THE STUDY ON SELECTED INDUSTRIAL PRODUCT DEVELOPMENT IN MALAYSIA

SECOND YEAR FINAL REPORT

(ADDENDUM)

JULY 1989

JAPAN INTERNATIONAL COOPERATION AGENCY





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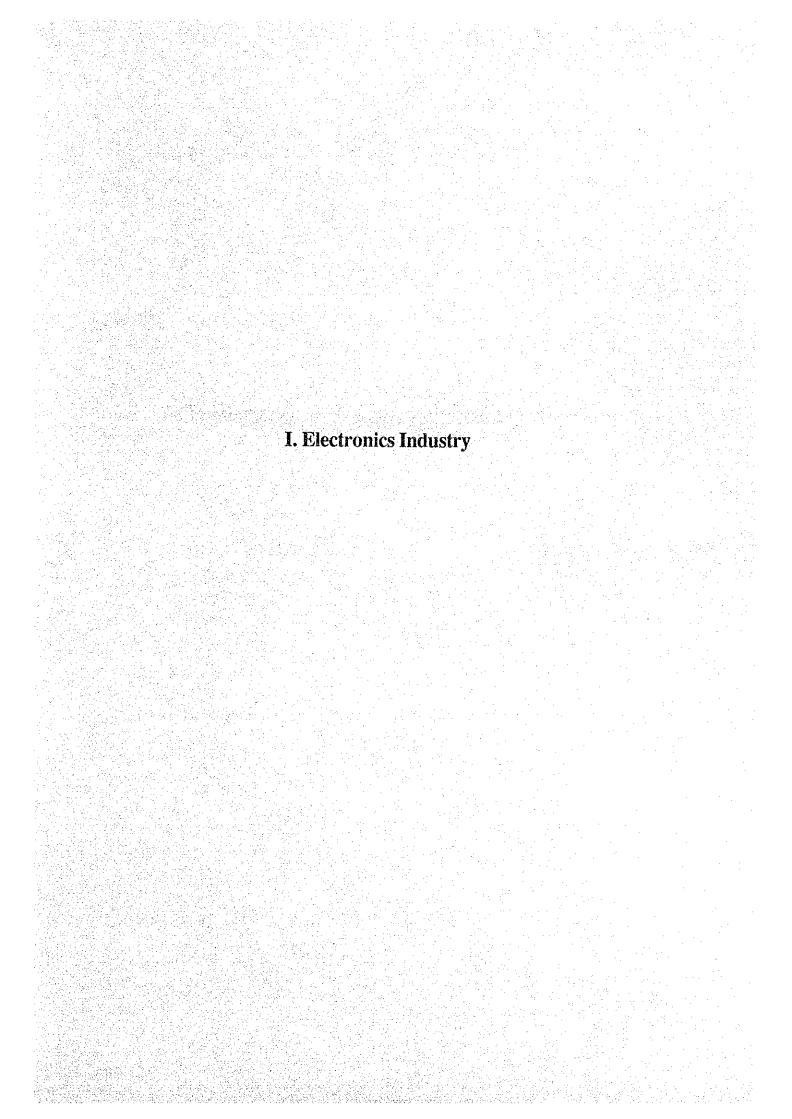
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I-1 Possibility of Investments and	Technical Tie-ups

I-1. Evaluation of the Possibility of Investment Based upon the Results of the Questionnaire Survey Conducted in Japan

I-1-1. Overseas Production by Firms Responding to the Questionnaire Survey Conducted in Japan and Their Positioning of Malaysia as a Production Base

Of the 136 firms responding to the questionnaire survey conducted in Japan, 66 are engaged in overseas production, indicating that, with the exception of the one firm which answered, "Uncertain," 53% of the companies have production bases abroad. There was a visible tendency for the overseas production ratio to be in proportion to the size of the company in question. Of the 33 firms (excluding the uncertain one) with capital of less than ¥100 million, only 7, or 21% of the total, are engaged in overseas production. In contrast, 22 or 46% of the 48 firms with capital of up to ¥5 billion, and 37 or 84% of the 44 firms with at least ¥5 billion, are currently producing abroad.

Thirty of these firms, equivalent to 22% of the survey respondents and 45% of those engaged in production overseas, have established a total of 55 production bases in Malaysia. The distribution of overseas production bases by nation is as shown in Table I. 1-2. Sixty-six firms currently maintain 361 production bases in a total of 247 countries around the world. Malaysia is third after Taiwan and Korea and ranks above countries such as the U.S., Singapore, and Thailand. These figures are indications of the high evaluations the nation is receiving as a destination for foreign investment by Japan's electrical and electronics equipment manufacturers.

Of the above-mentioned 361 production bases, 131 are involved in the production of components; 47, audio equipment; 57, home electrical appliances; 20, telecommunications equipment; 20, other electronics equipment; five, other types of equipment and machinery; and 27, other products, with 21 unknown.

Of the 30 Japanese firms maintaining local production bases in Malaysia, 18 are engaged in the production of components; six, audio equipment; 11, home electrical appliances; one, telecommunications equipment; and three, other products, with two unknown.

