAM NEGERI BUKU.I. BARANG PRODUKSI DALAM NEGERI 1984 MOI DIRECTORAT INDUSTRI MESIN LISTRIK DAN ELECTRONIKA "DAFTAR PERUSAAN INDUSTRI MESIN LISTRIK DAN PERALATAN LISTIRIK TENAGA" 1984

Table ANX III-19

IMPORT OF ELECTRICAL MACHINE AND APPLIANCES

			(Unit:	US\$ m	illion)
CCCN No.	Item	1981	1982	1983	1984
850111 - 6	D.C. motor & generator	4.5	22.0	4.0	4.7
8501121 & 29	AC, DC, motor	23.7	38.9	31.7	35.1
8501132 - 34	AC generator < 5kg	22.7	8.0	11.0	5.1
8501211 - 215	Ac generator > 5kg	77.9	112.4	103.8	68.0
8501410 & 490	Parts for motor	14.9	21.4	17.0	19.2
8515211,19,21,29	TV	44.5	34.6	27.1	20.5
8515311,19,21,29, 8515311,91 & 99	Radio, radio cassette	10.8	7.5	4.2	3.1
8515600	Radio for navigation	6.4	7.1	17.0	9.0
8515910	Parts TV	17.1	12.1	12.7	16.4
8501510 & 90	Transformer	56.9	113.9	32.5	70.1
8519140	Switch board & panel	19.6	26.9	42.9	30.7
8521900	Parts for TV apparatus	15.9	29.0	102.0	102.5
8521300 & 400	Transistor, micro circuit	19.1	8.6	81.9	7.0
8515920	Parts for radio broad cast	11.8	9.8	7.4	15.3
8515990	Parts for other radio	22.2	38.5	18.6	29.5
8519132	Junction box	1.5	1.1	1.9	2.5

Source: BIRD PUSAT STATISTIK (1981-1984)

Table ANX III-20
EXPORT OF ELECTRICAL MACHINE AND APPLIANCES

		and the second s		(Unit:	US\$ 1,000)
CCCN No.	Item	1981	1982	1983	1984
8501129	AC/DC motor	138.6	~		
8501134	AC generator > 5kg Built-up	16.0	86.4	-	147.9
8503110	Dry battery 60mm ^H x 33mm ^Ø	794.2	635.2	-	1,159.3
8504199	Storage Battery	-	39.6	20.8	41.7
8503199	Primary battery	200.0	~	-	_
8514120	Loud speaker	÷	-	876.0	1,385.5
8515219	TV Colour Built-up	**	~	1,192.0	-
8515221	T.V. B/W	44.4	~		175.7
8515319	Radio for mobile	-	-	· ••	120.0
8515321	Portable type radio CKD		50.6	80.9	7.3
8515329	Portable type radio Built-u	p -	359.6	311.0	18.2
8515399	Other Radio	-	90.0	609.8	-
8515910	Part T.V. & Receiver	340.2	79.4	550.1	1.9
851592	Part Radio	1,978.4	700.6	135.7	511.7
8521300	Semi conductor	52,250.7	75,592.1	114,941.3	133,164.2
8521900	Part T.V. & Apparatus	678.5	1,452.4	1,682.1	1,098.5

Source: Exports by Commodity Country of Distination and Part of Export 1981-1984 BIRO PUSAT STATISTIK

Table ANX III-21

EXISTING SHIPBUILDNG AND REPAIRING CAPACITY

1. NUMBER OF SHIPBUILDING AND REPAIRING ENTERPRISES

Kinds of Shipyards	Number of Enterprises
Steel shipbuilder, large size (over 500 DWT)	14
medium size (200 ~ 500 DWT)	26
small size including small repair yards (up to 200 BRT)	73
	(10 state - owned)
FRP boat yard	15
Ferrocement shipyard	3
Wooden boat shipyard and tranditional shipyard	ABT 1,500

Source: Country Report of Indonesia by Mr Sutito, March 1984 Development pattern of Indonesia's Shipbuilding Industry 1983

2. EXISTING CAPACITY FOR NEW SHIPBUILDING

100 & Below	101 - 500	501 - 1,000	1,001 - 5,000	Total	•
6,355	5,350	22,550	11,100	45,355	
65	11.	24	4	104	
	Below 6,355	Below 500 6,355 5,350	Below 500 1,000 6,355 5,350 22,550	Below 500 1,000 5,000 6,355 5,350 22,550 11,100	Below 500 1,000 5,000 6,355 5,350 22,550 11,100 45,355

About 45,000 GT/year Notes: 1. New shipbuilding total capacity installed

2. Average annual new ship production (Total) About 20,000 GT/year

3. Biggest new shipbuilding berth capacity

8,000 GT

4. Biggest ship ever built: Floating dock 2,500 TLC Passenger cargo coaster 1,000 DWT

Source: Country report of Indonesia by Mr Sutito, March 1984

3. EXISTING SHIP REPAIRING CAPACITY

Class (GT)	100 & Below	101 - 500	501 - 1,000	1,001 - 5,000	5,001 - 20,000	Total
Total (GT)	7,840	11,050	8,940	27,180	35,680	90,690
No. of docks/ slipways	86	27	9	11	3	136

Notes: 1. Docking total capacity installed

About 90,000 GT or

2. Average annual docking production (Total)

About 1,200,000 GT/year About 700,000 GT/year

3. Biggest floating dock capacity

20,000 GT

4. Biggest slipway capacity

1,200 GT

Source: Country report of Indonesia by Mr Sutito, March 1984

4. EXISTING SHIP REPAIRING FACILITIES

Facilities	Unit	Total Capacity (DWT)
Floating docks	14	84,000
Graving docks	12	18,500
Slipways	106	26,300
Side-Tracks	2	7,600
Repair basin	2	600
Total	136	137,000 DWT

Source: Country report of Indonesia by Mr Sutito, March 1984

CAPACITY, PRODUCTION AND DEMAND OF NEW SHIPBUILDING

						(Unit:	t: BRT)
Class		1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
	Capacity	27,660	30,955	30,955	33,741	36,440	39,173
Up to 500 BRT	Production	4,014	4,460	4,953	18,355	20,406	22,720
	Demand	18,237	20,263	22,514	30,598	60,018	64,915
	Capacity	23,940	26,600	27,400	28,994	31,314	36,662
501 - 2,000 BRT	Production	3,771	4,190	4,656	15,773	17,536	19,524
	Demand	17,167	19,075	21,194	27,288	51,576	55,983
	Capacity	39,150	43,500	43,500	47,415	51,208	55,019
2,001 - 5,000 BRT	Production	8,069	8,965	9,951	25,804	28,677	31,928
	Demand	25,629	28,477	31,641	44,007	84,344	92,623
	Capacity	30,150	33,500	33,500	36,515	39,436	42,394
5,001 - 10,000 BRT	Production	5,360	5,360	5,360	19,864	22,084	24,585
	Demand	19,735	21,928	24,364	33,107	64,953	70,852
	Capacity	120,870	134,555	135,355	146,665	158,398	173,248
Total	Production	21,214	22,974	24,920	79,796	88,703	98,757
	Demand	89,768	89,743	99,713	135,000	260,891	284,373

Source: PENGEMBANGAN KADASTAS NASIONAL SECTOR INDUSTRI 1984 - 1987 DEPARTEMEN PERINDUSTRIAN EDISI 1984

CAPACITY, REPAIR AND DEMAND OF SHIP REPAIR

							(Unit: BRT)
Class		1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
Up to 500 BRT	Capacity	175,773	195,303	195,303	292,462	385,051	477,276
	Repair	149,382	165,980	184,422	248,763	319,592	372,509
	Demand	489,893	544,266	604,740	609,739	639,184	677,289
501 - 2,000 BRT	Capacity	156,547	173,941	173,941	253,611	330,004	417,082
	Repair	131,030	145,589	161,765	218,374	274,557	326,884
	Demand	412,510	458,344	509,217	539,620	549,134	594,335
2,001 - 5,000 BRT	Capacíty	155,464	172,738	172,738	243,144	317,430	390,561
	Repair	130,123	144,581	160,646	206,672	263,467	304,561
	Demand	344,644	382,938	425,487	449,078	526,934	553,747
5,001 - 10,000 BRT	Capacíty	102,236	113,595	113,595	173,553	222,470	275,147
	Repair	85,166	94,629	105,643	147,520	181,650	215,473
	Demand	188,036	208,929	232,143	410,805	369,300	391,769
10,001 - 30,000 BRT	Capacity	445,805	495,339	495,339	735,235	942,972	1,174,226
	Repair	374,646	416,273	462,525	626,650	782,667	925,568
	Demand	1,029,166	1,143,518	1,441,750	1,429,415	1,565,334	1,682,851
Total	Capacity	1,035,825	1,150,916	1,150,916	1,698,005	2,197,927	2,734,292
	Repair	870,347	967,012	1,075,001	1,447,979	1,821,933	2,144,995
	Demand	2,464,249	2,737,995	3,213,337	3,438,657	3,649,886	3,899,991

