FINAL REPORT FOR THE STUDY ON THE LAEM CHABANG EPZ/GIE INDUSTRIAL PROMOTION IN THE KINGDOM OF THAILAND FANNEX!

FINAL REPORT **FOR** THE STUDY ON THE LAEM CHABANG EPZ/GIE INDUSTRIAL PROMOTION KINGDOM OF THAILAND

[ANNEX]

DECEMBER 1988 JAPAN INTERNATIONAL COOPERATION AGENCY



国際協力事業団 19046

|| LIBRARY

19046

ANNEX

TAl	SLE OF C	ONTENTS	· 10		** 7	17.0			w :		. 4		
1.	Import	Duty Ra	te by	Type of	Goods	. in	Thail	land	1985	the figure		-:-	
Ţ	able-l	Import	Duty	Rate by	Type	of (loods	in	Thailand	1985-1	**************	*******	1
7	Table-2	Import	Duty	Rate by	Туре	of (Goods	i n	Thailand	1985-2	***************	********	2
	Table-3	Import	Duty	Rate by	Type	of (Goods	in	Thailand	1985-3	***************		- 3
. 1	able-4	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-4	**************	******	4
- 1	able-5	Import	Duty	Rate by	Type	of (Goods	in	Thailand	1985-5			5
	Table-6	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-6			6
. 1	Cable-7	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-7		444633431	7
	Table-8	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-8	****************		8
	Table-9	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-9		********	9
	Table-10	Import	Duty	Rate by	Type	of (Goods	in	Thailand	1985-10-	****************		10
	fable-11	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-11-	***************************************	••••••	11
	Table-12	Import	Duty	Rate by	Type	of (Goods	in	Thailand	1985-12-		*****	12
	Cable-13	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-13.	***********	*****	13
	Table-14	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-14.	****************		14
ŗ	Table-15	Import	Duty	Rate by	Туре	of (Goods	in	Thailand	1985-15-			15
2.	Degree 1985	of Labo	r Inte	nsivene	ss by	Тур	es of	Man	ufacturin	ng Indust	ry in Ja	pan	
	Table-16	_		bor Int Japan 1			-	•	s of Manu		g 	*********	17
	Cable-17	Degree Indust	of La	bor Int Japan 1	ensive 985	nes	s by T	Гуре	s of Man	ıfacturin	g 	2012404272	18
•	Table-18							******	s of Manu			B884675994]	19
	Table-19	Degree Indust	of La	ibor Int Japan 1	ensive 985	nes	s by 1	Гуре	s of Manu	facturin	g g	2	20
	Γable-20								s of Manu			2	31
3.	Manufac	turing	indust	ries in	Bangk	ok A	Area 1	984					
	Table-21	Manufa	cturin	ig indus	tries	in E	Bangko	k A	rea 1984	.,;***************************	************************************	2	23
: •	Table-22	Manufa	cturin	g indus	tries	in E	Bangko	k A	rea 1984.		*************	2	34

4. Bangkok	Area's Share in Manufacturing industries of Whole Kingdom 1984	10.
Table-23	Bangkok Area's Share in Manufacturing industries of Whole Kingdom 1984	25
Table-24	Bangkok Area's Share in Manufacturing industries of Whole Kingdom 1984	26
Table-25	Bangkok Area's Share in Manufacturing industries of Whole Kingdom 1984	27
Table-26	Bangkok Area's Share in Manufacturing industries of Whole Kingdom 1984	28
5. Questio	nnaire Survey	
Table-27	Problems facing at overseas direct investment by Japanese companies	29
Table-28	The Location conditions required by potential investors	29
	Incentives required by potential investors (GIE)	30
Table-30	Incentives in EPZ	30
Table-31	Supporting services required by potential investors	31
Table-32	Supporting facilities provided in and around the Estate	32
Table-33	Leasing system and its period	32
6. Locatio	n Specifications for Model Plant	
•Questio	nnaire From	33
Table-34	Location Specifications for Model Plant (JAPAN)	41
7. Industr	ial Estate, its facilities and Services	
Table-35	Laem Chabang New Town Community Plan	51
Table-36	Outline of Example of Industrial Parks in Japan	54
Table-37	Modes of Free Trade Regions	62
Table-38	Characteristics of Free Trade Zones of Various Coutries	64
Table-39	Examples of Industrial Parks in Asian Coutries	66
Table-40	Foreign Trade Zone in the United States and Its System	71
Table-41	Summary of interviews with some firmscrrentlt operating in the Thailand industrial complexs	76
Table-42	Outline of industrial Parks in Thailand	80
Table-43	Employment in the Masan Free Export Region	84
Table-44	Labor Force in the Taiwan EPZ	84

Table-45	Labor Force in the South Korean GIE	84
Fig1	Factory siting Application Procedures (1), Korea	
Fig2	Factory siting Application Procedures (2), Korea	86
Fig3	Procedures for Application for Direct Investment, Joint	
	Investment and Technology Introduction into Masan Free Export Zone	87
Fig4	Factory siting Application Procedures, Taiwan	88
Fig5	Procedures for Factory Siting Applications, Thailand	89
Fig6	Procedures for Factory Siting Applications, Japan	90
8. Investm	ent Seminar	
• Invicat	ion Card	91
• Program		92

1. Import Duty Rate by Type of Goods in Thailand 1985

Table-1 Import Duty Rate by Type of Goods in Thailand 1985-1 (Order of the Higher Rate)

		<u></u>	
ı			
. 1	Rate	*	<u> </u>
٠,	of ·	Heading No	Goods
- 1			i i
ı	duty		
ŀ			
- 1	0.00	9709 100	Descendent boton webtalon baying loss than 20 acets
- 1	200	8702 109	Passenger motor vehicles having less than 29 seats
- 1	200	8702 909	Passenger motor vehicles
- 1		0100 000	M. A.
- 1	200	8703 100	Motor cars and motor vehicles for special use
- 1	200	8703 210	of a cylinder capacity not exceeding 1000cc
- !		0700 210	
- 1	200	8703 229	; of a cylinder capacity 1500cc~ 3000cc
- 1	200	8703 239	of a cylinder capacity exceeding 3000cc
- 1		0100 200	
ı	200	8703.249 319 329.339 -	Other motor cars and motor vehicles
- 1	200		Other motor vehicles having less than 10 seats
ŀ	200	8703 900	Other adent termines having ters than in seats
- 1			
- 1	100	0.000	Perhumes and toilet waters
- 1	100	3303	
٠.	100	3304	Beauty and make-up preparations for the care of the skin {
1			
	100	3305	Preparations for use on hair
1	100	3306	Preparations for oral or dental hygiene
			la fila de la companya del companya de la companya del companya de la companya de
. i	100	3307	Shaving, personal deodrants and other perfusery
. [100	4202	Cases, trunks, bags and boxes
- 1			
ŀ	100	4203	Articles of apparel and clothing accessories
- 1	100	4205	Other articles of leather or of composition leather
ı		7177	
- [100	4303	Articles of apparel, clothing accessories and so on
I	100	4304 009	Other artificial fur and articles thereof
ļ	- (
.	100	5701 ~ 5703.5705	Carpets and other textile floor coverings
1			1
- [100	5804 ~ 5805	Special voven fabrics
1	100	5810	Embroidery in the piece, in strips or in motifs
Į			
1	100	6001 ~ 6002	Knitted or crocheted fabrics
ı	100	6101	Men's and boys' overcoats, capes, cloaks, anoraks and so on
- 1			
- 1	100	6102	Women's and girls' overcoats, capes, anoraks and so on
	100	6103	Men's and boys' suits, jackets, blazers and so on
ı			
- }	100	6104	Women's and girls' suits, jackets, blazers and so on
- 1			Apparel and clothing accessories, knitted or crocheted
- !	100	6105 ~ 6117	1 '
- 1	1.00	5201 ~ 5217	Apparel and clothing accessories, not knitted or crocheted
- 1			, ···
- 1	100	6302 ~ 6304	Other made-up textile articles
- 1	100	6307 ~ 6308	Other made-up textile articles, sets
- 1			
- 1	100	6401 ~ 6405	Footwear, gaiters and the like; parts of such articles
- 1	100	6503 ~ 6506	Headgear and parts thereof
- 1			1 1 = 1 1
- 1	100	6601	[Umbrellas and sun umbrellas
1	100	6602	Walking-sticks, seat-sticks, whips and so on
- 1	9.3		1 · · · · · · · · · · · · · · · · · · ·
- 1	100	8528 100	Colour television receivers
- 1			
Ţ	100	8703 222 232 242 312	Cars of leep type with either flexible or hard top
- [100	322 332	[Including station-wagon type, and similar vehicles
- 1			
1	100	8704 211 311 901	Van and pick-up tracks and similar vehicles
- }-			
- 1	ا مه	3401 111 191 200	Soan and organia durtago-pattua products and preparations
1	80		Soap and organic surface-active products and preparations
ļ	. 80	3604	Fireworks, signalling flares and other pyrotechnic articles
- [8.0	4601 200	Mats, matting and screens of vegetable materials
ł		T T T T T T T T T T T T T T T T T T T	
1	80	5007	Woven fabrics of silk or of silk waste
1	80	5111	Woven fabrics of carded wool or of carded fine animal hair
ı			
1	80	5112	Woven fabrics of combed wool or of combed fine animal hair
ĺ	80	5113	Woven fabrics of coarse animal hair or of horsehair
1		l · · · · · · · · · · · · · · · · · · ·	
1	80	5208	Pabrics of cotton, containing 85%, not more than 200g/m
Ì	80	5209	Woven fabrics of cotton, containing 85%, more than 200g/m
ļ			
١	80	5210	; containing less than 85%, not more than 200g/m
- 1	80	5211	; containing less than 85%, more than 200g/m
- 1			
1	80	5212	Other woven fabrics of cotton
1	80	5309	Woven fabrics of flax
ı			
١	80	5310	Woven fabrics of jute or of other textile bast fibres
- 1			Woven fabrics of other textile fibres
	80	5 3 1 1	
- [80	5407.	Woven fabrics of synthetic filament yarn
1		·	
1	80	5408	Woven fabrics of artificial filament yarn
١	80	5512	Woven fabrics of synthetic staple fibres, containing 85%
I			
1	80	5513	; containing less than 85%, not exceeding 170g/m
-	80	5514	; containing less than 85%, exceeding 170g/m
- 1			
1	80	5515	Other woven fabrics of synthetic staple fibres
١	80	5516	Woven fabrics of artificial staple fibres
ı			
Ī	8 0	5801	Woven pile fabrics and chemilie fabrics
-			Terry towelling and similar woven fabrics
-	80	5802	
1	80	5803	Gauze, other than narrow fabrics
١			
- 1	80	5806	Narrow woven fabrics
L			<u> </u>

Table-2 Import Duty Rate by Type of Goods in Thailand 1985-2 (Order of the Higher Rate)

Rate		
of duty	Heading No.	Goods was the state of the stat
80	5809	Woven fabrics of metal thread and metallised yarn
-80	5811	Quilted textile products in the piece
80 80	6802 6907	Worked monumental or building stone and articles thereof Unglazed ceramic flags and paving, hearth or wall tiles
80	6908	Glazed ceramic flags and paving, hearth or wall tiles
80		Ceramic sinks, wash basins, baths, bidets and so on
80 80		Tableware, kitchenware, other household articles and so on Ceramic tableware, kitchenware, other household articles
80	6913	Statuettes and other ornamental ceramic articles
80	6914	Other ceramic articles
80		Preserving jars
80	7013	Glassware of a kind used for table, kitchen and office Paving blocks, slabs, bricks, squares and other articles
80	8414 510 600	Air or vacuum pumps, air or other gas compressor and funs
80	8450	Household or laundry-type washing machines
8 0 8 0	8451 210 901	Machinery for washing, cleaning, drying, ironing and so on each of a dry linen capacity not exceeding 10kg
80	8509	Electro-mechanical domestic appliances, with electric motor
80	8528 200	Television receivers of black and white or other monochrome
80	8705 8707	Chassis fitted with engines, for the motor vehicles
80	9401,9403,9404,9406	Parts and accessories for the motor vehicles Miscellaneous manufactured articles
80	9405 100 910	Miscellaneous manufactured articles
80	9501	Wheeled toys designed to be ridden by children
8 0 8 0	9502 9503	Dolls representing only human beings Other toys; pazzles of all kinds and so on
70	4410	Particle board of wood or other ligneous materials
6.5	0409	Natural honey
6.5	1212 991	Locust beans, seaweeds and other algae; melon seeds
6.5	1701	Cane or beet sugar and chemically pure sucrose. In sold form
8 5 6 5	1702 200	Other sugers, including chemically pure lactose and glucose; other syrups and artificial honey
6 5	1703	Molasses resulting from the extraction or refining of sugar
60	0201 ~ 0210	Meat and edible meat offal
60	0301 ~ 0307	Fish and crustaceans, molluses and other aquatic invertebrates
60	0405 009	Oils derived from milk
60 60	0406	Cheese and curd
60	0511 992	Edible products of animal origin; salanganes nests Animal products; fish bladders
60	0601 ~ 0504	Live trees and other plants
6 O 6 O	0701 ~ 0714 0801 ~ 0814	Edible vegetables and certain roots and tubers
60	0902	Edible fruit and nuts; peel of citrus fruit or melons Green tea in packings of a content not exceeding 3kg
60	0903	Mate's a subject of the second
6 0 6 0	1201 001 1202 101 201	Soya beans, whether or not broken; edible Ground-nuts, not roasted or otherwise cooked
60	1206 001	Sunflower seeds, whether or not broken; edible
6.0	1207 401	Other oils seeds and oleaginous fruits; edible
60	1208	Flours and meals of oil seeds or oleaginous fruits
6 O 6 O	1212 209 1601 ~ 1605	Locust beans, seaweeds and other algae Propared foodstuffs; beveraged, spirits, vinegar and so on
60	1704	Sugar confectionery, not containing cocoa
8.0	1806	Chocolate and other food preparations containing cocoa
60 60	1902 ~ 1905 2001 ~ 2009	Preparations of cereals, flour, starch or milk Preparations of vegetables, fruit or other parts of plants
60	2101 ~ 2106	Miscellaneous edible preparations
6.0	2201 ~ 2209	Beverages, spirits and vinegar
60 60	2401 ~ 2403 2922 421	Tabacco and manufactured tabacco substitutes Oxygen-function amino-compounds; glutamic acid and its salts
60	3402 111	Organic surface-actives agents (other than soap)
60	3605	Hatches
60	3915 ~ 3926	Prastics

Table-3 Import Duty Rate by Type of Goods in Thailand 1985-3 (Order of the Higher Rate)

 		
ate.	· ·	
10	Heading No.	Goods
luty		
-60	4008 111 191 211 291	Plates, sheets, strips, rods and profile sharpes.
	Committee Commit	of vulcanised rubber other than hard rubbe
6.0	4016 101 911 991	Other articles of vulcanised rubber other than hard rubber
60	1010 001	Hard rubber in all forms; floor tiles, wall tiles
60	4201	Saddlery and harness for any animal
	4412	Saddlery and harness for any animal Plywood, vencered, panels and similar laminated wood Wood marquetry and iniaid wood Basketware and wickerwork Basketware and wickerwork Cigarette paper Wallpaper and similar wall coverings Floor coverings on a base of paper or of paperboard Sanitany towels and tampons
60	4420 901	Wood marquetry and iniald wood
60	4601 910 990	Basketware and wickerwork
	4602	Dasketware and wickerwork
6 O	4814	Wallnaner and similar wall coverings
	4815	Floor coverings on a base of paper or of paperboard
6.0	4818 401	Sanitany towels and tampons
60	4823 901	Joss paper
60	4909 009	Printed or illustrated postcards
60	4910 001	Joss paper Printed or illustrated postcards Calendars printed on paper or paperboard Wadding of textile materials and articles thereof
0 6	5601 100 212 222 292	Wadding of textile materials and articles thereof
50	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	knotted netting of twine, cordage or rope
	5905	Textile wall coverings
		Blankets and travelling rugs, of textile articles
6 0 6 0	6309 6505 100	Worn clothing and other worn articles, of textile articles
60	5704	Hair-nets Wigs, false beards, eyebrows and eyelashes Foor tiles and wall tiles of stone, cement and the likes Glass mirrors including rear-view mirrors
60	6812 901	Foor tiles and wall tiles of stone, cement and the likes
	7009	Glass mirrors including rear-view mirrors
80	7014	Signalling glassware and optical elements of glass Glass beads, imitation pearls and similar glass smallwares
	7018	Glass beads, imitation pearls and similar glass smallwares
	7113	Articles of jevellery and parts with precious netal
60	7114	Articles of goldswiths' or silverswiths' wares and parts
60	7115	Other articles of precious metal or of metal clad Articles of natural or cultured pearls and precious stones
6 G 6 O	7116 7117	imitation jewallery
60	7319 200	Sefety pins of iron or steel
		Other pins of iron or steel
	7321	Stoves, ranges, barbeques and so on, of iron or steel
	7323	Household articles of iron or steel
60	7324	Sanitary ware and parts thereof, of iron or steel
60-	7326 201	Iron or steel baskets and the likes coated with plastic
	7417	Cooking and heating apparatus of copper
60	I ·	Household articles and parts of copper
8.0	7508 001	Articles of nickel, a kind used for domestic purpose
60 60	·	Household articles and parts of alminium
60 60	7806 001 7907 901	Articles of lead, a kind used for domestic purpose Articles of zinc, a kind used for domestic purpose
60	8007 001	Articles of tin, a kind used for domestic purpose
60	8211	Knives of base metal
60	8215	Spoons, forks and the likes, of base metal
60	8305	Office articles of base metal like letter-pins, paper-crips
60	8306	Statuettes and other ornaments, of base metal
60	8415	Machine for changing the temperature and humidity
60	8418	Refrigerators, freezers and other freezing equipment
60	8452 400	Furniture, bases and covers for sewing machines and parts
60	8507	Electric accumulators, including separators therefor
6 O	8513 100	Portable electric lamps Microphones and stands therefor
60 60 -	8518	Record-players and other sound reproducing apparatus
60	8520	Magnetic tape recorders and other sound recording apparatus
60	8521	Video recording or reproducing apparatus
60	8522	Parts and accessories of apparatus of record or cassette
60	8523	Prepared unrecorded media for sound recording
6.0	8524	Records, tapes and other recorded media for sound
60	8527	Reception apparatus for radio-telephony or radio-telegraphy
6.0	8529 102 902	Parts suitable for use solely or principally
60	8539 310	Electric filament or discharge lumps; fluorescent, cathode
0 a	8708	Parts and accessories of the motor vehicles Motorcycles and cycles fitted with an auxiliary motor
		INDITOTOTOTO SE SEA CYCLES TITLES WITH SE SUVILIET MOTOT

Table-4 Import Duty Rate by Type of Goods in Thailand 1985-4 (Order of the Higher Rate)

Rate		
of	Heading No.	Goods
duty	1040118 1101	
44.3		
60	9003	Frames and mountings for spectacles, goggles and the like
60	9004	Binoculars, monoculars, other optical telescopes, mountings
60	9113	Watch straps, bands, and bracelets, and parts thereof
60	9405	Electric table, desk, bedside, lamps and lighting fittings
		Rand sieves and hand riddles
60	9604	
.60	9505	Travel sets for personal toilet, sewing or shoe
60	9606	Buttons, press-fasteners, snap-fasteners and press-studs
60	9607	Slide fasteners and parts thereof
60	9614	Smoking pipes and cigar or cigarette holders
60	9615 900	Combs. hair-slides and the like; hairpins and curling grips
60	9616 200	Powder-puffs and pads for the application of cosmetics
60	9817	Vacuum flasks and other vacuum vessels, complate with cases
60	9618	Tailors' dummies and other lay figures
60	9701 ~ 9703,9706	Works of art, collectors' pieces and antiques
50	2523 210	White cement
50	2906	Cyclic alcohols and the halogenated or nitrated derivatives
50	3 3 0 2	Essential oils, mixtures of odoriferous substances
50	3402 201	Organic surface-active agents; detergent
50	4001	Natural rubber, balata, gutta-percha, guayule and chicle
5.0	4002 192	Styrene-butadiene rubber in plates, sheets or strip
50	4002 202	Butadiene rubber in plates, sheets or strip
50	4002 312 392	Isobutene-isoprene rubber in plates, sheets or strip
50	4002 492	Chloroprene rubber in plates, sheets or strip
5.0	4002 592	Acrylonitrile-butadiene rubber in plates, sheets or strip
50	4002 602	Isoprene rubber in plates, sheets or strip
50	4002 702	EPDM (rubber) in plates, sheets or strip
50	4002 809	Mixtures of natural rubber latex with synthetic rubber latex
50	4002 992	Other rubber in plates, sheets or strip
	4005	Compounded rubber
50	4006	Other forms and articles, of unvulcanized rubber
50	4007	Vulcanized rubber thread and cord
50	4008 119 199 219 299	Plates, sheets, strips, rods, and profile sharpes.
		of vulcanized rubber other than hard rubbr
50	4009	Tubes and pipes, of vulcanized rubber other than hard rubbr
50	4010	Conveyer or transmission belts, of vulcanized rubber
50	4014	Hygienic or pharmaceutical articles, of vulcanized rubber
50	4015	Articles of apparel and accessories, of vulcanized rubber
50	4016 109	Wall tiles of vulcanized rubber
50	4016 919	Floor coverings and mats of vulcanized rubber
50	4016 920	Erasers of vulcanized rubber
50	4016 930	Gaskets, washers and other seals of vulcanized rubber
50	4016 940	Boat or dock fenders of vulcanized rubber
50	4016 950	inflatable articles of vulcanized rubber
50	4016 999	Articles used for medical purpose of vulcanized rubber
50	4017 009	Hard rubber in all forms (for examples, ebonite)
50	4302	Leather: mink, rabbit, hare and so on
50	4304 001	Leather of artificial fur
50	5604 100	Rubber thread and cord, textile covered
50	5903	Textile fabrics impregnated, coated or covered with plastic
50	6802 100	Worked monumental or building stone (except slate)
50	7003	Cast glass and rolled glass
50	7004	Drawn glass and blown glass
50	7005 109 219 299 300	Float glass and surface ground or polished glass
50	7006 009	Glass of bent, edge-worked, engraved or drilled
50	7007	Safety glass, consisting of toughened or laminated glass
50	7008	Multiple-walled insulating units of glass
50	7012	Glass inners for vacuum flasks or for other vacuum vessels
50	8509 900	Parts of electro-mechanical domestic appliances
50	9103	Clocks with watch movements
50	9104	Instrument panel clocks for vehicles, aircraft or vessels
50	9105	Alarm clocks and wall clocks
50	9107	Time switches with clock or watch movement
		ILLIAAN MAUAMARIA AARALAIA AAA AAAAAA LAA
50	9109	Clock movements, complete and assembled
	9109 9111 ~ 9112 9201	Watch cases and parts thereof Planos, including automatic planos

Table-5 Import Duty Rate by Type of Goods in Thailand 1985-5 (Order of the Higher Rate)

Rate of duty	Heading No.	Goods
	13 16 100	Cigarette lighters and other lighters Scent sprays and similar toilet sprays
	02	Felt Carpets and other textile floor coverings of felt
40 04	01 ~ 0106 01 02 910 990 03	Live animals Milk and cream, not containing sweetening matter Milk and cream, containing sweetening matter Fermented or acidified milk and cream
40 09 40 11 40 12	04 101 901 01 01 ~ 1109	Whey, in liquid, including concentrated form Coffee Products of the milling industry; malt; starches; inulin Seeds, fruit and spores, of a kind used for soving
40 12 40 12 40 13	110 111 112 102 109 02 309 400	Hop cones Plants and parts of plants including seeds and fruits Locust beans, seaweeds and other algae Lactose and lactose syrup Glucose and glucose syrup
40 13 40 13 40 13	02 600 02 909 01 200 07 901	Other glucose and glucose syrup Other, including invert sugar Malt extract, mixes and doughs Contact lenses or artificial eye solution
40 34 40 34 40 34		Soap and organic surface-active products and preparations Organic surface-active agents (other than soap) Lubricating preparations; oil or glease Artificial waxes and prepared waxes
40 34 40 38	106 107 009 101	Polishes, creams and similar preparations Candles, tapers and the like Modelling pastes, including put up for children's amusement Propellent powders
40 36 40 36 40 37	02 03 06 01 ~ 3705	Prepared explosives, other than propellent powders Safety fuses, detonating fuses, igniters and so on Perro-cerium and other pyrophoric alloys in all forms Photographic or cinematographic goods Prastics and articles thereof
40 41 40 41 40 41	101 ~ 3915 04 101 04 210 04 221 291 04 310 390	Whole bovine skin leather: alum tanned, parchment dressed Bovine leather, vegetable pre-tanned Bovine and equine leather; alum tanned Full grains, grain splits and other
40 41 40 41 40 41	05 121 191 05 200 06 121 191 06 200	Sheep or lamb skin leather; alum tanned Sheep or lamb skin leather; parchment-dressed after tanning Goat or kid skin leather; alum tanned Goat or kid skin leather; parchment-dressed after tanning
40 41 40 41 40 41	07 101 291 901 08	Leather of animals; alum tanned, parchment-dressed or dyed Chamois (including combination chamois) leather Patent leather and patent laminated leather Travel goods, Nandbags and similar containers of leather
40 44	911 921 991 08	Wood sawn or chipped lenghtwise, planed, sanded or finger-jointed, of a thickness Veneer sheets and sheets for plywood or the like
40 44	09 11 14 15	Wood continuously shaped along any of its edges or faces Fibreswood of wood or other ligneous materials Wooden frames for paintings, photographs and mirrors Packing cases, boxes crates, drums and the like, of wood
40 44 40 44 40 44	16 17 18 19	Casks, barrels, vats, tubs and other coppers' products Tools, tool bodies and handles, blush bodies and handles Builders' joinery and carpentry of wood Tableware and kitchenware, of wood
40 44 40 44 40 44	20 100 20 909 21	Statuettes and other ornaments, of wood Caskets and cases for jewelley or cuttery, of wood Articles of wood; clothes hangers, toothpicks Agglomerated cork; gascket
40 48	04 901 16 ~ 4823 01	Agglomerated cork; gascket Articles of paper pulp, of paper or of paperboad Printed books, brochures, leaflets or similar printed matter

Table-6 Import Duty Rate by Type of Goods in Thailand 1985-6 (Order of the Higher Rate)

	r	
Rate		
of	Heading No.	Goods
	" " " " " " " " " " " " " " " " " " "	
đưty		
	1007	
40.	4907	Stamp-impressed paper, cheque forms or documents of titles
40	4908	Transfers (decalcomanias)
40	4909 001	Postcards not printed
40	4910 009	Calendars not printed on paper or paperboard
40	4911	Printed matter, including printed pictures and photographs
40	5106	Yarn of carded wool, not put up for retail sale
40	5107	Yarn of cambed wool, not put up for retail sale
40	5108	Yarn of fine animal hair, not put up for retail sale
40	5109	Yarn of wool or fine animal hair, not put up for retail sale
40	5110	Yarn of coarse animal hair or of horsehair
	· · · · · · · · · · · · · · · · · · ·	
40	5508	Seving thread of man-made staple fibres
4.0	5509	Yarn of synthetic staple fibres, not put up for retail sale
40	5510	Yarn of Artificial staple fibres, not put up for retail sale
4.0	\$511	Yarn of man-maade staple fibres, not put up for retail sale
40	5604 200	High tenacity yarn of polyesters, of nyron or viscose rayon
40	5604 900	Rubber thread or cord
40	5605	Metallised yarn
40	5606	Gimped yarn, chemille yarn or loop wale-yarn
40	5607	Twine, cordage, rope and cables
1 - 1		
40	5807	Labels, hadges and similar articles of textile materials
40	5808	Braids in the piece, Tassels, pompons and similar articles
40	5902	Tyre cord fabrics of high tenacity yarn of nyron or rayon
40	5904	Linoleum, floor coverings
40	5906	Rubberised textile fabrics
40	5907	Textile fabrics otherwise impregnated, coated or covered
40	6306	Tarpaulins, sails for boats, awnings and camping goods
40	6406	Parts of footwear
40	6603	Parts of trimmings and accessories of unbreilas or sticks
40	6701	
		Skins and other parts of birds with their feathers or down
40	6702	Artificial flowers, foliage and fruit
4.0	6703	Human hair, dressed, thinned, bleached or otherwise worked
40	6801,6803 ~ 6804	Articles made of feathers or of down.
) ;	,6807 ~ 6815	artificial flowers, articles of human hair
40	6904	Ceramic building bricks, flooring blocks and the like
40	6905	Roofing tiles, chimney-pots and other constructional goods
40	6906	Ceramic pipes, conduits, guttering and pipe fitting
40	7019 200	Woven fabrics, including narrow fabrics
1 1	7020	Articles of glass; floats for use in fishery
40	7118	
		Coin
40	8210	Hand-operated mechanical appliances, of food or drink
40	8211 940	Knives with cutting blades
40	8212	Razors and razor blades
40	8213	Scissors, tailors' shears and similar shears, and blades
40	8214	Cutlery, manicure or pedicure sets and instruments
40	8301	Padlocks and locks of base metal
40	8302	Base metal mountings, fittings and similar articles
40	8303	Armoured or reinforced safes, boxes and doors, of base metal
	8304	Office or desk equipment, staples in strips, of base metal
40	8305 100	Bells, gongs and the like, of base metal
40	8308	Clore backles had a sector of Dase Betai
í I		Clasps, buckles, hooks, eyelets and the like, of base netal
40	8310	Sign-plate, name-plate, address-plates and the like
40	8311	Wire, rods, tubes, plates and electrodes, of base metal
40	8469	Typewriters and word-processing machines
40	8470	Calculating machines
40	8471	Automatic date processing machines and units thereof
4.0	8472	Other office machines
40	8473	Parts and accessories of office machines
40	8506	Primary cells and primary batteries
40	8510	
		Shavers and hair clippers, with electric motor
40	8513 900	Parts of portable electric lamps
4.0	8516	Electric heating apparatus and radiators
40	8517	Electrical apparatus for line telephony or line telegraphy
40	8526	Radar, radio navigational aid and remoto control apparatus
40	8529 109 909	Parts suitable for electric apparatus
40	8531	Electrical sound or visual signalling apparatus
40	8539	Blectric filament or discharge lamps
		neverse erreacte of disorder for 1986.