As mentioned above, these firms maintain a total of 55 plants, with 27 (or 49%) being fully-owned subsidiaries, 23 (42%) joint ventures, and five (9%) of some other form. Although the ratio of fully-owned subsidiaries is less than for Japanese investment in Europe, the U.S., and Singapore, it is higher than the figures for Hong Kong, Taiwan, Thailand, and Korea.

Table I. 1-1 Overseas Production Ratio of the Japanese Companies Which Filled Out the Questionnaire Sent in Japan

								<u> </u>
	Total	0%	5% or Less	10% or Less	15% or Less			More N.A. than 30%
Total	136	59	19	13	9	10	11	4 11
(%)	100.0	43.4	14.0	9.6	6.6	7.4	8.1	2.9 8.1
[Capital]	54		* =		1			
Less Than ¥100 Million	- 34	26	3		1	2	• • •	1 1
(%)	100.0	76.5	8.8	See ta e n anga	2.9	5.9		2.9 2.9
Less Than ¥500 Million	54	26	6	5	2	6	2	1 6
(%)	100.0	48.1	11.1	9.3	3.7	11.1	3.7	1.9 11.1
¥500 Million or More	48	7	10	8	6	2	9	2 4
(%)	100.0	14.6	20.8	16.7	12.5	4.2	18.8	4.2 8.3

N.A. = Not Available

Table I. 1-2 Overseas Production of the Japanese Companies Which Filled Out The Questionnaire Sent in Japan (By Product and by Country)