Source: PENGEMBANGAN KADASTAS NASIONAL SEKTOR INDUSTRI 1984 - 1987 DEPARTEMEN PERINDUSTRIAN EDISI 1984

Table ANX III-24

PROTECTED DEMAND FOR DOMESTIC NEW VESSELS

		BRT	BRT	BRT	BRT	
Year	Kind of Vessels	0 - 500			5,001 - 10,000	Total
	R.L.S	2.65	14.20	7.22	-	24.07
	L.S.	7.00	_	-	-	7.00
1981	P.S.	<u>-</u>	0.98	-	••	0.98
	N.O.	5.87	19.08	8.07	3.67	36.69
	T	_	2.00	12.00	11.00	25.00
	Sub-total	15.52	36.26	27.29	14.67	93.74
	R.L.S	2,81	15.05	7.65	_	25.51
	L.S.	7.20	-	_		7.20
1982	р.S.	0.45	_		_	0.45
L 2 U Z	N.O.	6.35	20.65	8.74	3.97	39.71
	и.о. Т	0.55	2.00	12.00	11.00	25.00
	Sub-total	16.81	37.70	28.39	14.97	97.87
	R.L.S	3.02	16.17	8.22	-	27.41
	L.S.	8.70	_	<u>-</u>	408	8.70
1983	P.S.	0.44	-	~	-	0.44
1303	N.O.	6.88	22.36	9.46	4.30	43.00
-	m.O.	-	2.00	12.00	11.00	25.00
	Sub-total	10.04	40.53	29.68		104.55
	R.L.S	3.30	17.70	9.00	-	30.00
	L.S.	10.10	-	_		10.10
984	P.S.	-	0.54	_	-	0.54
.904	N.O.	7.45	24.21	10.24	4.65	46.55
	и. Т	1.47	2.00	12.00	11.00	25.00
	Sub-total	20.85	44.45	31.24		112.19
	D.T.C.	2 53	10 00	9.60		32.00
	R.L.S	3.52	18.88	J.00	_	8.90
00"	L.S.	8.90	0.69	_		0.69
.985	P.S.	- 0.7		11.00	5.04	50.42
	N.O.	8.07	26.22 2.00	12.00	11.00	25.00
	T Sub-total	20.49	47.79	32.69		117.01
	D. I. C.	4 00	20. 24	13.02	-	37.26
	R.L.S	4.00	20.24		-	17.40
000	L.S.	17.40	0.01			0.91
.986	P.S.	-	0.91	12.02	5.46	54.63
	N.O.	8.74	28.41	12.02		38.00
	${f T}$	**	3.00	19.00	16.00	20.00

		maa	BRT	BRT	BRT	
Year	Kind of Vessels	BRT 0 - 500			5,001 - 10,000	Total
	R.L.S	4.13	21.43	13.76	e-4	39.32
	L.S.	18.40				18.40
1987	P.S.	0.53	0.53	-	-	1.06
	N.O.	9.47	30.78	13.02	5.92	59.19
	${f T}$	_	3.00	19.00	16.00	38.00
	Sub-Total	32.53	55.74	45.78	21.92	155.97
	R.L.S	4.64	24.10	1.5.48	_	44.22
	L.S.	19.80	-	-	-	19.80
1988	P.S.	0.53	0.53	-		1.06
1,00	N.O.	10.26	33.36	14.11	6.41	64.14
	T	-	3.00	19.00	16.00	38.00
	Sub-Total	35.23	60.99	48.59	22.41	167.22
·	R.L.S	5.00	25.44	16.34	-	46.78
	L.S.	21.40	_	_	_	21.40
1989	P.S.	0.61	0.61	-	***	1.22
1707	N.O.	11.12	36.16	15.30	6.95	69.53
	и.о. Т		3.00	19.00	16.00	38.00
	Sub-Total	38.13	65.21	50.64	22.95	176.93
	R.L.S	5.28	27.41	17.61		50.30
	L.S.	23.20	-	-	<u></u>	23.20
1990	P.S.	0.61	0.61	~		1.22
1770	N.O.	12.06	39.21	16.59	7.54	75.40
	т	-	3.00	19.00	16.00	38.00
	Sub-Total	41.15	70.23	53.20	23.54	188.12
	R.L.S	5.82	29.11	23.28	-	58.21
	L.S.	25.00	27 • II	-		25.00
1991	P.S.	0.70	0.70			1.40
TAAT			42.52	17.99	8.17	81.76
	N.О. Т	13.08	4.00	20.00	19.00	43.00
	Sub-Total	44.60	76.33	61.27	27.17	209.37
	ртс	6.31	31.54	25.23		63.08
	R.L.S		31.54	23.23	~	27.80
1002	L.S.	27.80	0.76	-	-	1.52
1992	P.S.	0.76	46.12	19.51	8.86	88.68
	И.О. Т	14.19	4.00	20.00	19.00	43.00
		40.06		64.74	27.86	224.08
	Sub-Total	49.06	82.42	07 + I T	21.00	224100

Table ANX III-24 (Continued)

			,		(Un	it: 1,000 BRT
		BRT	BRT	BRT		BRT
Year	Kind of	0 - 500	501 - 2,000	2,001 - 5,000	5,001 -	10,000 Total
	Vessels				·	
	R.L.S	6.84	34.20	27.36	-	68.40
	L.S.	28.60	414	-	-	28.60
1993	P.S.	0.77	0.77		-	1.54
	и.о.	15.39	50.03	21.16	9.62	96.20
	T	_	4.00	20.00	19.00	43.00
	Sub-Total	51.60	89.00	68.52	28.62	237.74
	R.L.S	7.33	36.66	29.32	-	73.31
	L.S.	31.80	_		_	31.80
1994	P.S.	0.87	0.87	-	-	1.74
	N.O.	17.40	56.55	23.92	10.87	108.74
	T		4.00	20.00	10.00	43.00
	Sub-Total	57.40	98.08	73.24	29.87	258.59
	· · · ·			20.50	· · · · · · · · · · · · · · · · · · ·	01 34
	R.L.S	8.12	40.62	32.50		81.24
	L.S.	34.40			-	34.40
1995	P.S.		0.88	_	-	0.88
	И.О.	18.20	59.18	25.03	11.38	113.79
	<u>T</u>		4.00	20.00	19.00	43.00
	Sub-Total	60.72	104.68	77.53	30.38	273.31

Notes: R.L.S. = Regular Liner Service

L.S. = Local Shipping

P.S. = Pioneer Service

N.O. = Non-Oil Use

T = Tanker

Source: Development pattern of Indonesia's Shipbuilding Industry 1983

PROTECTED DEMAND OF SHIP REPAIR UP TO 30,000 BRT

Year	0-500 BRT	510-2,000 BRT	2,001-5,000 B	2,001-5,000 BRT 5,001-10,000 BRT	10,000-30,000 BRT	Total
1981	207.99	338.87	230.98	235.58	1,108.65	2,122.09
1982	214.23	360.55	247.03	255.11	1,180.80	2,257.75
1983	221.99	384.09	264.02	275.56	1,254.59	2,400.27
1984	232,37	409.97	288.91	296.97	1,330,09	2,558.32
1985	241.36	437.92	312,01	316.07	1,399.27	2,706.65
1986	258.64	454.87	354.56	344.41	1,492.75	2,905.25
1987	278.15	488.21	381.85	374.98	1,594.00	3,117.22
1988	299.53	525,23	411.17	405.90	1,685.67	3,327.52
1989	322,65	564.62	441,63	448.37	1,786.17	3,563.46
1990	347.58	607.33	474.09	466.40	1,877.77	3,773.18
1991	372.51	631.82	533.68	502.79	2.014.05	4,054.86
മ	402.69	686.13	561.47	535.32	2,153.64	4,339.25
	434,96	741.59	603.46	575.02	2,296.86	4,651.90
	464.12	803.48	648.65	623.85	2,444.02	4,984.15
1995	508.09	869.01	694.46	668,67	2,595.48	5,337,43

Source: Development pattern of Indonesia's Shipbuilding Industry 1983

CAPACITY, PRODUCTION AND DEMAND OF PLANT EQUIPMENT AND MACHINERY

	1982/1983	1983/1984	1984/1985	1985/1986	1986/1987	1987/1988
Copra processing plant 1/ -unit- Capacity Production Demand	75 30 50	140 30 50	140 32 100	140 160 100	140 127 122	140 127 130
Sugar plant 2/ -unit- Capacity Production Demand	334 250 253	336 251 255	346 337 341	372 362 362	372 362 362	372 364 364
Coffee processing plant 3/ -unit- Capacity Production Demand	260 108 108	260 130 105	260 130 160	260 180 210	260 225 260	260 260 300
Tee processing plant 4/ -unit- Capacity Production Demand	240 115 115	250 125 125	250 158 158	250 180 180	250 230 270	250 250 300
Water treatment plant -unit- Capacity Production Demand	130 11 80	130 50 80	130 80 140	130 110 210	130 120 230	130 130 250

Sterilizer, screw press, and effulent treatment plant. Notes:

Cane table, cane cutter/shredder, mills (3 Roll), diffuser, sulphitator, juice clarifier, juice heaters, vacuum filters, vacuum pan, evaporator, crystallizer, condenser and centrifugal Coffee pump, huller, pulper and dryer 4/3

Withering through, rotary roll breaker humidifier, dryer and rotary shifter

Source: PENGEMBANGAN KAPASITAS NASIONAL SEKTOR INDUSTRI 1984-1987, MOI, 1984

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CAPACITY, PRODUCTION AND DEMAND OF COMPONENTS OF PROCESS PLANT

	1982/1983	1983/1984	1984/1985	1985/1986	1986/1987	1987/1988
Structural steel -ton- Capacity Production Demand	52,850 11,299 70,000	52,850 25,000 70,550	52,850 32,000 77,000	52,850 40,000 85,000	52,850 50,000 94,000	52,850 <u>1/</u> 50,000 <u>2/</u> 103,000 <u>2/</u>
Steel tankton- Capacity Production Demand	16,000 10,000 34,000	16,000 10,000 .42,800	16,000 11,300 46,000	16,000 13,600 51,000	16,000 16,000 56,000	16,000 1/ 16,000 1/ 60,000
Boiler (below 20t/h) -unit- 3/ Capacity Production Demand	30 150	30 20 165	30 23 180	30 30 200	30 30 220	30 30 250
Boiler (above 20t/h) -unit- Capacity Production Demand	10 5 8	10 4 6	0 H	10 8 10	10 10 14	10 10 16
Heat exchanger -ton- Capacity Production Demand	1 1 000 8	1 000,6	10,000	000,11	13,000	- 77 - 15,000

Expected capacity increase in the future is deducted from the original figure. Revised by JICA team because original figure is unreasonably stated. There are number of boilers, capacity of which is below 5 ton/h. 보일일 Notes:

Source: PENGEMBANGAN KAPASITAS NASIONAL SECTOR INDUSTRI 1984-1987, MOI, 1984

Table ANX III-28

CAPACITY AND PRODUCTION OF DIESEL ENGINE (1982)

		(Unit: Set)
Firm	Capacity	Production
Mesin Dan Paralan		17
Less 35HP 31HP - 500HP	87,050 35,200	59,300 5,760
Bahan Dan Barang Logan Less 31HP	N.A	3,000
P.T. Mesindo Agung Engineering 31HP - 500HP	3,900	94
P.T. Yammar Diesel Less 31HP	35,000	15,400
P.T. Kubota Less 31HP	28,000	10,669
P.T. Boma Bisma Indra HP: n.a.	11,000	380
P.T. Tri Ratna Diesel Less 31HP	18,000	1,000
Cv. Wira Mustica Indah HP: n.a.	9,600	550
Total	227,750	96,153
Less 31HP	177,650	89,369
31HP-500HP Not specified	39,100 20,600	5,854 930
	Mesin Dan Paralan Less 35HP 31HP - 500HP Bahan Dan Barang Logan Less 31HP P.T. Mesindo Agung Engineering 31HP - 500HP P.T. Yammar Diesel Less 31HP P.T. Kubota Less 31HP P.T. Boma Bisma Indra HP: n.a. P.T. Tri Ratna Diesel Less 31HP Cv. Wira Mustica Indah HP: n.a. Total Less 31HP 1 Less 31HP 1 Total	Mesin Dan Paralan Less 35HP 87,050 31HP - 500HP 35,200 Bahan Dan Barang Logan Less 31HP N.A P.T. Mesindo Agung Engineering 31HP - 500HP 3,900 P.T. Yammar Diesel Less 31HP 35,000 P.T. Kubota Less 31HP 28,000 P.T. Boma Bisma Indra HP: n.a. 11,000 P.T. Tri Ratna Diesel Less 31HP 18,000 Cv. Wira Mustica Indah HP: n.a. 9,600 Total 227,750 Less 31HP 177,650 31HP-500HP 39,100

Source: Directory Basic Metal Industry 1982, Published by: BKS-ILLMA

CAPACITY, PRODUCTION AND DEMAND OF DIESEL ENGINES

Item		1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
Diesel engine less 34HP	Capacity Production Demand	93,400 57,235 120,000	93,400 51,575 150,000	93,400 63,200 164,000	93,400 72,000 170,000	93,400 83,000 184,000	93,400 93,000 191,000
Diesel engine 31-5000HP	Capacity Production Demand	6,500 947 10,000	6,500 1,200 10,000	6,500 1,500 14,000	6,500 2,500 18,000	6,500 4,000 25,000	6,500 6,500 27,000
Diesel engine over 500Kw	Capacity Production Demand	; ; I	111	7 700	200	150 125 200	150 125 200

Source: PENGEMBANGAN KAPASITAS NASIONAL SEKTOR INDUSTRI 1984-1987, MOI, 1984

Table ANX III-30

IMPORT OF ENGINES (1981 - 1984)

		······		·	(Unit)
CCCN Code No.	Item	1981	1982	1983	1984
8406311	Engine for tractor - CKD	40,829	11,123	3,986	2
8406312	Engine for tractor - Built	up 174	229	73	29
8406321	Engine for motor vehicle - CKD	2	217		888
8406322	Engine for motor vehicle - Built up	2,692	1,056	1,528	1,480
8406391	Engine for other - CKD	(1,404ton)	(1,495ton)	(3,152ton)	(3,823ton)
8406392	Engine for other - Built up	(1,115ton)	(735ton)	(756ton)	(507ton)
8406410	Outboard marine engine - CKD	42	5	829	501
8406420	Outboard marine engine - Built up	37,208	12,007	8,924	7,012
8406500	Marine propulsion engine	7,534	5,440	3,376	5,614
8406610	Engine for locomotive and train way	3	19	44	12
8406691	Other engine - CKD	40,969	18,015	16,212	1,164
8406692	Other engine - Built up	33,073	27,053	29,011	33,239
	Total	1981	1982	1983	1984
Impo	rt total	194,186	99,824	100,113	85,571
	of CKD of Built up	91,202 102,984	39,320 60,504	42,037 58,076	28,045 57,526
	line engine $\underline{1}/$	108,572 85,614	58,081 41,743	57,468 42,645	51,486 34,085
	ss 34HP - 400HP	70,170 15,444	32,656 9,087	35,303 7,342	25,614 8,471
31	- 400HP	15,444	9,087	7,342	8,47

Note: 1/ Diesel/Gasoline ratio is assumed as 30/70 for built up and 60/40 for CKD.

Source: IMPORT STATISTICS, BPS

Table ANX III-31
ESTIMATION OF CAPACITY AND DEMAND 1983/1984 - 1987/1988
IRRIGATION, INDUSTRIAL AND TURBINE PUMPS

Type of Pump	1983/84	1984/85	1985/86	1986/87	1987/88
	(unit)	(unit)	(unit)	(unit)	(unit)
Irrigation Pump					
Capacity	7,200	7,200	7,200	7,200	7,200
Production	3,065	5,000	5,500	6,000	7,200
Demand	3,500	6,000	8,000	9,500	11,000
Turbine Pump					
Capacity		400	400	400	400
Production	-	40	80	114	180
Demand	30	30	50	60	300
Industrial Pump					
Capacity		3,000	3,000	3,000	3,000
Production		1,000	1,500	2,500	3,000
Demand	8,500	9,600	10,000	12,000	13,000
Water Treatment Pump					
Capacity	130	130	130	130	130
Production	50	80	110	120	130
Demand	80	140	210	230	250
Total					
Capacity	7,330	10,730	10,730	10,730	10,730
Production	3,115	6,120	7,190	8,737	10,510
Demand	12,110	15,770	18,260	21,790	24,550

Source: PENGEMBANGAN KAPASITAS NASIONAL SECTOR INDUSTRI 1984-1987, MOI, 1984

PRODUCTION CAPACITY/PRODUCTION/DEMAND OF METAL MATERIALS (1)

***************************************						(1,000ton)
	1982/1983	1983/1984	1984/1985	1985/1986	1986/1987	1987/1988
Item	Capacity Production Demand	Capacity Production Demand	Capacity Production Demand	Capacity Production Demand	Capacity Production Demand	Capacity Production Demand
Pellet	<u>.</u>	-	-	· _		_
	430	770	924	1,320	1,540	1,760
Sponge iron	2,200	2,200	2,200	2,200	2,200	2,200
	391 350.5	541 652	912 812	1,200 1,000	1,400 1,200	1,600 1,400
Steel slab	1,100	1,100	1,100	1,100	1,100	1,100
	-	108 135	342 292	460 400	550 460	620 529
Ingot/billet	1,175 693.5	1,175 882.6	1,175 1,014	1,175 1,170	2,000 1,340	2,000 1,800
	950	1,026	1,130	1,360	1,560	1,800
Hot coil	1,100	1,100	1,100 326	1,100 407	1,100 470	1,100 815
	10 10	127 127	355	407	470	815
Cold rolled	_	-	-	-	850	850
sheet	450	840	972	1,060	225 1,157	425 1,248
Tin plate		-	_	130	130	130
	146.2	- 174	192	210	78 225	85.8 247.5
Bar/shape	1,200	1,200	1,200	1,200	2,000	2,000
	745 743.8	724.3 575	832.9 832.9	958 958	1,200 1,200	1,350 1,350

Table ANX III-32 (Continued)
PRODUCTION CAPACITY/PRODUCTION/DEMAND OF METAL MATERIALS (2)

						(1,000ton)
	1982/1983	1983/1984	1984/1985	1985/1986	1986/1987	1987/1988
Item	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity
	Production	Production	Production	Production	Production	Production
	Demand	Demand	Demand	Demand	Demand	Demand
Wire rod	416	416	416	416	416	600
	257.4	300	340	384	416	450
	257.4	311	363	384	434	477.4
G I Sheet	490.8	490.8	490.8	490.8	650	650
	329.5	419	474	490.8	530	560
	329.5	419	474	535	604	654.4
Copper rod	33	33	51	51	51	51
	33	33	33	40	47	51
	20	26	30	35	39	42
Aluminium sheet/plate	34.3 9.6 28	34.3 8 30	34.3 17 32.3	34.3 21 34	36 36 36	36.2 38.2 38.2
Aluminium rod	-	34.8	34.8	34.8	34.8	34.8
	-	34.8	8.6	11	17	21
	-	7.9	8.6	9.2	17	21
Metal wire	38	38	38	38	40	40
	7.6	9	14	25	37	38
	42	50	50	70	70	84
Welded pipe	407	407	407	407	407	407
	237.5	180.4	216	260	311	360
	325.9	192.3	216	260	311	360
Spiral pipe	60	60	60	60	100	120
	46.1	50	60	60	90	120
	46.1	50	85	115	140	154
Seamless pipe	- - 113.75	130	- - 150	_ _ _ 175	160 50 200	160 160 299

Source: PENGEMBANGAN KAPASITAS NASIONAL SECTOR INDUSTRI 1984-1987, MOI, 1984

PRODUCTION CAPACITY OF STEEL PRODUCTS

						Producti	on Capac	ity (1,	Production Capacity (1,000ton/y)			
Genre of Maker	Number of Establish- ment	Name of Company /(Kind of Products)	Sponge	Slab	Billet/ Ingot	Hot Coil	Plate	Bar/ Shape	Wire rod /Mtl Wire	G I Sheet	Welded Pipe	Spiral Pipe
Iron/steel maker	г.	PT Krakatau Steel	2,000	1,000	200	1,000		230	220			20
Steel maker (Blec. Furnace)	11	(Bar/shape/wire rod)			870			390	150			
mill/weg	. 22	(Bar/shape)		•				750				
		Pr. Jaya Pari Steel					70					
	7	(G I)								400		
	21	(Welded pipe)									530	
Total of production capacity	ion capacity		2,000		1,000 1,370	1,000	70	70 1,370	370	400	530	50

Source: JICA Team Survey

STEEL IMPORT, 1983

Products	Weight (MT)	Remarks
Wire rod	29,028	
Round bar	65,449	
Shape	147,196	
Plate	207,322	Thickness \geq 3 mm
Sheet	766,004	Thickness < 3 mm
Tin plate	119,107	
G.I. Sheet	16,191	
Electrical sheet	3,052	
Other coated sheet	35,875	
Pipe	222,861	
Metal wire	11,551	
Secondary products	29,177	Wire mesh, nail, pin, etc.
Pipe fittings	14,111	
Total	1,666,924	(Steel product)

Source: IMPORT STATISTICS, 1984, BPS

ANNEX IV RESULTS OF QUESTIONNAIRE TO LARGE-SCALE INDUSTRY AND MEDIUMAND SMALL-SCALE INDUSTRY

Province	:	
Number	:	

QUESTIONNAIRE SHEET SURVEY FOR LINKAGE-TYPE INDUSTRIES DEVELOPMENT

PART I

(FOR LARGE INDUSTRIES)

JUNE - AUGUST, 1985

PREPARED BY:

DEPARTMENT OF INDUSTRY R.I.