Table-7 Import Duty Rate by Type of Goods in Thailand 1985-7
(Order of the Higher Rate)

Γ		
Rate	N	
of	Heading No.	Goods
duty		
40	8543	Electrical machines and apparatus, with individual functions
40	8544	Insulated wire, cable and other electric condactors
40	8702 101 901	Public-transport type passenger motor vehicles
40	8704	Notor vehicles for the transport of goods
40	8705	Special purpose motor vehicles; crane lorries and the like
40	8712	Bicycles and other cycles, not motorised
4.0	8714	Parts and accessories of vehicles
4.0	8716	Trailers and semi-trailers
40	9005	Binoculars, monoculars, optical telescopes, and mountings
4.0	9006	Photographic (other than cinematographic) cameras
40	1	Cinematographic cameras and projectors
4.0	9008	Image projectors, other than cinematographic
40	9009	Photo-copying apparatus incorporating an optical system Apparatus and equipment for photographic laboratories
40	9010	Wrist-watches, pocket-watches and other watches
40	9101, 9102	Time of day recording apparatus
40	9108	Watch movements, complate and assembled
40	9110	Complete watch or clock movements
40	9114	Other clock or watch parts
40	9202 ~ 9209	Musical instruments
40	9302 ~ 9307	Arms and ammunition
	9405 300	Lighting sets of a kind uses for Christmas trees
40	9504	Articles for funfair, table or parlour games
40	9505	Festive, carnival or other entertainment articles
40	9507	Fishing rods, fish-hooks and other line fishing tackle
40	9508	Roundabouts, swings and other fairground amusements
40	9601	Worked ivory, bone, horn and other animal carving materials
4.0	9602	Worked vegetable or mineral carving material and articles
4.0	9603 902	Prepared knots and tufts for broom or brush making
40	9504	Hand sieves and hand riddles
40	9608	Ball pens, fountain pens, stylograph pens, and the like
40	9609	Pencil. Crayons, pastels, drawing charcoals, and the like
40	9610	Slates and boards, with writing or drawing surfaces
40	9611	Date, sealing or numbering stamps, and the like Ribbons of typewriter and similar ribbons
40	9615	Combs, hair-sliders and the like
40	9704	Postage or revenue stamps, stamp-postmarks, and the like
40	9705	Collections pieces of zoological, historical (etc), interest
3 5	0410 009	Edible products of animal origin
3 5	0501 ~ 0511	Products of animal origin
	1201 009	Soya beans, not edible
. 35	1202 109	Ground-nuts in shell, not edible
3 5	1202 209	Ground-nuts, shelled, not edible
3 5	1204	Linseed
3.5	1205	Rape or colza seeds
3.5	1206 009	Sunflower seeds, not edible
35	1207	Other oil seeds and oleaginous fruits
3 5 3 5	1401 ~ 1404 1519	Vegetable plaiting materials Industrial monocarboxylic fatty acids, alcohols or acid oils
35	1519	Glycerol waters and glycerol lyes
35	1901 901	Malt extract
35	2712	Petroleum jelly, paraffin waxes and other similar waxes
3 5	3301	Essential oils of citrus fruit
3.5	3501	Casein, caseinates and other casein derivatives
3.5	3502	Albumins, albuminates and other albumin derivatives
3 5	3504	Peptones and their derivative, hide powder
3 5	3505	Dextrins, other modified starches and glues
3.5	3801 300	Carbonaceous pastes for electrodes and furnace linings
3.5	3801 900	Preparations based on graphite or other carbon
3 5	3812 200	Compound plasticisers for rubber or plastic
3 5	3812 300	Anti-oxidising preparations for rubber or plastics
3.5	3815	Reaction initiators, accelerators and catalytic preparations
35	3816	Refractory cements, mortars and concretes
3.5	3817	Mixed alkylbenzenes and mixed alkylnaphthalenes
35	3818	Chemical elements and compounds doped for use in electronics
L	· — — —	h

Table-8 Import Duty Rate by Type of Goods in Thailand 1985-8 (Order of the Higher Rate)

r	γ	
Rate	·	
o f	Heading No.	Goods
duty		
3 5	3819	Hydraulic brake fluids for hydraulic transmission
3 5	3820	Anti-freezing preparations and prepared de-icing fluids
3 5	3822	Composite diagnostic or laboratory reagents
3.5	3823	Prepared binders for foundry moulds or cores
3 5	4011	New pneumatic tyres, of rubber
3 5	4012 102 109	Retreaded tyres of rubber
3 5	4012 202 209	Used pneumatic tyres of rubber
1	4012 909	Interchageable tyre treads and tyres flaps, of rubber
3 5	4013	Inner tubes, of rubber
3.5	4802 100	Hand-made paper and paperboard Paper and paperboard, as a base for photo, heat and other
35	4802 200 4802 300	Carbonising base paper
	4802 400	Wallpaper base
35	4803 009	Toilet or facial tissue stock, towel or napkin stock
35	4804, 4805	Uncoated kraft paper and paperboard, in rolls or sheets
3 5	4806	Glazed transparent or translusent papers, in rolls or sheets
3 5	4807	Composite paper and paperboard
3 5	4808	Corrugated paper and paperboard, sack kraft paper
3 5	4809	Carbon paper and other copying or transfer paper
3 5	4810	Paper and paperboard used for printing or graphic purposes
3 5	4811	Paper, collulose wadding and webs of collulose fibres
	5603	Nonwovens, whether or not impregnated, covered or laminated
35	5608	Knotted netting of twine, cordage or rope
3 5 3 5	5609 5901	Articles of yarm, strip, twine, cordage, rope or cables Textile fabrics coated with gum or amylaceous substances
35	5911	Textile products and articles, for technical uses
3 5	6806	Slag wool, rock wool and similar mineral wools
3 5	6901	Bricks, block, tiles and other ceramic goods
3.5	6902,6903	Refractory ceramic constructional goods
3 5	6909	Ceramic wares for laboratory, chemical and technical uses
3 5	7005 101 211 291	Opticle glass
3 5	7006 001	Opticle glass
3 5	7019	Glass fibres and articles thereof
3 5	7106	Silver including silver plated with gold or platinum
3 5 3 5	7107 7108	Base metal clad with silver Gold including gold plated with platinum
35	7109	Base wetals or silver, clad with gold
3 5	7110	Platinus
3 5	7111	Base metals, silver or gold, clad with platinum
3 5	7112	Waste and scrap of precious metal or of metal clad
3 5	7217 120 220	Wire of iron or non-alloy steel; plated or coated with zinc
3 5	7217 131 231	; plated or coated with tin
3 5	7217 320	Wire or iron or non-alloy steel; plated or coated with zinc
35	7217 331	; plated or coated with tin
3 5 3 5	7303 ~ 7307 7310	Tubes, pipes and hollow profiles, of iron or steel Tanks, casks, drums and similar containers, of iron or steel
1	7310	Stranded wire, ropes, cables and the like, of iron or steel
35	7313	Barbed wire of iron or steel
3 5	7314	Woven products and expanded metal of iron or steel
3 5	7315 110 120 190	Articulated link chain and parts, of iron or steel
3 5	7316	Anchors, graphels and parts thereof, of iron or steel
3 5	7317	Nails, tacks, staples and similar articles, of iron or steel
3 5	7318	Bolts, nuts, rivets and similar articles, of iron or steel
3 5	7320	Springs and leaves for springs, of iron or steel
3 5	7322	Radiators for central heating and parts, of iron or steel
3.5	7323 100	Household articles; iron or steel wool
3.5	7325	Cast articles of iron or steel
3.5	7326	Other articles of iron or steel
35	7413	Stranded vire, cables, plaited bands and the like, of copper Nails, tacks, staples and the like, of copper, iron or steel
3 5 3 5	7415	Copper springs
35	7419	Chain and parts thereof, other articles of copper
35	7508 009	Articles of nickle, of a kind not used for domestic purpose
35	7606	Aluminium plates, sheets and strip, of a thickness
3 5	7607	Aluminium foil of a thinckness
3 5	7610	Aluminium structures and parts of structures
L	1	

Table-9 Import Duty Rate by Type of Goods in Thailand 1985-9
(Order of the Higher Rate)

ę	Heading No.	Goods
5	7611	Aluminium reservoirs, tanks, vats and similar containers
5	7612	Aluminium casks, drums, cans, boxes and similar containers
5	7614	Stranded wire, plaited bands and the like of aluminium
5	7616	Nails, bolts, nuts. Washers and similar articles of aluminium
5	7806 009	Containers, normally used for containing goods, of lead
5	7907	Gutters, roof capping, skylight and the like, of zinc
5	8001 009	Containers, normally used for containing goods, of tin
5	8101	Tungsten; bars, rods, wire and the like
5	8102	Holybdenum: bars, rods, wire and the like
5	8103 300	Tantalum and articles thereof; except unwrought tantalum
5	8104 300	Magnesium; raspings, turnings and granules
5	8104 900	; except unwrought magnesium Cobalt and articles thereof; except unwrought cobalt
5	8105 900 8106 900	Bismuth and articles thereof; except unwrought bismuth
5	8107 900	Cadmium and articles thereof; except unwrought cadmium
5	8108 900	Titanium and articles thereof; except unwrought titanium
5	8109 900	Zieronium and articles thereof; except unwrought zieronium
5	8110 900	Antimony and articles thereof; except unwrought antimony
5	8111 900	Magnanese and articles thereof; except unwrought magnanese
5	8112 190	Beryllium and articles thereof; except unwrought beryllium
5	8112 209	Chronium and articles thereof; except unwrought chronium
5	8112 309	Germanium and articles thereof; except unwrought germanium
5	8112 409	Vanadium and articles thereof; except unwrought vanadium
- 1	8112 990	Other base metal and articles thereof; except unwrought
5	8113 009	Cornets and articles thereof; except unwrouight cornets
	8307	Flexible tubing of base metal, with or without fittings
5	8309	Stoppers, caps or lids for packing accessories of base netal
5	8419	Machinery, plant or laboratory equipment Centrifuges, includig centrifugal dryers
5	8421 8451 909	Parts of machines; wringing, dressing, finishing and other
5	8452	Sewing machines and parts thereof
	8501	Blectric motors and generators
5	8502	Electric generating sets and rotary converters
5	8503	Parts suitable for use solely or principally
	8504	Electrical transformers, static converters and inductors
5	8511	Electrical ignition or starting equipment
5	8512	Electrical lighting or signalling equipment
	8532	Electrical capacitors, fixed, variable or adjustable
5	8533	Blectrical resistors, other than heating resistors
5	8534	Printed circuits
5	8535,8536	Electrical apparatus for switching or protecting
	0 5 4 7	electrical circuits or of making connections
5	8537 8538	Boards, panels, desks and cabinets, of electric control Parts suitable for use solely or principally; 8535~8537
5	8539 100	Plectrical sealed beam lamp units
5	8539 901	Electrical parts of sealed beam lamp units
	8540	Thermionic, cold cathode or photo-cathode valves and tubes
5	8541	Diodes, transistors and similar semi-conductor devices
	8542	Electronic integrated circuits and microassemblies
	8545	Carbon electrodes and brushes, lamp and battery carbons
	8546	Electrical insulators of any material
5	8547	Insulating fittings for electrical machines or equipment
5	8548	Electrical parts and machinery or apparatus
5	8901 ~ 8907	Ships, boats and floating structures
5	9001, 9002	Optical elements, of any elements, unmounted
5	9003 900	Parts of frames and mountings for spectacles or goggles
5	9013	Liquid crystal devices and other optical instruments
5	9017	Instruments for measuring length
5	9024	Machines and appliances for testing hardness or strength Hydrometers and similar floating instruments or thermometers
5	9025	Hydrometers and similar floating instruments of thermometers Instruments and apparatus for measuring or checking
5	9026,9027	linstruments and apparatus for measuring of checking Gas, liquid or electricity supply or production meters
5	9028 9029	Counters, meters, indicators and tachometers of all kinds
5	9030	Oscilloscopes, spectrum analysers for measuring or checking
5	9031	Measuring or checking instruments, appliances and machines
5	9032	Automatic regulating or controlling instruments or apparatus
~ 1		free-authors and section is secretarists suppressible at bibliousing

Table-10 Import Duty Rate by Type of Goods in Thailand 1985-10 (Order of the Higher Rate)

Heading	No.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
0407		Birds' eggs, in shell, fresh, preserved or cooked
0408	•	Birds eggs and egg yolks by steaming or boiling in vat
904		Pepper of the genus Piper Yanilla Yanilla
000		Cinamon and cinamon-tree flowers
9 0 7		Cloves (whole fruit, cloves and stems)
0 8		Nutmeg, mace and cardamons
0 9		Seeds of anise, badian, fennel, cumin, caraway or junip
10	-	Ginger, saffron, turmeric, thyme, bay leaves and curry Cereal straw and hucks
14		Swedes, mangolds, fodder roots, hay, sainfoin and vetch
3 0 2		Vegetable saps and extracts
01 ~ 150		Animal or vegetable fats, oils and their cleavage produ
$12 \sim 1518$		Animal or vegetable fats, oils and their cleavage produ
$21 \sim 1527$	3 . · · · ·	Animal or vegetable fats, oils and their cleavage produ
2 101 2 301	•	Confectionery; chemically pure lactose and luctose syru; chemically pure glucose and gulcose syru
2 500		chemically pure fructose
02 901	-	; chemically pure maltose and malotse syru
1 ~ 180	.	Cocoa and Cocoa preparations
2 3	*	Portland cement, aluminous cement, slug cement and so o
5		Coal gas, water gas, producer gas and similar gases
7	-	Oils and other products of the distillation of coal tar
10 009		Petroleum oils and oils obtained from bituminous minera
$\begin{array}{cccc} 1 & \sim & 2851 \\ 1 & \sim & 2943 \end{array}$		Inorganic chemicals; of rare-earth metals, precious met Organic chemicals
$03 \sim 300$		Wedicaments
5	-	Wadding, gauze, bantages and similar articles
6		Blood-grouping reagents and other pharmaceutial goods
2 ~ 310	5	Pertilisers
		Synthetic organic colouring matter
		Inorganic colouring matter of a kind used as luminophor
7	,	Prepared pigments, opacifiers and vitrifiable enamels
8 ~ 3210 1		Paints and varnishes including enamels and lacquers. Prepared driers
		Pigments; stamping foils, dyes and other colouring matt
		Artists', students or signboard painters colours
		Glaziers' putty, grafting putty, resin cements and mast
1	•	Enzymes prepared enzymes not elsewhere specified or inc
01 100		Photographic plates and film in the flat for X-ray
2 100		Photographic film in rolls for X-ray
6 7		Cinematograph film, exposed and developed Chemical preparations for photographic uses
1 100		Artificial graphite
1 200		Colloidal or semi-colloidal graphite
2		Activated carbon; animal black, including spent animal
3	-	Tall oil, whether or not refined
4 .		Residual lyes from the manufacture of wood pulp
) 5) 7		Gum, wood or sulphate turpentine and other terpenic oil wood tar, tar oils, creosote, maphtha and vegetable pit
3		Sulphurtreated bands, wicks and candles, and fly-papers
09		Dressings and mordants
10		Pickling preparations for metal surfaces
11		Anti-knock preparations, oxidation and gum inhibitors
12 100	4	Prepared rubber accelerators
14		Organic composite solvents and thinners Prepared culture media for development of micro-organis
102 110 19	201 311	Synthetic rubber and factice derived from oils.
) 491 510	
	701 910	ru hrtugtå 1.
991		
0 3		Reclaimed rubber in primary forms or in plates
04.		Waste, parings and scrap of rubber, powders and granule
01		Raw hides and skins of bovine or equine animals Raw skins of sheep or lambs
02 03		ther raw hides and skins

Table-11 Import Duty Rate by Type of Goods in Thailand 1985-11 (Order of the Higher Rate)

Rate	Heading No.	Goods
	4204	Articles of leather or of composition leather, and so on
3 O 3 O	14206	Articles of gut, of goldbeater's skin, and so on
3 0	4301	Raw furskins, other than raw hides and skins
30	4501 ~ 4504	Cork and articles of cork
30	4601 100	Plaits and similar products of plaiting materials
30 30	4801 4802 510 520 530 600	Newsprints, in rolls or sheets Paper and paperboard
30	5006 001	Silk warn and yarn spun from silk waste; silk-worm gut
30	5101	Wool, carded or combed
3 0	5102	Fine or coarse animal hair, not carded or combed
30	5103	Waste of Wool or of Fine or coarse animal hair
30 30	5104 5105	Garnetted stock of wool or of fine or coarse animal hair wool and fine or coarse animal hair, carded or combed
30	5204	Cotton sewing thread, whether or not put up for retail sale
30	5205	Cotton yarn, containing 85% or more by weight of cotton
30	5,20,6	Cotton yarn, containing less than 85% by weight of cotton
30	5207	Cotton yarn put up for retail sale
30 30	5301 ~ 5308 5401	Paper yarn and woven fabrics of paper yarn Sewing thread of man-made filaments
30	5402	Synthetic filament yarn other than sewing thread
30	5403	Artificial filament yarn other than seving thread
30	5404,5405	Synthetic monofilament; attificial straw
30	5406	Man-made filament yarn other than sewing thread
30	5501 5502	Synthetic filament tow
30 30	5503.5506	Artificial filament tow Synthetic staple fibres
30	5504.5507	Artificial staple fibres
30	5505	Waste of man-made fibres
30	5601 211	Wadding of textile materials and articles of cotton
30	5601 221	Wadding of textile materials and articles of man-made fibres
30 30	5601 291 5601 300	Other wadding of textile materials and articles Wadding of textile flock and dust and mill neps
30.	5908	Textile wicks, woven, plaited or knitting for lumps, etc
30	5910	Transmission or conveyor belts, of textile materials
30	6305	Snacks and bags, of a kind used for the packing of goods
30	6406 991	Parts of footvear; galters, legging and similar articles
30 30	6501	Hat-forms, hat boodies and hoods of felt Hat-shapes, made by assembling strips of any material
30	6507	Head-bands, linings, hat frames and chinstraps for headgear
30	7002	Glass in balls, rods or tubes, unworked
30	3010 303	Bottles, jars and pots of glass
30	7011	Glass envelopes, open, and glass parts thereof
30 30	7015 900 7301	Watch glasses and similar glasses Sheet piling of iron or steel
30	7302	Railway or transay track construction of iron or steel
30	7308	Structures and parts of structures, of iron or steel
30	7319 100	Sering, darning or embroidery needles
30 30	7319 900 7604	Needles or pins for use in the hand, of iron or steel Aluminium bars, rods and profiles
30	7605	Aluminium vire
30	8401 ~ 8468	Nuclear reactors, boilers, machinery
	8474 ~ 8485	and mechanical appliances; parts thereof
30	8505	Electro-magnets
30	8508	Electro-mechanical tools for wolking in the hand
30 30	8514 8515	Industrial or laboratory electric furnaces and ovens Electric machines and apparatus for hot spraying of metals
30	8530	Blectric signalling, safety or traffic control equipment
30	8608 001	Electro-mechanical traffic control equipment
30	8701	Tractors
30	8703 221	Motor car and motor vehicles(spark-ignition); 1000cc-1500cc
30	8703 231	; 1500cc-3000cc
30 30	8703 241 8703 311	; exceeding 3000cc (compression-ignition): not exceeding 1500cc
30	8703 321	: 1500cc-2500cc
30	8703 331	; exceeding 2500cc
30	8713	Invalid carriages

Table-12 Import Duty Rate by Type of Goods in Thailand 1985-12 (Order of the Higher Rate)

Rate		
of	Reading No.	Goods
duty		
	<u> </u>	
30	8715	Baby carriages and parts thereof
	1	
30	9018	Instruments used in medical, dental or veterinary sciences
30	9019	Mechano-therapy appliances
30	9020	Breathing appliances and gas masks
30	9021	
	1 .	Orthopaedic appliances
3 0	9022	Apparatus based on the use of X-rays, α , β , γ radiations
30	9023	Instruments and models designed for demonstrational purposes
30	9603 901	Hand-operated mechanical floor speepers, not motorised
30	9608 910	Parts of pen; pennibs and nib points
"	3000 310	Tatte of point point is and all points
25	0402 100 219 290	Sweeting matter in powder, granules or other solid forms
2.5	0404 109 909	Whey in not liquid, including concentrated forms
2.5	0405 001	Butter and other fats and oils derived from milk
2.5	2701	Mineral fuels and oils; coal
	1	
2.5	2702	: lignite
25	2703	peat
25	2704	; coke and semi-coke
2.5	2708	; pitch and pitch coke
25	2709	; petroleum oils
2.5	2710 005	Benzine, kerosene, diesel, heavy fuel and other oils
25	3001	Glands and other organs for organo-therapeutic uses
2.5	3002	Human or animal blood, antisera and other blood fractions
25	4404	Hoopwood, split poles, piles, pickets and stakes of wood
2.5	6310	Used or new rags, scrap twine, cordage, rope and cables
25	6805	Natural or artificial abrasive powder or grain
2.5	7001	Cullet and other waste and scrap of glass; glass in the mass
2.5	7019 901	Glass fibres including glass wool
	7101	
2.5		Natural or cultured pearls
2.5	7204 500	Remelting scrap ingots of iron or steel
2.5	7206	iron and non-alloy steel in ingots or other primary forms
2.5	7207	Semi-finished products of iron or non-alloy steel
2.5	7213 ~ 7215	Bars and rods, hot-rolled of iron or non-alloy steel
	•	
25	7217 110 210 310	Wire of iron or non-alloy steel; not plated or coated
1	139 239 339	
	190 290 390	
25	7218	Stainless steel in ingots or other primary forms
25	7222	Bars and rods of stainless steel
1		1
2 5	7223	Wire of stainless steel
25	7224	Alloy steel in ingots or other primary forms
25	7227, 7228	Bars and rods, hot-rolled, in irregularly wound coils
2.5	7229	Wire of alloy steel
2.5	7406	Copper powders and flakes
	7410 210	
2.5	1	Copper foil backed with paper, of refined copper
2.5	7410 220	Copper foil backed with paper, of copper alloys
2.5	7504	Nickel powders and flakes
2.5	7506 101	Foil, of nickel not alloyed, with backing material
2.5	7506 201	Foil, of nickel alloys, with backing material
	7603	Aluminium powders and flakes
25	7804 111	Lead foll with backing material
25	7804 200	Lead powders and flakes
2.5	7903	Zinc dust, powders and flakes
25	7905 001	Zinc foil with backing material
1 1	,	
2.5	8005	Tin foil with-backing material
25	8202 ~ 8208	Hand-tools; of base metal
25	8209	Plates, sticks, tips and the like for tools
2.5	8709	Works trucks, tractors and parts of foregoing vehicles
	<u> </u>	warm or sand, standard and beren of foregoing touristes
20	3806	Gum, wood or sulphate turpentine and other terpenic oils
20	4011 991	New pneumatic tyres, of rubber
20	4012 101 201	Retreaded or used pneumatic tyres of rubber
20	4012 901	; solid or cushion tyres
1 1	1	
20	4104 109 221 229 299	Leather of bovine or equine animals, without hair on
20	4105 110 129 199	Sheep or lamb skin leather, without wool on
20	4105 110 129 199	Goat or kid skin leather, witrhout hair on
20	4107 109 210 299 909	Leather of other animals, without hair on
20	4110	Parings and other waste of leather or of composition leather
40	4110	resease and other waste or reather or of composition leather
	·	

Table-13 Import Duty Rate by Type of Goods in Thailand 1985-13 (Order of the Higher Rate)

<u></u>		,
Rate of duty	Heading No.	Goods
2 0 2 0 2 0	4111 4406 4407 109 219 229 239 919 929 999	Composition leather with a basis of leather or its fibre Railway and tramway sleepers of (cross-ties) wood Wood sawn or chipped lenghtwise, of thickness
2 0 2 0	7010 100 7015 100	Ampoules of glass Glasses for corrective spectacles
20	7017 7102 7103	Laboratory, hygienic or pharmaceutical glassware Diamonds, not mounted or set Precious or semi-precious stones other than diamonds
20	7104 7105	Synthetic or reconstructed precious or semi-precious stones Dust and powder of natural or synthetic precious stones Unwrought zinc
20	7901 7902 7904 009	Zinc waste and scrap Zinc Bars, rods and wire
	7905 009 7906 8201	Zinc plates, sheets and strip Zinc tubes, pipes and tube or pipe fitting Hand tools; spades, shovels, mattocks, forks and so on
20	9402	Revolvers and pistols Flat-rolled products of iron or non-alloy steel
1	7210,7212 7309 7311	Reservoirs, tanks and similiar containers of iron or steel Containers for compressed or liquefied gas, of iron or steel
17 17 17	7407 7408 7409	Copper bars, rods and profiles Copper wire Copper plates, sheets and strip
17	7410 110 7410 120 7411	Copper foil not backed of refined copper Copper foil backed of copper alloys Copper tubes and pipes
17	7412 7414	Copper tube or pipe fittings Cloth, grills and netting, of copper wire
17 17	7505 7505 109 7506 209	Nickel bars, rods, profiles and wire Nickel plates, sheets and strip, of nickel, not alloyed Nickel plates, sheets and strip, of nickel, alloys
. 17	7507 7608 7609	Nickel tubes, pipes and tube or pipe fittings Aluminium tubes and pipes Aluminium tube or pipe fittings
17	7612 101 7613 7616 901	Aluminium tubes for containing tooth-paste or the like Aluminium containers for compressed or liquefied gas Articles of aluminium; expanded metal
17 17	7803 7804 119	Lead bars, rods, profiles and wire Lead plates, sheets and strip with backing material
17	7804 190 7805 8003	Lead plates, sheets and strip, not of a thickness Lead tubes, pipes and tube or pipe fittings Tin bars, rods, profiles and wire
	8004 8005 109 8006	Tin plates, sheets and strip of a thickness Tin foll of a thickness not with-backing material Tin tubes, pipes and tube or pipe fittings
1 5 1 5	1301 2501 ~ 2522	Lac; natural gums, resins, gum-resins and balsams Salts; sulphur; earths and stone;
15 15	2524 ~ 2530 2714	plastering materials, lime and cement Bitumen and asphalt, oil shale and tar sands and so on
15 15 15	2715 3201 3202	Bituminous mixtures based on natural asphalt Tanning extracts of vegetable origin Synthetic organic and inorganic tanning, and of preparation
15 15 15	3203 3205 4405	Colouring matter of vegetable or animal origin Colour lakes; food colours, dyes for textiles and other Wood wool; wood flour
15 15	4413 4803 001	Densified wood, in blocks, plates, strips or profile shapes Cellulose wadding not further worked than being coloured Filter blocks, slabs and plates, of paper pulp
15 15	4812 4823 902 3106 921	Callulose wadding and webs of callulose fibres Practions metals; silver
15 15 15	9011 9012 9014	Compound optical microscopes Microscopes other than optical microscopes Direction finding compasses
10	20 X 4	Direction similar compasses

Table 14 Import Duty Rate by Type of Goods in Thailand 1985-14 (Order of the Higher Rate)