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| Home (| Electric
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| Other | equipment
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Semi- C | Conducter | 15 | 6.1 | | | 4 | 13.3 | - | 4.5
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 | 24 | 100.0 | 35 | 10001 | 26
 | 100.0 | 35 | 100.0 | 10 | 100.0 | | | 'n
 | 100.0 | Š | 100.0 | 10 | 100.0
 | ili
Sili | 10 | 100.0 | 7 | 100.0
 | $\frac{2}{100.0}$ |
| | | | Total | (%) | | [Country] | Malaysia | (%) | Thailand | (%)
 | Singapore | (%) | Korea | %
% | | | |
 | <u>چ</u> | Taiwan | (%) | Hong Kong | (%) | People's | Republic of |
 | | | (%) | |
 | Federal Repub | of Germany | (%) | |
 | Belgium
(%) |
| | 1, Sensor Wire Power Computer Condenser IC. Other | Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Moulding Socket, Harness Supply, Component and Transistor Electronic B and Metal and Unit and | Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Audio Home Communi-
Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Electric cation E and Metal and Unit and Resistor Semi-Components and ApplianceEquipment Press Connector Transformer Conducter | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Kome Communi- Other Others Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Electric cation Equipment and Metal and Unit and Critical Resistor Semi- Components and Appliance Equipment Press Connector Transformer Conducter Machinery 57 20 20 20 27 | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Audio Home Communii- Other Moulding Socket. Harness Supply, Component and Transistor Electronic Equipment E | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communi- Other Others Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Electric cation Equipment and Metal and Unit and Component Semi- Components and Appliance Equipment Equipment Press Connector Transformer Conducter Machinery 247 5 21 1 6 23 2 26 15 32 47 57 20 20 5 27 27 (%) 100.0 2:0 8:5 0.4 2.4 9:3 0.8 10.5 6.1 13:0 19:0 23:1 8:1 8:1 2:0 10:9 | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communi- Other Others Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Electric cation Equipment and Metal and Unit and Confidence Semi- Components and Appliance Equipment Equipment Equipment Equipment Equipment Conducter Semi- Components and Appliance Equipment Equipment Equipment Equipment Equipment Equipment Equipment Conducter Semi- Components and Appliance Equipment Equipm | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communi- Other Others Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Electric cation. Equipment and Metal and Unit and Component Semi- Components and Appliance Equipment Equipment Equipment Equipment Equipment Transformer Conducter Machinery Appliance Equipment Equipment Conducter Machinery Scale 1 6 23 2 26 15 32 47 57 20 20 5 27 27 20 10.0 100.0 2.0 8.5 0.4 2.4 9.3 0.8 10.5 6.1 13.0 19.0 23.1 8.1 8.1 2.0 10.9 11.9 11.9 3 6 11 1 1 2.0 10.9 11.9 11.9 11.0 10.0 10.0 10.0 10 | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communi- Other Others Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Electric cation Equipment and Metal and Unit and Component Semi- Components and Appliance Equipment Equipment Equipment Electric cation Equipment Transformer Conducter Machinery Appliance Equipment Equipment Press Connector Transformer Conducter Machinery Appliance Equipment Equipment Equipment Flex Solution Semi- Component Semi- Compone | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Kome Communi- Other Other Other Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Electric cation Equipment Engineers Unit and Metal and Transformer Component Semi- Components and Appliance Equipment Equipment Equipment Equipment Equipment Equipment Electric cation Equipment Engineers Connector Transformer Conducter Machinery Appliance Equipment Englishers Connector Transformer Conducter Machinery Strain S | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Audio Home Communia Other Oth | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Community Other Other Audio Maching Socket Harness Supply, Component Section Equipment Electric Cation Equipment Equip | Total Plastic Switch, Sensor Wire Rower Computer Condenser IC. Other Audio Home Communia. Other Others Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Eq | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communiaries Other Other | Total Plastic Switch, Sensor Wire Rower Computer Condenser IC. Other Other Audio Home Communi- Other Others Moulding Socket, Harness Supply, Component and Transistor Electronic Equipment Equipment Equipment Equipment Equipment Equipment Equipment Transformer Resistor Semi- Component and ApplianceEquipment Equipment Equipment Transformer Transformer Conductor Machinery | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Other Audio Home Communia Other Oth | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communial Other Other Manages Supply, Component and Arrasistor Sequence Component Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Transformer | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Other Other Other Other Moulding Socket. Harness Supply, Component and Mulding Socket. Harness Supply | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communi-Other Other Moulding Socket, Harness Supply, Computer Condenser IC. Other Communi-Other Other Moulding Socket, Harness Supply, Component and Machinery ApplianceEquipment Equipment Transformer Condenser Condenser Supply Component Survival | Total Plastic Switch, Sensor Wire Power Computer Condenser IC. Other Other Audio Home Communia. Other Other Moulding Socket Harness Supply Component and Metal and ApplianceEquipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment | Total Plasic Switch, Sensor Wire Flower Computer Computer Computer Computer Computer Computer Computer Computer Supply, Component and Metal and Metal and Unit and Transistor Sensitor Sensito | Total Plastic Switch, Sensor Wire Power Computer Condenser Total Moulding Socket. Harness Supply, Component and Transistor Electronic Equipment Equipment Equipment Equipment Equipment Equipment Condenser Machinery ApplianceEquipment Condenser Machinery ApplianceEquipment Equipment Eq | Total Plastic Switch, Sensor Wite Power Computer Condensor Total Plastic Switch, Sensor Wite Power Computer Condensor Total Plastic Switch, Sensor Machinesy Appliance Switch, Sensor Harness Supply, Component Sensor Sensor Sensor Appliance Equipment Equipment Equipment Equipment Equipment Condensor Appliance Equipment Equipment Equipment Condensor Appliance Equipment Equipment Condensor Appliance Equipment Condensor Appliance Equipment Condensor Appliance Equipment Condensor Appliance Equipment Condensor Condensor Appliance Equipment Condensor Condensor | Total Plastic Switch, Sensor Wire Rower Computer Ti. Other Abulo Moulding Socket. Harness Supply, Component and Metal and Moulding Socket. Harness Supply, Component and Metal and Moulding Socket. 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Other Other | Total Pusitic Switch, Surior, Wire Power Computer Configure Collective Communic Other Appliance Switch, Surior, Ward Component Component Equipment Equipment Equipment Equipment Component Component | Pasis Pasi | Monthing Soutch, Sensor Wire Power Condensor IC Other Other Adolle Home Communic Other Others Woulding Soutch, Sensor Wire Power Computer Computer Supply Components and Monthing Soutch, Sensor Wire Power Computers Transistor Electronic Equipment Equipmen | Total Plastics Switch, Sensor Maries Supply Computer Conditions Total Plastics Woulding Scoket, Hartuses Supply Computer Conditions Moulding Scoket, Hartuses Supply Computer, and Transformer and Moulding Scoket, Hartuses Supply Component; and Press Commetor Transformer Transformer Machinery Moulding Scoket, Hartuses Supply Component; and Press Commetor Transformer Machinery Senior Computer Computer Computer Machinery Senior Computer Computer Senior Computer Computer Senior Computer Computer Senior Computer Computer Senior Senio | Moulding Socket, Harress Supply, Component Computer Computer Computer Computer Computer Computer Computer Machinery Moulding Socket, Harress Supply, Component and Transfer Electronic Equipment (Harriston Machinery) Moulding Socket, Harress Supply, Components and ApplianceEquipment Equipment Equipment Equipment Equipment Equipment (Harriston Machinery) Moulding Socket, Harriston Machinery M |

I-1-2. The Possibility of Investment in Malaysia

In the Japanese questionnaire, firms were asked to give their opinion concerning Malaysia as a prospective location for an overseas production base. Reflecting the industry breakdown of the firms responding to the survey, assumed production items for when the firm considered investment in Malaysia were as follows: component production, 38 firms; audio equipment, 10; home electrical appliances, six; telecommunications equipment, six; other electronics equipment, five; other equipment and machinery, one; and other products, three, with 78 uncertain. It should be noted that 66% of the 58 firms providing definite responses assumed that they would produce components.

Of the 136 firms responding to the questionnaire, 94, or 69% of the total, answered that investment in Malaysia would be "unthinkable for the time being," but the remaining 31% said that it was possible. Five firms (4% of the total) said that they had "concrete plans;" 12 (9%), that they were "currently considering or may consider" investment; 14 (10%), that it "may be possible within two to three years;" and 11 (8%), that it "may be possible four to five years from now."