IN COOPERATION WITH

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

This questionnaire sheet is addressed to large scale industries or parent companies who are currently or will be using sub-contracting small- and medium-scale industries as suppliers of component, raw material or other services.

The data collected here will be kept confidential and not be used for any other purposes than planning development strategies, creating better environment for and establishing technical and financial aid program for linkage-type industries.

Date :	*	,, 1985
Filled in by	:	
		(name)
		(position)
l'elephone num	ber:	

Ι.	GEN	RAL
	1.	Name of Company :
	2.	Address of head office:
		Factory :
	3.	Established in : (year)
	4.	Background of Establishment:
		- Initiated by :
		Government Local Company
		☐ Foreign Company
		- Previous Job of Local Entrepreneur:
	5.	(1) Paid-in Equity Capital Amount Rp (million)
		Local :- Government %
		- Private%
		Foreign:
		(2) Fixed Asset Amount (excluding land & building)
		Rp. (million)

6.	Number of Employees : Total	
	- Engineer :	
	(please attach an organization chart and number of staffs assigned)	
7.	Category of Industry	
	☐ Machinery in general ☐ Electrical Machinery ☐ Transportation Machinery ☐ Others specify:	

II. PRODUCTS

1.

No.	Major Products		Sales		
1.0.	rajor frances	Capacity (1984)	Actual Amount in 1984	Unit	(million Rp) 1984
					- - -
		-			
				:	

2.	Total Annual Sales Amount (1984):
	Rp. million
3.	Over-all Capacity Utilization Rate :%
4.	Major Client :

III. COMPONENTS & RAW MATERIAL

* Please check (\checkmark) on

I : Import

S : Self-Production

L : Local Manufacturer

I Campant & Day Matorial	Supplied by *			Monthly Average	
Major Component & Raw Material	I	S	L	Amount (mill. Rp)	
	l 		ļ		

IV. OUTLINE OF SUB-CONTRACTING COMPANIES BEING USED

If your company is using local subcontractors, local manufacturers or local maintenance service companies mainly in the field of metal-working industries, please give their outlines on the attached sheets (one form for one company).

(Outline of Subcontracting Companies) number ${\bf 1}$

1.	Name of Company	: _					- -	
2.	Address						-	
		_					-	
	Factory	: _	· · · · · · · · · · · · · · · · · · ·			and the state of t	~	
3.	Number of Employees	:			per	rsons in total,		
	Number of engineer	`s: _	···					
4.	Amount of Capital	: R	p			million		
5.								
Sur	Supplied Component or Services Quantity Unit Total Value (Rp/m)							
	,							
							i	
6.	Procurement:	Bv o	rder		Consta	nt procurement		
•	Troour officers	-1 -				ı		
7.	Payment :	ву с	ash		By cred	dit 🔲 month		
8.	Do you supply raw ma	teri	als?	<u> </u>	es.			
				[lo			
				L L'	· ·			

(Attachment number 1)

9.	Kind	s of Assistant your company provides :	
	(1)	Financial: [] Equity [] Loan (share)	
	(2)	Technical:	
		☐ Managerial	-
10.	Majo	r problems and obstacles for User :	
	(1)	Quality: Good Fair Poor	
	(2)	Quantity: Enough Short	
	(3)	Delivery: Punctual Sometimes late Always late	Ċ
	(4)	Technical Level: High Middle Low of staff	ν,
	(5)	Management: Good Fair Poor	
	(6)	Entrepreneurship: Good Fair Poor	

(Outline of Subcontracting Companies) number 2

1.	Name of Company	:			
2.	Address	: _			
	Factory	:			
3.	Number of Employees	:		per	csons in total,
	Number of enginee	rs: _			
4.	Amount of Capital	: R	p		million
5.					
Su	pplied Component or Servi	ices	Quantity	Unit	Total Value (Rp/m)
6.	Procurement:	ву о	order [Constar	nt procurement
7.	Payment :	јВу с	eash [] By cred	dit 🗌 month
8.	Do you supply raw m	ateri	als?	Yes	
				No	

(Attachment number 2)

9.	Kind	s of Assistant your company provides:	
	(1)	Financial:	(
	(2)	Technical:	
		☐ Managerial	
10.	Majo	r problems and obstacles for User :	
	(1)	Quality: Good Fair Poor	
	(2)	Quantity:	
	(3)	Delivery: Punctual Sometimes late Always late	(
	(4)	Technical Level: High Middle Low of staff	
	(5)	Management: Good Fair Poor	
	(6)	Entrepreneurship: Good Fair Poor	

(Outline of Subcontracting Companies) number 3

1.	Name of Company	:			·····	· · · · · · · · · · · · · · · · · · ·			
2.	Address	:				·			
	Factory	:		·					
3.	Number of Employees	:				per	sons in tot	al,	
	Number of engineer								
4.	Amount of Capital	:	Rp.				million		
5.							·		
Su	Supplied Component or Services Quantity Unit Total Value (Rp/m)								
		•							
l					L				
6.	Procurement:	Ву	orde	er		Consta	nt procureme	ent	
7.	Payment :	Ву	casl	n		By cree	dit 🗍 mc	onth	
8.	Do you supply raw ma	ater	ials	s? [] Y	es			
				1	7 N	lo			

(Attachment number 3)

9.	Kind	s of Assistant your company provides:
	(1)	Financial:
	(2)	Technical:
		[Managerial
10.	Majo	or problems and obstacles for User:
	(1)	Quality: Good Fair Poor
	(2)	Quantity:
	(3)	Delivery: Punctual Sometimes late Always late
	(4)	Technical Level: High Middle Low of staff
	(5)	Management: Good Fair Poor
	(6)	Entrepreneurship: Good Fair Poor

(Outline of Subcontracting Companies) number 4

1.	Name of Company	:						
		-						
2.	Address	: .						
					., 		<u></u>	
	Factory	: .						
3.	Number of Employees	· : _				per	csons in tot	a1,
	Number of enginee	rs:						
4.	Amount of Capital	: 1	Rp.				million	
					•			
5.								•
Sup	oplied Component or Serv	ices		Quanti	ty	Unit	Total Value	(Rp/m)
		,						
						,		
		Т р	~~~3		17	Consta	nt procureme	n t
6.	Procurement:	лву (Orue	₽L.	! !	Consta	re procureme	110
7.	Payment :	ј Ву	casl	n		By cred	dit 🗀 mo	nth
8.	Do you supply raw m	nater	ial	s?	Y	'es		
					7 N	lo		

(Attachment number 4)

9.	Kind	s of Assistant your company provides :
	(1)	Financial:
	(2)	Technical:
		[Managerial
10.	Majo	r problems and obstacles for User :
	(1)	Quality: Good Fair Poor
	(2)	Quantity:
	(3)	Delivery: Punctual Sometimes late Always late
	(4)	Technical Level: High Middle Low of staff
	(5)	Management: Good Fair Poor
	(6)	Entrepreneurship: Good Fair Poor

(Outline of Subcontracting Companies) number 5

1.	Name of Company	:			
2.	Address	:			
	,	_			
	Factory	: _			
3.	Number of Employees	: _		pe	ersons in total,
	Number of engineer				
4.	Amount of Capital				million
5.					•
Su	oplied Component or Servi	ces	Quantity	Unit	Total Value (Rp/m)
					
6.	Procurement :	Ву о	order (Const	ant procurement
7.	Payment :	Ву	cash (By cr	edit [] month
8.	Do you supply raw ma	ter.	íals?	Yes	
				No	

(Attachment number 5)

9.	Kind	ls of Assistant your company provides :	
	(1)	Financial:	(,)
	(2)	Technical: Training Advisory Inspection	
		[Managerial	
10.	Majo	or problems and obstacles for User :	
	(1)	Quality: Good Fair Poor	
	(2)	Quantity:	
	(3)	Delivery: Punctual Sometimes late Always late	
	(4)	Technical Level: High Middle Low of staff	
	(5)	Management: Good Fair Poor	
	(6)	Entrepreneurship: Good Fair Poor	

V. INCREASE OF DOMESTIC-MANUFACTURED COMPONENT

1. Please list those items currently imported but being planned or considered desirable to be procured from domestic manufacturers or suppliers.