Rate of duty	Heading No.	Goods
15 15	9015	Meteological or geophysical instruments and appliances Balances of sensitivity of 5 cg or better
1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	7 2 0 8 7 2 1 9 7 2 2 5 7 3 1 5 7 4 0 5 7 5 0 1 7 5 0 2 7 5 0 3 7 8 0 1 7 8 0 2 8 0 0 1 8 0 0 2 8 1 0 1 1 0 0 8 1 0 1 2 1 0 0 8 1 0 2 3 1 0 0 8 1 0 2 3 1 0 0 8 1 0 3 3 1 0 0 8 1 0 4 3 1 0 0 8 1 0 5 3 1 0 0 8 1 0 7 3 1 0 0 8 1 0 7 3 1 0 0 8 1 0 7 3 1 0 0 8 1 1 1 3 1 1 0 0 8 1 1 1 8 1 1 2 8 1 1	Flat-roiled products of iron or non-alloy steel Flat-rolled products of stainless steel Plat-rolled products of silicon-electrical, high speed steel Chain and parts thereof, of iron or steel Master alloys of copper Nickel mattes, nickel oxide sinters, intermediate products Unwrough nickel Nickel waste and scrap Unwrough tead Lead waste and scrap Unwrough tin Tin waste and scrap Tungsten (wolfram) and articles thereof; powders ; other unwrought tungsten Molybdenum and articles thereof; unwrought molybdenum Tantalum and articles thereof; unwrought magnesium Cobalt mattes and other intermediate products Bismuth and articles thereof; unwrought magnesium Cobalt mattes and other intermediate products Bismuth and articles thereof; unwrought titanium Titanium and articles thereof; unwrought titanium Zirconium and articles thereof; unwrought zirconium Antimony and articles thereof; unwrought magnanese Unwrought beryllium; waste and scrap; powders Unwrought chromium; waste and scrap; powders Unwrought germanium; waste and scrap; powders Unwrought yanasium; waste and scrap; powders
12	8112 910 8113 001	Other unwrought metals; waste and scrap; powders Unwrought cermets; waste and scrap; powders
10 10 10 10 10 10 10	0402 211 1901 101 1901 902 2301 ~ 2309 2601 ~ 2621 2713 4203 210 4401 4402 4403 4701 ~ 4707 5001 5002 5003 5004 5005 5006 009 5909 9005 100 9005 901	Milk and cream, not containing added sugar Preparations for infant use; milkfood Infant milkfood Residues and waste from the food industries Ores, slag and ash Petroleum coke, petroleum bitumen and other residues Articles of apparel and clothing accessories for sports Fuel wood and wood in chips or particles Wood charcoal, whether or not agglomerated Wood in the rough Pulp of wood or of other fibrous cellulosic material Silk-worm cocoons suitable for reeling Raw silk (not thrown) Silk waste Silk yarn (other than yarn spun from silk waste) Yarn spun from silk waste Textile hosepiping and similar textile tubing Binoculars Parts and accessories of astronomical instrument Articles and equipment for gymnastic, athletics; all sports
6 6 8	7201 7202 7203 7204 7205 7401 7402 7403	Pig iron and spiegeleisen in pigs, blocks or primary forms Ferro-alloys Ferrous products obtained by direct reduction of iron ore Ferrous waste and scrap Granules and powders of iron or steel Copper mattes and cement copper Unrefined copper; copper anodes for electrolytic refining Refined copper and copper alloys, unwrought Copper waste and scrap

Table-15 Import Duty Rate by Type of Goods in Thailand 1985-15 (Order of the Higher Rate)

Rate of duty	Heading No.	Goods
6 6	7601 7602	Unwrought aluminium Alminium waste and scrap
\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0101 1211 901 1404 200 2520 201 3215 3407 001 4902 4903 4904 4905 4906 5201 5202 5203 7904 001 8525 8529 101 901 8602 8603 8604 8605 8606 8607 8608 009	Live horses, asses, mules and hinnies Plants and parts of plants; pyrethrum Vegetable products; cotton linters Plasters, used in dentistry Printing ink, writing or drawing ink and other ink Preparations for use in dentistry, with a basis of plaster Newspapers, journals and periodicals Children's picture, drawing or colouring books Music, printed or in manuscript Maps and hydrographic or similar charts of all kinds Plants and drawing for architectural, engineering purposes Cotton, not carded or combed Cotton, carded or combed Cotton, carded or combed Zinc bars, profiles and wire; telegraph or telephone wire Transmission apparatus for radio or television Parts suitable for use with transmission or other apparatus Rail locomotives powered from a source of electricity Rail locomotive tenders Self-propelled railway or tramway coaches, vans and trucks Railway or tramway maintenance or service vehicles Railway or tramway passenger coaches, not self-propelled Railway or tramway goods vans and wagons, not self-propelled Parts of railway or tramway locomotives or rolling-stock Railway or tramway track fixtures and fittings
5 5 5 5	8609 8801 ~ 8805 8908 9507 200	Containers specially designed and equipped for carriage Aircraft, spacecraft, and parts thereof Vessels and other floating structures for breaking up Fish-hooks, whether or not smelled

2. Degree of Labor Intensiveness by Types of Manufacturing Industry in Japan 1985

Table-16 Dogree of Labor Intensiveness by Types of Manufacturing Industry in Japan 1985 (Order of the Higher Degree)-1

1 15 Apparei and other 2 24 -Leather tanning a 3 14 Textile and its p 4 17 Furniture and fix 5 32 Precision instrum 5 34 Miscellancous man 7 16 Lumber and wood p 30 Ordnancous 10 12 Food products 11 12 Publishing, print 12 23 Rubber products 11 2 8 Fabricated machinery 12 28 Fabricated metal	Apparei and other finished products cather tanning and its products foxtile and its products Furniture and fixtures Precision instruments and machinery Miscellancous manufacturing industries Cumber and wood products Electrical machinery equipment and supplies Ordnance	6				
2	tanning and its products and its products e and fixtures n instruments and machinery neous manufacturing industries ad wood products al machinery equipment and supplies	2		6.5 6.5	Ordnance	57.2
3 14 Textile a 4 17 Furniture 5 32 Precision 6 34 Miscellan 7 16 Lusber an 8 30 Ordnance 9 33 Ordnance 10 12 Food aprox 11 15 Publishr 12 23 Rubber pi 14 28 Fabricate 14 28 Fabricate	and its products e and fixtures n instruments and machinery neous manufacturing industries nd wood products al machinery equipment and supplies dusts	244	7	2	Apparel and other finished products	53.2
4 17 Furniture 5 32 Precision 6 34 Miscellan 7 16 Luber an 8 30 Ordnance 9 33 Ordnance 10 12 Food proc 11 19 Publishir 12 23 Rubber hi 14 28 Fabricate	e and fixtures n instruments and machinery neous manufacturing industries nd wood products al machinery equipment and supplies	121	643	72	Leather tanning and products and fur skin	5.5
5 32 Precision 7 16 Lubber an 8 30 Electrica 9 33 Ordnance 10 12 Food proc 11 19 Publishir 12 23 Rubber hi 13 29 General a	n instruments and machinery neous manufacturing industries nd wood products al machinery equipment and supplies dusts	143	***	~	Textile nile products	48,5
*700 C F F K C F	neous manufacturing industries nd wood products ai machinery equipment and supplies dusts	88	42	9	Lumber and wood products except furniture	46.3
700 F F K C F	nd wood products al machinery equipment and supplies duets	128	ψ.	53	Rubber products	43.8
	al machinery equipment and supplies	77.		32	Precision instruments and machinery	43, 7
OFFERDE	v and	114	∞	1.1	Furniture and flatures	41.1
	due 1 s	107	67	53	General machinery	41.1
		105	10	5	Publishing printong and allies industries	0.17
12 23 Rubbor pr 13 29 General #	ng, printing and allies industries	102	11	82	Fabricated netal products	40.9
13 29 General # 14 28 Fabricate	roducts	101	12	2.1	Non-ferrous metals and products	40.1
14 28 Fabricate	machinery	50	13	 ∴	Transportation equipment	39.3
	ed metal products	26	ž	2	Pulp paper and paper products	37. 1
IS 22 Plastic p	lastic products	83	15	22	Plastic products not elsewhere classified	36.8
15 31 Transport	ransportation equipment	-25	16	25	Geramic stone and clay products	35.6
17 25 Ceramic.	stone and clay products	60	13	30	Electrical machinery equipment and supplies	35.5
18 18 Pulp, pay	Pulp, paper and paper products	7.7	13	2	Miscellaneous manufacturing industries	35.3
19 27 Non-ferro	ous metals and products	4,1	13	56	Iron and steel	34.2
20 20 Chemicals	s and allied products	55	20	12	Food manufacturing	34.0
21 13 Severage.	deverage, feed and tabacco products	31	51	20	Chemical and allied products	21.9
22 25 Iron and steel	steel	72	22	2	Beverage feed and tabacco	21.1
23 21 Petroleus	Petroleum and coal products	æ	23	21	Petroleum and coal products	16.3

Source:Report of the 1985 Japan Industrial Survey (Establishment more than 30 persons) Remark: I Baht == 5 Yen

Degree of Labor Intensiveness by Types of Manufacturing Industry in Japan 1985 (Order of the Higher Degree)-2 Table-17

	 	Number of persons engaged per book value of fixed assets (Persons / 100 Mill Baht)				Amount paid ratio to value added (98)	
		TOTAL	14			1011	38.0
	1 15	White shirts a	848	>	153	Hats	83.1
	2 151	Outer garment except japanese sly	295	2	141	Silk reeling plants	E-12
	200	Miscellancous	27.7		136	Manufactured ice	2
_	243	Boot and shoe	=======================================	~	213	Coke	65.8
	5 245	Leather glove	362	**>	243	Boot and shoe cut stock and findings	53, 4
	24.3	Handbags and	335	9	152	White shirts and underwear	60.3
	_	Fur apparel a	328		214	Briquettes and briquette balls	58. 7
_			312	•	195	Book-binding and printed matters	53.3
	6	5 Knitting mills	293	en.	345	Costune jewellery, etc.	56.9
			288	2	121	Outer garment except japanese style	56.9
			237	==	194	Plate making for printing	56.2
		Leather footwear	248	12	163	Mooden containers	55, 8
<u></u>	13 346	5 Lacquer ware	22\$		312	Railroad equipment and parts	55.8
<u></u>			922	7	215	Paving materials	\$. \$
	_	1 Wooden containers	222	22	232	Rubber and plastic footwear	54.5
<u>~</u>		Furniture for religious purposes	220	9	279	Miscellaneous non-ferrous metal products	53.8
	7 322	Surveying instruments	191	-	265	Steel forgings and casting	53.5
=	_		185	80	155	Miscellaneous textile; apparel, etc.	52.8
=	9 158	Miscellaneous fabricated textile products	180	6.	147	Ropes and nettings	52.7
20			179	20	241	Leather tanning and finishing	52.7
		Canned and pr	1 70	7.7	7 4 7	Spinning mills	\$2.3
	-		170	22	146	Dyed and finished textiles	51.6
- 53			166	23	112	Leather footwear	51.4
72	—	Seafood proce	165	2.4	145	Knitting milis	50.8
~	-		163	25	254	Pottery and related products	50.7
~		Electrical ge	163	56	325	Optical Instruments and lenses	50.1
			162	57	314	Ship building and repair and marine engines	69.8
~			159	82	273	Non-ferrous metals rolling wills	49.2
52		Measuring ins	55	53	286	Porder metallurgy, plating and heat treating	49. }
~	_		156	8	289	Miscellaneous fabricated metal products	6.83
31		Railroad equipment and parts	150	31	29.5	Textile nachinery	6.83
÷			149	32	346	Lacquer ware	6.1.3
	—		149	65	173	Sliding doors and screens	4.7.4
*	_	I Toys and sporting goods	146	7	301	Electrical generators, etc.	17.0
~; ~	_	Ropes and net	144	35	233	industrial rubber products	9
98	9	Furniture	14.4	36	285	Stamped and pressed products	46.9
<u></u>	_	Splaning mill	143	37	247	Handbags and small leather goods	8.8
60	_	Leather tanni	139	338	€ 60 10	ing	46.4
	9 129	Miscellancous	137	33	7.5	Plastic plates, bars, pipes, tubes, etc.	46.3
¥ —	0 254	Pottery and r	137	9	255		46.1
	-						

Source: Report of the 1985 Japan Industrial Survey (Establishment more than 30 persons)
Remark: 1 Baht = 5 Yen

Dogree of Labor Intensiveness by Types of Manufacturing Industry in Japan 1985 (Order of the Higher Degree)-3 Table-18

		Number of persons engaged per book value of fixed assets (Persons / 100 MHH Baht)	:			Amount paid ratio to value added (96)	
7	295	Textile machinery	137	1 }	135	Tobacco manufactures	46.0
~	_		137	2 }	204	Chemical (Ibres	45.1
33	—		136	€	161	Sawing planing miles and wood products	45.6
₹			333	*	297	General Industry machinery and equipment	15.1
\$	_		133	45	562	Miscellancous machinery and machine parts	44.7
46		Aircraft and parts	133	9	14.8	Lace and other textile goods	44.8
=	292		124	-	162	Plywood and prefarb-wood products	14.0
⇔.	_	· Bakery and confectionery products	123	₩	257	Abrasive products	0))
43		Watches; clocks	1.23	4.9	239	Miscellaneous rubber products	43.8
\$0		Woven fabric mil	122	20	296	Special industry machinery	3.8
כעו		Industrial rubber products	120	21	3 (8	Other Manufacturing 1	(3.7
25			119	25	326	Ophthalmic goods including frames	3.5
Š			119	53	267	Iron castings	3.5
S	192	Publishing Indus	119	25	144	Noven fabric mills	13. 6
55		Electronic equip	51.7	\$5	303	Electric bulbs and lighting fixtures	(3.3
S			118	98	189	Other paper and paper worked products	13.2
S		Precious netal p	117	5.1	258	Aggregate and stone products	43.1
ŝ		÷	115	85	172	Furniture for religious purposes	12.9
S.		Briquettes and b	115	55	293	Construction and mining machines	42.9
9			114	09	123	Canned and preserved fruit and vegetable	12, 7
9			114	9	263	Steel with rolling facilities	(2.6
۰ م	—	Miscellancous rubber products	- 13	29	288	Bolts nuts rivets screws and wood screws	42.6
	282	lableware, cut		5	121	Furniture	42.3
-		Household electi	=======================================	<u>.</u>	315	Aircraft and parts	(2,0
		Lace and other	111	65	327	Watches, clocks and parts	42.0
		-	17	99	321	Measuring instruments . etc.	1.8
0			0 !	6	2		-:
0 0	7 0	Virolitation connertes	101	æ (282		
, 2			0 0	2 6	207	Olfucius chay products	7
7.1	-	Printing except	103	: =	307	Figure And Annual Control of the Con	
12	233	Miscellaneous fa	103	12	129	Miscellaneous food and related products	0
		Special industry	102	73	181	0.33	0.5
7	53	General	102	7.4	3 3	Miscellaneous transportation equipment	0.6
		Medical	102	7.5	1.(3	Twisting and bulky yarns	10.3
2	_		102	16	272	Secondary non-ferrous metals smelting	10 0
7		Miscellancous te	101	11	787	Fabricated metal prodycts	39
~ :	77	rosmed and reinfo	101	20	323	Medical Instruments and apparatus	3.5
· ·	267	Material goods and the state of the second seconds	001	6.0	7	Non-ferrous foundries	39.2
			2	00	000	Tarious electionic parts	1 . 6 .

Source:Report of the 1985 Japan industrial Survey (Establishment more than 30 persons). Remark: I Baht = 5 Yen

Table-19

Degree of Labor Intensiveness by Types of Manufacturing Industry in Japan 1985 (Order of the Higher Degree)-4