One firm's evaluation of the investment possibilities for a number of assumed production items is as shown in Table I. 1-3. Investment possibilities are shown for each of the 171 assumed production items. Components showing strong possibilities for investment include "switches, sockets, and connectors," "wire harnesses," and "other electrical components." In the category of production of finished products, there are firms considering Malaysia as a prospective base for the production of audio equipment, home electrical appliances, telecommunications equipment, and other electronics equipment.

A list of firms expressing the possibility of investment in Malaysia is given later.

At present, five of the responding firms have "concrete plans for investment" (covering eight production items), and 12 are "currently considering or may consider"

Table I. 1-2 Overseas Production of the Japanese Companies Which Filled Out The Questionnaire Sent in Japan (By Product and by Country)
(Continued)

	Total Plastic Switch, Sensor Wire	tic S	witch, S	ensor	Wire	Power	Compute	Computer Condenser IC.		Other	Other	Audio	Home	Audio Home Communi-	1	Other Others N.A.	A.A.
	Moule	Moulding Socker,	ocket,		Harness Su	s Supply,	Componen	gug :	Transistor Electroni	Electronic 1	ic Equipment	Equipment	uipment Electric cation	cation	Equipmen		
	and Metal	[eta]	and			Unit and		Resistor	Semi- C	Semi- Components and	pue	7	Appliance	quipment			
	Pre	ss Co	Press Connector			Transformer	er er)	Conducter	1	Machinery						
France	- 9			•		•	,	•		•	က	2	1		1	2	~~
(%)	100:0		16.7	1	ı	i	. * •	; •			50.0	33.3	16.7	16.7		33.3	16.7
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(%)	100.0		ţ		•	1	1		. 1		50.0	•		50.0			
Spain	- I					1	•		r	í		•	g-mg		1	ı	. •
(%)	100.0		,		ď	ı		•		1		ı	100.0	100.0		. 1	ı
Brazil			_	ı		i	•			pul	e-d	,	.1	ب ۔۔۔ا	•	÷.	7
(%)	100.0		14.3	•	,	i	•	14.3		14.3	14.3			14.3		14.3	28.6
Mexico	4			1	ı	-		~		ì	, . .		•	,	1	, +-4	•
(%)	100.0		ı	1	ı	25.0	•	25.0		i.	25.0	25.0	1	•	•	25.0	1
Australia	7		,	•				ï		•		r-t	•	- -4	1		
(%) (%)	100.0			ı	,	•	.•	ı	•			50.0	ı	50.0	1	1	,
Philippines	eri		1	•	ı	ì	1		ŀ	ı	H	.	r~1	 1			
(%)	100.0		1	1	•	1		•		,	33.3	33.3	33.3	33.3			. •
Others	9		,		1	1	1	ę.d	-4	part.	ı	ო	•	1			— 1
(%)	100.0			ı	1	•	1	16.7	16.7	16.7	h	50.0	•	-	16.7	t	16.7

Table I. 1-3 Possibility of Investment in Malaysia by Type of Product

			1			<u> </u>	
A PARTY OF THE PAR		Total	Unthinkable for the Time Being	May be Possible Four or Five From Now	May be Possible within Two or Three Years	Currently Considering or any Consider	Have a Concrete Plan
1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						24	8
Total		171	96	19	24	14.0	4.7
	(%)	100.0	56.1	11.1	14.0	14.0	**************************************
Plastic Moulding	and	9	6	3			
Metal Press	(%)	100.0	66.7	33.3	<u> </u>		åkja+trolog
Switch, Socket a	` '	15	8	2		5	
Connector	(%)	100.0	53.3	13.3		33.3	_
Sensor	(1~)	1	1	i de la Egra	-		
DOMOG	(%)	100.0	100.0	-	-		
Wire Harness	(,,,,	6	2	<u>-</u>	2		2
1110122111000	(%)	100.0	33.3		33.3	•	33.3
Power Supply, U		6	2	2	2		
and Transformer	(%)	100.0	33.3	33.3	33.3		***
Computer Comp		1		_	-	$1 \setminus 1 \setminus 2$	•
Company comp	(%)	100.0				100.0	
Condenser and	(,,,	18	12	1	5		· •
Resistor	(%)	100.0	66.7	5.6	27.8		
IC Transistor	()	1	<u> 4</u> 1	- , ,	1		手引出去 经营
Semiconductor	(%)	100.0	· ·		100.0	보기 본 일 등 년	- I
Other Electric	()	14	2	5	· <u>L</u>	3	4
Component	(%)	100.0	14.3	35.7	-	21.4	28.6
Audio Equipmen		13	2	1	5	5	
radio zquipino.	(%)	100.0	15.4	7.7	38.5	38.5	
Home Electric	(-9)	11	5		1	4	1
Appliance	(%)	100.0	45.5	_	9.1	36.4	9.1
Communication	(,0)	12	5	2	2	3	-
Equipment	(%)	100.0	41.7	16.7	16.7	25.0	
Other Electronic	(10)	5	3	- -	-	1	1
Equipment	(%)	100.0	60.0	-	-	20.0	20.0
Other Equipment		1		ar Linguis	1		
and Machinery	(%)	100.0	· .	-	100.0		1 80 - 1
Others	. (**)	3	2			1	
	(%)	100.0	86.7	:=1;:	and a 💂 😘 j	33.3	
N.A.	(~)	55	46	3	5	1	
	(%)	100.0	83.6	5.5	9.1	1.8	
		100.0					·

investment (covering 24 items). The following is a breakdown of these plans according to production item.