No.	Name of Component Material & Services	Manufacturing Process	Number of Years Required for Domestic Procurement
			·
		-	

VI. FUTURE PLAN

1.	What is your future prospect of your company's product? What annual percentage your product's demand will be expected to be increased?					
	CAPCCC					
		In 5 years, §				
		In 10 years,%				
2.	-	have any plant expansion plan in the near future? please explain:				
		Product :				
		Market : Domestic %				
		Export %				
	÷	Investment:, in 19				
3.		o you think you can help to develop sub-contracting er linkage-type industries?				
		Technical Assistance: Training Advisory				
		☐ Inspection ☐ Unable to help				
4.	suppor	you have any request to the government for ting program for linkage-type industries, which tely brings benefit? : No				
	T.E	——————————————————————————————————————				
	-	, which aspect?				
		Fechnical Management Financial				
		Marketing				
	-					

D •	II the government provides low-interest roan
	attached with technical, marketing and managerial
	assistance for linkage-type industries, do you think
	it will be effective for them and for your procurement:
	☐ Effective ☐ Not effective
	It depends on the conditions of
c	That do not come the continue of the continue
6.	What do you expect from financial & technical aid from
	Japanese government?

Thank you for your cooperation. These data you provided will form a valuable basis to plan industrialization program of the Republic of Indonesia.

Province	:	
Number	:	

QUESTIONNAIRE SHEET SURVEY FOR LINKAGE-TYPE INDUSTRIES

PART II

FOR MEDIUM AND SMALL LINKAGE-TYPE INDUSTRIES

JUNE - AUGUST, 1985

DEPARTMENT OF INDUSTRY R.I.

IN COOPERATION WITH

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

This questionnaire sheet is addressed to small and medium scale industries or subcontractors who are currently or will be taking sub-contracting works from large or parent companies.

The data collected here will be kept confident:	ial and not
be used for any other purposes than planning develo	opment
strategies, creating better environment for and est	tablishing
technical and financial aid program for linkage-type	pe industries.
	•
Name of Interviewer :	
(name)	
	•
(position)	
(postcion)	
Name of Interviewer :	
(name)	
·	
(position)	

Place and date of interview, ______, 1985

I. GENERAL

1.	Name of Company	
2.	Address Head Offi	ce:
	Factory	
3.	Established in	*
4.	Previous Job of E	ntrepreneur (please check)
	☐ Government	Official State-owned company
	☐ Foreign joi	nt venture company
	\square Medium or s	mall industry of other products
	☐ Trader	☐ Technical Training Institution
	☐ University	Others, specify:
5.	Capital	
		amount (excluding land & building)
	(2) Working Capi	tal amount: Rp.
	(3) Ownership:	Entrepreneur and family%
		Parent company %
		Others
6.	Number of Employe	es
·	Total :	Engineers:
	Technician:	Accountant
٠	Bookkeeping:	

7	Major	Process:	(Please)			
		Casting	☐ Plat	ing	Heat Treatmen	t .	
		Presswork	☐ Forg	jing	☐ Machine Assemb	oly	
		Precision	Machining		Sheetwork & Welding	Đ.	
		Machining	•				(+
		Others, sp	ecify				
						······	
						·	
8.	Total	Annual Sal	es in 1984	l: Rp.		million	•

II. PRODUCTS

1. Products made by order of Large/Parent Companies
 and government :

(in the year 1984)

No.	Name of Buyer	Kinds of Products	Unit	Quantity/ year	Unit Priœ(Rp)	Sales/y (Rp)
					:	
	1.2			Tota	1	· · · · · · · · · · · · · · · · · · ·

2. Products made for general market & others:

No.	Market *	Name of Products	Unit	Quantity/ year	Unit Price(Rp)	Sales/y (Rp)
		Total				

*	 Loca	1

- Domestic
- Foreign (export)
 - 3. Average capacity utilization rate (1984): _____%

III. MATERIAL AND FACILITY

1. Components and Raw Material

Name of Components	Amount (R	p/month)	Name of Country (I)	
and Raw Material	I*	L*	or Company (L)	
	<u> </u>			

* I = Import

L = Local

2. Major Machinery/Equipment

Name of Machinery/Equipment	Quantity	Purchase Price (Rp)	Its Age (Old)
	·		
	·		

	IV.	PROBLEMS AND CONDITIONS WITH PARENT COMPANY
		1. Quality : Too complicated Not Complicated Easy
		2. Quantity: Too much Not much Too little
		3. Delivery schedule: Very strict Not strict
0		4. Payment Condition: Delay Do delay
		5. Financial Support: Yes No
		6. Technical Support:
	v.	PROBLEMS FACED BY YOUR COMPANY
		1. Production Aspect
		(1) Is production capacity enough ?
		☐ Yes ☐ No
\bigcirc		If no, how much do you need to invest? Rp (million)
		(2) Is raw material easily obtained?
		☐ Yes ☐ No
		From where do you get? General market Company making orders Special supplier Others, specify:
		Coners, specify:
(i)		(3) Do you make enough surplus fund to be invested in the future?

		2. Technical Aspect
		(1) How is your workers' technical level?
		☐ High ☐ Middle ☐ Low AIV-27

	(2)	What kind of technical improvir government or parent company?	ng support from
		From Government	
		From Company	Training [] Inspection
3.	Fina	ncial Aspect	
	(1)	Please list your sources of loa and in the past 5 years.	n at present
		☐ State and Private Banks:	
		☐ State and Private Financia	
		Other sources:	·
		Other Sources.	

	Type of	*			Total	Peri		Annual	*** Type of	
No.	Loan	Lender	**	w**	Rp	From	То	Interest Rate	Collateral	
	<u>K.I.K.</u>				:					
,	K.M.K.P.								·	
1.	KIB I (Kelayakan)									
	KIB II									
1. 2.					·					
1. 2.	KIB III									
1.	KIB IV									
2.			ļ			-				
1.	Others									
2.							}			

Name of Banks, financial institution and other informal financiers.

** I = Investment capital

W = Working capital

*** Type of collateral (1. Land

(2. Building(3. Machinery

(4. Others

sys	tem.
Α.	State Banks
a.	Interest: Acceptable Too high If so,
	What is your desirable rate?
	- For investment capital % per year
	- For working capital % per year
b.	Period: Acceptable Too short If so,
	What is your desirable period?
	- For investment capital years
	- For working capital years
c.	Amount:
	What is your desirable amount?
	- For investment capital: Rp.
	- For working capital : Rp.
d.	Collateral:
	☐ Acceptable ☐ Too severe If so,
	What is your desirable collateral amount?
	% of loan amount.
В.	Other Financial Institution
	a. Interest rate: Acceptable Too high
	b. Period : Acceptable Too short
	c. Amount : Enough Too small
	d. Collateral : Acceptable Too severe

(2) Please give your opinions to the present financial

formal Lending	C.
formal Lending	C.

a.	Interest rat	e:	Acceptable	Too high	1
b.	Period	:	Acceptable	Too shor	:t
c.	Amount	:	Enough	Too smal	1
đ.	Collateral	:	Acceptable	Too seve	ere

VII. FUTURE PLAN

1.	How much of demand-increase is expected for your product in :	
	5 years,% each year	
	10 years, % each year	
2.	Do you have a specific plan to expand your production?	
	If "yes", please give details	
	Total investment amount : Rp.	million
	of which self financing : Rp.	million
	Loan : Rp.	_million
	When will it be implemented? in yea	rs

3. List name of machinery required

Name of Machinery/Facility	Quantity	Approx. Price (Rp)

3,	comp	any for improving inter-linkage with your pany?
		☐ Technical Support ☐ Financial Support ☐ Others, specify:
		Uthers, specify:
4.	comp	order to increase contracts with large or parent canies, what do you request to the government to st you?
		Financial support by "loan"
		Other financial support, specify:
		Technical training
		Managerial training
		Marketing support
		Others, specify:

Thank you for your cooperation. These data and comments you provided will be kept confidential and not be used other objects than planning industrialization program particularly for linkage-type industries in the Republic of Indonesia.

SUMMARY OF QUESTIONNAIRE - ALL SUB-SECTOR -

CASE LMES

CODE	DESCRIPT	1 0 N	QUANTITY	%	VALIDITY
	ASIC INFORMATION NOS. OF ANSWERS				55
	1 DKI JAKARTA 2 WEST JAWA 3 CENTRAL JAWA 4 EAST JAWA 5 SUMATRA 6 KALIMANTAN 7 SULAWESI		23 11 2 10 4 2 3		
:		TOTAL	55	100.0	in this way was any special paper.
10200	NOS. OF EMPLOYEES/COMP	AMY			55
10201	ENGINEERS		8.6	1.8	
10202	TECHNICIANS		120.2	25.6	
10203	WORKERS & OTHERS		341.2		
-		TOTAL	470.0		
10300	OWNERSHIP & OTHERS				
10301	PAID-UP SHARE CAPITAL	-MMRP	4792.7		53
10302	FIXED CAPITAL -	-MMRP-	7872.0		51

CODE	DESCRIPTION	l 	QUANTITY		VALIDITY
10303	STATUS OF THE COMPANY				54
٠	1 GOVERNMENTAL 2 LOCAL 3 JOINT VENTURE		15 39 17	27.8 72.2 31.5	
~		TOTAL	71	131.5	14 (II.) (III.) (III.) (III.) (III.) (III.)
10304	ESTABLISHED IN -AVERAGE-		1969,9		54
10400	ANNUAL SALES/COMPANY		10817.0		44
10500	ANNUAL MATERIAL COST/COMPANY	-MMRP			32
10501	IMPORT (COMPONENT)		2477.0	47.5	
10502	IMPORT (MATERIAL)		1106.1	21.2	
10503	DOMESTIC(COMPONENT)		827.7	15.9	
10504	DOMESTIC(MATERIAL)		806.4	15.5	
-		TOTAL	5217.2	100.0	

SUMMARY OF QUESTIONNAIRE - ALL SUB-SECTOR -

CASE LMES

CODE	DESCRIPTION	QUANT1TY	 VALIDITY
20000 F	PRODUCTION & RATIOS		·
20100	CAPACITY UTILZATION -%-	59.6	. 40
20200	VALUE ADDED		31
20201	PER COMPANY -MMRP-	3681.2	
20202	PER EMPLOYEE -MRP-	6788.9	
20300	FIXED ASSETS/EMPLOYEE -MRP-	9972.2	51