1127 Pivrode and profatb-wood products 15 15 15 15 15 15 15 1	_		Number of persons engaged per book value of fixed assets (Persons / 100 Mill Baht)				Amount paid ratio to value added (96)	
10. IVerstock poducis 10. Marbor producis 10. Solid content and state base 10. IVerstock producis 10. Paper producis 10. Microllaneous plantic producis 10. Solid content and state base 10. Solid content and state base 10. Solid content and state base 10. Solid content and state broadcase 10. Solid content bland sheet products 10. Solid content and state broadcase 10. Solid content bland sheet products 10. Solid content bland sheet products 10. Solid content bland sheet products 10. Solid content and state broadcase 10. Solid content bland sheet products 10. Solid content and state broadcase 10. Solid content bland sheet products 10. Solid content and state broadcase 10. Solid content and state broadcase 10.	1 -	162	Plywood and prefarb-wood products	9.7	18	309	Other electrical machinery	39.1
121. Divestock products 13 Paper products 13 Micellanous plastic products 13 Micellanous plastic products 13 Micellanous plastic products 13 Stanped and pressed products 14 Paper products 15 Stanped and pressed products 16 Stanped and pressed products 16 Stanped and pressed products 17 Stanped and pressed products 18 Stanped and plastic matchials 18 Stanped matchials 18 Stanpe	N	308	Various electronic parts	9.5	82	163	Coated and glazed paper	38.5
128 Hicelinnous plastic products	ຕີ	121.	Live-stock products	93	83		Various ceramic stone and clay products	38.7
123 Wiscellanous plastic products 125 Bolts nuts fivets screes and took screes 126 Bolts nuts fivets screes and took screes 127 Computer quippent and accessoris 128 Solts nuts fivets screes and took screes 128 Standed and pressed products 128 Miscellanous anathmery and machine parts 129 Miscellanous anathmery and machine parts 129 Miscellanous anathmery and anathmery screen screen and screen	_	184	Paper products	93	8		Newspaper industry	38. 6
235 Computer quipment and accessoris 5 2 3 10 Inters engines and turbines 2 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ຶ	229	Miscellancous plastic products	9.5	85	344	Pens, pencils and stationery	38.6
235 Supple and pressed products 237 Subject sections and furbles and secsories 238 Subject section and accessories 238 Subject sections and pressed products 238 Subject sections and products 238 Subject sections and products 238 Subject sections and products 238 Subject sections	200	288		35	85 25	762	Metal working machinery	38.3
225 Tablicated Virte products 226 Tablicated and pressed products 227 Tablicated with products 228 Tablicated metal products 228 Tablicated metal products 228 Tablicated metal products 229 Wiscellancous machinery and machine parts 229 Tablicated metal products 230 Miscellancous metal products 231 Tablicated metal products 232 Tablicated metal products 233 Tablicated metal products 234 Tablicated metal products 235 Tablicated metal products 236 Tablicated metal products 237 Tablicated metal products 238 Mascellancous triple milit products 238 Mascellancous triple milit products 239 Tablicated metal metal marine cngine 230 Tablicated metal metal marine cngine 231 Tablicated metal metal marine cngine 232 Tablicated metal metal marine cngine 233 Tablicated metal metal marine cngine 234 Tablicated metal metal marine cngine 235 Construction and tablicated metal me	<u> </u>	302	Computer equipment and accessoris	5 8	82	291	Boilers engines and turbines	38.1
235 Staped and presed products 256 Fabricated actal products 257 Miscellancous machinery and machine parts 258 Fabricated actal products 258 Fabricated actal products 258 Fabricated actal products 258 Fabricated actal products 259 Fabricated actal products 250 Fabricated actal products 250 Fabricated actal products 251 Fabricated actal products 252 Fabricated actal products 253 Fabricated actal products 254 Fabricated actal products 255 Fabricated actal products 256 Fabricated actal products 257 Fabricated actal products 258 Fabricated actal products 258 Fabricated actal products 259 Fabricated actal products 250 Fabricated actal products 251 Fabricated actal products 252 Fabricated actal products 253 Fabricated actal products 254 Fabricated actal products 255 Fabricated actal products 256 Fabricated actal products 257 Fabricated actal products 258 Fabricated actal products 258 Fabricated actal products 259 Fabricated actal products 250 Fabricated actal products 251 Fabricated actal products 252 Fabricated actal products 253 Fabricated actal products 254 Fabricated actal products 255 Fabricated actal products 256 Fabricated actal products 257 Fabricated actal products 258 Fabricated actal products 259 Fabricated actal products 250 Fabricated actal products 251 Fabricated actal products 252 Fabricated actal products 253 Fabricated actal products 254 Fabricated actal products 255 Fabricated actal products 256 Fabricated actal products 257 Fabricated actal products 258 Fabricated actal products 259 Fabricated actal products 250 Fabricated actal products 250 Fabricated actal products 251 Fabricated actal products 252 Fabricated actal products 253 Fabricated actal products 254 Fabricated actal products 255 Fabricated actal products 256 Fabricated actal products 257 Fabricated actal products 258 Fabricated actal products 259 Fabricated actal products 250 Fabricated actal products 251 Fabricated actal products 252 Fabricated actal products 253 Fabricated actal products 254 Fabricated actal products 255 Fabricated acta	20	287	Fabricated wire products	8.1	≈	264	Steel materials and rolling mills	38.0
Nater becllaneous matchinery and matchine parits 86 90 127 Bakery and confectionery products 81 150 Educated metal products 82 121 Motor vehicle parts and accessories 82 120 Educated metal products 82 120 Educated metal matchinery 82 120 Educated metal matchinery 82 120 Educated metal matchinery 82 Educated metal matchinery 82 Educated metal matchinery endicts parts and expensive products 82 Educated for matchinery endicts parts and expensive products 82 Educated for matchinery endicts parts and accessories 75 Educated for matchinery 82 Educated for matchinery 83 Educated for matchinery 84 Educated for matchinery 85 Educated for matchinery 85 Educated for matchinery 86 Educated 86 Educat	•	285	Stamped and pressed products	88	80	313	Bicycles and parts	37.9
111 Merspace Industry 126 Tebricated metal products 127 Tebricated metal products 128 Tebricated metal products 128 Aggregate and stone products 129 Boilers engines and turbinos 130 Aggregate and stone products 131 Abrasive products 132 Aggregate and captain and marine engine 133 Construction and mixing action 134 Abrasive products 135 Paper containers 136 Abrasive products 137 Abrasive products 138 Other captain and captain	0	583	Miscellancous machinery and machine parts	88	06	127	Bakery and confectionery products	37.8
131 Newspaper Industry 132 Clay refractories 133 Clay refractories 134 Stageste and stone products 135 Clay refractories 136 Marsale and stone products 137 Saffood processing and cable 138 Soliers engines and turbines 139 Soliers engines and turbines 130 Soliers engines and turbines 131 Ship building and repair and marine engine 131 Ship building and repair and marine engine 130 Steel forgings and casting 131 Moter webicites parts and accessories 131 Moter webicites parts and accessories 131 Moter webicites parts and accessories 132 Moter webicites parts and accessories 133 Moter webicites and cable 134 Saasonings 135 Solier engines 136 Solier forgings and casting 137 Moter webicites and cable 138 Solier engines 139 Moter webicites and cable 130 Other electrical matchinery 130 Other electrical and products 131 Moter webicites and cable 132 Solier engines in and repair and repair and related products 138 Solier and cable 139 Solier engines 130 Solier and cable 130 Solier and cable 131 Moter webicites 132 Marcellaneous furniture and city products 133 Solier and cable 134 Saasonings 135 Solier films, etc. 135 Solier engines in and steel 136 Solier engines in and related products 137 Miscellaneous furniture and fixtures 138 Miscellaneous furniture and mittens 139 Miscellaneous described paper 130 Solier engines 130 Solier engines 131 Moter webs 132 Miscellaneous furniture and fixtures 133 Solier engines 134 Miscellaneous and mittens 135 Solier engines 136 Miscellaneous furniture and fixtures 137 Miscellaneous furniture and mittens 138 Miscellaneous and mittens 139 Miscellaneous and mittens 130 Solier engines	_	284	Fabricated metal products	85	<u>.</u>	311	Noter vehicles parts and accessories	31.8
267 Clay refractories 28	~	191	Newspaper Industry	₹	3.2	154	Fur apparel and apparel accessories	37.5
Segregate and stone products Segregate and segregate and repair and marine engine Segregate and segregate and repair and marine engine Segregate and segregate and repair and marine Segregate and segregate and segregate Segregate and segregate and segregate Segregate and segregate and segregate Segregate Segregate and segregate Se	~	267	Iron castings	8	53	122	Seafood processing	37.4
258 Aggregate and ctone products 251 Boilers engines and turbines 252 Boilers engines and turbines 253 Boilers engines and turbines 253 Boilers engines and turbines 254 Boilers engines and turbines 255 Boilers engines and turbines 256 Paper containers 257 Abrasive products 258 Acticultural machinery 259 Construction and mining machine 259 Construction and mining machine 250 Other electrical machinery 251 Abrasive products 252 Boyler containers 253 Abrasive and accessories 254 Boyler electrical machinery 255 Context very containers 256 Context very containers 257 Boyler electrical machinery 258 Other cramic stone and clay products 258 Other cramic stone and clay products 259 Other cramic stone and clay products 250 Other cramic stone and clay products 251 Conpounding plastic materials 252 Context stone 253 Context stone 254 Context stone 255 Context stone 256 Context stone 257 Electric vire and cable 258 Other cramic stone and clay products 259 Other cramic stone and clay products 250 Other cramic stone 251 Context stone 252 Context stone 253 Context stone 254 Other cramic stone 255 Context stone 256 Context stone 257 Electric vire and cable 258 Other cramic stone 259 Other cramic stone 250 Other cramic stone 250 Other cramic stone 251 Other cramic stone 252 Other cramic stone 253 Other cramic stone 254 Other cramic stone 255 Other cramic stone 256 Context stone 257 Electric vire 258 Other cramic stone 259 Other cramic stone 250 Other cramic stone 250 Other cramic stone 251 Other cramic stone 252 Other cramic stone 253 Other cramic stone 254 Other cramic stone 255 Other cramic stone 256 Other cramic stone 257 Electric vire 258 Other cramic stone 259 Other cramic stone 250 Other cramic stone 250 Other cramic stone 250 Other cramic stone 251 Other cramic stone 252 Other cramic stone 253 Other cramic stone 254 Other cramic stone 255 Other cramic stone 256 Other cramic stone 257 Other cramic stone 258 Other cramic stone 259 Other cramic stone 250 Other cramic stone 250 Other cramic stone 250 Other cramic stone 251 O	Ţ	255	refractori	23 €0	¥6	149	Miscellaneous textile mills products	37.4
291 Boilers engines and turbines 30 97 159 Physical and cheanial instruments 31 185 Paper containers 32 Other paper and paper worked products 32 Other paper and paper worked products 33 Other paper and paper worked products 34 Other paper and paper worked products 35 Steel forgings and castiners 36 Other paper and and accessories 37 100 182 Paper 38 Construction and alkining machiner 39 Construction and alkining machiner 30 Other electrical anchinery 30 Other electrical and reliance 30 Other electrical and reliance 30 Other electrical anchinery 31 Other electrical anchinery 32 Other electrical anchinery 33 Other electrical anchinery 34 Other electrical anchinery 35 Other electrical anchinery 36 Other electrical anchinery 37 Other electrical anchinery 38 Other electrical anchinery 38 Other electrical anchinery 39 Other electrical anchinery 30 Other electrical anchinery 30 Other electrical anchinery 30 Other electrical anchi	vo.	258	Aggregate and stone products		ę,	213	Electric wire and cable	37.2
185 Paper containers and repair and marine cngine 80 97 159 Miscellaneous fabricated textile products 189 Deper containers 9 0 there paper and paper worked products 7 9 9 223 Trees and inner tubes 293 Construction and mining matchine 7 10 182 Paper containers 293 Construction and mining matchine 7 10 182 Paper containers 293 Construction and mining matchine 7 10 182 Paper containers 293 Construction and mining matchine 7 10 182 Paper containers 293 Construction and mining matchine 7 10 182 Paper containers 293 Construction and mining matchine 7 10 182 Paper containers 293 Content with a containers 293 Content with a container 294 Content with a container 294 Content with a container 295 Content with a c		291	Boilers engines and turbines	8	96	324	Physical and chemical instruments	37.0
185 Paper containers 189 Other paper and paper worked products 189 Other paper and paper worked products 250 Construction and whing matchine 251 Abrasive products 251 Abrasive products 252 Abrasive products 253 Other electrical machinery 254 Construction and whing matchinery 255 Abrasive products 256 Coated steel 257 Abrasive products 258 Other electrical machinery 259 Coated steel 259 Other electrical machinery 250 Other electrical machinery 250 Other electrical machinery 251 Paving materials 252 Coated steel 253 Other electrical machinery 254 Seasonings 255 Coated steel 255 Coated steel 256 Coated steel 257 Coated steel 258 Other electrical machinery 259 Paper containers and related products 250 Other electrical machinery 250 Other electrical machinery 250 Other electrical machinery 251 Pastic films, etc. 252 Plastic films, etc. 253 Structual clay products 254 Plastic films, etc. 255 Structual clay products 256 Coated and glazed paper 257 Structual clay products 258 Structual clay products 259 Abrasive products 250 Plastic plates paints, etc. 250 Plastic plates paints, etc. 251 Plastic plates paints, tubes, etc. 252 Coence and internation of plating products 253 Plastic plates paints, tubes, etc. 254 Plastic plates paints, tubes, etc. 255 Plastic plates products 256 Plastic plates products 257 Plastic plates paints, places, tubes, etc. 258 Plastic plates products 259 Plastic plates products 250 Plastic plates products 250 Plastic plates products 251 Plastic plates products 252 Plastic plates products 253 Plastic plates products 254 Plastic plates products 255 Plastic plates products 255 Plastic plates products 256 Plastic plates products 257 Plastic plates products 258 Plastic plates products plates products 258 Plastic plates products 259 Plastic plates products 250 Plastic plates products products 250 Plastic plates products products 251 Plastic plates part products products 252 Plastic plates part products plates products plates products plates products plates products plates products plates products plate	_	314	Ship building and repair and marine engine	9	. 3	139	Miscellaneous fabricated textile products	36.8
189 Other paper and paper vorked products 75 100 182 Paper Construction and anning matchine 75 100 182 Paper Construction and anning matchine 75 101 185 Paper Construction and anning matchine 75 101 185 Paper Construction and anning matchine 75 102 292 Agricultural matchinery and equipment 31 Moter vehicles parts and accessories 70 104 284 Fur skins 200 Other electrical matchinery 70 104 285 Fur skins 309 Other electrical matchinery 70 104 285 Fur skins 309 Other electrical matchinery 70 104 285 Fur skins 309 Other electrical matchinery 70 104 285 Fur skins 309 Other electrical matchinery 70 104 285 Fur skins 309 Other electrical matchinery 80 104 285 Fur skins 309 Other electrical matchinery 80 104 285 Fur skins 309 Other electrical matchinery 80 104 285 Fur skins 309 Surveying matchinery 80 104 285 Fur skins 300 Fur shing 300 Fur skins 300 Fu		185	container	 -	86	223	Industrial plastic products	36,6
256 Steel forgines and casting 258 Construction and mining machine 259 Construction and mining machine 251 Abrasive products 251 Abrasive products 250 Other electrical machinery 250 Other electrical machinery 252 Plastic films , etc. 253 Other ceramic stone and clay products 254 Coated steel 255 Other ceramic stone and clay products 255 Other ceramic stone and clay products 256 Coated steel 257 Coated steel 258 Other ceramic stone and clay products 258 Other ceramic stone and clay products 259 Other ceramic stone and clay products 250 Other ceramic stone and clay products 250 Other ceramic stone and clay products 250 Other ceramic stone and clay products 251 Coated steel 258 Other ceramic stone and clay products 259 Other ceramic stone and clay products 250 Other ceramic stone and clay products 251 Other ceramic stone and clay products 252 Compounding plastic materials 253 Structual clays products 254 Miscellaneous form and steel 255 Other ceramic stone and clay products 256 III 179 Miscellaneous and plumping supprices 257 Miscellaneous and machines 258 Miscellaneous and machines 259 Miscellaneous chemical and allied products 250 Miscellaneous chemical and allied products 250 Miscellaneous chemical and allied products 250 Miscellaneous chemical and allied products 251 Plastic plates, bars, pipes, tubes, etc. 252 Thastic plates bars, pipes, tubes, etc. 253 III 179 Primary non-ferrous metals smelling		189	paper and	-3	66	231	Tyres and inner tubes	36.6
293 Construction and fining matchine 254 Abrasive products 255 Motasive products 257 Motasive products 258 Motasive products 259 Agricultural machinery and accessories 250 Other electrical machinery 250 Other electrical machinery 250 Other electrical machinery 251 Motasive products 252 Destrict vire and cable 253 Other ceramic stone and clay products 254 Miscellaneous iron and househole machines 255 Coated steel 255 Coated steel 256 Coated steel 257 Miscellaneous iron and clay products 258 Miscellaneous iron and steel 259 Miscellaneous iron and steel 250 Miscellaneous iron and steel 250 Miscellaneous iron and steel 251 Miscellaneous iron and steel 252 Miscellaneous iron and steel 253 Miscellaneous iron and steel 254 Miscellaneous iron and steel 255 Miscellaneous iron and steel 256 Miscellaneous iron and steel 257 Miscellaneous iron and steel 258 Miscellaneous iron and steel 259 Miscellaneous iron and steel 250 Miscellaneous iron and steel 251 Miscellaneous iron and steel 252 Miscellaneous iron and steel 253 Miscellaneous iron and steel 254 Miscellaneous iron and steel 255 Miscellaneous iron and steel 256 Miscellaneous iron and steel 257 Miscellaneous iron and steel 258 Miscellaneous iron and steel 259 Miscellaneous iron and steel 250 Miscellaneous chemical and allied products 250 Miscellaneous chemical and allied products 251 Pringary non-ferrous metals smelling 252 Pringary non-ferrous metals smelling 253 Miscellaneous chemical and allied products 254 Pringary non-ferrous metals smelling		266		35	100	182	Paper	35
102 292 Agricultural machinery and equipment 121 Moter vehicles parts and accessories 12 Moter vehicles parts and accessories 12 Moter vehicles parts and accessories 12 Moter electrical machinery 12 Moter security 12 Moter security 12 Moter estable 12 Moter ceramic stone and clay products 12 Moter security 12 Moter equipment and househole machines 12 Moter estable 12 Moter equipment and househole machines 12 Moter estable 12 Mo		293	Construction and mining machine		101		Paper containers	36
311 Motor vehicles parts and accessories 72 103 222 Plastic films , etc. 309 Other electrical machinery 68 105 Edge of the same coffee steel 215 Paving materials 5		257	Abrasive products	<u>-</u>	102		Agricultural machinery and equipment	36.0
Substitute of the control machinery 215 Paving materials 216 Coated steel 217 Electric and cable 218 Olfice equipment and clay products 219 Office equipment and househole machines 219 Office equipment and househole machines 210 Communication equipment and related products 210 Sasonings 220 Plastic films, etc. 221 Plastic films, etc. 222 Plastic films, etc. 233 Structual clay products 234 Miscellaneous iron and steel 235 Gampounding plastic materials 236 Miscellaneous plastic products 237 Miscellaneous plastic products 238 Miscellaneous plastic products 239 Miscellaneous plastic products 240 Miscellaneous mad steel 251 Cement and its products 252 Cement and its products 253 Structual clay products 254 Miscellaneous plastic products 255 Cement and its products 256 Miscellaneous mad plastic products 257 Miscellaneous and miled products 258 Miscellaneous beneficed blastic products 259 Miscellaneous beneficed blastic products 260 Miscellaneous chemical and allied products 261 Miscellaneous chemical and allied products 262 Miscellaneous beneficed blastic plates, bars, pipes, tubes, etc. 263 Miscellaneous plastic plates, bars, pipes, tubes, etc. 264 Miscellaneous plastic plates, bars, pipes, tubes, etc. 275 Miscellaneous plates and medicines 276 Miscellaneous plates, bars, pipes, tubes, etc.		31.	vehicles	12	103		Plastic films, etc.	35.8
215 Paving materials 275 Electric vice and cable 275 Electric vice and cable 275 Electric vice and cable 276 Electric vice and cable 277 106 133 Tea and coffee 278 Coated steel 278 Coated steel 279 Office equipment and househole machines 270 Plastic films . etc. 270 Plastic films . etc. 271 109 Compounding plastic materials 272 Compounding plastic materials 273 Structual clay products 274 Miscellaneous furniture and fixtures 275 Compounding plastic materials 276 Compounding plastic materials 277 Miscellaneous plastic products 278 Miscellaneous plastic products 279 Miscellaneous plastic products 270 Miscellaneous and plumbing suppries 270 Miscellaneous and mittens 270 Miscellaneous and mittens 271 Tyres and medicines 272 Miscellaneous and mittens 273 Tyres and medicines 274 Miscellaneous chemical and allied products 275 Miscellaneous products 276 Miscellaneous chemical and allied products 277 Miscellaneous products 278 Miscellaneous chemical and allied products 279 Miscellaneous chemical and allied products 270 Miscellaneous chemical and allied products 271 Primary non-ferrous metals smelting		30.0	electrica	2	?	248	Fur skins	35. 7
275 Electric wire and cable 258 Other ceramic stone and clay products 258 Coated steel 259 Miscellaneous iron and steel 250 Division of glazed paper 251 Division of glazed paper 252 Compounding plastic materials 253 Structual clay products 253 Structual clay products 253 Structual clay products 254 Miscellaneous furniture and fixtures 255 Structual clay products 256 Miscellaneous plastic products 257 Miscellaneous plastic products 258 Miscellaneous plastic products 259 Miscellaneous plastic products 250 Miscellaneous and reinforced plastic products 250 Soape detergents, paints, etc. 250 Miscellaneous and niner tubes 251 Tin cans and inner tubes 252 Miscellaneous and mittens 253 Miscellaneous and mittens 254 Miscellaneous and mittens 255 Miscellaneous and mittens 256 Miscellaneous and mittens 257 Miscellaneous and mittens 258 Miscellaneous and mittens 259 Miscellaneous and mittens 250 Miscellaneous chemical and allied products 250 Miscellaneous chemical and allied products 251 Plastic plates, bars, pipes, tubes, etc. 252 Miscellaneous plates medicines 253 Miscellaneous chemical and allied products 254 Miscellaneous plates medicines 255 Miscellaneous products 265 Miscellaneous plates medicines 266 Miscellaneous chemical and allied products 267 Miscellaneous plates medicines 268 Miscellaneous plates medicines 269 Miscellaneous plates medicines 260 Miscellaneous plates medicines 260 Miscellaneous plates medicines 261 Miscellaneous plates medicines 262 Miscellaneous plates medicines 263 Miscellaneous plates medicines 264 Miscellaneous plates medicines 265 Miscellaneous plates medicines 266 Miscellaneous plates medicines 267 Miscellaneous plates medicines 268 Miscellaneous plates medicines 269 Miscellaneous plates medicines 260 Miscellaneous plates medicines 269 Miscellaneous plates medicines 260 Miscellaneous plates medicines 260 Miscellaneous plates medicines 260 Miscellaneous plates medicin		215		8	105	592	Coated steel	35. 7
255 Other ceramic stone and clay products 127 Seasonings 128 Other ceramic stone and clay products 128 Other ceramic stone and clay products 128 Coated stell clay products 129 Plastic films , etc. 120 Plastic films , etc. 122 Plastic films , etc. 123 Compounding plastic materials 124 Other mand steel 125 Compounding plastic materials 125 Structual clay products 126 Coated and glazed paper 127 Scape detergents , paints , etc. 128 Miscellaneous plastic products 128 Miscellaneous plastic products 128 Miscellaneous plastic products 129 Miscellaneous plastic products 120 Soaps detergents , paints , etc. 128 Miscellaneous and plumbing suppries 129 Miscellaneous and mittens 120 Plastic plates , bars , pipes , tubes , etc. 129 Miscellaneous plastic plates sheet products 120 Miscellaneous and mittens 120 Miscellaneous and mittens 120 Miscellaneous materials 127 Plastic plates , bars , pipes , tubes , etc. 128 Plastic plates and medicines 129 Miscellaneous plated sheet products 120 Miscellaneous and mittens 120 Miscellaneous plated sheet products 120 Miscellaneous products 121 Plastic plates , bars , pipes , tubes , etc. 128 Plastic plates , bars , pipes , tubes , etc.		27.5	and cable	67	106	133	Tea and coffee	35.5
126 Communication equipment and related products 25 Consider Steel 25 Consoluding plastic materials 25 Plastic films, etc. 25 Plastic films setc. 25 Plastic films setc. 25 Plastic plastic materials 25 Structual clay products 25 Structual clay products 26 III 79 Miscellaneous furniture and fixtures 25 Miscellaneous furniture and fixtures 26 III 22 Miscellaneous plastic products 27 Miscellaneous plastic products 28 Miscellaneous plastic products 29 Miscellaneous plastic products 20 Miscellaneous and mittens 20 Miscellaneous and mittens 20 Miscellaneous and mittens 21 III 28 Miscellaneous and mittens 22 Cement and incretubes 23 III 18 III 18 III III 29 Miscellaneous and mittens 26 Miscellaneous chemical and allied products 27 Miscellaneous chemical and allied products 28 Miscellaneous chemical and allied products 29 Miscellaneous bars, pipes, tubes, etc. 29 Miscellaneous plastes metals smelling	_	25.9	stone and	65	101	298	Office equipment and househole machines	35.6
222 Plastic films, etc. 22 Cappounding plastic films, etc. 225 Cappounding plastic materials 226 III 73 Wiscellaneous furniture and fixtures 227 Miscellaneous furniture and fixtures 228 Miscellaneous plastic products 229 Miscellaneous plastic products 220 Miscellaneous iron and steel 220 Miscellaneous iron and steel 231 Tyres and mother plated sheet products 232 III 233 Heating apparatus and plumbing suppries 233 III 234 Cament and listens 234 III 184 Paper products 235 Miscellaneous chemical and allied products 236 Miscellaneous chemical and allied products 237 Miscellaneous bars, pipes, tubes, etc. 238 Miscellaneous plates smelling products 239 Miscellaneous materials smelling		124	Seasonings	63	108	304	Communication equipment and related products	35.5
225 Compounding plastic materials 25 Suppounding plastic materials 25 Suppounding plastic materials 25 Suppounding plastic materials 25 Surveying plastic materials 25 Surveying plastic materials 25 Surveying plastic materials 26 111 179 Miscellaneous plastic products 26 Miscellaneous plastic products 26 Miscellaneous plastic products 27 Time and and glazed paper 28 Time and other platted sheet products 28 Time and medicines 29 Miscellaneous chemical and allied products 29 Miscellaneous chemical and allied products 20 Miscellaneous chemical and allied products 21 Plastic plates, bars, pipes, tubes, etc., 53 120 271 Primary non-ferrous metals smelling		207		200	507	597	Miscellancous iron and steel	35
253 Structual clay products 253 Structual clay products 253 Structual clay products 254 Miscellaneous plastic products 255 Miscellaneous products 256 Miscellaneous iron and steel 257 Miscellaneous iron and steel 258 Miscellaneous and pluabing suppries 259 Miscellaneous and pluabing suppries 250 Soaps detergents, paints, etc. 251 Tyres and other plated sheet products 252 Camont and its products 253 Tin cans and other plated sheet products 254 Til 184 Paper products 255 Divestock products 256 Dives and medicines 257 Miscellaneous chemical and allied products 258 Miscellaneous chemical and allied products 259 Miscellaneous bars, pipes, tubes, etc. 250 Plastic plates, bars, pipes, tubes, etc.		777	٠. إ	70	3:	, .	Uther manulacturing 2	35. 2
183 Coated and glazed paper 184 Coated and glazed paper 185 Coated and glazed paper 185 Coated and glazed paper 186 Miscellaneous iron and steel 187 Soaps detergents, paints, etc. 188 Tin cans and other plated sheet products 188 Tin cans and other plated sheet products 189 Miscellaneous chemical and allied products 180 Miscellaneous chemical and allied		277	Compounding plastic materials	70		. ·	Miscellaneous furniture and fixtures	34. 8
163 Coaled and glazed paper 269 Miscellaneous iron and steel 269 Miscellaneous iron and steel 269 Miscellaneous iron and steel 261 II4 283 Mealing apparatus and plumbing suppries 261 II6 252 Cement and its products 271 Tyres and inner tubes 271 Tyres and inner tubes 272 Miscellaneous chemical and allied products 273 Miscellaneous chemical and allied products 274 Miscellaneous bars, pipes, tubes, etc. 275 Miscellaneous bars, pipes, tubes, etc. 276 Miscellaneous bars, pipes, tubes, etc.		233	Structual clay products	29	11.2	522	Riscellaneous plastic products	34.8
269 Miscellaneous from and steel 205 Soaps detergents, paints, etc. 205 Soaps detergents, paints, etc. 206 Soaps detergents, paints, etc. 207 Tin cans and other plated sheet products 208 Dives and inner tubes 206 Dives and modicines 209 Miscellaneous chemical and allied products 209 Miscellaneous chemical and allied products 201 Plastic plates, bars, pipes, tubes, etc. 202 Til Primary non-ferrous metals smelling		103	Coaled and glazed paper	9	113		Foamed and reinforced plastic products	34. 6
205 Soaps detergents, paints, etc. 281 In cans and other plated sheet products 281 In cans and other plated sheet products 292 In the same products 293 In the same products 294 In the same products 295 Miscellaneous chemical and allied products 296 Miscellaneous chemical and allied products 297 Miscellaneous chemical and allied products 298 Miscellaneous chemical and allied products 299 Miscellaneous chemical and allied products 290 Miscellaneous chemical and allied products		593		3	<u>.</u>		Heating apparatus and plumbing suppries	34.4
231 Tyres and other plated sheet products 54 117 184 Paper products 231 Tyres and inner tubes 230 Drugs and medicines 203 Miscellaneous chemical and allied products 230 Miscellaneous chemical and allied products 240 Miscellaneous chemical and allied products 250 Miscellaneous chemical and allied products 251 Miscellaneous chemical and allied products 252 Miscellaneous chemical and allied products 253 Miscellaneous chemical and allied products 253 Miscellaneous chemical and allied products 254 Miscellaneous chemical and allied products 255 Miscellaneous chemical and allied products 257 Miscellaneous chemical and allied products 258 Miscellaneous chemical and allied products 259 Miscellaneous chemical and allied products 250 Miscellaneous chemical and allied products 2		\$07		9	115	-	Cement and its products	34.2
231 Tyres and inner tubes 206 Drugs and medicines 208 Miscellaneous chemical and allied products 209 Miscellaneous chemical and allied products 221 Plastic plates, bars, pipes, tubes, etc. 53 120 271 Primary non-ferrous metals smelting		182	Tin cans and other plated sheet products	ر در	116	<u> </u>	Leather gloves and mittens	33.7
206 Drugs and medicines 209 Miscellaneous chemical and allied products 221 Plastic plates, bars, pipes, tubes, etc. 53 119 322 Surveying instruments 221 Primary non-ferrous metals smelting		231	Tyres and inner tubes	Š	=	28	Paper products	33,3
209 Miscellaneous chemical and allied products 53 119 322 Surveying instruments 221 Plastic plates, bars, pipes, tubes, etc. 53 120 271 Primary non-ferrous metals smelting		206		8	118	121	Live-stock products	33, 2
221 Plastic plates, bars., pipes, tubes, etc. 53 120 271 Primary non-ferrous metals smelling		502	hemical a	 	5	322	Surveying instruments	33 2
		221	, bars .	53	120	271	Primary non-ferrous metals smelting	32.3

Source:Report of the 1985 Japan Industrial Survey (Establishment more than 30 persons). Remark: 1 Baht = 5 Yen

Degree of Labor Intensiveness by Types of Manufacturing Industry Table-20

in Japan 1985 (Order of the Higher Degree)-5

121 212 122 131 123 251 124 252 125 272	lixed assets (Persons / Jun Mill Baht)				(%)	
	U>	***	121	375	Musical instruments and phonograph records	31.9
	Clace and its products	== 2 7 7	77	707	Costolina inorganio chesicalo	
	Cement and its p		77	256	Carbon and graphic products	
-	Secondary non-fe	9	125	292	ron smelting without blast furnaces	31.5
		80	1.26	219	Miscellaneous petroleum and coal products	31. 2
	Steel materials and rolling mills	e0 e0	127	65	Publishing industry	30.8
28 256	Carbon and graphite products	38	1.28	341	Precious metal products	30.8
29 204	Chemical fibres	35	129	343	Toys and sporting goods	30.1
	Non-ferrous netals rolling mills	23	130	797	iron industries with blast furnaces	28.5
131 128	Sugar processing	32	131	302	Household electric appliances	28.4
		32	132	281	Tin cans and other plated sheet products	27.6
	Alcoholic bevera	;;;	133	201	Chemical fertilizers	27.5
		2	13(305	Computer equipment and accessoris	27.1
	Steel with rolling facilities	8	135	25 I	Glass and its products	26.9
_	-	52	35	212	Lubricaling oils and greases	26.4
		92	137	125	Sugar processing	25.3
		25		205	Soaps, detergents, paints, etc.	24.9
	Chemical fertilizers	25	33	306	Electronic equipment	24.8
		23	140	126	Flour and grainmill products	24. 4
	_	23	141	124	Seasonings	22.8
_	Tobacco manufact	22	142	135	Prepared animal foods and organic fertilizers	21.9
	Industrial organic chemicals	22	153	203	industrial organic chemicals	21.7
	Primary non-ferrous metals smelting	22	7	131	Soft drinks and carbonated water	21.4
	o	61	145	209	Miscellaneous chemical and allied products	20.0
	Iron industries with blast furnaces	=	146	206	Drugs and medicines	17.3
	-	80	147	128	Animal and vegetable oils and fats	16.3
		•••	148	132	Alcoholic beverage	16.5
	Fetroleum refining	£	149	211	Petroleum refining	13.8
_		×	150	164	Wooden footwear	×
	Miscellaneous wo	×	151	169	Miscellaneous wood products	*
272 242		×	152	2 1 2	Mechanical leather products	×
	Miscellaneous leather products	×	153	249	Miscellaneous leather products	×
154 188	Service industries related to printing trade		154	ô6 T	Service industries related to printing trade	

Source:Report of the 1985 Japan Industrial Survey (Establishment more than 30 persons) Remark: 1 Baht = 5 Yen

3. Manufacturing industries in Bankok Area 1984

Table - 21 Manufacturing industries in Bangkok Area 1984 (Industries Ranked under 51 place by Scale of Person Engaged)

(Remark: Accum. = Accumulated percentage adding a percentage of the following industries)

٠.		·	Number of	Percent	age to
	[]		persons	(Otal	a NOUN C
,	Code		eugaged	(96)	Accm.
5 1	38310	Electrical industrial machinery and apparatus	4.336	0.4	92.
5 2	38292	Airconditioning machines	4,220	0.4	
53	38500	Precision instruments and machinery	4.047	0.4	93.
54	35231	Soap and cleaning preparation	3,988	0.4	94.
5.5	38110	Cutlery, hand tools and general hardware	3.597	0.4	94.
56	31111	Slaughtering	3,314	0.3	94.
5 7	35210	Paints, varnishes and lacquers	3,101	0.3	95.
58	38192	Wire and wire products	3.001	0.3	95.
59	35111	Basic industrial chemicals	2.923	0.3	95.
60	31219	Other food products	2.876	0.3	96.
61	31122	Wilk factories	2.779	0.3	96
62	39011	Cutting and polishing of gem stones	2,513	0.3	96.
63	31139	Fruit and vegetables products	2,133	0.2	96.
64	31142	Fish sauce	1,916	0.2	97.
6.5	32118	Textile fishing	1.938	0.2	97.
66	32330	Leather and leather substitutes products	1.811	0.2	97.
67	38220	Agricultural machinery and equipment	1,781	0.2	97.
68	32113	Spinning of cotton and man-made libres	1,764	0. Z	97.
59	38411	Building and repairing of steel ships	1.711	0.2	98.
70	38393	Electrical lamps	1.519	0.2	98.
71	31411	Tobacco curing	1,244	0.1	98.
72	33202	Rattan furniture	1.227	0.1	98.
73	35601	Plastic containers	1.225	0.1	98.
74	35299	Other chemical products	1.139	0.1	98.
75	31212	Manufactured ice	986	0.1	98.
76	35130	Synthetic resins, plastic materials and artificial fibres	958	0.1	98.
77	31181	Sugar factories	900	0.1	98.
78	39012	Jevellery	880	0.1	99.
79	31121	Dairies	864	0.1	99.
80	31190	Confectionery	841	0.1	:
81	37200	Non-ferrous metal basic industries	716	0.1	99.
8 2	35292	Clues	770	0.1	7
83	35294	Matches	770	0.1	59.
84	33120	Fooden and cane containers, etc.	610	0.1	99.
8.5	38240	Special industrial machinery and equipment	572	0.1	99.
8.6	39030	Sporting and athletic goods	519	0.1	99.
8 7	31161	Rice mills	\$15	0.1	99.
88	36922	Lime and plaster	420	0.0	99.
8 9	39013	Silverware and nielloware	396	0.0	99.
90	31172	Biscuits	369	0.0	\$9.
9.1	38298	Repair shops	324	0.0	99.
92	32112	Cotton ginning	322	0.0	99.
93	31119	Other meat products	288	0.0	99.
94	38412	Building and repairing of vooden boats	264	0.0	99.
95	38419	Other shipbuilding and repairing	231	0.0	99.
98	32203	Readgear	66	0.0	99.
97	31132	Soy sauce and soy curds	D	D.	99.
98	35300	Petroleum refineries	D	D	99.

Source: Report of the 1985 Industrial Survey (Establishment more than 20 persons)

Table 22 Manufacturing industries in Bangkok Area 1984
(Industries Ranked under 51 place by Scale of Gross Output)

(Remark:Accum. = Accumulated percentage adding a percentage of the following industries)
[Unit:Mill. Baht]

. : -			Value of	Percent total	age to amount
	Code	Types of industry	gross	(%)	Accn.
5.1	37120	Iron and steel foundries	2,000	. 03	90.9
5 2	39011	Cutting and polishing of gem stones	1.884	0.3	91.1
5.3	34204	Printing other printed matters	1,746	0.2	91.4
5.4	31139	Fruit and vegetables products	1,730	0.2	91.6
5.5		Dairies	1,702	0.2	91.9
5.6	34207	Printing	1.697	0.2	92.1
57	33111	Savmills and planing milts	1.667	0.2	92.3
58	32150	Cordage, rope and twine	1,651	0.2	92.5
5 9	31111	Slaughtering	1,419	0.2	92.7
6.0	35599	Other rubber products	1.330	0.2	92.9
6 1	32117	Textile printing	1,322		
6 2	35289	Other chemical products	1,129		I .
6.3	31181	Sugar factories	952	0.1	2
64	34201	Printing and publishing of newspaper	961	0.1	93.5
6.5	36100	Pottery	820	0.1	93.6
5 6	35292	Glues	716	0.1	93.7
67	32118	Textile fishing	694	0.1	
5.8	31112	Fish sauce	642	0.1	93.9
6 9	39012	Jevellery	602	•	
70	31172	Biscults	524		94.1
71	38110	Cutlery, hand tools and general hardware	502	Į.	94.2
72	38411	Building and repairing of steel ships	478	i	
73	38500	Precision instruments and machinery	434	0.1	
14	32330	Leather and leather substitutes products	388	0.1	
.15	31212	Manufactured ice	\$80.		
76	1	Spinning of cotton and man-made fibres	. 359.		•
77	38393	Electrical lamps	339	í	94.5
78	31411	Tobacco curing	. 338	1	. 94.5
79		Confectionery	321	0.0	
- 80		Special industrial machinery and equipment	297	1	:
81	32112	Cotton ginning	261		
8 2	1	Silverware and mielloware	245	0.0	
83		Other meat products	235	0.0	94.7
84	35601		233	0.0	
85		Non-ferrous metal basic industries	230	,	
8 6 8 7		Agricultural machinery and equipment	214	0.0	<u>.</u>
88	35294	Matches Rattan furniture	174	0.0	•
00 89	31161	Rice milis	163	•	
90	33120	Wooden and cane containers, etc.	136	0.0	91.9
91	39030	Sporting and athletic goods	33		•
92	38298	Repair shops	79	0.0	•
93	38412	Building and repairing of wooden boats	55	i .	: .
94	36922	Line and plaster	54		
95	38419	Other shipbuilding and repairing	41	0.0	;
96	32203	Readgear	11	0.0	94.9
97	31132	Soy sauce and soy curds	D	D 0.0	81.9
98	35300	Petroleum refineries	l D	D	
	1	I CTT O TO GET I CT I I CT I CT	٠, ١	l	

Source: Report of the 1985 Industrial Survey (Establishment more than 20 persons)

4. Bangkok Area's Share in Manufacturing industries of Whole Kingdom 1984

Table-23 Bangkok Area's Share in Manufacturing industries of Whole Kingdom 1984

(Ranked by Scale of Person Engaged) - 1

(Remark:Accum, = Accumulated percentage adding a percentage of the following industries)

Rank	Code	Types of Industry	Bankok /Whole Kingdom	Number of persons	Percent total	age to
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(%)	engaged	(%)	Accus.
	TOTAL		76.5	978,059	100.0	100.0
1	31111		100.0	3,31€		
2	31122		100.0	2,719 841		
3 -	31340	Confectionery Soft drinks and carbonated waters	100.0			1
Š	32118		100.0	1,938	0.2	6.9
6.	32130		100.0			l
7	32150 32202		100.0			8.5 10.0
ŷ	32203	Language of Table 1	100.0			
10	32209		100.0			23.5
11	32310		100.0	4.820		
12	32330 33120		100.0 100.0	1,811 610		24.1
14	1, 1	Ratian furniture	100.0			
1.5	34120		100.0	12.480		25.6
16		Pulp, paper and paperboard articles	100.0	5,850		
17	34201		100.0 100.0			1
18 19	31207	l and Table and the control of the c	100.0	2.923		27. 7
20	35231		100.0	3,988		•
21	35292		100.0	770		28.1
22	35299		100.0			
23 24	35601 36200	1	100.0 100.0	1,225	0.1	l
25	36921		100.0		1.8	
26	36922		100.0	120	0.0	32.0
21		Iron and steel works and rolling mills	100.0		2. 1	
28 29	38110 38130		100.0 100.0	8,622		35.1 36.0
30	38191		100.0			
31	•	Fire and wire products	100.0			37.7
32	38198	■	100.0	6,389		38.4
33	38292 38298		100.0 100.0	4,220		38.8 38.8
35	38310		100.0	4,336	II .	39.3
36		Radio, television and communication equipment and apparatus	100.0	6,811		40.0
37	38330	Electrical appliances and housewares	100.0	9.627	1.0	41.0
38	38392		100.0	4,848		41.4
39 40	38393 38399	1	100.0 100.0	1.519		41.6
11	38411		100.0	1	H	
42	3,8419	Other shipbuilding and repairing	100.0	. 231	0.0	42.8
43	38431		100.0			44.1
44	38439	Other motor vehicle industries Precision instruments and machinery	100.0 100.0	9,855		45.1 45.5
45		levellery :	100.0	880		
(1	33013		100.0	396		45.6
48	23030	Sporting and athletic goods	. 100.0	519	0.1	45.3
4.9	39090		100.0	14.228		47.1
50 51	31123	1 1111	99.4 99.2	5.588 2.513	0.6	47.7 48.0
52	38440	1	38, 9	7.344	1 1	48.7
5.3	36992	Asbestos-cement products	98.8	. 5.506	0.6	49.3
54	35220		98.6	25, 566	2.6	51.9
5.5 5.6	34204		98.2 97.7	7, 792 9, 010	0.8	52.7 53.6
57	31120	•	97.0	22, 223	2.3	55.9
58	33112		96.7	13,736	1.4	57.3
59	38120		96.3	9,093	0.9	58.2
60	33201	Wood furniture, flature and flooring	91.5	10,024	1.0	59.2