Table I. 1-4 Possibility of Investment in Malaysia Evaluated by the Questionnaires Sent in Japan

	(Unit:	Number of Companies)
Type of Product	Have a Concrete Plan	Currently Considering or May Consider
Switch, Socket and Connector		5
Wire, Harness	2	
Computer Components		1
Other Electronic Components	4	3
Audio Equipment		5
Home Electric Appliance	1	4
Communication Equipment		3
Other Electronic Equipment	1	1
Others		1

Concerning plans for investment in countries other than Malaysia, eight of the 136 respondents, or 6% of the total, have plans to invest in Malaysia, while seven firms, or 5% of the total, will begin operations in China. Next on the list are Taiwan and the U.S., each with three firms planning investment. In summary, there were few firms with plans for investment in Europe and the U.S., with virtually all attention being concentrated on developing nations. There are a total of 46 plans for investment on a product-by-product basis, of which 17 target Thailand and 11 China. Table I. 1-5 shows a breakdown of investment plans by product for countries other than Malaysia according to production item and country.

A look at the investment plans of electronics equipment manufacturers shows that Malaysia, Thailand, and China are being selected as destinations for investment. Only five firms have concrete plans for investment in Malaysia (covering eight production items), making that nation less popular than Thailand or China. The main motives for

Table I. 1-5 Investment Plans in Countries and Regions Other than Malaysia (By Product)

	Total Plastic	o Switch, Sensor Wire	Sensor T	wire Jamess	Wire Fower Computer Harness Supply Component	Computer Condenser	ondenser	ransistor	Transisfor Electronic Follinmen	Oulet Fouithment	Fourthment	Flectric	Communi-	Tourisment	Others	ď Z
Product	and Meta Press	and Metal and Press Connector	i	T	Unit and Transformer		.	Semi- Conducter	Components and Machin	ts and Machinery	,		Squipment	manudinh-		
Total	- 46	9			4			5	6	2	2	ε	÷	ì	7	12
(%)	100.0	13.0	•		8.7	•	•	10.9	19.6	4.3	4,3	6.5	2.2	1	4.3	26.1
استاهان								÷	-,					-		
Thailand	17	•	•	,		,		'n	ব		7	7	. 1	,	ı	'n
86	100.0	5.9	•	ı	ı			29.4	23.5	•	11.8	11.8	•	1	•	17.6
People's Rupublic	sublic							-								
of China	-	7	•		4	•	•	٠,	m	اسم	•		1	ι	,l	•
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Others	2 -	•	•					,	•		1	•		1	i	g-d
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selection of these nations appears to be low production and labour costs together with an abundant supply of labour. Other likely factors taken into consideration would be their proximity to Japan as well as political and economic ties,

Results of the interviews conducted overseas in the course of the current survey showed that, when making the decision to invest, Japanese electronics equipment manufacturers choose a group of countries such as the ASEAN nations and China as potential candidates and then proceed to evaluate factors concerning the investment climate, including government systems and policies, economic conditions, the labour situation, infrastructure, and land and construction costs, before making the final decision. There is relatively little difference between evaluations of the investment climates of Thailand and Malaysia. Malaysia earned higher ratings for its infrastructure, while Thailand on the other hand received better evaluations for its wage levels, educational levels, and other facets of the labour equation. It is believed that these differences had an influence on the final decision.

In a question concerning the possibility of investment in Malaysia, five firms indicated that they had "concrete plans" for investment, while a total of 37 companies answered that they were "currently considering or may consider" investment or that investment was "possible within two to three years" or "possible four to five years from now." The number of firms considering investment in ASEAN nations, China, etc. is thus expected to increase even further in the future.

The growth of Malaysia's electronics industry could be accelerated by further attention to the Malaysia investment climate, the development of selling points to set the nation out from others in the region, and the promotion of activities to attract foreign investment.

I-1-3. The Possibility of Technology Provision Agreements

Forty-two of the 136 responding firms, or 31% of the total, are currently engaged in the transfer of technology abroad. There were a total of 113 such agreements. Korea accounted for the most, with 28, followed by Taiwan, with 19, Thailand, with 12, Malaysia, with 11, and China, with 8.

In response to a question concerning the evaluation of Malaysia as a partner in such agreements, 13 firms said that such an agreement would be possible in some form or another. Table I. 1-6 shows a breakdown of the 15 "possibilities" indicated by these companies. A list of the 13 firms is provided later.