CODE	DESCRIPTION	الله وريا وريا وريان وريان وريان الله	QUANTITY	%	VALIDIT
30000 SIZE OF					
30100 NOS 0	F EMPLOYEES -COMPANIES-	•			55
1			5	9.1	
2 3	50 TO 99 100 TO 199		8 8	14.5 14.5	
ى 4	288 TA 299			23.6	
5	300 TO 499		9	16.4	
	SUU 10 999.		4	7.3	
	1000 AND ABOVE			14.5	
yahi Basa Amai Asaa ahan Baru kecar aran			55		,,
30200 PAID-U	P SHARE CAPITAL-COMPANIES	S(MMRP)-			53
1	BELOW 100		6	11.3	
2	100 TO 500			20.8	
3	500 TO 1000		8	15.1	
	1000 TO 2000 2000 TO 5000		2 12	3.8 22.6	
	5000 TO 10000			13.2	
7	1000 ABOVE		7	13.2	
	·	TOTAL	53	100.0	
30300 FIXED	ASSETS/COMPANY -COMPANIES	3-			5:
1	BELOW 70 MMRP		1	2.0	
	TO TO JOD MACO		2	3.9	
3	100 TO 500 MMRP		12	23.5	
4 5	500 TO 1000 MMRP ABOVE 1000		6 30	11.8 58.8	
		TOTAL	51	100.0	

SUMMARY OF QUESTIONNAIRE - ALL SUB-SECTOR -

CASE LMES

CODE		DESCRIPTION		QUANTITY	. %	VALIDITY
30400	FIXED	ASSETS/EMPLOYEE-COMPANIES(MMRP) –			5 t -
	1	BELOW D.64		1	2.0	
	2	D.64 TO 1.00		2	3.9	
	3	1.00 TO 10.00		32	62.7	
	4	10.00 TO 50.00		14	27.5	
	5	ABOVE 50.00		2	3.9	
•			TOTAL	51	100.0	

CODE	DESCRIPTION	··· •• •• · · · · · · · · · · · · · · ·	QUANTITY		VALIDITY
40000 8	PRODUCTS & MARKET				
40100	INDUSTRIAL CATEGORY -COMPANIES-				54
	1 MACHINE TOOL		5	7.3	
	2 AGRICULTURE M/C		5 7	13.0	
	2 AGRICULTURE M/C 3 HEAVY.CONST. M/C 4 PROCESS EQUIP 5 ELECTRICAL M/C		3 3 9	5.6	
	4 PROCESS EQUIP		3	5.6	
			9	16.7	
•	6 SHIP.BUDG M/C		9	16.7	
	7 AUTOMOTIVE			31.5	
	8 MOTORCYCLE		4	7 4	
	9 OTHERS			29.6	
-			73		عدد دادو جدو مده دست العدد الأدامة الوي
40200	MAJOR CLIENT				36
	1 PUBLIC SECTOR		13	36.1	
	2 SOLE AGENT/DEALR		16	44.4	
	2 SOLE AGENT/DEALR 3 ASSEMBLER			17.4	
	4 CONSUMER/RETAILR		13	36.1	
	5 EXPORT		O	0.0	
-		TOTAL	49	136.1	,, <u></u>
40300	NOS. OF SUB-CONTRACTORS/COMPANY		4.9		37

CODE		DESCRIPTIO	N		%	VALIDITY
	TUTURE P	ION PLAN				25
DUTUU				07	92. 0	
	1 2	YES NO		23	8.0	
					100.0	an and the Principles and this law 1999
			TOTAL		100.0	
50200	EXPECT	ED YEAR		1986.1		20
50300	ESTIMA	TED INVESTMENT -MMRS		13725.4		19
50400	TARGET	MARKET -COMPANIES-				22
	1	DOMESTIC			100.0	
	2	EXPORT		6	27.3	
,			TOTAL	28		
50500	EXPECT	ED MARKET GROWTH				
50501	FIVE	YEAR *AVERAGE* -%	-	74.1		23
	1.	BELOW 10%	4	D	0.0	
	2	10% TO 20% 20% TO 30%		3 7	13.0 30.4	
	4	30% TO 40% 40% ABOVE		0 13	0.0 56.5	
	5				2012	
			TOTAL		100.0	
50502	TEN	YEAR *AVERAGE* -%-	_	132.1		19
	1	BELOW 20%		ō	0.0	
	2 3	20% TO 40% 48% TO 60%		3 4	15.8 21.1	
	ა 4	60% TO 80%		3	15.8	
	5	80% ABOVE		9	47.4	
-		ر الله الله الله الله الله الله الله الل		19		

CODE	·	DESCRIPTION		QUANTITY		
50600	ASSIST	ANCE TO SUB-CON BY COMPA	/NY			4 0
	1	TRANING		22	55.0	
	2	ADVISORY		32	80.0	
		INSPECTION			62.5	
	4	UNABLE		2	5.0	
-			TOTAL	81	202.5	
50700	ASSIST	ANCE TO SUB-CON BY GOVE	RNMENT			34
	1	TECHN1CAL		20	58.8	
	2	MANAGEMENT		16	47.1	
	3	F1NANC1AL		29		
	4	MARKET			76.5	
	5	OTHERS		10	29.4	
4-	·		TOTAL	101	297.1	
50800	INSTIT	UTIONAL LOAN TO SUB-CON				39
	1	EFFECTIVE		37	94.9	
	2	NOT EFFECTIVE		1	2.6	
	3	WITH CONDITION		3	7.7	
			 Total	41	105.1	

CODE	DESCRIPTION	QUANTITY	Х	VALIDITY
90000	SUB-CON FROM PARENT COMPANY'S VIEW			
60100	NOS OF SUB-CONTRATORS	181		
60200	NOS OF EMPLOYEES *AVERAGE*	135.3		91
60300	NOS OF EMPLOYEES *DISTRIBUTION*			91
	1 BELOW 5 2 5 TO 19 3 20 TO 49 4 50 TO 99 5 100 TO 199 6 200 AND ABOUE	1 24 22 12 8 24	1.1 26.4 24.2 13.2 8.8 26.4	
	TOI	TAL 91	100.0	
60400	SIZE OF CAPITAL *AVERAGE* -MM	IRP- 879.8		57
60401	SIZE OF CAPITAL -DISTRIBUTION(MMF	RP)-		57
.•	1 BELOW 70 2 70 TO 100 3 100 TO 500 4 500 TO 1000 5 ABOVE 1000	2 16 2	49.1 3.5 28.1 3.5 15.8	
	T01	AL 57	100.0	

CODE		DESCRIPTION		QUANTITY		VALIDITY
•	LINKAG					
) OF LINKAGE -COMPANIES-				163
				30	18.4	
	1 2	CASTING FORGING/HEAT TR.		30 12	7.4	
	$\tilde{3}$	SHEETWORK/WELD		63	38.7	
	4	PLATING		13	8.0	
	5 6	MACHINING PRESS WORK		38 46	23.3 28.2	
	7	NON-METAL		43	26.4	
ž.	8	SERVICES		17	10.4	
-			TOTAL	262	160.7	
60502	TYPE	OF PROCUREMENT -COMPANI	ES-			166
	1	BY-ORDER		100	60.2	
		CONSTANT		66	39.8	
-				166		
60503	PAYME	NT METHOD -COMPANIES-				167
	1	CASH		78	46.7	
		CASH CREDIT		90	53.9	
-			TOTAL			
60504	RAW M	NATERIAL SUPPLY FROM P.C	OMPANY			165
	1	YES		40	24.2	
	2			125	75.8	
-		- 200 Ed. (c)	TOTAL		100.0	
60505	FINAN	ICIAL ASSISTANT TO SUB-C	ON			32
	1	YTIUGE		5	15.6	
	2			27	84.4	
	-					

CODE	··· 4-4 ···· 4-4 ton agains de	DESCRIPTION	QUANTITY	Х	VALIDITY
60506	TECHN	VICAL ASSISTANT TO SUB-CON			139
	1	TRAINING	32·	23.0	
	2	ADVISORY	113	81.3	
	3	INSPECTION MANAGEMENT	88 23	63.3 16.5	
	4	HHVAGGERI	Z.i.	10.5	
•			256	184.2	
00404	MAJOR	PROBLEMS & OBSTACLES IN SUB-CON			
60601	QUALI	TY OF PRODUCTS			167
		GOOD		40.1	
	2	FAIR POOR	97	58.1	
	3		3	1.8	
.		TOTAL	167		
60602	PRODU	CTION CAPABILITY (QUANTITY)			164
	1	ENQUGH	158	96.3	
	2	SHORT	6	3.7	
-		TOTAL	164	100.0	
60603	DELIV	ERY OF PRODUCTS			163
	1	PUNCTUAL	89	54.6	
	$\hat{2}$	SOMETIMES LATE	71	43.6	-
	3	ALWAYS LATE	3	1.8	
		TOTAL	163	100.0	(4
60604	TECHN	ICAL LEVEL			154
٠	1	ніен		38.3	
	2	MIDDLE	93	60.4	
	3	FOM	2	1.3	
		TOTAL	154	100.0	

CASE LMES

CODE		DESCRIPTI	0 N	QUANTITY	%%	VALIDITY
60605	MANAG	EMENT CAPABILITY				149
	1	GOOD		46	30.9	
	2	FAIR		85	57.0	
	3	POOR		18	12.1	
-		**************************************	TOTAL	149	100.0	
4040A	ENTRE	PRENEURSHIP				141
	1	GOOD		51	36.2	
	2	FAIR		80	56.7	
	3	POOR		10	7.1	
•			101AL	141	100.0	