Source: Report of the 1984 Industrial Survey (Establishment more than 20 persons)

Table-24 Bangkok Area's Share in Manufacturing industries of Whole Kingdom 1984
(Ranked by Scale of Person Engaged) - 2

(Remark: Accum, = Accumulated percentage adding a percentage of the following industries)

	Code	Types of Industry	Bankok /Whole	of Number	Percent total	
1 - 1	· · · · · · · · · · · · · · · · · · ·		Kingdom (96)	persons	(%)	Accum.
81	37120	from and steel foundries	91.1	6.962 572	0.7	59,9
62	38240	Special industrial machinery and equipment	90.5	572	0.1	60.0
63	32115	Weaving of cotton and man-made fibres	89.9		18.1	78.1
64	31121	Dairies	87.5	864	0.1	
6.5	35592	Rubber footvear	87.1		2.0	
66	31220	Prepared animal feeds	87.0	23, 125		82.6
67	37200	Non-ferrous metal basic industries	87.0	176		
68		Paints, varnishes and lacquors Made-up textile goods	85.0 84.1	3,101		83.0
70			83.7	14, 338	1.5	84.4
71		Tyre and tube industries Fish sauce	81.9	1 024	2.3	86.7
72		Other fabricated metal products	81.5	0 070	1 0	86.9
73		Pulp, paper and paperboard by machine	81.3	10 676	1 1	89.1
11		Pottery	78.8	7 776	N A	89.8
75		Textile printing	76.6	1 1177	0.0	90.3
76		Other plastic products	74.2	20 315	9 1	92.4
177	31219	Other food products	14.0	14, 338 22, 606 1, 946 9, 979 10, 678 7, 776 4, 472 20, 315 2, 876 5, 636 23, 170 288 1, 781	6.3	92.7
78		Other rubber products	73.4	5.636	ă.o	93.3
79		Distilling, rectifying and blending spirits	13.2	23 170	2 4	95.6
80	31119	Other meat products	72.0	288	0.0	95.7
81		Agricultural machinery and equipment	69.6	1.781	0.2	95.8
82	36991	Concrete products	65.2			95.9
83		Biscuits	64.7	10, 194 369	0.0	96.9
84		Building and repairing of wooden boats	57.4		0.0	
8.5		Fruit and vegetables products	16.4	2 133	0.2	97. 2
86	31151	Oils and fats	12.8	2,133 4,465	0.5	
87	31149	Other sea foods products	41.8	8,761	0.9	98.5
88	31212	Manufactured ice	39.0		0.1	98.6
8.9	1	Synthetic resins, plastic materials and artificial fibres	35.2			
90	35294	Matches	33.6	770	0.1	98.8
91	33111	Savmills and planing mills	22.3		0.6	
92		Spinning of cotton and man-made fibres	15.2			
93	32112		11.4	322		99.6
94	31161	Rice mills	5.9	515	0.1	99.7
95	31411	Tobacco curing	3.1			99.8
96	31181	Sugar factories	2.1	900		99.9
97		Soy sauce and soy curds	D	D		
98		Petroieum refineries	D	D ·		İ
99	31131	Canning of fruit and vegetables	-			
100	31141	Canning of fish	-			
101		Tapioca mills	-			
102		Bakeries	-	-		
103	31173	Koodles and similar products	-	-		
104		Silk weaving		-		
105	32116	Jute mills				
106	32119		-	~		
107		Men's and boys' clothes	-			
108	35112	Charcoal	_	-		.
109	35591	Rubber sheets and block rubber	-	– i		
110	36910	1	-			
111	36999	Other non-metalic mineral products	-	- 1		
112	38299	Other machinery except electrical	-	- 1		·
113	38432	Motor vehicle bodies	- :			
114		Drying of maize	-			
115		Silk reeling				

Source: Report of the 1984 Industrial Survey (Establishment more than 20 persons)

Table-25 Bangkok Area's Share'in Manufacturing industries of Whole Kingdom 1984 (Ranked by Scale of Gross Output) ± 1

(Remark: Accum. = Accumlated percentage adding a percentage of the following industries)
(Unit: Mill, Baht)

				(ontt:	Mili. B	## T
		4.5 4	Bankok	Yalus of	Percent	age to
Rank	Code	Types of Industry	/Whole	gross	total	amount.
			Kingdon	oulpul	}	r
			(%)		(%)	Accur.
	TOTAL		77.5	722,003	100.0	100.0
1	31111	Slaughtering	100.0	1,419	0.2	0.2
ž	31122	Hilk factories	100.0	5,459	0.8	1.0
3	31123	lce-cream	100.0	3,843	0.5	1.5
4	31190	Confectionery	100.0	321	0.0	1.5
5	31420	Tobacco products	100.0	54,838	7.6	9.1
6	32118	Textile finishing	100.0	694	0.1	9.2
7	32130	Knitting wills	100.0		JI .	
. 8	32150	Cordage, rope and twine	100.0	1,651		9.7
. 9	32202	Youen's, girls' and infants clothes	100.0	3, 169	I(10.2
. 10	35503	Headgear	100.0		li	t
11	32209	Other yearing apparel and accessories	100.0	30,550		14.4
12	32310	Tanneries, leather finishing, fur dressing	100.0		lí	14.8
. 13	32330	Leather and leather substitutes products	100.0	388	0.1	14.9
14.	33120	Vooden and cane containers, etc.	100,0	101	N	14. 9
15	33202	Rattan furniture	100.0	163	II .	14.9
1 &	34120	Containers and boxes of paper and paperboard	100.0	2.450		15.3
17	34190	Pulp, paper and paperboard articles	100.0	5,349	Ľ	16.0
18	34201	Printing and publishing of newspaper	100.0		II .	16.1
.13	34207	Printing	100.0			16.4
20	35111	Basic industrial chemicals	100.0	2,975	11	16.8
21	35231	Soap and cleaning preparation	100.0		1.3	18.1
22,	35292	Glues	100.0	716		18.2
23	15299		100.0	1.129	n	18.∢
24	35601	Plastic containers	100.0	233 6.091	1	18.4
25	36200		100.0 100.0	29.937		19.3 23.4
26	36921	Cement	100.0			23.4
27	36922	Line and plaster Asbertos-cement products	100.0			24.3
29	37110	from and steel works and rolling mills	100.0	29.717	f	28.4
30	38110	■ 1. 5 % = 1.0 ft	100.0	502		28.5
3]	38130	Structural metal products	100.0	4, 288	Re .	29.1
32	38191		100.0	10,113		30.5
3 3	38192	Wire and wire products	100.0	2,913		30.9
34	38198	Coating, engraving and allied services	100.0	6,865		31.8
3 \$	38292		100.0	2,866	0.4	32.2
3 &	38298	Repair shops	100.0	79	0.0	32.3
- 37	38320	Radio, television and communication	100.0	2,473	0.3	32.6
		equipment and apparatus				
38	38330	Electrical appliances and housevares	100.0	6,568	0.9	33.5
39	38392		100.0	2,519	0.1	33.9
- 10	38393		100.0	339	0.0	33.9
41	38399	Other electrical apparatus and supplies	100.0	14,418	2.0	35.9
42	38411		100.0	148	0.1	36.0
43	38419	In the second	100.0			
- 11.	38431	Assembly of automobiles	100.0	9, 383		37.3
. 45	38439	Other motor vehicle industries	100.0	8,966		38.5
46		Precision instruments and machinery	100.0	131	0.1	38.6
47	39011		100.0	1,884		38.8
- (8	19012		100.0	602	0.1	38.9
49	39013	Silverware and nielioware	100.0	245	0.0	38.9
50	39030	Sporting and athletic goods	100.0	99	0.0	39.0
5 1 5 2	39090 35220	Industries not elesyhere classified Drugs and medicine	100.0	3,380	0.5	39.4
53	38440		99.9	18,768	2.6	42.0
54		Notorcycles, tricycles and bicycles Yeneer, plywood and veneered panel	99.9	10, 174	I. (43.4
5 5 5	33112		99.7	5.494	0.8	44.2
56	34204	Printing other printed matters than newspapers Tyre and tube industries	99.6 99.0	1,746 37,769	0.2 5.2	44.4
57	35120	Fertilizers and pesticides		19.063	i	49.7 52.3
58	38240	Special Industrial machinery and equipment	98.5 98.5	297	2.6 0.0	52. 3 52. 4
59	31219	Other food products	98.4	3, 336	0.5	52. 8
60	37120	iron and steel foundries	97.6	2.000	0.3	53.1
			91.V		v. 4	

Sauce: Report of the 1984 Industrial Survey (Establishment more than 20 persons)

Table-26 Bangkok Area's Share'in Manufacturing industries of Whole Kingdom 1984

(Ranked by Scale of Gross Output) - 2

(Remark:Accum, = Accumulated percentage adding a percentage of the following industries)
(Unit: Mill. Baht)

				(Unit:	MILL B	ant)
			Bankok	Value of	Percent	age to
Rank	Code	Types of Industry	/Whole	81028	total	amount
^ • · · ·			Kingdom	output		
]			. (%)		(%)	Accum.
61	31119	Other weat products	97.5	235	0.0	53.1
62	38199	Other (abricated metal products	97.3			53.8
53	33201	Wood furniture, fixture and flooring	96.8	2.879	0.4	54.2
64	31220		98.5	60.521	8.4	62.6
65	38120	Furniture and fixture primarily of metal	95. 1 94. 6	2,670		
66	31142			642		1
67	36100	Pottery	93.5	820	0.1	63.2
6.8	37200	Non-ferrous metal basic industries	93.3	230	0.0	
69	32115	Yeaving of cotton and man-made flores	92.4	68, 516 1, 322	9.5	
70	32117	• · · · · · · · · · · · · · · · · · · ·	92,4			
71	11340	Soft drinks and carbonated waters	91.6			
72	31172		91.3 90.9	521		17.5 53.7
13	31310					83.7
. 74	38412	1	88.9	40 102	4.2	t i
7.5 7.5	35609 31121	Other plastic products Dairies	85.8		0.2	
17	38220	Agricultural machinery and equipment	83.3	211	9 0 0	
78	35210	■	83.1	3 212	0.4	
19	35592		82.5	2,842 2,526	0.4	
80	32120		80.3	2.526	0.3	
81	36991		11.7	4, 304	0.6	
82	31139		74.9	}	0.2	90.2
83	38310	The state of the s	71.4	2,496	i 0.3	90.5
84	34111		62.7		1.0	91.5
8.5	31149		54.7	€ 552		92.2
86	31151		52.1	10,933	1.5 0.1	93.7
81	31212	Manufactured ice	48.5	380	0.1	93.7
8.8	35294		39.5	174	0.0	
89	35130	Synthetic resins, plastic materials	38.5	3,551	0.5	
		and articlat fibres	27.6	1,330	0.2	
90		Other rubber products	26.6	1,330		
91	33 1		19.3		0.0	
92	32112 31411	1	14.2			
93 94	32113	Tobacco curing Spinning of cotton and man-made fibres	7.9	359		94.8
95	31181		9.5	ľ	0.1	94.9
96	31161	Rice mills	2.7	196		
97	31132		D	D	, .	
98	35300		D	D		
99	31131	Canning of fruit and vegetables	1 -	-		<u> </u>
100	31141	Canning of fish	-	-		
101	31162		-	<u> </u>	l l	
102	31164	Tapioca mills	-		l .	
103	31171	Bakeries	-	-		
104	31173	l ·	-	-	l	
105	32111	Silk reeling	-			
106	32114		–			
107	32116		- '			
108	32119	Other spinning and weaving	-			
109	32201		-	_		
110	35112		_	_		[.
111	35591	Rubber sheets and block rubber			F	1
112	36910 36999			_		
114	38299	• • • • • • • • • • • • • • • • • • • •	_		ļ	
115	38432	1 '	1	-	1	
		1	<u> </u>		1	

Sauce: Report of the 1984 industrial Survey(Establishment more than 20 persons)

5. Questionnaire Survey

Table-27 Problems facing at overseas direct investment by Japanese companies

	No.	%
1. Shortage of the local market information	66	44.3%
2. Shortage of the local technology information	79	53.0%
3. Shortage of the industrial location information	86	57.7%
4. Shortage of the local counterpart information	73	49.0%
5. Shortage of other information related to		
investment	57	38.3%
6.Insufficiency of the policy support to overseas		
direct investment by Japanese Government	36	24.2%
7. Restriction of the reexport to the third country	21	14.1%
8.Deference of the tax systems between Japan and		•
other countries	41	27.5%
9. Restriction/barrier such as duties and quota	32	21.5%
10. Time gap to the related companies	16	10.7%
concerning to investment		
11.0thers	8	5.4%

^{*)}notes:multiple answers, percentage ratio of answers is derived by deviding by the total of 149 companies

Table-28 The location conditions required by potential investors

	No.	%
1.Access to international sea port	54	36.2%
2.Access to other sea port	31	20.8%
3.Access to international air port	• 19	12.8%
4. Access to international air network	9	6.0%
5.Access to domestic air port	2	1.3%
6.Access to domestic air network	1	0.7%
7.Access to transportation arteries(express ways)	46	30.9%
8.Access to railway artery	8	5.4%
9. Availability of electricity	98	65.8%
10.Availability of industrial water	56	37.6%
11. Availability of communication	76	51.0%
12.Quantity/quality of labor force	117	78.5%
13.Agglomeration of supported industries	74	49.7%
14. Agglomeration of urban facilities	15	10.1%
15. Availability of R&D functions	8	5.4%
16.Quality of life	26	17.5%
17.0thers	3	2.0%

Table-29 Incentives required by potential investors(GIE)

	Japan		Thailand	
	No.			% ************************************
1.Financial incentives, such as low	741			· · · · · · · · · · · · · · · · · · ·
interest loan	54	36.2%	45	70.3%
2.Exemption or deduction of various	11			
taxes	98	65.8%	5.7	89.1%
3.Investment subsidies	60	40.3%	22	34.4%
4.Wage subsidies	17	11.4%		
5.On-the-job training subsidies	21	14 1%	2	3.1%
6.Corporate income tax deduction		37.6%		
7. Free permission to take out or remit				1. 1
	51	34.2%	9	14.1%
8.A 10% reduction in electricity rates	7	4.7%	15	23.4%
9.Reductions in transportation charges		23.5%		
				1
Table-30 Incentives in EPZ				
· · · · · · · · · · · · · · · · · · ·				
"我们们是我们的,我们们的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一	Ja	pan	Tha	iland
alan et state de la companya de la c	No.	%	No.	%
1.Exemption from customs inspection				
nrocedure	ΩΩ	50 1%	27	1 42 20

1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1996年,1	Ja	pan	Tha	iland
garante da la companya da la company	No.	%	No.	%
1.Exemption from customs inspection				
procedure	8.8	59.1%	27	42.2%
2.Exception of import restriction	30	20.1%	14	21.9%
3.Extension of bonded term for stock				
cargos	16	10.7%	16	25.0%
4.Exemption or deduction of charges				
for bonded facility	21	14.1%	16	25.0%
5. Improvement of customs system such				
that tariff on a product is lower				
than the component raw-materials, and			÷	
import processing is possible in EPZ.	38	25.5%	29	45.3%
6.Faster tax rebate	. 19	12.8%	32	50.0%
7. Simpler, and faster customs clearance	65	43.6%	40	62.5%
8.Set up the computerized business center	5	3.4%		_
9.Exception of inspection of				
exportable goods	31	20.8%	-	. :
10.Exemption from export-tax	36	24.2%	· •	****
11.Relaxation of working permission for				
foreigners	25	16.8%	·	

Table-31 Supporting services required by potential investors

general production of the first control of the firs	Ja	pan	Tha	iland
en e	No.	%	No.	%
1.Contacting service with government				
for various licenses and procedures	121	81.2%	48	75.0%
2.Land development and construction				
service	86	57.2%	24	37.5%
3.Financial services such as direct				
funding for preparation, expansion and				•
purchase by installments	5,5	36.9%	45	70.3%
4.Labor service providing direct access				
to labor supply, on-going consultation			•	
on labor issues, and personnel				
development seminars	114	76.5%	33	51.6%
5.Marketing,advertising,and sales	: .			
service by a specialist or a mediator	12	8.1%	19	29.7%
6. Industrial consulting services such as				
design, engineering, machinery installation				
and waste water treatment	26	17.5%	26	40.6%
7. Mediating services, such as introducing		- 1		
a partner for J/V , a subcontractor,			4.0	00 40
and vender	84	56.4%	18	28.1%
8.Other supporting service for promoting	4.0			0 = 00/
technology transfer	12	8.1%	16	25.0%
9.Commuter service by mass transport	0.1	00 00	4 F	0.0 40/
system	31	20.8%	15	23.4%
10.Rental service of parking space	-	0.7%	2	3.1%
11.Data base service of industrial	25	16.8%	15	23.4%
information	25 1		0	
12.0thers	1	0.7%	U	0.0%

Table-32 Supporting facilities provided in and around the Estate

	Ja	pan	Tha	iland
	No.	_	No.	%
1.Branch office of banks	115	77.2%		81.3%
2.Municipal office	78.	52.4%	7	10.9%
3.Retail stores or shopping centers	55	36.9%	2.3	35.9%
4.Restaurants	59	39.6%	34	53.1%
5.Hotels	58	38.9%	19	29.7%
6.Meeting or conference facilities	13	8.7%	6	9.4%
7.Exhibition or display facilities	5	3.4%	16	25.0%
8. Job training facilities	36	24.2%	16	25.0%
9. Industrial research and development			1.0	
institute	28	18.8%	20	31.3%
10.Industrial organization for				
measuring, weighing and inspection	2 2	14.8%	4	6.3%
11. Public library	0	0.0%	7	10.9%
12.Industrial information center	31	20.8%	28	43.8%
13.Computer data processing center	6	4.0%	15	23.4%
14. Software laboratory	1	0.7%	4	6.3%
15.Trading company office	8 -	5.4%	15	23.4%
16. Tool shop	56	37.6%	14	21.9%
17. Machine and equipment leasing agent	23	15.4%	7	10.9%
18.Travel agent	15	10.1%	. 7	10.9%
19. Customs clearance agent	77	51.7%	43	67.2%
20.Warehousing	44	29.5%	26	40.6%
21.Distribution facilities	25	16.8%	. 8	12.5%
22.Wrapping, packing facilities	15	10.1%	6	9.4%
23.Law offices	. 29	19.5%	8	12.5%
24.Secretarial services	5	3.4%	. 1	1.6%
25.Translation services	26	17.5%	.6	9.4%
26.Language school	9	6.0%	2	3.1%
27.Hospitals	101	67.8%	48	75.0%
28.Fire stations	40	26.9%	32	50.0%
29. Security services		8.7%	33	51.6%
30.Industrial waste disposal facilities	51	34.2%	30	46.9%
31.Recreation and sports facilities	20	13.4%	13	20.3%
32.Low cost worker housing	66	44.3%	43	67.2%
33.VIP housing for business purposes	14	9.4%	6	9.4%
34. Housing for Japanese staff	79	53.0%	-	_
35. Japanese school	52	34.9%	_	-
36.Others	0	0.0%	1	1.6%
*) In Japanese version items of no.34	and 3	5 are	added.	

Table-33 Leasing system and its period

1.Too short	4	3.3%
2.Reasonable	66	55.0%
3.Too long	6	5.0%
4.Require to land for sale in lots	22	18.3%
5.N.A.	22	18.3%

					. (1)	
6.	Location S	pecificati	ions for	Model 1	Plant	
					·	
						· .
					•	•
				* .		
						•
				· · · · · · · · · · · · · · · · · · ·		•

LAEM CHABANG INDUSTRIAL ESTATE INVESTOR INFORMATION SURVEY FORM

Office of the Eastern Seaboard Development Committee

No.	of	questi	onnaire

Thailand in general and Laem Chabang Industrial Estate (LCIE) in particular offer an extraordinary attractive investment setting for businesses from all over the world. Abundant natural resources, cost-effective labor, a large domestic market, political stability, and favorable government promotional policies offer a vista of successful, profitable operations far into the future.

LCIE is part of a major private-public initiative called the Eastern Seaboard Development Project.

This giant, long-term project benefits from a number of advantages this southeastern region of Thailand has to offer: a deep-water port: easy transportation access to Bangkok: and large, contiguous agricultural lands, among others.

While existing plans for LCIE are comprehensive, we are very much interested in allowing them to continue to evolve with the expressed needs of those companies interested in establishing operations within the Estate.

By completing and returning this form to us by **August 20, 1988,** you can benefit your company and assist in meeting your needs.

All responses for internal use only and will be kept confidential.

We thank you in advance for your cooperation.

Should you have any questions, please contact us;

Industrial Estate Authority of Thailand (IEAT) Planning & Analysis Division

IEAT Building. : 618 Nikom Makkasan Road. Bangkok 10400

Telephone No. : 253-0561 (ext. 303)

1. COMPANY OUTLINE

Please fill in the following items or indicate as much as possible. If there are any items you would not like to answer, skip to the next item. 1) Company name : _____ e along the property of the applies 2) Chief executive : __ 3) Year established : _____ $\gamma \sim 20$ MM $_{\odot}$ () and polygons parameters (5), the Fig. () and plants the 12 4) Head office address 5) Principal products or lines of business: 2. Garments, Textiles 3. Machines 1. Toods 5. Metals/Alloys 6. Non-Metal 4. Electrical/Electronic 7. Chemicals 8. 🗌 Jewelry, Stoneware, Silverware 10. Warehousing/transport 9. Wholesale trade 11. Other (_____ _____ (million Baht) 6) Paid-up capital: _____ 7) Character of company: ☐ Joint venture 8) If a joint venture, please indicate paid-up capital by country origin: Thailand ()% · Japan (· USA ()%)% · England (· Hong Kong ()% · Taiwan (· Other countries ()% _____ (million Baht) 9) Total 1987 sales: _____ 10) Export ratio: _________ % (Export/Total sales × 100) 11) Import ratio:________% (Import/Raw materials × 100) 12) Employees: - total:____ - production:_____ 13) The person completing this form: Name; Department ; Tel. No.; _______ Fax. No.; ______ Tex. No.;

14) Section responsible for investment desisions (if other than in #13 above.)

2. SITE SELECTION FACTORS

There are many factors in relation to appropriate location of industrial facility.

What are the most important factors on selecting a site for factory, warehouse and so on?

Please indicate the following factors of your choice.

Please indicate the following factors of your choice.							
CHOOSE UP TO 3 ITEMS							
Availability of raw materials and resources	78 8 1 1 3 7 7	-	$\mathbf{v}_{i} = \mathbf{v}_{i_{i}}$	1164			
2. Access to a substantial domestic market	i kulika						
3. Availability of labour (skilled & unskilled)	2 %						
4. Access to transportation arteries							
5. Access to deep-water port							
6. Availability of utilities and communications			1				
7. Others (Please specify:							

3. INVESTMENT PLANS

	Industrial in Is your con	vestment is now very active in Thailand. npany planning any investments in the next 10 years?	
	1. 🗌 Yes	(Please indicate.)	
	2. 🗌 No	(Skip to 4)	•
	(1) Do you	have plans to expand your existing operation?	
	(1) 20)00	1. Tyes Underway	
		→ ☐ Within 5 years	
		₩ ☐ With 6 to 10 years	
		2. 🗌 No	
	(2) Do you	nave plans to construct a new factory or warehouse?	
		1. 🗌 Yes 👚 🔲 Underway	
		→ ☐ Within 5 years	
•		₩ ☐ With 6 to 10 years	
		2. 🗌 No	

4. INCENTIVES

(1) GENERAL INDUSTRIAL ESTATE

Various incentives will be prepared for inducing enterprises to invest in the Laem Chabang Industrial Estate.

What incentives are the most attractive to you?

Please choose to the most important three items in the following ;

	CHOOSE UP TO 3 ITEMS			
	1. Financial incentives, such as low interest loan	* **	٠	
	2. Exemption or deduction of various taxes	**		
	3. Investment subsidies			
	4. Wage subsidies			
	5. ☐ On-the-job training subsidies		is the second of	
	6. ☐ Corporate income tax deductions			
	7. ☐ Free permission to take out or remit foreign currency	•		
	8. A10 - percent reduction in electricity rates			ē
	9. C Reductions in transportation charges			
(2)	EXPORT PROCESSING ZONE			
` '	EXPORT PROCESSING ZONE EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinate what should be added and improved? Please choose to the most important three items in the following the content in the following process.	nation to atti		
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinate What should be added and improved?	nation to atti		
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinate What should be added and improved? Please choose to the most important three items in the following the should be added and important three items in the following the should be added and important three items in the following the should be added and important three items in the following the should be added and important three items in the following the should be added and improved and impr	nation to atti		
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinable What should be added and improved? Please choose to the most important three items in the following the company of the company	nation to atti		
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinate What should be added and improved? Please choose to the most important three items in the following the companion of the comp	nation to atti		
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinal What should be added and improved? Please choose to the most important three items in the following the composition of important inspection procedure 1. Exemption from customs inspection procedure 2. Exception of import restrictions	nation to att		
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinate what should be added and improved? Please choose to the most important three items in the following the composition of important inspection procedure 1. Exemption from customs inspection procedure 2. Exception of import restrictions 3. Extension of bonded term for stock cargos	nation to att	ract enterp	orises
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinately what should be added and improved? Please choose to the most important three items in the following the composition of the following the composition of the co	nation to atti	ver than th	orises
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinately what should be added and improved? Please choose to the most important three items in the following the composition of the following that the following the following that the following the following that the following that the following the following that the following that the following the f	nation to atti	ver than th	orises
` '	EPZ guarantees the bonded business for re-export, as shown wever, more incentives and improvement are under examinately what should be added and improved? Please choose to the most important three items in the following the component from customs inspection procedure 1. Exemption from customs inspection procedure 2. Exception of import restrictions 3. Extension of bonded term for stock cargos 4. Exemption or deduction of charges for bonded facility 5. Improvement of customs system such that tariff on a component raw-materials, and import processing is possible.	nation to atti	ver than th	prises

5. SUPPORTING SERVICES

The Industrial Estate Authority of Thailand will provide good support services for business activities.

What kind of service is the most important and useful to you? Please choose to the most important five items in the following;

CHOOSE UP TO 5 ITEMS

1.	Contacting service with government for various licenses and procedures
2.	Land development and construction service
3.	Financial services such as direct funding for operation, expansion and purchase by
	installments
4.	Labour service providing direct access to labour supply, on-going consultation on
	labour issues, and personnel development seminars
5.	Marketing, advertising, and sales service by a specialist or a mediator
6.	Industrial consulting services such as design, engineering, machinery installation,
	and waste water treatment
7.	Mediating services, such as introducing a partner for joint-venture, a subcontractor,
	and a vender
8.	Other supporting service for promoting technology transfer
9.	Computer service by mass transport system
10.	Rental service of parking space
11.	Data base service of industrial information
12.	Others (Please specify:)

6. SUPPORTING FACILITIES

Laem Chabang Industrial Estate will provide a full range of facilities as shown in the enclosed pamphlet.

However, it may be desirable to have other facilities to improve conditions for business activities.

What kind of facilities should be provided in or around the Estate?

Please indicate the following items of your preference.

CHOOSE UP TO 10 ITEMS 그렇게 열 하게 하는 하는 이 바다를 t. Branch office of banks 2. Municipal offices 3. Retail stores or shopping centers 4. Restaurants 5. Hotels 6. Meeting or conference facilities 7. Exhibition or display facilities 8. Dob training facility 9. Industrial research and development institute 10. Industrial organization for measuring, weighing and inspection 11. Public library 12. Industrial information center 13. Computer data processing center 14. Software laboratory 15. Trading company office 16. Tool shop 17. Machine and equipment leasing agent 18. Travel agent 19. Customs clearance agent 20. Warehousing 21. Distribution facilities 22. Wrapping, packing facilities 23. Law offices 24. Secretarical services 25. Translation services 26. Language schools 27. Hospitals 28. Fire stations 29. Security services 30. Industrial waste disposal facilities 31. Recreation and sports facilities 32. Low cost worker housing 33. VIP housing for business purposes 34. Others (Please specify: _

7. INVESTING AT LAEM CHABANG

This estate, comprising 2,312 rai. or 370 ha. of GIE, 1,098 rai. or 175 ha. of EPZ, and a 146 rai. or 23 ha. commercial district, is scheduled to be completed in 1991 (the first stage: in 1990), as shown in the enclosed pamphlet.