Table I. 1-6 Possibility of a Technical Tie-up with a Malaysia Firm Evaluated in the Questionnaires Sent in Japan

Answer	Number of Answers
Have a Concrete Plan	0
Are Currentry Considering or may Consider	2
May be Possible within Two or Three Years	eri g i, sesari dan
May be Possible Four or Five Years from Nov	v 6

I-1-4. Opinion of Malaysian Firms Concerning Joint Ventures and Technology Provision Agreements

The results of the Malaysian questionnaire show that fully half of the 20 Malaysian-capital firms (excluding those who did not respond to this question) hoped to pursue joint ventures. Of these 10, seven were component manufacturers, while the remaining three consisted of a manufacturer of consumer electronics equipment, a manufacturer of industrial electronics equipment, and one other firm. When asked what nationality the desired partner would be in a joint venture, seven answered Japan, five America, four Great Britain, and three other nations.

When asked what was desired of the partner firm in such an agreement, each of the ten firms indicated technology transfer. The next most common response, given by seven companies, was access to the partner firm's local market. This was followed by on-the-job training, noted by four firms; financial assistance, by one; and management expertise, by one.

Furthermore, 13 out of the 18 Malaysian-capital firms responding to this question indicated that they hoped to pursue some kind of technology provision agreement. When broken down according to industry, 11 were parts manufacturers, one was a manufacturer of industrial electronics equipment, and one was unspecified.

A list of all the Malaysian-capital firms interested in pursuing either joint ventures or technology provision agreements is given later. Nine of the 10 desiring joint ventures were also interested in technology provision agreements.

Nine of the 23 Malaysian firms, including seven of those desiring a joint venture and eight of those desiring a technology provision agreement, have already made attempts to realise these ambitions. Eight of the nine firms had made fewer than four such attempts, while the remaining company had tried between four and eight times. In summary, a majority of the firms had never made concrete attempts to realise such ambitions, and even those which had were less than persistent.

Among the reasons given for failure were: high licensing fees (three firms); lack of sales assistance by the partner (three); disagreement on capital structure (one); insufficient technical assistance (one); and the high cost of machinery (one).

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Name of Company	ALPS ELECTRIC CO., LTD.
Address	1-7 Yukigaya Otsuka Ota-Ku Tokyo 〒145
T E L (TELEX, FAX)	03 (723) 1211
Name of President	Shotaro Kataoka
Name of person in charge	Hiroshi Komiya
Year of Establishment	1948
Capital	¥19.31 billion
Number of Employee	6,606
Wain Products	TV Tuner, Switch, Volume, Magnetic head, Floppy disk drive, Liquid-indicating elements, Others
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes Zw No
Products which supposed to be produced in Malaysia	Electronic components
The Period expected to invest	Under consideration

Name of Company	Iríichi Tsushin Kogyo
Address	1-27-6 Chuo Nakano-Ku Tokyo 〒164
T E L (TELEX.FAX)	03 (366) 9111
Name of President	Hiroshi Masuzawa
Name of person in charge	Tsuneyuki Ariga
Year of Establishment	1931
Capital .	¥80.0 million
Number of Employee	320
Main Products	Coil, Transformer, Power source, Others
Type of investment	Sole proprietorship 2. JV 3. Technical Tie up
Needs for Introduction of a partner	1. Yes Z. No
Products which supposed to be produced in Malaysia	Coil, Transformer
The Period expected to invest	'89.9.

Name of Company	Onkyo Corporation
Address	2-1 Nisshin-cho Neyagawa-shi Osaka 〒572
T E L (TELEX, FAX)	0720 (31) 8010
Name of President	Takeshi Godai
Name of person in charge	Shintaro Tanaka
Year of Establishment	1946
Capital	¥510.0 million
Number of Employee	1, 350
Wain Products	HI-FI Products: amp, Tuner, Receiver, Cassette Deck, CD Player, Speaker·system Speaker(OEM supply)
Type of Investment	Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	Audio products
The Period expected to invest	'90.12

Name of Company	Casio Computer Co., Ltd.	
Address	2-6-1 Nishi-shinjuku Shinjuku-k 〒163	u Tokyo
T E L (TELEX, FAX)	0425 (79) 7236	
Name of President	Tadao Kashio	
Name of person in charge	Michio Kojiwa	
Year of Establishment	1957	
Capital		llion
Number of Employee	3, 9	5 5 7
Main Products		d processor, Personal computer, sical instrument, Office computer, puípments
Type of Investment	1. Sole proprietorship 2.	JV 3. Technical Fie-up
Needs for introduction of a partner	1. Yes	Νο
Products which supposed to be produced in Malaysia	Watch, Electronic desk calculate Musical instrument, E.C.R.	tor, January Symples of the second se
The Period expected to invest	'89.3	

Name of Company	Canon Inc.
Address	Shinjuku Dajichi Seimei Building 2-7-1 Nishi-shinjuku Shinjuku-ku Tokyo 〒163
T E L (TELEX, FAX)	03 (348) 2121
Name of President	Ryuzaburo Kaku
Name of person in charge	Tomoyoshi Sato
Year of Establishment	1937
Capital	¥35,87 billion
Number of Employee	15,572
Main Products	Camera, Copy machine, others
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	
The Period expected to invest	Under consideration
	1