CODE	DESCRIPTION		QUANTITY	%	VALIDITY
10000	BASIC INFORMATION			÷	•
10100	NOS. OF ANSWERS			•	219
	1 DKI JAKARTA 2 WEST JAWA 3 CENTRAL JAWA 4 EAST JAWA 5 SUMATRA 6 KALIMANTAN 7 SULAWESI		48 61 31 72 3 2 2	21.9 27.9 14.2 32.9 1.4 0.9	
		TOTAL	219	100.0	
10200	NOS. OF EMPLOYEES/COMPAMY				217
10201	ENGINEERS		0.9	1.3	
10202	TECHNICIANS	•	7.2	10.1	
10203	WORKERS & OTHERS		63.1	88.6	
	en en len pro per en en en en 10 liú en 22 kaj kaj da da da da de en	TOTAL	71.2	100.0	E. E. ST. E. ST. EV. EV. EV. EV. EV. EV. EV. EV. EV. EV
10300	ASSETS/COMPANY				201
10301	FIXED ASSETS		329.7	54.5	
10302	WORKING CAPITAL	,	275.7	45.5	
-		TOTAL	605.3	100.0	

CODE	DESCRIPTION	QUANTITY		VALIDITY
10400	ANNUAL SALES/COMPANY -MMRP-	803.)8		210
10500	ANNUAL MATERIAL COST/COMPANY -MMRP-			149
10501	IMPORT (COMPONENT)	114.6	27.4	
10502	IMPORT (MATERIAL)	85.5	20.4	
10503	DOMESTIC(COMPONENT)	3.2	0.8	
10504	DOMESTIC(MATERIAL)	215.6	51.5	
•	TOTAL	418.8	100.0	
10600	ESTABLISHED IN -AVERAGE-	1973.9		213

CODE	DESCRIPTION	QUANTITY	%	VALIDITY
2000D F	PRODUCTION & RATIOS			
20100	CAPACITY UTILIZATION -X-	8.83		205
20200	VALUE ADDED			164
20201	PER COMPANY -MMRP-	414.8		
20202	PER EMPLOYEE -MRP -	3193.6		
20300	FIXED ASSETS/EMPLOYEE -MRP-			206
20301	FIXED ASSETS -MRP-	3415.4		
20302	TOTAL ASSETS -MRP-	6128.8		

CODE		DESCRIF	TION	· · · · · · · · ·	QUANTITY	%	VALIDITY
	SIZE OF E		at Ayang 197 9 1980 Albah Bash Ayaf Serr Junk sang gyap Pad				
30100	NOS. OF	EMPLOYEES -	COMPANIES-				217
	1	BELOW 5			6	2.8	_
	2	5 TO 19			6 9	31.8	
	3	20 TO 49 50 TO 99			59	27.2	
	. 4	50 TO 99			40	18.4	
	5	100 TO 199			24	11.1	
	6	200 AND ABOVE	-		19	8.8	
				TOTAL	217	100.0	
30200	FIXED AS	SSETS/COMPANY	-companies(-(43MM		•	205
	. 1	BELOW 70	•		120	58.3	
		70 TO 100	•		20	9.7	
	3	100 TO 500			51	24.8	
	4	500 TO 1000			3	1.5	
•	5	ABOVE 1000			12	5.B	
				TOTAL	206	100.0	
30300	FIXED AS	SSETS/EMPLOYEE	COMPANIES(MMRP)			206
	1	BELOW 0.64			69	33.5	
	2	0.64 TO 1.00	1		23	11.2	
	3	- 1.00 TO 10.0)()		105	51.0	
	4	10.00 TO 50.0	90		B	3.9	
	5	ABOVE 50.00			1	0.5	
			. ــــــــــــــــــــــــــــــــــــ	TOTAL	206	100.0	<u></u>

CODE	DESCRIPTION	QUANTITY	%	VALIDITY
40000 E	ENTREPRENEUR			
40100	BACKGROUND OF OWNER -COMPANIES-			216
	1 GOVERNMENT 2 STATE COMPANY 3 FOREIGN J/V 4 S & M SCALE IND. 5 TRADER 6 TECH. INSTITUTE 7 UNIVERSITY 8 OTHERS	7 7 7 51 106 5 18 39	3.2 3.2 3.2 23.6 49.1 2.3 8.3 18.1	
••	TOTAL	240	111.1	
40200	OWNERSHIP -COMPANIES-			206
	1 ENTREPREN: FAMILY 2 PARENT COMPANY 3 OTHERS	198 3 40	96.1 1.5 19.4	·
-	TOTAL	241	117.0	va. usa ina san san ma ma

CODE	DESCRIPTION	QUANTITY	Х	VALIDIT
	LINKAGE			
5010	MAJOR PROCESS USED -COMPANIES-			219
	1 CASTING	61	27.9	
	2 FORGING/HEAD TR.	52	23.7	
	3 SHEETWORK/WELD.		46.6	
	4 PLATING	.68	31.1	
	5 MACHINING 6 PRESS WORK	163 89	74.4 40.6	
	7 NON-METAL	ď	0.0	
	8 SERVICES	2	0.9	
	TOTAL	537		
5020	MARKET FOR THE COMPANY -MMRP/YR-			210
5020	DIRECT SALES TO LINKAGED COMPANY	271.7	33.8	
50202	SALES TO GENERAL MARKET	532.1	66.2	
	TOTAL	803.8		
50301	INDUSTRIAL CATEGORY FOR (50201)			76
	1 MACHINE TOOL	2	2.6	
	2 AGRICULTURE M/C	17	22.4	
	3 HEAVY, CONST. M/C	7	9.2	
	4 PROCESS EQUIP. 5 ELECTRIC M/C	10 18	13.2 23.7	
	6 SHIP;BLDG M/C	5	6.6	
	7 AUTOMOTIVE	19	25.0	
	8 MOTORCYCLE 9 OTHERS	7 22	9.2 28.9	
•	9 UTHER5			
		107		

CODE		DESCRIPTION	QUANTITY	%	VAL1DIT
		RIAL CATEGORY FOR (50202)			179
	1	MACHINE TOOL	5	2.8	
	2	AGRICULTURE M/C	23	12.8	
	3 4	HEAVY.CONST. M/C PROCESS EQUIP.	7 11	3.9 6.1	
	5	ELECTRIC M/C	39	21.8	
	6	SHIP, BLDG M/C	4	2.2	
	7	AUTOMOTIVE	40	22.3	
	8 9	MOTORCYCLE OTHERS	20 85	11.2 47.5	
-	~ 	TOTAL	234	130.7	
50500	SEVER)	TY REQUIRED BY PARENT COMPANY			
50501	QUALI	TTY -COMPANIES-			90
	1	SEVERE	7	7.8	
	2	ORDINARY	69	76.7	
	3	EASY	14	15.6	
•		TOTAL	90	100.0	
50502	QUANT	ITY -COMPANIES-			87
	1	TOO MUCH	2	2.3	
		NOT MUCH	64	73.6	
		LITTLE	21	24.1	
-		TOTAL	87	100.0	
50503	DELIV	PERY -COMPANIES-			86
	1	STRICT	24	27.9	
	2	ORDINARY	62	72.1	
_		TOTAL	86	100.0	

CODE	DESCRIPTION	QUANTITY		VALIDITY
50504	PAYMENT -COMPANIES-			87
	1 DELAY 2 PUNCTUAL	31 56	35.6 64.4	
-	T	OTAL 87	100.0	
50600	ASSISTANCE PROVIDED BY PARENT COM	PANY		
50601	FINANCIAL SUPPORT			87
	1 YES 2 NO	28 59	32.2 67.8	
	1	OTAL 87	1(10.0	
50602	TECHNICAL ASSISTANCE			87
	1 YES 2 NO	22 65	25.3 74.7	•
•	T	OTAL 87	100.0	

CODE		DESCRIPTION			VALIDIT
		N OF THE COMPANY			
	-				
	FACILI				
60101	LAND	AREA (50.M)	4023.9		153
60102	FACTO	RY BLDG. AREA (SQ.M)	1298.5		169
60103	MACHI	NERY & EQUIPMENT -CONPANIES-	•		213
	i	WELL EQUIPPED		19.2	
	2	FAIR POOR	115 57	54.0 26.8	
		POOR			
•			213		
60104	PRODU	CTION CAPACITY *ENOUGH*			211
	1	YES	116	55.0	
	2	NO	95	45.0	
		TOTAL	211	100.0	
60200	EXPECT	ED TECH.ASSISTANCE BY GOVERNMENT			177
	1	ADVISORY	136	76.8	
	ว	TDATAIAIG	49	27.7	
	3	INSPECTION	69	39.0	
	4	INSPECTION OTHERS		2.8	•
•	_ 	TOTAL			
60300	EXPECT	ED TECH.ASSISTANCE BY PARENT CO.			85
	1	ADVISORY	44	51.8	
	2	TRAINING	12	14.1	
	3	INSPECTION	58	68.2	
	4	OTHERS	5	5.9	
-		TOTAL	119		

CODE		DE	SCRIPTION				
60400	SKILL	of wor	KERS -COMPANIES				215
	1 2 3	HIGH MIDI LOW			73 129 13		
-				TOTAL		100.0	
6050D	OTHERS	-co	MPANIES-		•		
605D 1	Воокк	EEPING					206
·	1 2	YES NO		·	155 51	75.2 24.8	
-				TOTAL	206	100.0	
60502	MATER:	IALS	*AVAILABLE*				211
	1 2	YES NO			189 22	89.6 10.4	
			in dan	TOTAL	211	100.0	
60503	OWN F	UND	*AVAILABLE*				193
	1 2	YES NO			72 121	37.3 62.7	
-				TOTAL	193	100.0	