STANCE OF ENGINEE

		AND THE REPORT OF THE PROPERTY OF
(1) What	is your company's interest in Lae	m Chabang Industrial Estate?
As for GIE	: 1. Plan to invest	Facility 1 Factory
	2. High interest	2. Warehouse
	3. Moderate interest	3. Other (Please specify)
	4. No interest	en e
As for EP2	Z: 1. 🗌 Plan to invest	Facility →1. ☐ Factory
	2. High interest	2. 🗌 Warehouse
10.00	3. Moderate interest	3. ☐ Other (Please specify)
100 DE	4. No interest	Skip to 8
i sa kan Kalabasa		
(2) If you	have any interest in Laem Chabai	ng Industrial Estate, please specify.
teere .		m to
	(b) Land area:	rai. (or m²)
(9) Diago	a shagas to the time of investmen	
o) riease	choose to the type of investmen	
	1. Wholly owned	
	2. Joint venture with Thai capita	
	3. Joint venture with foreign cap	
	4. Others or undecided (Please	specily:
(A) Stands	erd Fanton: (810 m² of only one flor	or, 2600 m² of three floors and other types) is availa
	EM CHABANG. Would you choose	
****	1. ☐ Yes	
	2. 🗌 No	
	<u> </u>	
5) Do you ESTAT		your head office in LAEM CHABANG INDUSTRIA
BO.71	1. ☐ Yes	
	2. 🗌 No	

(6) If the following Systems were available at Laem Chabang Industrial Estate, Please indicate which would you use?

CHOOSE UP TO 3 ITEMS 1. Leased Circuit Data Communication Services 2. Packet-Switched Data Communication Services 3. Data Communication Services, such as Sales Inventory Management System 4. Data-base Access Services 5. Cellular Mobile Telephone Services 6. Radio Paging Service 7. International Video Conference Services 9. Personal Computer Communication Network Services 10. Others (Please specify:) ___ 8. Thank you for your cooperation with this questionnaire. More promotional activities for LAEM CHABANG INDUSTRIAL ESTATE are scheduled and a seminar will be to hold in the middle of November. Please indicate the following and any additional requirements items you may have ; Require more detailed information for examination to establish facilities in LAEM CHABANG. 2. Require an invitation letter for the seminar. 3. Others (Please specify, including any suggestions for the LAEM CHABANG project.)

Table-34 Location Specifications for Model Plant (JAPAN)

Location Specifications for Model Plant (1)

Item	Oil refinery	Petrochemical	Electrolytic soda
1. Capacity of model plant	Amount of crude oil to be processed B.P.S.D.	Ethylene	Caustic soda
	250,000	400,000 ton/year	180,000 ton/year
2. Classification of utilization of plant site			
Area for:			
Production facilities	200,000 m ²	500,000 m²	20,000 m ²
Storage facility	1,000,000 m ²	200,000 m²	10,000 m²
Transport facility			
(Port facility)	1)	160,000 m ²	2,000 m ²
(Radiroad facility)		110,000 m ²	2,000 m ²
(Trucking facility)	300,000 m ²	50,000 m ^a	1,000 m ²
Pollution prevention facility	15	140,000 m ²	2,000 m²
Administration	Γ	100,000 m ²	1,000 m ²
Area for environmental facility	500,000 m ²	500,000 m ²	17,000 m ²
Road (including parking space)	1	240,000 m³	15,000 m²
Other space		100,000 m ²	5,000 m ²
Total	2,000,000 m²	2,100,000 m²	75,000 m²
3. Power facilities			10.000.000
Contract power	20,000 KW	100,000 KW	40,000 KW
Common generating station (Amount of power received)	(-)	_ (-)	(-)
Private power generating station	20,000 KW	75,000 KW	20,000 KW
Total	40,000 KW	175,000 KW	60,000 KW
4. Employees	·		
Regular employees	600 (60)	2,300 (200)	50 (2)
Temporary employees	_	_	
(No. of part timer)	(-)	(-)	(-)
Sub-contract employees	400 (40)	300 (100)	10 (0)
Total	1,000 (100)	2,600 (300)	00 (2)
5. Amount of industrial water used			1.000 1/4
Amount of fresh water used (Recycled water)	25,500 m ³ /day (24,000 m ³ /day)	750,000 m³/day (690,000 m³/day)	4,500 m³/day (1,500 m³/day)
Amount of sea water used	144,000 m ³ /day	1,000,000 m ³ /day	150,000 m³/day
	111,000 111 (00)		
6. Transport facilities			
Port facility		14 10	14 17
Depth of water x No. of berth	-25 m x 2B	-14 m x 1B	-14 m x 1B - 8 m x 1B
Na. 4. 1. 1. 1. 1. 41. 4	-10 m x 10B	-10 m x 10B	
Material to be handled Railroad cargo loading & unloadin	Crude oil, oil products Necessary	Naphtha, products Necessary	Raw material salt, product: Necessary
facility	D tiennamil	1100000011	
Truck loading & unloading facility	Necessary	Necessary	Necessary
7. Amount of cargo transported	ton/year		
Ship Raw material Products	Crude oil 11,200,000 8,960,000	550,000 ton/year 790,000 ton/year	288,000 ton/year 80,000 ton/year
Railroad Raw material Products	:	45,000 ton/year	80,000 ton/year
Truck Raw material	Products 2,240,000 ton/ year		1,500 ton/year
Products	, vai	65,000 ton/year	60,000 ton/year

Location Specifications for Model Plant (2)

Synthetic detergent (I) (2.3.	Syı	thetic detergent	(II)	Syntl	netic textile (N)	/lon)	Synthetic	textile (Polyest
Grain detergent: 5,000 Liquid detergent: 2,000	n/month	Į.	ton/m r detergent: 5,0 d detergent: 2,5	00		lon filament 20 ton/day			er staple
	Salar Salar	Wash	ing agent: 2,5	00	r Vajastis				
:			e e e e e e e e e e e e e e e e e e e						
			1				*** * * *		The second second
									ing page 1947
7,000 m ³			5,000 m ²		+ #11.	50,000 m ²			0,000 m ²
13,000 m²			7,000 m²		•.	10,000 m²			0,000 m ²
1,000 m²			1,000 m²					11.	and expanding
1,000 111			1,500 m ²		-	2,000 m ²		٠.	2,000 m²
(Included in area for road)	÷		1,000 m ²			2,000 in 2,000 in ²			1,000 m ²
2,000 m ²			3,000 m ²			5,000 m ²			3,000 m ²
1,000 m²			1,500 m ²			3,000 m ²			3 000 m ²
17,000 m²	•		13,000 m ²			80,000 m²			3,000 m²
20,000 m²	,		16,000 m ²	4.1		28,000 m²			8,000 m²
4,000 m ²			1,000 m ²			20,000 m ³		1	0,000 m²
65,000 m ²			50,000 m ²			200,000 m²		1	0,000 m²
		İ							
3,000 KW			3,000 KW		¥.	20,000 KW		, 1	0,000 KW
()			(-)			(-)	*** .		(- -)
	:					10,000 KW			- -
3,000 KW			3,000 KW			30,000 KW		,	0,000 KW
020	,	100							
230 (45)	180	(50	,)	800	(250)	265	(15
(-)			(-)			(-)			(-)
20 (5)	60	(20)	200	(50)	35	(5
250 (50)	240	(70)	1,000	(300)	300	(20
7,700 m³/day			12,000 m ³ /day			110,000 m ³ /da	ıy		,000 m³/day
$(7,000 \text{ m}^3/\text{day})$			(11,500 m ³ /day)		(90,000 m³/da	ıy)	(56	,000 m ³ /day)
-				4		_			·
						-			200
6 m x 1B			-5 m x 1B			Unnecessary		Ur	inecessary
Alkyl benzen and other		Aiky	benzen and othe	r					
Unnecessary			Necessary			Necessary		Ne	cessary
Necessary			Necessary			Necessary		· Ne	cessary
						•			
32,000 ton/year		19	0,000 ton/year			· - ·			• • • • • • • • • • • • • • • • • • •
<u></u>			- 5,000 ton/year		23	– 000 ton/year		21 00	0 ton/year
₩			0,000 ton/year			-		21,00	
30,000 ton/year 84,000 ton/year		40	0,000 ton/year		23,	000 ton/year		34,00	0 ton/year
ov, coo tony car		l ^	0,000 ton/year		. 43,	800 ton/year	l	30,30	0 ton/year

Location Specification for Model Plant (3)

tem pro-	Iron and steel, Consistent production	Special steel	Copper refinery
1. Capacity of model plant	Crude steel 12,000,000 ton/year	Crude steel 36,500 ton/month	Electrolytic copper 100,000 ton/year Sulfuric acid 359,000 ton/year
	•		
Classification of utilization of plant site			
Area for:			
Production facilities	2,700,000 m ³	129,400 m ²	55,700 m ²
Storage facility	1,350,000 m ²	30,000 m²	33,400 m ²
Transport facility			
(Port facility))	7,000 m ³	4,800 m²
(Railroad facility)	675,000 m²	20,000 m ³	= 4
(Trucking facility)	,	-	4,500 m ²
Pollution prevention facility	675,000 m ²	15,000 m ¹	2,600 m ²
Administration		27,400 m ²	4,500 m ²
Area for environmental facility	3,375,000 m ²	102,000 m²	16,700 m ²
Road (including parking space)	1,350,000 m²	73,100 m²	32,200 m²
Other space	3,370,000 m ²	26,100 m ²	15,900 m²
Total	13,500,000 m ²	430,000 m²	170,300 m²
3. Power facilities		£0,000 PW	18,000 KW
Contract power	300,000 KW	60,000 KW	18,000 KW
Common generating station (Amount of power received)	1,200,000 KW (600,000 KW)	- -	2,500 KW
Private power generating station	~ .	-	20,500 KW
Total	900,000 KW	60,000 KW	20,500 KH
4. Employees		1	
Regular employees	7,500 ()	1,000 ()	225 (20)
Temporary employees (No. of part timer)	(–)	(~)·	(-)
Sub-contract employees	7,500 ()	1,000 ()	25 (10)
Total	15,000 ()	2,000 ()	280 (30)
5. Amount of industrial water used			
Amount of fresh water used (Recycled water)	4,600,000 m ³ /day (4,370,000 m ³ /day)	138,000 m³/day (120,000 m³/day)	5,900 m³/day (4,000 m³/day)
Amount of sea water used	4,300,000 m3/day	_	130,000 m³/day
6. Transport facilities			
Port facility		4 45	10m = 1B
Depth of water x No. of berth	-23m x 2B For export	-6 m x 2B	-10m x 1B - 6m x 2B
Material to be handled	-13m x 10B) trade - 9m x 1B) For domes-		
Railroad cargo loading &	-7.5m x13B) tic trade Necessary	Unnecessary	Unnecessary
unloading facility Truck loading & unloading facility	Necessary	Necessary	Necessary
7. Amount of cargo transported			
Ship Raw material Products	22,500,000 ton/year 10,800,000 ton/year	30,000 ton/year 300,000 ton/year	494,800 ton/year 729,900 ton/year
Railroad Raw meterial Products			
Truck Raw material Products		400,000 ton/year 60,000 ton/year	26,550 ton/year

Location Specifications for Model Plant (4)

Aluminum refinery	Aluminum rolling (rolling)	Aluminum tolling (extruding)	Electric wire (large)	Electric wire (small)
Aluminum raw metal 165,000 ton/year	Rolled aluminum products	Aluminum extruded products:	Copper coarse wire: 10,000 ton/month	Covered electric wire: 800 ton/month
103,000 toniyeat	30,000 ton/month	5,000 ton/month	Winding: 1,417 ton/month	·
· .			Covered wire cable:	·
			625 ton/month	
136,000 m ²	150,000 m²	70,000 m²	60,000 m³	21,000 m²
18,000 m ²	. 	10,000 m²	25,000 m²	7,000 m ²
			<u>_</u>	
-	_		· :	and the state of t
<i>a.</i> - 1	15,000 m²	-	(Included in areas for storage facility)	1,400 m ²
42,000 m ²	15,000 m ²	5,000 m²	2,000 m ²	1,400 m²
2,000 m ²	15,000 m ²	10,000 m ²	21,000 m ²	1,400 m²
200,000 m ²	150,000 m²	50,000 m²	72,000 m²	21,000 m ²
65,000 m ²	100,000 m ²	40,000 m²	60,000 m²	10,500 m ²
137,000 m ²	55,000 m²	15,000 m ²	123,000 m²	6,300 m ²
600,000 m²	500,000 m²	200,000 m²	363,000 m²	70,000 m ²
		a de la companya de l		
- ·	70,000 kW	15,000 kW	6,000 kW	3,000 kW
-		- · ·	·	_
330,000 kW	-		(For emergency) 3,000 kW	
-330,000 kW	70,000 kW	15,000 kW	6,000 kW	3,000 kW
,				
00 (40)	1,300 (250)	1,100 (100)	630 (95)	320 (70
- (40)	_ (230)	300 (100)		80 (30
(-)	(-)	(-)	· (–)	(-)
00 (10)	200	-	60 (15)	-
,200 (50)	1,500 (250)	1,400 (200)	690 (110)	400 (100
6,000 m ³ /day ()	360,000 m³/day (330,000 m³/day)	80,000 m ³ /day (72,000 m ³ /day)	58,000 m³/day (56,000 m³/day)	10,000 m ³ /day (9,000 m ³ /day)
~~	-		· -	-
$(x_1, x_2, \dots, x_n) \in \mathbb{R}^n$				
•		in the second		e est est est de la constant
Unnecessary	Unnecessary	Unnecessary	Unnecessary	Unnecessary
		•		. v % 1
		:		
Unnecessary	Unnecessary	Unnecessary	Unnecessary	Unnecessary
Unnecessary	Necessary	Necessary	Necessary	Unnecessary
		21-22-11-1		
dumina				
332,800 ton/year 93,000 ton/year				- · · · · · · · · · · · · · · · · · · ·
oai 660,000 ton/year			**	1 <u>1</u> 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
- ′			·	
okes 200,000 ton/year	500,000 ton/year	112,500 ton/year	155,000 ton/year	13,650 ton/year

Location Specification for Model Plant (5)

	Item	Construction machine	Agricultural machine	Plant	
1.	Capacity of model plant	Bulldozer: (17 ton type); 340 units/month Power shovel (11 ton type); 300 units/month	Tractor 5,000 units/month	Chemical machine 13,000 ton/year Wind power machine 90 unit/year Turbine (15,000kW) 6 units/year	
				Boiler (100 ton/H); 20 can/year	
2.	Classification of utilization of plant site				
	Area for:				
	Production facilities	250,000 m²	50,000 m ²	340,000 m ²	
	Storage facility	20,000 m²	-	60,000 m²	
	Transport facility				
	(Port facility)	-	_	16,000 m ²	
	(Railroad facility)	-	_	_	
	(Trucking facility)	5,000 m²		_	
	Pollution prevention facility	(Included in environmental facility)	20,000 m²	30,000 m²	
	Administration	75,000 m ²	10,000 m ²	80,000 m ²	
	Area for environmental facility	150,000 m²	20,000 m²	200,000 m²	
	Road (including parking area) Other space	70,000 m³	20,000 m²	60,000 m²	
	Total	570,000 m²	120,000 m²	786,000 m²	
3.	Power facilities				
	Contract power	12,000 kW	4,500 kW	15,000 kW - (-) -	
	Common generating station (Amount of power received)	(-)	(-)		
	Private power generating station	-	~		
٠	Total	12,000 kW	4,500 kW	15,000 kW	
4.	Employees				
	Regular employees	1,500 (80)	500 (50)	3,600 (300)	
	Temporary employees (No. of part timer)	_ ()	(-)	(-)	
	Sub-contract employees	-	_	400 (40)	
	Total	1,500 (80)	500 (50)	4,000 (340)	
5.	Amount of industrial water used			0.700 3.11	
	Amount of fresh water used (Recycled water)	3,000 m ³ /day (1,000 m ³ /day)	500 m³/day ()	8,700 m³/day (6,500 m³/day)	
	Amount of sea water used		-	_	
5.	Transport facilities				
	Port facility				
	Depth of water x No. of berth Material to be handled	Unnecessary	Unnecessary	-4m x 1B	
Material to be handled Railroad cargo loading & unloading facility		Unnecessary	Unnecessary	Unnecessary	
	Truck loading & unloading facility	Necessary	Unnecessar	Unnecessary	
7.	Amount of cargo transported				
	Ship Raw material Products	, me		15,600 ton/year 20,500 ton/year	
	Railroad Raw material Products	<u> </u>			
	Truck Raw material Products	120,000 ton/year 110,000 ton/year	64,000 ton/year 60,000 ton/year	70,000 ton/year 30,150 ton/year	

Location Specifications for Model Plant (6)

Pollution prevention equipment (Air system)	Pollution prevention equip- ment (Water quality system)	Copying machine	Heavy electric machine	Color television set
Bag filter filtering area: 3,600 m ³ /month	Plant waste water disposal system: 80 Units/year	Copying machine 5,000 units/month	Large scale transformer ¥2,000,000,000/month	Color television receiver 60,000 units/month
	Living waste water disposal	1.04-44.4		
	system: 20 Units/year			<u>.</u>
			·	
1.2 4.2		,		
				marija semena jezi 🔾
				1 6.6167
			,	
6,000 m ²	2,500 m ²	5,000 m³	44,000 m ²	85,000 m ²
2,000 m ²	500 m ²	-	11,000 m²	3,000 m²
		•		
- *	u.	: 	1,000 m ²	
_	·	-	8,000 m²	ing the Hills of
_	500 m ³		1,000 m²	400 m²
20 m²	500 m²	1,000 m²	3,000 m³	100 m²
	300 m			the gas, second to
1,730 m²		1,000 m ²	2,000 m²	1,500 m²
7,440 m²	500 m²	5,000 m²	70,000 m²	20,000 m ²
4,980 m²	500 m²	8,000 m²	35,000 m ²	20,000 m ²
14,830 m²	a	_	75,000 m ²	-
37,000 m²	5,000 m ²	20,000 m²	250,000 m²	130,000 m²
398 kW	3,000 kW	6,500 kW	12,000 kW	5,000 kW
_ ()	_ (-)	(-)	(-)	
_	_	~	<u> </u>	500 kW
398 kW	3,000 kW	6,500 kW	12,000 kW	5,500 kW
	•	,		
160 (06)	400 (00	4.50		
150 (25)	200 (20)	150 (50)	730 (50)	1,880 (1,080)
_ (-)	_ (_)	50 (50) (50 (50)	(-)	120 (120) (120 (120)
4 (-)	50 ()		20 (-)	_ ``
154 (25)	250 (20)	200 (100)	750 (50)	2,000 (1,200)
	,	(-5,	,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
100 3/4	100 -111	400 344		- i
180 m³/day (17 m³/day)	100 m³/day ()	100 m³/day	900 m³/day (400 m³/day)	600 m³/day (100 m³/day)
-	, ,	`	(100 111 / 1027)	(100 iii /au)/
				and the second second
		,		
Unnecessary	Unnecessary	Unnecessary	5 m x 1B	Unnecessary
Unnecessary	Unnecessary	Unnecessary		er i 🐠 er e valad had
	·		Necessary	Unnecessary
Necessary	Necessary	Necessary	Necessary	Necessary
			:	
	-	-	-	in the second second
-			8,000 ton/year	
	<u>-</u>		5 000 ton/man	,
11,000 ton/year	1,000 ton/year	2,800 ton/year 4,300 ton/year	5,000 ton/year 20,000 ton/year	720,000 units/year 720,000 units/year

Location Specification for Model Plant (7)

Item	Room air-conditioner	Tape recorder	Electric refrigerator	
1. Capacity of model plant	Room air-conditioner 500,000 units/year	Tape recorder 20,000 units/month	Less than 1500 200,000 units/year More than 1502	
1000 cm - 1000 c			800,000 units/year	
· ·	, , , to see an		Į	
O Object Constitution of Continue to the Continue of C	;			
2. Classification of utilization of plant site				
Area for:				
Production facilities	30,000 m²	5,000 m ²	61,000 m²	
Storage facility	2,000 m²	300 m²	5,000 m²	
Transport facility	•			
(Port facility)		_	-	
(Railroad facility)	3,000 m²	-	_	
(Trucking facility)	2,000 m²	200 m²	7,000 m²	
Pollution prevention facility	2,000 m²	100 m ²	6,000 m²	
Administration	1,500 m ³	200 m²	20,000 m ²	
Area for environmental facility	23,000 m ²	500 m ²	63,000 m ²	
Road (including palking space)	27,000 m ²	1,000 m²	30,000 m²	
Other space	-	-	8,000 m²	
Total	90,000 m²	7,300 m²	200,000 m²	
3. Power facilities				
Contract power	3,500 kW	300 kW	10,000 kW	
Common generating station	_		-	
(Amount of power received)	. –	-	_	
Private power generating station	300 kW		***	
Total	3,800 kW	300 kW	10,000 kW	
4. Employees				
Regular employees	900 (300)	150 (120)	2,700 (400	
Temporary employees	80 (60)	50 (50)		
(No. of part timer)	[30 (30)]		[-]	
Sub-contract employees	20 (10)	_	30 (10	
Total	1,000 (370)	200 (170)	2,730 (410	
5. Amount of industrial water used				
Amount of fresh water used	2,000 m³/day	60 m³ /day	5,500 m³/day	
(Recycle water)	(1,000 m ³ /day)	()	(2,500 m ³ /day)	
Amount of sea water used	-		→	
. Transport facilities				
Port facility				
Depth of water x No, of berth	Unnecessary	Unnecessary	Unnecessary	
Material to be handled	-		•	
Railroad cargo loading & unloading	Necessary	Unnecessary	Unnecessary	
facility		• · · · · · · · · · · · · · · · · · · ·	•	
Truck loading & unloading facility	Necessary	Necessary	Necessary	
7. Amount of cargo transported				
Ship Raw material Products		 -	Ξ.	
Pailtord Raw material	 	~	-	
Products	200,000 units/year	-		
Truck Raw material Products	500,000 units/year 200,000 units/year	120,000 units/year 120,000 units/year	66,000 ton/year 64,000 ton/year	

Location Specifications for Model Plant (8)

Electronic computers	Telephone exchange	Industrial measuring instrument	Automobile (Passenger car)	Automobile (Truck)
Large scale computer: 20 units/month Medium scale computer: 20 units/month	Automatic exchange: ¥35,000,000,000/year (Electronic exchange: About 80 stations)	Power receiving adjusting meter: ¥6,000,000,000/year Converter, ¥2,500,000,000/year Detector, auxiliary device: ¥1,500,000,000/year	Passenger car: 30,000 units/month	Medium size truck: 2,500 units/month Large size truck: 6~8 ton; 1,000 units/ 10~12ton;1,500 month
25,000 m ² (Included in area for	44,000 m² 3,000 m²	6,600 m² 990 m²	380,000 m² 20,000 m²	290,000 m² 15,000 m²
production facilities) -	-	~ .]	in Alberta de la composition della composition d
_ 2,000 m²	1,500 m²	- 330 m² 660 m²	300,000 m ² 40,000 m ²	70,000 m² 30,000 m²
2,000 m ² 18,000 m ²	1,500 m ² 1,500 m ²	3,300 m ² 19,800 m ²	5,000 m ² 380,000 m ²	4,000 m² 253,000 m²
13,000 m ² 10,000 m ² 70,000 m ³	30,000 m ² 10,000 m ² 370,000 m ²	7,920 m² 39,600 m²	220,000 m² 150,000 m² 1,495,000 m²	200,000 m ² 150,000 m ² 1,012,000 m ²
7,000 kW	13,000 kW	1,500 kW	80,000 kW	32,000 kW
(-) 1,000 kW	(-) 1,000 kW	(-)	() 4,000 kW	(–) 2,000 kW
8,000 kW	14,000 kW	1,500 kW	84,000 kW	34,000 kW
1,900 (900) 100 (100) [50 (50)]	2,400 (900) [-]	600 (150) 70 (60) [55 (55)]	10,000 (200) [-]	4,600 (100) [-]
2,000 (1,000)	30 (150) 2,700 (1,050)	10 (5) 680 (215)	100 (50) 10,100 (250)	4,650 (20)
1,500 m³ /day (700 m³ /day)	36,000 m³/day (35,000 m³/day)	500 m³ /day (—)	165,000 m³/day (150,000 m³/day)	125,000 m³/day (115,000 m³/day)
	-	· <u>-</u>	-	. — .
Unnecessary	Unnecessary	Unnecessary	-10 m x 1B 7 m x 2B	Unnecessary
Unnecessary	Unnecessary	Unnecessary	Necessary	Unnecessary
Unnecessary	Necessary	Necessary	Necessary	Necessary
~ -	- -		50,000 ton/year 255,000 ton/year	
7,000 ton/year 7,000 ton/year	2,200 ton/year 2,000 ton/year	550 ton/year 480 ton/year	20,000 ton/year 400,000 ton/year 95,000 ton/year	490,000 ton/year 334,000 ton/year 80,000 ton/year

Location Specifications for Model Plant (9)

	Item	Motorcycle	Shipbuilding	Wrist watch (1)
1.	Capacity of model plant	Less than 50cc: 20,000 units/month 51~125 cc: 26,000 units/month 126~250 cc: 4,000 units/month	Large tanker: (ships/year) 300,000 DWT x 4 Freighter: 30,000 DWT x 10 Vessel for repair: 2,600,000 DWT x 33	Wrist watch 100,000 units/month
2.	Classification of utilization of plant site		·	
	Area for:			1
}	Production facilities	66,000 m²	300,000 m²	5,000 m ²
	Storage facility	10,000 m²	65,000 m²	100 m ²
	Transport facility			
1	(Port facility)	_	<u> -</u>	<u> </u>
	(Railroad facility)	_	_	_
١.	(Trucking facility)	_	_	100 m ²
	Pollution prevention facility	10,000 m ²	52,000 m ²	200 m ²
	Administration	3,000 m ²	20,000 m ²	150 m²
	Area for environmental facility	56,000 m²	250,000 m ²	50,000 m ²
	Road (including parking space)	40,000 m²	120,000 m ²	2,000 m ²
ŀ	Other space	37,000 m²	193,000 m ²	-
	Total	222,000 m²	1,000,000 m ²	57,550 m ²
_				
3.	Power facilities	44.000.111		1 000 1 111
	Contract power	12,000 kW	10,000 kW	1,000 kW
Ì	Common generating station (Amount of power received)	(- -)	(-)	()
	Private power generating	1,000 kW		
	Total	13,000 kW	10,000 kW	1,000 kW
		20,000		
4.	Employees			
	Regular employees	1,500 (300)	1,260 (50)	270 (170)
	Temporary employees (No. of part timer)	250 (50)	(<u>-</u>)	[50 (50) [50 (50)]
]	Sub-contract employees	30 (10)	540 (20)	100 (70)
	Total	1,770 (360)	1,800 (70)	420 (290)
		,	,	,
5.	Amount of industrial water used			
	Amount of fresh water used (Recycled water)	26,500 m³/day (24,000 m³/day)	2,400 m ³ /day (120 m ³ /day)	500 m³/day (100 m³/day)
	Amount of sea water used	(24,000 iii /day)	1,500 m ³ /day	(100 111 /443)
	Amount of sea water used	-	1,500 iii /day	
6.	Transport facilities			
	Port facility			
1	Depth of water x No. of berth	Unnecessary	-6m x 2B	Unnecessary
	Material to handled			
:	Railroad cargo loading & unloading facility	Unnecessary	Unnecessary	Unnecessary
	Truck loading & unloading facility	Necessary	Necessary	Necessary
7.	Amount of cargo transported			
	Ship Raw material Products	10 	222,000 ton/year	-
	Railroad Raw material Products		-	
	Truck Raw material Products	95,000 ton/year 51,000 ton/year	30,500 ton/year	300 ton/year 150 ton/year

Location Specifications for Model Plant (10)

Wrist watch (II)	Camera	Medical treatment equipment (I)	Medical treatment equipment (II)	
Wrist watch (Quartz type) 400,000 units/month	Camera 50,000 units/month	Large scale equipment: 100 units/month Pathological equipment: 200 units/month Other: 200 units/month	Obsterics and gynecology, pediatric equipment: ¥4,000,000,000/year	
			v, t	
11,500 m²	19,000 m² 4,000 m²	16,500 m ²	5,000 m²	
- 50 m²	4,000 111			
<u></u>	_ .	-	-	
***		-	'- .	
· •••	500 m²	-	 	
1,400 m ²	1,000 m²	165 m²		
4,550 m²	1,200 m²	1,650 m²	1,000 m ²	
16,700 m ²	40,500 m ²	7,300 m ²	1,500 m ²	
7,700 m ²	3,800 m²	2,000 m ²	1,000 m²	
6,000 m²	30,000 m²	990 m²	- `	
47,900 m ²	100,000 m²	29,205 m²	8,500 m	
1,950 kW	2,500 kW	500 kW	300 kW	
_ (-)		(-)	(-)	
400 kW	(=)		(-)	
2,350 kW	2,500 kW	500 kW	300 kW	
			4.5	
870 (230)	1,000 (600)	284 (44)	140 (20)	
450 (400) (-)	100 (100) (100 (100)	16 (6) (16 (6)	60 (50) (45 (45)	
(-)	40 (10)		_ (10	
1,320 (630)	1,140 (710)	300 (50)	200 (70)	
830 m³/day ()	600 m³/day (200 m³/day)	200 m ³ /day (160 m ³ /day)	60 m³/day ()	
		;		
Unnecessary	Unnecessary	Unnecessary	Unnecessary	
Unnecessary	Unnecessary	Unnecessary	Unnecessary	
Necessary	Necessary	Unnecessary	Unnecessary	
-	- .	·	· <u>-</u>	
_	_		.	
		720 ton/year		
400 ton/year	700 ton/year	1,440 ton/year	500 ton/year	
190 ton/year	600,000 ton/year	720 ton/year	500 ton/year	

7. Industrial	Estate, its	facilities ar	nd Services
			er er er er er er er er er er er er er e
			:
		·	

Table-35 Laem Chabang New Town Community Plan

1. Master Plan

To construct a new community for workers who will increase in LCB industrial area and manage community services such as school, hospital, health center and police station.