Name of Company	Canon Electronics Inc.
Address	1,248 Shitakagemori Chichibu-shi Saitama 〒369-18
T E L (TELEX, FAX)	0494 (23) 3111
Name of President	Hiroshi Nasu
Name of person in charge	Kiyoshi Takeuchi
Year of Establishment	1954
Capital	¥4,93 billion
Number of Employee	1,900
Main Products	Camera unit, Magnetic head, FDD, LBP, Micro machine
Type of Investment	Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	Magnetic head, 1G unit
The Period expected to invest	'89.10

Name of Company	Soshin Electric Co., Ltd.		
Address	1-18-18 Naka-magome Ota-ku Tokyo 〒143		
T E L (TELEX, FAX)	03 (775) 2111		
Name of President	Osamu Watanabe		
Name of person in charge	Noritsugu Hiraide		
Year of Establishment	1938		
Capital	¥814 million		
Number of Employee	1,000		
Main Products	Electronic parts		
Type of Investment	Sole proprietorship 2. JV 3. Technical Tie-up		
Needs for Introduction of a partner	1. Yes 2. No		
Products which supposed to be produced in Malaysia	Electronic Parts		
The Period expected to invest	After '90		

Name of Company	Tanaka Electronics Ind. Co., Ltd. 1-20-53 Kawarasone Koshigaya-shi Saitama 7343		
Address			
T E L (TELEX, FAX)	0489 (65) 5111		
Name of President	Yasuyoshi Konuma		
Name of person in charge	Yasuhiro Konuma		
Year of Establishment	1964		
Capital	¥30 mill	ion	
Number of Employee	160		
Main Products	Switch		
Type of Investment	1. Sole proprietorship 2. JV	3. Technical Tie-up	
Needs for Introduction of a partner	1. Yes 2. No		
Products which supposed to be produced in Malaysia	Switch		
The Period expected to invest	Under consideration		

Name of Company	Tamura Electric Works, Ltd.	
Address	2-2-3 Shimo-meguro Meguro-ku Tokyo 〒153	
T E L (TELEX, FAX)	03 (493) 5111	
Name of President	Akira Kohara	
Name of person in charge	Tsutomu Nagami	
Year of Establishment	1946	
Capital	¥4,77 billion	
Number of Employee	2,054	
Main Products	Public telephone, Ornamentic telephone, Pushphone, Fax. Card leader, Counter, Timer	
Type of Investment	1. Sole proprietorship 2 JV 3. Technical Tie-up	
Needs for Introduction of a partner	Yes 2. No	
Products which supposed to be produced in Malaysia	Public telephone	
The Period expected to invest	'90.4	

Name of Company	Nissei Electric Co., Ltd.
Address	1-3-18 Hiroo Shibuya-ku Tokyo 〒150
T E L (TELEX, FAX)	03 (442) 8151
Name of President	Tamigi luai
Name of person in charge	Kimiko Tsunoda
Year of Establishment	1959
Capital	¥90.0 million
Number of Employee	570
Main Products	Film condensor
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	Film capacitor
The Period expected to invest	Under consideration

Name of Company	NEC Home Electronics, Ltd.	
Address	Sumitomo Mita Build. 5-37-8 Shiba Minato-ku Tokyo 〒108	
T E L (TELEX, FAX)	03 (798) 6091	
Name of President	Ryuichi Murakami	
Name of person in charge	Daisuke Shiramizu	
Year of Establishment	1953	
Capital	¥13 billion	
Number of Employee	5,600	
Main Products	TV, PJ, VTR, Personnal computer, Peripheral device, Car electronics, Various home electric paroducts, Information end equipment and device, Lamp and lighting fixture	
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up	
Needs for Introduction of a partner	1. Yes 2. No	
Products which supposed to be produced in Malaysia	Display, VTR	
The Period expected to invest	Under consideration	

	Hitachi, Ltd.	Name of Company
4-6 Kanda Surugadai Chiyoda-ku Tokyo 〒101		Address
	03 (258) 2278	T E L (TELEX.FAX)
	Katsushige Mita	Name of President
	Masao Amano	Name of person in charge
		Year of Establishment
	¥180,3 billion	Capital
76, 210		Number of Employee
Manufacture and sales for Electronic Machinery		Main Products
Sole proprietorship 2. JV 3. Technical Tie-up		Type of Investment
	1. Yes 2. No	Needs for Introduction of a partner
Audio-visual products, Parts for home electric products, Parts for cathode-ray tube		Products which supposed o be produced in Malaysia
Sign and out of the state of th	'89 ~ '90	The Period expected to invest
	Parts for cathode-ray tube	o be produced in Malaysia The Period expected to

Name of Company	Fuji Rubber Co., Ltd.	
Address	Chishiro-Build. 4-8-16 Nihonbashi Hon-cho, Chuo-ku, Tokyo 〒103	
T E L (TELEX, FAX)	03 (270) 0130	
Name of President	Toshihiro Nishidaira	
Name of person in charge	Yoshio Suzuki	
Year of Establishment	1946	
Capital	¥300.0 million	
Number of Employee	850	
Main Products	Electronics Components	
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up	
Needs for Introduction of a partner	1. Yes 2. No	
Products which supposed to be produced in Malaysia	Electronics Components	
The Period expected to invest	'89.6	