CODE	DESCRIPTION		QUANTITY	<u>"</u>	VALIDITY
70000	FUTURE PLAN				
70100	EXPANSION PLAN				219
	1 YES 2 NO		159 60	72.6 27.4	
		TOTAL	219	100.0	هند دووه بادو سند دوم ودو المحل اليس
70200	EXPECTED YEAR		1987.4		112
70300	CAPITAL REQUIREMENT (TOTAL)	-MMRP-			
70301	EXPECTED INVESTMENT		84038.9		121
70302	EXPECTED SELF FINANCE		8627.9	29.5	108
70303	EXPECTED LOAN		20585.5	70.5	111
70400	CAPITAL REQUIREMENT (AVERAGE)	-MMRP-			
70401	EXPECTED INVESTMENT		694.5		121
70402	EXPECTED SELF FINANCE		79.9	30.1	108
70403	EXPECTED LOAN		185.5	69.9	111

CODE		DESCRIPTION	1	QUANTITY	×	VALIDITY
70500	EXPEC	TED MARKET GROWTH				
70501	FIVE	YEAR *AVERAGE* -%-		51.5		165
	2	BELOW 10% 10% TO 20% 20% TO 30% 30% TO 40% 40% ABOVE		1 11 46 9 98	0.6 6.7 27.9 5.5 59.4	
,			TOTAL			
70502	TEN	YEAR *AVERAGE* -%-		117.3		133
	2 3	BELOW 20% 20% TO 40% 40% TO 60% 60% TO 80% 80% ABOVE		0 31	0.0 0.0 23.3 15.8 60.9	
		· .		133		Pan alam aka sana nga Mila dibu wan Min
70600	ASSIST	ANCE EXPECTED BY COMPAN	1Y			
70601	FROM	PARENT COMPANY				163
,	1 2 3	TECHNICAL FINANCIAL OTHERS		94 81 71	57.7 49.7 43.6	
			TOTAL		150.9	
70602	FROM	GOVERNMENT				192
	1 2 3 4 5 6	SUPPORT BY LOAN ETC FIN. SUPPORT TECH. TRAINING MANAGE TRAINING MARKET SUPPORT OTHERS		124 32 95 76 163 20	64.6 16.7 49.5 39.6 84.9 10.4	
•			TOTAL	510	265.6	

CASE SMES	ន		SUMMARY OF QU - ALL SUB	QUESTIONNAIRE SUB-SECTORS -	1,1				P- 13
CODE	0 E	SCRIPT	N O I	KIK. (INVEST)	KMKP	KIB (INVEST)	OTI)	OTHER ST) (W/C	TOTAL
80000 F.	80000 FINANCIAL ASPECT	ECT							
80100	PRESENT BORROWINGS	ROWINGS							
80101	NOS. OF BORROWERS	RROWERS		37	53	17	7	21	135
80102	BORROWINGS	-MMRP-		443.5	0.777	9062.0	18108.0	9902.6	38293.1
			PERCENTAGE	1.2	2.0	23.7	47.3	25.9	100.0
80103	AVERAGED BORROWING		-MMRI ¹⁷	12.0	14.7	533.1	2586.9	471.6	3618.1
			PERCENTAGE	0.3	7.0	14.7	71.5	13.8	100.0
80104	INTEREST RATE	AATE -2-		12.0	12.0	12.0	19.5	33.3	
80105	COLLATERAL	-COMPANIES-	l th						
	1 LAND 2 BUILI 3 MACH; 4 OTHER	LAND BUILDING MACHIMERY OTHERS		24 92	4 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	V 60 C0 4	ろそれの	8003	85 22 15 18
I			TOTAL	37	53	21	7	22	140
80108	BANK -NC	-NOS. OF BORROWE	ERS-						
	200 4 6 0 4 6 0 6 6 6 6 6 6 6 6 6 6 6 6 6	BK. NEGARA INDO BK. DAGAN NEGARA BK. BUMI DAYA BK. RAKYAT INDO BK. RAKYAT INDO BK. PENBANG.INDO BK. PENBANG.INDO BK. PENBANG OAERA PRIVATE BANK	er et	24444日まれる日	4 44440000		40000000000000000000000000000000000000	V242DDD47	450T = C.S.
ļ			TOTAL	36		17	11	25	143

CODE		DE	SCRIPTION	p.p. prij 400 like d.v. Pr	QUANTITY	<u> </u>	VALIDIT
80200	ACCEPT		Y OF PRESENT CODITIO		·		
			(INTEREST RATE)				178
	1	YES			128	71.9	
	2				50	28.1	•
_	ه حصد لجي پيدر شمة خدم حلب بيسد.			TOTAL			
80202	STATE	BANK	(REPAYMENT RERIOD)				173
	1 2	YES NO			121 52	69.9 30.1	
	-	-					
•				TOTAL	173	100.0	
80203	STATE	BANK	(LENDING AMOUNT)				152
	1 2	YES	•		85 67	55.9	
						44.1	
				TOTAL	152		., 27 to 21
80204	STATE	BANK	(COLLATERAL)				173
	1	YES			132	76.3	
	2	ИО			41	23.7	
_			and the same plant date you was you have may use this that have been sent and the best sent and the be	TOTAL	173	100.0	
80205	OTHER	FINAN	CIAL (INTEREST RATE)		·		83
	1	YES NO			30		
•	2				53	63.9	
Page 1		~ — <i></i>	ور الله الله الله الله الله الله الله الل	TOTAL			
80206	OTHER	FINAN	CIAL (RERAYMENT PERI	00)			78
	1	YES			36		
	2	NO			42	53.8	
-	—				78		

CODE		DESC	RIPTION		QUANTITY		VALIDIT
			(LENDING AMO				73
	1 2	YES NO			46 27	63.0 37.0	
_					73		
80208	OTHER	FINANCIAL	(COLLATERAL)				79
	1 2	YES NO			34 45	43.0 57.0	
<u></u> .					79		
80209	1NFOR	MAL LENDING	GCINTEREST RA	TE)			80
	1 2	YES NO			11 69	13.7 86.2	
_				TOTAL	08	100.0	ers ware some dans dans fired firms delle film
80210	INFOR	MAL LENDIN	G(RERAYMENT P	ERIOD)			80
	1 2	YES NO			23 57	28.7 71.2	
_		، بىيىد بۇنىغ مىسىلە ئىيىرى مىشاك ئىيىدا ئىشتاك سىساك ئ <u>ىسى</u> .	aan dada kuna maan qaan kuna seere maan yean keski tiroo biroo tiroo tiroo tiroo tiroo tiroo tiroo tiroo tiroo		80		
80211	INFOR	MAL LENDIN	G(LENDING AMO	JNT)			78
	1 2	YES NO			43 35	55.1 44.9	
-				TOTAL			
80212	INFOR	MAL LENDIN	G(COLLATERAL)				87
	1 2	YES NO			23 64	26.4 73.6	
				TOTAL	87	100.0	-

SUMMARY OF QUESTIONNAIRE - ALL SUB-SECTORS -

	•	and the second s		
CODE	DESCRIPTION	QUANTITY	%	VALIDITY
80301		9.2		39
80302	INTÉREST RATE (W / C) -%-	11.3		45
80303	REPAYMENT PERIOD (INVEST.) -YEARS-	6.9		44
80304	REPAYMENT PERIOD (W / C) -YEARS-	5.0		52
80305	LENDING AMOUNT (INVEST.) -MMRP-	162.9		47
80306	LENDING AMOUNT (M / C) -MMRP-	234.4		53
80307	COLLATERAL (INVEST.) % OF AMOUNT	62.8		36
80308	COLLATERAL (W / C) % OF AMOUNT	0.0		ø
80400	DESIRABLE CONDITION(INVESTMENT)			
80401	INTEREST RATE			39
	1 BELOW 5% 2 5% TO 10% 3 10% TO 15% 4 15% ABOVE	4 16 16 3	41.0	
_	TOTAL	39	100.0	
80402	REPAYMENT PERIOD			44
	1 BELOW 3YRS 2 3 TO 5YRS 3 5YRS ABOVE	0 1 43	0.0 2.3 97.7	
-	TOTAL	44	100.0	

CODE		DESCRIPTIO	N	QUANTITY	%	VALIDITY
80403	LENDI	NG AMOUNT -MMRP-				47
	1	BELOW 50		21	44.7	
	2	50 TO 100		5	10.6	
	3	100 TO 150		. 3 1	6.4 2.1	
	4 5	150 TO 200 200 ABOVE		17	36.2	
-	an and gard and and gard from any	و بين ميا الله الله الله الله الله الله الله ال	TOTAL	47	100.0	
80404	COLLA	TERAL				36
	1	BELOW 30%		14	38.9	
	2	30% TO 50%		1	2.8	
	3 4	50% TO 70% 70% ABOVE		6 15	16.7 41.7	
	*1	70% HOOVC				
•			TOTAL	36	100.0	
80500	DESIRA	BLE CONDITION(WORING C	OPITAL)			
80501	INTER	REST RATE				45
	1	BELOW 5%		2	4.4	
	2	5% TO 10% 10% TO 15%		11	24.4 46.7	
÷	3 4	10% TO 15% 15% ABOVE		11	24.4	
-	-	. 1880 400 1881 4885 4886 4886 4886 4886 4886 4886 4886	TOTAL	45	100.0	
80502	REPAY	MENT PERIOD				52.
		BELOW 3YRS		5	9.6	
	1 2	3 TO 5YRS		14	26.9	
	3	5YRS ABOVE		33	63.5	
-	·		 TOTAL	 52	100.0	

CODE		DESCRIPTIO	N	QUANTITY		VALIDITY
80503	LENDI	NG AMOUNT -MMRP-				53
	1 2 3 4 5	BELOW 50 50 TO 100 100 TO 150 150 TO 200 200 ABOVE		27 10 3 1 12	50.9 18.9 5.7 1.9 22.6	
_		e and their main field. Plets from field area also also also also also place also also great field from their field their field.	TOTAL	53	100.0	
80504	COLLA	TERAL				O
	1 2 3 4	BELOW 30% 30% TO 50% 50% TO 70% 70% ABOVE		0 0 0	0.0 0.0 0.0	
_			FOTAL		0.0	