2. Housing Demand Estimation in LCB New Town

Estimated number of laborers which is expected to increase:

- Directly increasing laborers

	Total labour	Labour at
		new town
Export Processing Zone (EPZ)	5,430	
General Industrial Estate (GIE)	4,040	9,540
Port	7,200	
- Additional effects	8,130	2,560
- TORC, ESSO, SRI	3,000	400
Total	27,800	12,600

Remarks - Not include the government officials and state enterprise officials who may increase.

- People at new town = $12,600 \times 1.92 = 24,000$ persons.

The number of labour at new town is 12,600 persons, dwelling demand of which amounts to 5,133 units, which will be classified by income level, home style, kind of rent/purchase and size as shown in the following.

3. Demand of Housing Needed

Number of labour in new town is 12,600. Housing needed are about 5,133 units.

Details are as follows: The constitution of th

		<u> 1. km. ktaly im.</u>		
Target Group	Domestic Income (baht/month)	Type c Purchase	f Housi Rent	-
- Administrator	over 9,000	330	***	330
- Technician	5,000 -9,000	755	548	1,303
- Non-skilled labour	under 5,000	1,120	2,380	3,500
Total		2,205	2,928	5,133

4. Demand of Land and Housing Style Divided

Estimated land expropriation for new town is about 380 rai. which will be used for housing, public utility and infrastructure.

Target Group	Size of Land (rai)	Home Style	No. Re- (unit) marks
- Administrator		- single 2 floors	
	180	- double 2 floors	
- Technician		- row 2 floors	1,085
		- commercial bldg	
- Non-skilled	200	- flat 5 floors	2,928
labor		- row 1 floor	1,120
Total	380		5,133

5. Project Investment

- Land: National Housing Authority (NHA) will arrange the project of 380 rai expropriation. The project will be divided into 2 sectors:

 Rent Project (200 rai) and Purchase Project (180 rai)
- Public Utility: For low income group, 80% of the budget comes from NHA and 20% is provided by government subsidy. For middle and high income group, total budget comes from NHA.
 - Infrastructure: The budget for stadium community center, school and health center construction comes from the government budget and implementing agencies.
 - Building Construction: The total budget for building construction comes from NHA's budget.
 - Financial Sources: Local loan and mobile fund from income of NHA (10%).
 - Investment Reimbursement: 70% of building is rented to low income group and the investment cost for building construction is expected to get from long-term rent. The rent will be adjusted every 10 years. Other 30% is purchased with the price to be paid at a premium within 15 - 20 years.

6. Process

The process of NHA is divided into 3 stages.

- First stage: 1988 - 1990 1,012 units

- Second stage: 1990 - 1991 1,012 units

- Third stage: 1991 - 1993 3,109 units

(Total 5,133 untis)

Table-36 Outline of Example of Industrial Park in Japan

Outline of Kanazawa Industrial Park

Location:

Relaimed area No. 3, Kanagawa-chisaki, Yokohama

City, Kanagawa Prefecture

Area:

227 ha

Main line of

firms located:

Machinery/metal-affiliated manufacture, chemicals

and construction work

Main facilities:

a) Park center (Yokohama City Kanazawa

Industrial Promotion Center)

- Main center:
exhibition room, post office, banking
organ, management consulting room, center
office, clinic and rental offices, etc.

- Sports center: Gymnasium, training room, dressing room, meeting room, etc.
- Service center:
 Restaurant, shops, tea room, conference
 room, study and training room
- Three sport grounds:
 Equipped with night lighting fixtures
- Two tennis courts:

 Equipped with night lighting fixtures,
 for the use at any weather

- Club house: Dressing room, shower room and locker
- Garden:
- b) Industrial wasted water disposal place
 - c) Park in the park
- d) Others, including bus stop

Main facilities in the adjacent area outside the park:

- a) Sewage facilities
- b) Cleaning plant
 - c) Reclamation plant
 - d) Housing complex, including school, and shopping center

Management and Operation body:

- a) Yokohama city Kanazawa Industrial Promotion Center (foundation); Control and management of park center
- b) Yokohama City: Maintenance of roads, park and other public facilities in the park

Other character-

istics:

- a) The Kanazawa Industrial Park Liaison

 Council has been established by the invited firms to engage in the negotiations and contacts between the invited firms and public organizations concerned, the information exchange and contacts between the firms and the presentation of requests to the organizations concerned.
- b) The park center is used not only for the benefit of the invited firms in the park but also for the promotion of minor firms in Yokohama City and the welfare of their employees.
- c) The park center is financed by the subsidies form Yokohama City and Kanagawa Prefecture, loan from Yokohama City, membership fee of firms and athletic facility use fees.

Outline of Keiyo Foods Industrial Park

Location:

Funabashi City, Chiba Prefecture (adjacent to the harbor)

Area:

67.5 ha

Main line of

firms located:

Food processing industry

Main

facilities:

- a) Piers for exclusive use ... 12m and 6m deep
- b) Rack for joint use ... 1,700m long
- c) Disaster prevention center

- d) Park center (Keiyo Foods Industrial Park Hall)
 - Office of Keiyo Foods Industrial Park
 Council (corporation)
 - Exhibition room

garan da karantari karantari karantari karantari karantari karantari karantari karantari karantari karantari k

- Research room
- Office of Keiyo Utility Co., Ltd.
- Conference room for joint use

Management and Operation body:

- Operation body: a) Keiyo Foods Industrial Park Council

 (corporation): in charge of soft service,

 This council is a non-profit foundation
 joined by all of the invited firms
- Adjustment of relations between the invited firms
 - Negotiations with government offices
 - Research of food quality control and safety control
 - Guidance to food consumers
 - b) Keyo Utility Co., Ltd.: in charge of hard service.This company is a private organization
 - Boiler-type independent power plant

invested by all of the invited firms

- Special high-voltage power receiving and transformer substation
 - Industrial water disposal facilities
 - Wasted water disposal facilities
 - Industrial wastes disposal facilities
 - Rack facilities for joint use
 - Disaster prevention center, equipped with computer and TV camera

Other

characteristics: a) Transportation and package companies as supporting firms are located in the park.

- b) Keiyo Utility Co., Ltd. manufactures fertilizers by dehydrating and drying sludge in the wasted water from the plants. Sales of the fertilizers are part of the working funds of the company.
- c) An agreement is concluded on the green ground in the compounds of firms.

Outline of Sapporo Techno Park

Location:

Sapporo City, Hokkaido Inland-type, adjacent to the airport

Area:

10.1 ha

Main line of firms located:

firms located: Electronics-related firms -research/development firms of soft-ware
technology or system technology for computer
and micro processor or those firms which have
this kind of research/development divisions

Main

facilities:

- a) Park center (Sapporo Electronics Center)
 - Test room opened to the citizens
 - Terminal room opened to the citizens
 - CAD room
 - Micro soft test room
- Information data room
 - Exhibition room
 - Multi-purpose hall for exhibition and other events
 - Constant temperature and moisture testing room
 - Restaurant and tea room
 - Cash dispenser
 - Auditorium for various lectures, association and sports activities
 - Shower room

- Barbershop
- Study and training room, conference room and resting room (for recess and doze)

المقرض والأنج ومندان والرازات

Constant sameth

town to the second of - Copy, center to 2/6/4/2 m

- Technology development room for rentages (available for 24 hours)
 - Warehouse
 - b) park (approximately 4.2 ha)

Land of the material and the second of the con-

c) LAN in the park:

Established by Sapporo City.

Underground wiring was constructed at the expenses of firms.

Management and Operation body:

- a) Sapporo Electronics Center (foundation):
 Control and management of the park center
- b) Sapporo City: Maintenance of roads, park and other public facilities in the park

Other

characteristics: a) Sapporo Electronics Center issues a monthly COMPLEX NEWS to introduce newly-established firm, exchange information between firms and promote the use of facilities.

- b) To keep beautiful appearance of the park, have been concluded. Agreements on the buildings and green grounds in the park.
- c) Green places and park account for approximately 40 percent of the park total area. In the area adjacent to the park, there are tennis courts, baseball ground, athletic track and field and swimming pool with warmed water.
- d) Sapporo Techno Park, which is close to the center of Sapporo City, is suitable enough for workes to lrave their residense, go shopping and have any amusement.

Table-37 Modes of Free Trade Regions

Mode	Objectives	Functions	Characteristics	Administration	Example
Free District, Transit Zone	Promotion of transit trade	The Free District recognizes processing remodeling, sorting, etc.) of cargoes in custody, while the Transit Zone simply recognizes transit trade.	* The zone is narrow, so administration is accomplished with ease. * Since processing and manufacturing are not permitted, imbalance with domestic industries is averted.	City, port authorities, etc.	Transit Zone: Thailand, India, etc., 14 countries and 37 ports. Free District: Yemden, West Germany, etc., 3 countries, 4 ports.
Free Port 759	Promotion of transit and processing trade	Remodeling, sorting, also mixing, processing, manufacture, sample display, etc., are permitted) (In general, processing and manufacture are placed under supervision of customs authorities. Domestic transactions of products possible.)	* The zone is narrow, so administration is accomplished with ease. * Residence not recognized, so there is no discrimination of ideologies between nationals.	States, cities, port authorities, etc.	Bremen, Hamburg (West Germany), etc., 4 countries and 7 ports.
Free Port City	Benefit of transit trade	Recognized in addition to Free Port Area characteristics are individual residence and tariff-free consumption of foreign commodities. (Even with a Free Port City, import is restricted and tariffs are imposed on some items, so no complete Free Port City exists.)	* The Free Port City itself thrives. * Wide region makes administration difficult. * Big influence exerted to other domestic ports and to residents outside the region.		Hong Kong (U.K.), Singapore, etc., 5 countries and 6 ports.

Mode	Objectives	Functions	Characteristics	Administration	Example
Export Processing Zone	Promotion of export processing trade	Prohibits passage and transit trade, permits export-oriented storage, display, remodeling, processing, etc. (Domestic use of goods prohibited, and customs clearance required for conveyance of raw materials to other regions and for reshipment of products.)	* Conduces to promotion of exports, creation of job opportunities, technology transfer, etc.	Export Processing Zone authorities, etc.	Musan (ROK) Gaoxiong, etc., 5 countries and 21 ports.
Poreign Trade Zone (U.S.)	Promotion of interna- tional and interstate trade	Permits cargo handling, storage, processing, manufacture and display for passage, transit and processing trade. (Processing and manufacturing operations are not limited to processing for export and for domestic use, but are normally supervised by customs authorities.)	* Conduces to creation of job opportunities and promotion of regional economies.	Cities, etc.	New York City, New Orleans, etc., 45 zones.

Source: Japan Tariff Association

Table-38 Characteristics of Free Trade Zones of Various Countries

Country/Zone	Objectives, State of Utilization	Benefits to Enterprises	Controls and Limitations
ROK (Masan, Export Processing Zone 174 ha)	Entry from foreign countries accepted favorably for increasing employment for technical improvement. Permits storage, recrating, processing and manufacture for export.	Clearance procedures are simplified conspicuously, and corporate as well as income taxes reduced with respect to foreign currencies and technologies introduced by venturing companies and their supporting companies.	Commodities conveyed inside or products manufactured inside cannot be conveyed into the domestic regions.
Taiwan (Gaoxiong Taizhong, etc.)	Export Processing Zone designed to increase employment and technical improvement. Being utilized for storage, display, and also for processing and manufacture for export.	Exemption of import duties and commodity taxes for facilities, machinery and raw materials used by venturing companies. Period of commodity storage unlimited.	Cannot be utilized simply for import into Taiwan or for transit purpose for export to third countries.
Hong Kong	All of Hong Kong is a Free Port Area enabling commodity storage, sorting, recrating, display, sale, loading and unloading.	All commodities tariff-free excepting for some specific items.	Tariff imposed on some items such as alcoholic beverages and tobacco. Strategic commodities require import permits.
Singapore	Tariff-imposed items are increasing due to industrialization and need to protect domestic products, but the entire country is still a socalled completely free port.	Import duties and other trade controls suppressed at minimum.	Special restrictions on carrying-in, operation and storage of hazardous items. Permit of customs authorities necessary in case of tariff-impossable items.

Limitations	n shipping into	ounds prohibited.	
Controls and Limitations	Tariff imposed when shipping into BC countries.	Retailing in compounds prohibited.	
Benefits to Enterprises	Tariff and value added tax exempted inside the compounds.	Exemption of federal and regional taxes, and reduction of income tax.	Tariff payments can be extended during storage, and processed products exported to third countries are tariff-exempt. When shipping to the domestic market the lower between the tax rates for products and for imported parts can be selected optionally.
Objectives, State of Utilization	Aim is to vitalize regional economy. Being utilized for storage, manufacture and processing.	Being utilized for storage, display, manufacture and processing.	Aims are to vitalize regional economy and to promote trade. Being utilized for processing for export and for deliveries to the domestic market.
Country/Zone	U.K. (North Ireland, etc., 6 places)	Panama	United States

Table-39 Examples of Industrial Parks in Asian Countries:

Outline of Hsinchu Science-Based Industrial Park, Taiwan

Location:

Hsinchu City, Hsin-chu Prefecture, Taiwan Inland-type and adjacent to the airport

Area:

264 ha

Main line of

firms located:

High technology industries, including computer, semiconductor and precise machinery. As of May, 1987, 59 companies are located in the park.

Main

facilities:

- a) Park control center (Park Control Bureau office)
- b) Standard plants (410-674 m²)
- c) Housing complex (for single person, two persons and family)
- d) Branches of governmental offices and commercial enterprises in Hsinchu Prefecture
 - Security guard companies
 - Bank and post office
 - Computer center
 - Customs house and taxation office
 - Bonded warehouses

- Land administration office
- School and clinic
 - Electric power company office and airline company office
 - Shopping center, sports and recreational facilities
 - National Employment Center

Management and Operation body:

- Operation body: a) Hsinchu Science-based Park Administration:

 Engaged in the following services in

 cooperation with the local agencies of the
 government
 - Acceptance of application for investment
 - Taxation, postal and communication services
 - Employment agency
 - Aid to plant consturction
 - Acceptance of application for company registration
 - Exchange education
 - Foreign currency treatment
 - Export/import procedures

- Financing

engeneralis i punktura keta mengelak kenadah beratuan kerajah beratuan

- Offer of hygienic and lodging facilities
- Warehouse storage and transportation

Other

characteristics: a) This park is Taiwan's only high technology industrial park. In Taiwan, the supply of industrial parks is larger than the demand for them. As of October, 1986, 76 industrial parks have been established ... total area is 10,646 ha.

医克勒曼氏 化氯化甲基磺基酚

- b) Most of the invited firms are based on the overseas Chinese and U.S. capital.
 - c) For those firms whose inroads are especially welcomed, land rent is exempted for five years, and other aid steps are taken.

Outline of Mansan Free Export Zone

Location:

Mansan, the Republic of Korea, Adjacent to the

harbor

Area:

81.4 ha

Main line of

firms located:

Labor-intensive light industry, including electric, electronics, metal and precise machinery

As of December, 1986, 76 companies are located in this free zone. Most of them are based on the Japanese capital.

 $\mathbf{Main}_{\mathcal{H}_{\mathcal{A}},\mathcal{H}_{\mathcal$

- facilities: a) Mansan Export Free Zone Control Office
 - b) Governmental organizations and facilities supporting the firms:
 - Customs house

Control of the second of the second

- Labor Department office
- Central heating/cooling facilities
- Post office

Control of the contro

and the second of the second o

- Quarantine office
- Oil supply office
- Telegram and telephone office
- Police station
 - Clinic
 - Immigration office
- Fire station
 - Restaurant
 - c) Private organizations supporting the firms:
 - Bank
 - Travel agency
 - Insurance company

- Transportation, warehouse, loading and packaging companies
- Customhouse broker
- Shops exclusively for foreigners
- Machine repairing companies

Main facilities outside the park:

- a) Apartment houses for foreigners
- b) Domestic-produced materials information center
- c) Golf links

Management and Operation body:

dy: Mansan Free Export Zone Control Center:

This center is given a power to handle all

matters without intervantion of the central
government.

Other

characteristics:

Powers of heads of various governmental organizations on the foreign currency, foreign trade and foreign exchange are assigned to the Mansan Free Export Zone Control Center. This center functions as a small government and works to simplify and quicken various administrative procedures.

Table-40 Foreign Trade Zone in the United States and Its
System

General

Purpose of FTZ

system:

Economic development of the area through the expansion of firms, location and the increase of employment apportunities

Business organization

(Those who can get

approval for the FTZ

system application):

Local self-government or public

organizations

Businesses allowed:

To engage in keeping in the storage, processing, inspecting, exhibiting and saling of goods with approval from the customhouse in the designated area.

Those granting approval:

Foreign Trade Area Committee (governmental

organization)

Favorable treatments granted in connection with customs:

- In principle, the goods storage period is unlimited.
- During the storage period, payment of custom duties is exempted.
- No taxes are levied on the export of processed goods to third countries.

- When the goods are shipped within the country, it is possible to select tariff of products or tariff of imported parts, whichever lower.

Management and Operation body of

FTZ: In principle, the control and management is independent. There are three forms of management and operation ...

- 1) led by public organizations,
- 2) led by private organizations and
- 3) jointly led by the public and private organizations.

Form of Management and Operation

Public organization:

- a) Business organization: Local government or public organizations
- . b) Management and operation body:

Local government or public organizations

c) Characteristics:

> About half of the existing free trade zones belong to this form. This form is apt to lack services for firms. In many cases where actual management and operation is entrusted to the specialist private companies, this form proves successful.

2. Private organization:

- a) Business organization: Local government or public organizations
 - b) Management and operation body: Private companies
 - Characteristics:
 This form, which is operated on the economic principle, can be carried out smoothly. In some cases, a transportation company, which is entrusted by firms with the transportation of goods, is engaged in the control and management of the free trade zone.
- 3. Jointly by public and private organizations:
 - a) Business organization: Non-profit corporation consisting of local self-government and private companies
 - b) Management and
 operation body:
 Non-profit corporation consisting
 of local self-government and
 private companies
 - c) Characteristics:

A non-profit corporation is formed jointly by the local self-government and private companies of the area. This corporation is engaged in the management with the approval from the authorities. In may cases, the management and operation body is engaged in the presentation on information to firms and the business procedures for the central government while the actual management and operation businesses are entrusted to the specialist private companies.

Conditions for FTZ

- 1. It is necessary that the management and operation body itself should have ample knowledge and knowhow about the customhouse business procedures and the preparation of documents to be submitted to the customhouse and the Department of Commerce.
- 2. It is required to establish a data control system (both hardware and software) which is capable of correctly grasping, by using the computer, the incoming, outgoing, storage and other flows of goods.
- 3. It is desirable to complete wide and careful business supporting services to firms, including consulting services for firms, goods storage and delivery services, computer control of orders received and placed and interpretation services while the business is negotiated.

FTN's characteristics and incentive for firms

- 1. Local self-government or public organizations receive the FTN designation or approval, but in principle, the management and operation is carried out independently by firms.
- In the FIN, firms in place of customhouse can engage in the storage, processing, exhibition, sales and inspection of goods.
- 3. Customhouse officers carry out the calculation of tariff and custom duties on the goods and non-periodical spot inspections but are not permanently stationed in the FTN.
- 4. The control organization in place of the customhouse keeps a correct record of the receiving, shipping and storage of goods in accordance with the customs law.

5. Thanks to the favorable treatment in connection with the custom duties, firms can expect easy financing and a cut in the commodity distribution expenses. Through the independent control of receiving, shipping, storage and processing of goods, firms can carry out their export/import businesses almost as they wish.

Table-41 Summary of interviews with some firmscurrently operating in the Thailand industrial complexes (their opinions on the management and operation of parks)

Name of industrial Interviewee Firms' opinions, desires and requests park Nava Nakorn Manufacturer, - It is inconvenient that city buses do not

- Industrial Company A Estate
- go through the industrial park. The company itself possesses a bus to transport the employees.
- In case of sea transportation, the customhouse procedures are too complicated. Even in case of air transportation, recently it takes longer to finish the procedures.
- Water pressure of water supply is low. In light of expansion of the park in the future, we are afraid of uneasy supply of electricity.
- Firm steps should be taken for the repair of roads and the maintenance of public facilities.
- Recently it has become difficult to obtain appropriate labor power.
- It is desirable that there should be more apartment houses and lodging facilities in the vicinity of the park.

Name of industrial Interviewee park	Firms' opinions, desires and requests
	More efforts should be made for the security and disaster prevention services and the maintenance of public facilities
en en en en en en en en en en en en en e	It is desirable that there should be public mass transportation means, including bus.
	There should be independent power supply service at the time of suspension of electric power or lowering of voltage.
	Introduction of material/parts suppliers or workers is desirable.
en en en en en en en en en en en en en e	Tele-communication facilities are not satisfactory.
	Services for procurement of working capital are required.
·	It is requested that customhouse procedures should be simplified and quickened.
	Procedures for immigration and residence approval should be simplified or quickened.
	The management and operation body should quickly response to the firms' requests for improvement.

Name of industrial park	Interviewee	Firms' opinions, desires and requests
Lat Kraban Industrial Estate	Company C, chemicals manufacturer	- It is desirable that there should be a soccer field equipped with night lighting fixtures.
		- Customhouse procedures should be simplified or quickened.
	e de la companya de l	- An electric supply system without suspension of power is desirable.
	e e	- Introduction of those companies for entrusted orders is desirable.
		- Services for coordination of labor- management relations are requested.
		 Supply of information by the management and operation body to firms is not satisfactory.
Lat Kraban Industrial Estate	Automobile assembly plant	 It is desirable that there should be facilities to weight and inspect products. It is requested that there should be professional training facilities, meeting places and amusement facilities inside and outside the park.
		- There should be a bus which can be jointly used by other companies.
		- Stable electric power supply system should be established.

Name of industrial Interviewee park	Firms' opinions, desires and requests
(Cont'd)	- Documentation procedures should be simplified or quickened.
Other enterprises	- Thai labor power is comparatively good. But Thai lacks staff of group leader level and engineers.
	- Generally speaking, maintenance of roads and sewage facilities in the park is not good.
	- Construction of facilities is not carried out as planned. In some cases, firms are forced to construct access roads by themselves.
	- It is imperative that banks, restaurants, amusement centers and recreation facilities should be constructed in the park.
	- Generally speaking, tele-communication facilities are not good.
	- It takes too long to finish customhouse procedures. Lots of goods are left untreated in the customhouse. May be an increasing number of parts and materials with which customhouse officers are not familialized are
	 imported. It is desirable that surveillance staff should be sent by the customhouse to the bonded warehouse.

FARETHAPEU-

:

Outline of Industrial Parks in Thailand (Based on the data of JETRO Bankgkok Center) Table-42

Demerits	Ground conditions are not good. This park has once suffered from floods.	Sale of land in lots is not promoted.	
Merits	This park is close to Bangkok City. Conditions good of location are good. Prices of land in lots are comparatively cheap.	Various special favorable Sale treatments are given to not those firms making an inroad into the EPZ. This park is close to the rail-way stations and airport.	Close to the harbor.
Total area	4465 rai (phase 1 - 3)	1780 rai	8070 rai
Location	Bangplee District, Samut Prakarn P.	Muang District, Lemphun Province	Muang District, Rayong Province
Development organization	National Housing Authority	I.E.A.T.	I.E.A.T.
Name of park	Bangplee Industrial Estate	Northern Region Industrial Estate	Map Ta Pud Industrial Estate
Table State of the	Industrial parks developed by public organiza- tions,	parks developed by private organiza-	

Demerits	It is difficult to expand the industrial park. There is a problem of public pollutation in the nearby housing area.	Maintenance of access roads to the park is not good. As the authorities were haste in selling the land in lots, they were not prudent in selecting kinds of firms to be located. In the park, there are plants arising a problem of contamination.
Merits	Close to the airport. Comparatively close to Bangkok.	Comparatively close to Bangkok. Conditinos of location are good. EPZ enjoys good reputation.
Total area	500 rai	5330 rai
Location	Nava Nakorn New Town, 20km north of the Don Muang Airport	Sukhumvit road by the Sukhumvit road Samut Prakarn P.
Development organization	Joint venture by five organizations including NHA.	I.E.A.T. and Thailand Industrial Real Estate Develop- ment Co.
Name of park	Nava Joint Nakorn New venture by Town and five organ Investment zations Promotion including Zone NHA.	Bangpoo Industrial Estate
:	(Cont'd)	

Name of park	Development organization	Location	Total area	Merits	Demerits
Sriracha Industrial Park	Saha Pathana Inter- Holding Co.	Sriracha District, Chonburi Province	1200 rai	Assistance services to firms are good.	Only those firms affiliated to the Saha group are allowed into this park.
Lat Kraban Industrial Estate Phase 3	Inter- national Resources Develop- ment Co.	Min Buri District, Bangkok	1103 rai	Close to Bangkok. Conditions of location are good. 30km to the harbor and 35km to the airport.	Ground conditions are not good.
Bangkadi Industrial Park	Bangkadi Industrial Park Co.	Muang District, Pathum Thani P.	1023 rai	Comparatively close to Bangkok (40km).	A plan to construct a housing area has been suspended.

Table-43 Employment in the Masan Free Export Region

Year	1971	1972	1973	1974	1975	1976	1977
Nationwide Manufac-	1,287,000	1,372,000	1,482,000	1,615,000	1,744,330		*
turing Industry(A)							•
2114415023 (11)		:				*	**
Masan (B)	1,248	7,106	21,240	20,822	20,953	29,600	29,214
Male (C)	129	1,054	3,965	5,626	5,610		
Female (D)	1,119	6,052	17,275	15,196	15,343	-	<u>.</u> -
(B) / (A)	0.097	0.52	1.43	1.29	1.20	-	÷
(D) / (B)	89.7	85.2	81.3	73.0	73.2	- -	· -

Source: Based upon data from the Industrial Zone Supervisory
Board and the Masan Free Export Zone Supervisory Office.

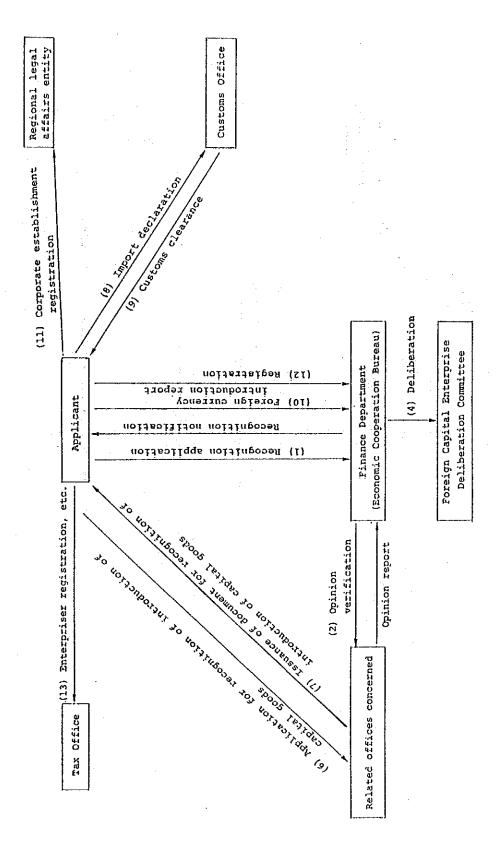
Table-44 Labor Force in the Taiwan EPZ (as of October 1975)

	Kaoshing	Nanpeng	Taichung	Total	Sex differen- tiated %tage
Male	5,923	1,981	1,424	9,328	16.4
Female	31,318	10,562	5,633	47,513	83.6
Total	37,241	12,543	7,057	56,841	100.0

Source: Processing Zone Monthly Statistical Report, October 1975.

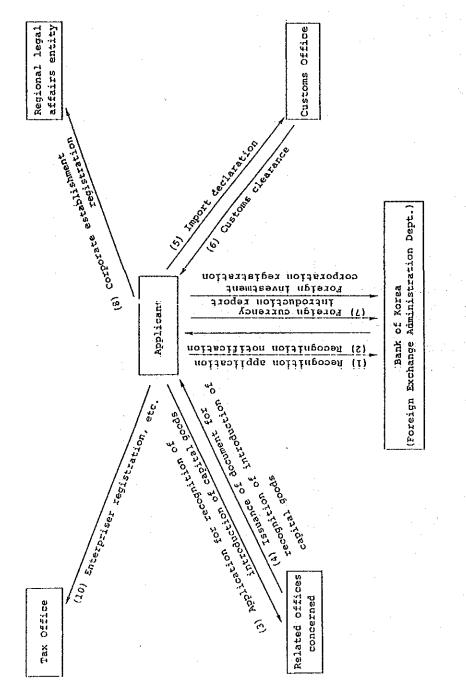
Table-45 Labor Force in the South Korean GIE (as of January 1978)

	Iri Industrial Complex	Changwou Industrial Complex	Kwangju Industrial Complex	Total for 3 Complexes	Sex diff. %tage
Male	2,868	2,567	3,579	9,014	50.4
Female	4,900	3,181	793	8,874	49.6
Total	7,768	5,748	4,372	17,888	100.0
Note*	Textiles 13 Leather 6 Elect. products 3 Packaged goods 2 Food products 3 Other 14	Textiles 9 Electric. 5 Chemical 4 Machine. 3 Leather 2 Other 15	Textiles 173 Machine. 64 Steel 5 Electric. 2 Chemical 4 Other 44	Textiles 195 Leather 8 Electric. 10 Machine. 68 Chemical 4 Other 196	



Reference document: Guide to Investment in Korea, ROK Finance
Department, Smaller Industries Promotion
Public Corporation, Economic Cooperation
87-10, P31

Fig.-1 Factory siting Application Procedures (1), Korea



Reference document: Guide to Investments in Korea, ROK Finance Department, Smaller Enterprises Promotion Public Corporation, Economic Cooperation 87-10, P30

ig.-2 Factory siting Application Procedures (2), Korea

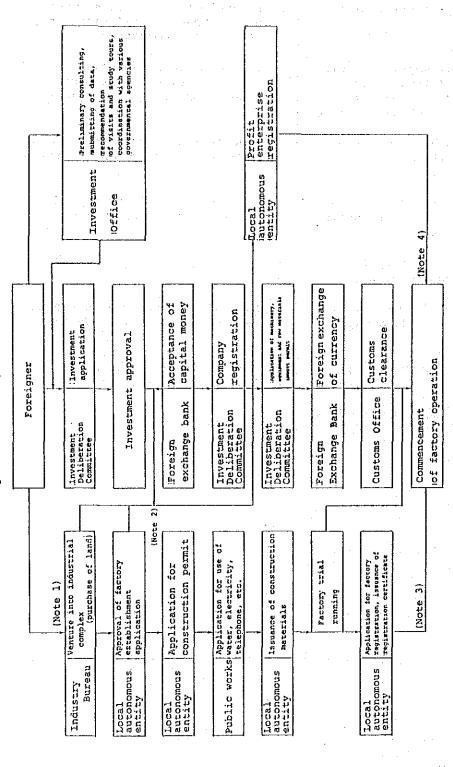
Procedures in Conformance with Free Export Zone Existing System Establishment Law 1. Approval of direct investment, 1. Approval of direct investment joint investment and technology and joint investment introduction contracts 1) Acceptance of approval appli-1) Acceptance of approval application (director of Masan Free cation form (Director of Zone Administration Agency) Economic Planning Agency) (Dispatch of application form) 2) Deliberation by director of 2) Deliberation by director of Masan Free Zone Administration related department Agency (within 50 days) 3) Approval by director of Masan 3) Deliberation and decision by Free Zone Administration foreign currency introduction inquiry committee Agency 4) Approval by director of Economic Planning Agency 2. Approval of cash loan contracts 2. Approval of cash loan contracts and capital goods introduction and capital goods introduction contracts contracts (Same as existing system 1) Acceptance of approval applidescribed at left) cation (director of Economic Planning Agency) (Dispatch of application form) 2) a. Study by director of related agency (within 50 days) b. Study of possibility of repayments of loans and interests to industrial bank 3) Decision by Foreign Currency Introduction Inquiry Committee

Reference document: Existing State of Establishment of Masan Free Export Zone, March 1970, P8

4) Approval by director of Economic Planning Agency

Fig.-3 Procedures for Application for Direct Investment, Joint Investment and Technology Introduction into Masan Free Export Zone

Flowsheet of Procedures for Investment and Factory Establishment by Foreigners



inotes). Entry lete the industrial demains and persons or [3], practical of insertial had with recommendation of the livericant Office, pales and site; asserting to impactment oppilisation form.

determinant to immediately special and in perillal vitali, formal factory specials the distriction of vermillar of the determinant of the desired of the determinant of the desired of the

emain unity, industrial gramm purioses of cental continuous and security replacements required as continuous and security replacements required and a security replacement of the continuous of the proceedings of the continuous of the proceedings of the continuous of the proceedings of the continuous of the continuous of the proceedings of the continuous
estated.
The precedure for introduced the copies of continue to the continue of the continue of the continue of the continue to the continue of the continue o

in the semany's pass start being bound the compression trailers than seminaries seminaries.

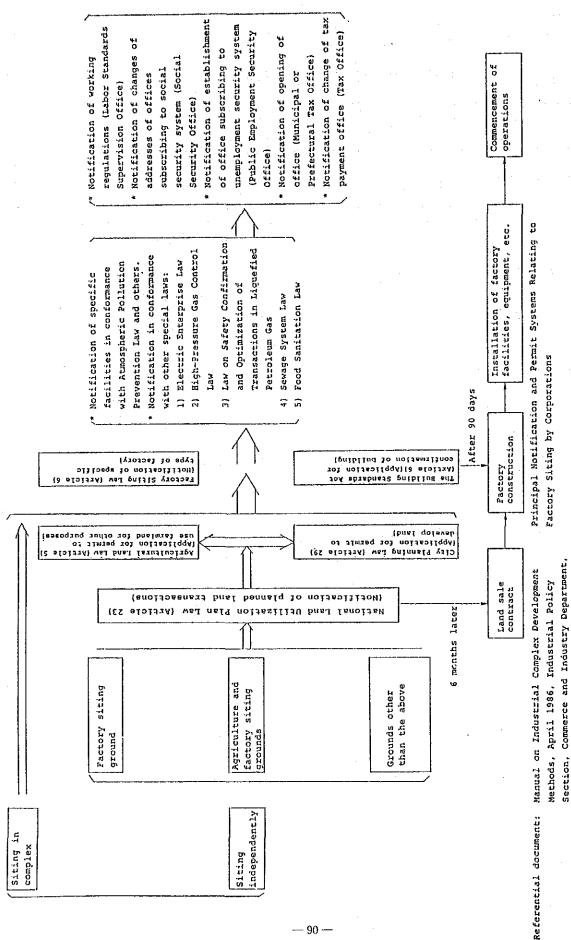
Factory siting Application Procedures, Taiwan

Fig. -4

Time Required	Acquisition of Investment Permit	Related Preparations
2 months	Preliminary survey Deliberation at head office	
	Filing of applications	
1.5 months		
	Letter of Notice Reply Letter	Company registration, stock payment, land procurement, land procurement, land preparation
5.5 months	Rescheduling	Factory establishment permit
	Promotion certificate	Commencement of factory construction
6 months		
3 months		Factory completed Operations permit Trial running
		Commencement of factory operation

Referential document: Guide to Corporate Establishment
Procedures in Thailand, Reference material
No. 162, JETRO Bangkok Center, Bangkok
Japanese Commerce and Trade Council, P9

Fig.-5 Procedures for Factory Siting Applications, Thailand



Procedures for Factory Siting Applications, Japan Fig. -6

Kanagawa Prefecture

8. Investment Seminar

Invest in Laem Chabang IE

The Office of the Eastern Seaboard Development Committee (OESB) and

The Industrial Estate Authority of Thailand (IEAT) in association with

Japan International Cooperation Agency (JICA)

request the pleasure of your attendance at a Seminar and Reception

on the Investment in the Laes Chabang EPZ/GIE

on Thursday November 17, 1988.

at *the Regent Bangkok* 155 Rajadamri Road, Bangkok 10500

Tel. No.: 251-6127

 \triangle Registration: 9:00 \sim 9:30

☆ Seminar : 9:30~12:00

and

☆ Reception : 12:00~13:30

IEAT

Enquiries : 253-0561

Ext.: 303

- * Please send back Reply Card until November 7, 1988.
- * First come, First sreved (120 persons only)

PROGRAMME

Thursday November 17, 1988. on 9:00 $\sim 13:30$ the ~ 10

at The Regent Bangkok 155 Rajadamri Road, Bangkok 10500 Tel. No.: 251-6127

[Seminar at Pimarnman Room 9:30~ 12:00]

1. Greeting Mr.Dusit Rangkasarit

2. Presentation

The Eastern Seaboard Development Programme-The major role of the National Economic Development in Thailand

> Dr. Savit Bhotiwihok Director / The Office of the Eastern Seaboard Development Committee

Assistant Minister / Ministry of Industry

The Laem Chabang EPZ/GIE Development Programme-The major role of the Laem Chabang EPZ/GIE on the Eastern Seaboard Development Programme and

Investment Promotion Strategies on the Laem Chabang EPZ/GIEJ

Mr.Prateeb Chantaketta Deputy Governor / Industrial Estate Authority of Thailand Dr.Sadakazu Iijima Leader / The Laem Chabang EPZ/GIE Industrial Promotion Study Team

3. Questions & Answers

≪by OESB/IEAT/Study Team≫

Reception at Ratanakosin Room $12:00 \sim 13:30$

	Reply Card
	Thursday November 17, 1988. OESB/IEAT Investment Seminar
	[] will attend Seminar & Reception
	[] will attend Seminar only
	[] will attend Reception only
	Your name
	Your firm & Position
· •.	Address
	Phone No.
	Engiries : IEAT TEL.: 253-0581 Ext:30

Front side of Card

stamp

Industrial Estate Authority of Thailand Planning & Analysis Division

618 Nikom Makkasan Road. Bangkok 10400

THE KINGDOM OF THAILAND

SUMMARY REPORT FOR

THE LAEM CHABANG EPZ/GIE INDUSTRIAL PROMOTION IN

THE KINGDOM OF THAILAND

NOVEMBER 17,1988

JAPAN INTERNATIONAL COOPERATION AGENCY

TABLE OF CONTENTS

1.	Industrial Development and its Role	
	in the Economic Growth of Thailand	1
2.	Objectives of the Laem Chabang Industrial	
	Estate Development	2
3.	Target Industries for the Laem Chabang	3

1. INDUSTRIAL DEVELOPMENT AND ITS ROLE IN THE ECONOMIC GROWTH OF THAILAND

The economy of Thailand has marked remarkable progress since the 1960's. During the 1950's GDP growth indicated an annual average growth rate of 4.7%. The following two decades GDP growth rate per anum jumped up to 7.9% and 6.9% in the 1960's and 1970's respectively. Early in the 1980's the growth rate declined to around 5% per anum, but still surpassed most other developing countries. This rapid economic growth was accomplished by a considerable increase in agricultural production and by industrial development.

The 1980's saw an emergence of manufacturing sector as a main foreign exchange earner. Utilizing skilled labor, and supported by the government, the manufacturing sector has grown to equal both in production and export of the agricultural sector which is still the backbone of Thailand. The exportation of textile products have shown rapid growth since the mid-1970's, and it became the NO.1 export item in 1985, superseding rice, which was traditionally the leading export commodity of Thailand.

The Sixth National Economic and Development Plan started in 1986 which marked the recovery of the Thai economy. The appreciation of Yen, and later other currencies of the NIEs, after the G-5 agreement 1985, strengthened in the export competitiveness Thai of the manufacturing sector. The appreciation of these traditionally export countries has also urged Japan, Korea, and Taiwan to search for alternative overseas production sites. Thailand, which has become the first destination for these countries, has been experiencing unprecedented investment boom since 1986.

Table 1-1 Trend of Key Economic Indicatores: 1961-91

						(Percent)
	Actual			Target		
	First Plan 1961-65	Second Plan 1967-71	Third Plan 1972-76	Fourth Plan 1977-81	Fifth Plan 1982-86	Sixth Plan 1987-91
Economic growth						
Agriculture	4.6	4.1	3.9	3.5	2.1	2.9
Industries	10.2	9.7	8.6	8.7	5.1	6.6
Total production	8.1	7.2	6.2	7.3	4.4	5.0
Exports: goods						
Annual value increase	8.7	4.1	14.0	20.0	8.4	10.7
Inflation	2.3	1.5	12.5	11.6	2.9	2.3
Current account deficit/GDE	, ,	2.5*	1.7	6.3	3.0	0.9
Budgetary cash deficit/GDP	0.7	2.9	2.7	3.3	3.4	2.6
					S	ource: NESDE

Ref: * Actual fig. of the last year of the planning period

2. OBJECTIVES OF LAEM CHABANG INDUSTRIAL ESTATE DEVELOPMENT

The Eastern Seaboard Development Program, which was initiated under the Fifth Plan, was handed down to the Sixth Plan as a top priority project. The major objectives of the Eastern Seaboard Development Program are:

- To accelerate the industrial growth rate
- To offer alternative industrial locations outside of Bangkok, and promote regional development
- To enhance the international competitiveness of the Thai economy in order to promote new industries and to attract foreign investments
- To provide jobs and facilities to encourage urban development away from Bangkok

The Eastern Seaboard Development Program consists of two industrial bases of distinctly different character, namely the Laem Chabang I.E. and the Map Ta Put I.E. The former is to help light labor intensive industries and the latter is to establish a chemical industrial complex utilizing natural gas produced in the Siam Bay.

The Laem Chabang I.E. is a strategic industrial base to be constructed to attract industries from the congested Bangkok areas and to enhance the international competitiveness of the Thai manufacturing sector with its improved infrastructures and the provision of EPZ.

At present, the international port of the country is limited to the Klong Toey Port, which is a river port on the Chao Phraya River 28 km from the ocean, therefore only 10,000 ton ship can enter it. The old facilities at the port can no longer cope with ever increasing volume of cargo transported by the large container ship. The congestion at the port became a controversial problem in 1988 with the dramatic increase in the trade volume. Acknowledging the need to have a deep sea-port, the Thai government had decided earlier to build a sea port with a depth of 14m at Laem Chabang. The new port, which should be completed by 1991, is expected to increase Thailand's trading capacity tremendously.

Thailand's development axes are three-directional, first to the north toward Ayutthaya, Second to the southwest toward Samut Prakarn, third toward Laem Chabang, all originating in Bangkok. Once established, the Laem Chabang is to form another nucleus for industrial activities, thus providing a direct gateway to the vast Northeastern Region. In this context the Laem Chabang I.E. carries an important responsibility to serve as a hub of new industrial activities.

3. TARGET INDUSTRIES FOR LAEM CHABANG

Concerning the selection of the target industries, we usually consider two ways. One is the macroscopic approach from the industrial policies concerning the Laem Chabang Project. The other approach is to analyze the overall investment demands of potential investors. The industrial estate should urge the agglomeration of the related target industries with a high possibility of investment. The appropriate agglomeration can facilitate linkages between the industries, in particular with the supporting industries. The macroscopic approach is as follows:

Macroscopic approach to selection of target industries

- To promote a desirable industrial structure in view of the long term industrial policies, to induce high-tech and high-value-added industries, and to broaden the manufacturing technologies bases.
 - ==> electric and electronics, metal products,
 metal products, plastic products, machinery
- To utilize the international comparative advantages of Thailand such as;
 - 1) skilled abundant labor
 - 2) resource endowment
 - ==> rubber products, rubber wood products,
- -To create a substantive economic impact such as employment creation
 - ==> electric and electronics assembly, textile and knitting, garments, and jewelry
- -To facilitate the decentralization policy of industries from Bangkok
 - ==> factories located in Bangkok
 specially noise-pollution factories
 such as presswork, boiler-making.
- -To make the manufacturing activities in the Laem Chabang comply with the environmental requirements.
 - ==> Non-polluting and non-large-water-consuming

Table 3-1 Target Industries to be located at the Laem Chabang(1)

Remarks: Symbols have the following meaning relating target industries.

- : Industries derived from the approach of "desirable industrial structure"
 - : Export-oriented industries
 - O: Labor-Intensive industries
 - O: Industries with a high possibility to decentralize out of Bangkok
 - : Port-oriented industries including port-related industries
 - . Market-oriented industries
 - 🛦 : Products from basic chemicals (under the linkage with Map Ta Put)
 - ★ : Resource-based industries
- ?: Large water-use industries (compared to the Laem Chabang's water-supply capacity) --- LAEM CHABANG: Industries to be located at the Laem Chabang from theoretical approaches
- industries to Types/categories of industry for five ways of appbe located at Types of Industry Code roach to selective industries the Laes Chabang **★**? 31119 Meat products 31123 | Ice-cream ★? Canning of fruit and vegetables 31131 *? Fruit and vegetable products 31139 Canning of fish *****? 31141 **★**? 31149 Frozen sea foods products, etc. * → LAEM CHABANG 31164 Tapioca mills Bakeries → LAEM CHABANG 31171 31172 Biscuits - LAEM CHABANG ? Noodles and similar products 31173 31190 Confectionery ? 6 31219 Other food products -- LAEM CHABANG Prepared animal feeds ⋆ 31220 2 31340 Soft drinks and carbonated waters Weaving of cotton and man-made firbers 32115 → LAEM CHABANG Made-up textile goods 32120 → LAEM CHABANG Knitting mills 32130 Men's and boys' clothes Women's, girls' and infants clothes -- LAEM CHABANG 32201 → LAEM CHABANG 32202 → LAEM CHABANG 32209 Other wearing apparel and accessories → LAEM CHABANG 33120 Wooden and cane containers Leather and leather substitutes products → LAEM CHABANG 32330 → LAEM CHABANG 00 33201 Woody furniture, fixture and flooring including rattan furniture Containers and boxes of paper and paperboard → LAEM CHABANG . 34120 → LAEM CHABANG 34207 Printing ? 35120 Chemical fertilizer . → LAEM CHABANG Paints, varnishes and lacquers 35210 ? **4** 35220 Drugs and medicine **A** -- LAEM CHABANG 35231 Soap and cleaning preparation ***** * 35299 Other chemical products 数●本大 Tyre and tube industries - LAEM CHARANG 35510 35591 Rubber sheets and block rubber → LAEM CHABANG → LAEM CHABANG <000 35592 Rubber footvear $\Diamond \bullet \bigcirc$ → LAEM CHABANG 35599 Other rubber products → LAEM CHABANG Plastic containers 0 A O 35601 → LAEM CHABANG **●** ▲ 35609 Other plastic products 00 . -- LAEM CHABANG 36200 Glass and glass products 0110 → LAEM CHABANG 36991 Concrete products - LAEM CHABANG from and steel rolling mills 37110 Iron and steel foundries → LAEM CHABANG 37120 → LAEM CHABANG 3711 Iron and steel sheering/slitting, etc → LAEM CHABANG \cap Non-ferrous metal rolling mills 3712 -LAEM CHABANG Non-ferrous metal casting and its productts -- LAEM CHABANG 000 38120 Furniture and fixture primarily of metal -- LAEM CHABANG 0 . 38130 Structural metal products -LAEM CHABANG 38191 Metal cans and shipping containers → LAEM CHABANG 38192 Wire and wire products → LAEM CHABANG 38198 Coating, engraving and allied services : Heat treatment and electo plating → LAEM CHABANG 0 **F** 6 Other fabricated metal products

Table 3-2 Target Industries to be located at the Laem Chabang(2)

Remarks: Symbols have the following meaning relating target industries.

: Industries derived from the approach of "desirable industrial structure"

: Export-oriented industries

: Labor-intensive industries

: Industries with a high possibility to decentralize out of Bangkok.

: Port-oriented industries including port-related industries

: Market-oriented industries

: Products from basic chemicals (under the linkage with Map Ta Put)

: Resource-based industries

? : Large water-use industries (compared to the Laem Chabang's water-supply capacity)

-- LAEM CHABANG: Industries to be located at the Laem Chabang from theoretical approaches

Code	Types of Industry	Types/categories of industry for five ways of app- roach to selective Industries	industries to be located at the Laem Chabang
38220		□◊	LAEM CHABANG
38292			→ LAEM CHABANG
38298			→ LAEM CHABANG
38299	Other machinery except electrical :Mold and die		LAEM CHABANG
	:High precision machining		
38310	Electrical industrial machinery and apparatus		→ LAEM CHABANG
	:Micromotor and microtranformer		, .
ł	:Various switches and wiring instruments :Control panel, genratoors, etc.		
38320	Radio, television and communication		LAEM CHABANG
	equipment and apparatus		
	:Yarious audio apparatus	Programme and the	
	:CRT(calhod-ray tube) :Telephone and its switching, equipment		
	: Yideo lape recorder		
	:Facsimile		
38330			LAEM CHABANG
38392	Electric accumulators :Dry cell		→ LAEM CHABANG
38339	Other electrical apparatus and supplies		LAEM CHABANG
	:Electronic copy machines		
	:Personal computer, etc		
	:Floppy disk drive		
	:Electric printer :Electronic calculators		
	:Assembly of integrated circuit		
	:Electonic parts(tuner, trasister, ferite		
	core, key board, speaker, condenser,		4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	resistor, LED, magnet head, lead frame, printed board, etc.)		
38411	Ship-repairing	O # •	→ LAEM CHABANG
38419			
38432 38439			→ LAEM CHABANG
30439	Other motor vehicle industries :Mortor vehicle parts and accessories		→ LAEM CIPABANG
	Engines, bearing, etc.		
38500	Precision instruments and machinery		→ LAEM CHABANG
	Optical instruments such camera and lenses		
	Ophthalmic goods including frames: Watches, clocs and parts		
39011	Cutting and polishing of gem stones		LAEM CHABANG
39012	Jevellery		→ LAEM CHABANG
39030	Sporting and athletic goods		→ LAEM CHABANG
39090	industries not eleswhere classified :Toys		→ LAEM CHABANG
!	:Stationery		
	:Antique, handicraft and others		
Others	Warehousing/transport	■ •	→ LAEM CHABANG
[l	wholesale trade	II •	→ LAEM CHABANG

DR. Iijima's Speech At the Laem Chabang I.E. Seminar Nov. 17 th, 1988. Bangkok Regent

It is a great honor to speak to the distinguished guests present here at the today's seminar on the Laem Chabang I.E. I am the team leader of the study team on the Laem Chabang I.E., Sadakazu Iijima.

In recognizing a great importance of the Laem Chabang I.E. the Thai and the Japanese Government have decided to take up a study on the promotion and management of the Laem Chabang I.E. Although the recent progress of the Thai economy is astonishing, it is a well-known fact that the over-heated investment in Thailand is causing shortages in many areas. Starting with the land and engineers, the infrastructures such as the port seems almost paralysed to carry out the ever-increasing trades. All these problems can be attributed to one of the characteristics of the Thai economy--- Extremely centralized system.

The over-concentration in Bangkok is very obvious. Let us take a look at some illustrations. All the four pictures here illustrates the share of each region in area, population, income, and number of industrial activities. The size of each region in the pictures is drawn in proportion to the share of each area. As you see in the Picture-1 and 2 Bangkok already has more than 10% of a total population on a tiny area which shares only 0.3% of a total land area. The business and production shows further concentration in Bangkok where about 27% of a total business establishments are located. In terms of income distribution it is almost striking that Bangkok alone generates more than 45% of national income. Knowing these facts, we feel helpless but submit ourselves to notorious congestions in Bangkok. The Thai government, being fully aware of these problems, is trying to improve the situation.

The Eastern Seaboard Development Program, the Laem Chabang Project in particular is a concerted effort by both the public and private sectors to make breakthrough to the overconcentration in Bangkok. To understand why, let us look at the future industrial development in Thailand. This picture shows the present locations of industrial activities in Thailand. We can observe three directions of developments taking place. The first direction to the north toward Ayuttayah, passing the airport where some electronics related industries are growing, the second to Samut Prakarn where we find one of the most competitive food processing industries. The last direction is to the south-east, to Laem Chabang then to Map Ta Put. The development axis to the southeast offers more potential thus a different scenario than other development axes. First of all the Laem Chabang I.E. is equipped with an integrated infrastructures such as the best international port, housing, and commercial and business district. Being located off the Chaopraya Delta, the Laem Chabang I.E. stands on a good soil conditions. It also maintains a good

access to Bangkok. It will grow more than just an extension of Bangkok. It will become the core of major industrial activities in Thailand.

No wonder that a crazy speculations took place over the last one year or two! Some of you have missed the bus, but do not worry. The Laem Chabang I.E. is still there to wait for your investment.

When the Laem Chabang I.E. and its surrounding areas are fully established, the area will become the gateway for the industrial activities. The new developments can take place from Laem Chabang as the center, provided the timely development of the infrastructures are conducted by the government. The new extension could lead to the Northeastern Provinces, the area that is the most impoverished, yet endowed with abundant industrious labor. Although it may take some time, the fully established Laem Chabang Industrial Base will serve to maintain the growth momentum of Thailand beyond the NIEs.

Now let us turn back to our immediate future, to our study based upon company survey. We must give our deepest appreciation to many of those here today who kindly answered our survey forms, very long and complicated ones. We would like to present some of the results.

In our survey a total of 222 companies responded with interest in investing in the Laem Chabang I.E. The rate of interest is remarkably high compared to ordinary marketing surveys of this kind. In the survey we also asked what the potential investors expect to the Laem Chabang I.E. in terms of incentives, services and supporting facilities. As for incentives, The potential investors showed the highest interest in Tax exemptions and deductions as #1 followed by low interest For those interested in EPZ the first improvement the loan. investors are hoping for is to either eliminate the customs inspection or to improve the customs for the faster and simpler procedures. Secondly, the tax rebate system for the importation of raw materials for export goods production must be speeded up. As for the supporting services to be provided in the Laem Chabang. I.E., the investors placed the highest priority on the government contact service. This indicates the substantive difficulties obtaining the licenses from the government. Among 34 supporting questionnaire, facilities we listed in the ranging from restaurants, housing to training facilities, incidentally the Branch office of banks and hospitals were ranked the first and Besides the top two, the investors indicated customs second. clearance agent, low cost housing for workers, and restaurants as important facilities.

Based upon these responses, we are going to recommend facilities and services to be provided at the Laem Chabang I.E. to the Thai government where they are feasible. Some of the facilities are already planned and those which are not included in the original plan will be also well taken care of by the Thai government.

Another finding of the survey which may be of use to the quests today is the expected industrial structure of the Laem Chabang I.E. First let us look at the Thai manufacturing sector.

present structure of the Thai manufacturing sector dominated by essential goods production namely food, textiles and related products. The next picture shows the approved ivestment by the BOI during the period of november 87 to april 88. The current investment trends indicate that the manufacturing more into electronics, electric appliances, sector will expand computer related products, machinery which form a core of the manufacturing sector in industrialized countries. The third picture indicates the breakdown of potential investors by type of industry. Naturally it shows the similar trend as the current investment trend. The biggest sector is the machinery industry, followed by electric and electronics industry. The textile industry which is the top exporting industry still shows the strong investment demand. Needless to say, the manufacturing of the above-mentioned machinery including electric and electronics could bring higher value-added to economy but requires higher technology and more sophisticated management Nevertheless, in these fields of production the current Thai of conduct only final stage manufacturers process,i.e. assembly work which only produces small margins of value-added. In order to capture the latent part of high valueadded, Thai manufacturing sector must expand to upstream processes of manufacturing process, firstly components and parts production, secondly tool and machinery production or material production. The first step is to expand the bases of supporting industries to produce components and parts. This expansion requires a different categories of technology from assembly including production control and quality control. The present situation of the Thai industries are shown in this illustration. The present level of technologies are mainly assembly work, operation and skill levels and the quality level has not attained high precision level yet. The levels should be raised and will be. That is the time when Thailand make a true entry to the newly industrialized economies.

In this context we are going to suggest the approaches to select target industries to the Laem Chabang I.E. The target industries which are attached in the handout in page 8 to 9 are derived from the five factors namely, the targeted industrial structure, international competitiveness, economic impact, industrial location policy in Thailand, and finally environmental constraints of the Laem Chabang I.E. The last factor needs some attention. since the water supply capacity of the Laem Chabang I.E. is limited, a large consumer of industrial water should be avoided. Another important criteria is pollution. Having a large resort area of Pataya, the Laem Chabang I.E. must free from pollution. The high tech and high value-added industries should be able to clear these criteria.

The Laem Chabang I. E. will offer an ideal industrial location where the most advanced and competitive companies both from Thailand and abroad are expected to invest. The Laem Chabang I.E. will become a core for upgrading industrial structure of Thailand. We are looking forward to seeing the future developments of the Laem Chabang I.E.

Thank You