Name of Company	Hoshiden Electronics Co., Ltd.
Address	1-4-33 Kita-Kuhoji Yao-shi Osaka 〒581
T E L (TELEX, FAX)	0729 (93) 1010
Name of President	Ryo Furuhashi
Name of person in charge	Shinji Honbo
Year of Establishment	1950
Capital	¥5,03 billion
Number of Employee	1,164
Main Products	Connector, Jack, Switch, Headphone microphone, Hand set for telephone, Small motor, Liquid crystal-indicating element
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	CRT socket, Connector, Jack(plug)
The Period expected to invest	Under consideration

Name of Company	Matsukyu Co., Ltd.	
Address	6-17-1 Sinbashi Minato-ku Tokyo 〒105	
T E L (TELEX, FAX)	03 (694) 1212	
Name of President	Kazuo Kamiya	
Name of person in charge	Kazuo Yoshimori	
Year of Establishment	1948	
Capital	¥135.0 million	
Number of Employee	170	
Main Products	Electronic component parts Switch, Connector	
Type of Investment	Sole proprietorship 2. JV 3. Technical Tie-up	
Needs for Introduction of a partner	Yes 2. No	
Products which supposed to be produced in Malaysia	Switch and Connector	
The Period expected to invest	'89.7	

Name of Company	Mitsubishi Electronics Co., Ltd.
Address	2-2-3 Marunouchi Chiyoda-ku Tokyo T 100
T E L (TELEX, FAX)	03 (218) 3566
Name of President	Moriya Shiki
Name of person in charge	Norio Harada
Year of Establishment	
Capital	¥151,31 billion
Number of Employee	48, 562
Nain Products	Heavy electric products, Communication system, Electronic device Consumer products, Industrial equipment, Auto-equipment
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	CTV, Air conditioner
The Period expected to invest	Under consideration

Name of Company	Meisei Electric Co., Ltd.	
Address	2-5-7 Koishikawa Bunkyo-ku, Tokyo 〒112	
T E L (TELEX, FAX)	03 (815) 0762	
Name of President	Chikanao Urakawa	
Name of person in charge	Saburo Nanbu	
Year of Establishment	1938	
Capital	¥1.95 billion	
Number of Employee		175
Main Products	Digital exchange device, Telephone set by electronic button, Meteorological observation device, Cosmic observation device, Telemotor device, Electronic application device	
Type of Investment	1. Sole proprietorship 2.	JV 3. Technical Tie-up
Needs for introduction of a partner	1. Yes 2.	N o
Products which supposed to be produced in Malaysia	Metal-component telephone set	
The Period expected to invest	Under consideration	

Name of Company	Iwatsu Electric Co., Ltd.	
Address	Yanagiya-Build. 2-1-10 Nihonbashi Chuo-ku Tokyo 〒168	
T E L (TELEX, FAX)	03 (271) 5131	
Name of President	Shingi Hayashi	
Name of person in charge	Chikayoshi Ishizaka	
Year of Establishment	1938	
Capital	¥5,618 billion	
Number of Employee	2,608	
Main Products	Communication equipment, Electronic process equipment, Industrial measuring device	
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up	
Needs for Introduction of a partner	1. Yes Zi No	
Products which supposed to be produced in Malaysia	Communication equipment	
The Period expected to invest	Under consideration	

Name of Company	Kyodo Communication & Electronics Inc.	
Address	1-23-6 Meguro Meguro-Ku Tokyo 〒153	
T E L (TELEX, FAX)	03 (490) 1631	
Name of President	Taro Tagami	
Name of person in charge	Taro Tagami	
Year of Establishment	1952	
Capital	¥20.0 million	
Number of Employee	8 8	
Main Products	Radio communication equipment	
Type of Investment	1. Sole proprietorship 2.	
Needs for Introduction of a partner	1. Yes 2.	
Products which supposed to be produced in Malaysia	Radio communication equipment	
The Period expected to invest	Under consideration	

Name of Company	Sakae Denshi Kogyo Co., Ltd.
Address	2791-5 Shimo-Tsuruma Yawato-shi Kanagawa 〒242
T E L (TELEX, FAX)	0462 (74) 6151
Name of President	Kaku Tetsubayashi
Name of person in charge	Yasuo Sakai
Year of Establishment	1965
Capital	¥36.0 million
Number of Employee	70
Main Products	Transformer for electronic equipment
Type of investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	
The Period expected to invest	Under consideration

Name of Company	Japan Piezo Co., Ltd.
Address	1-12-17 Kami-renjaku Mitaka-shi Tokyo T -181
T E L (TELEX, FAX)	0422 (55) 5115
Name of President	Fuminori Sato
Name of person in charge	Yoshihiro Sekiyama
	1952
Capital	¥210.0 million
Number of Employee	520
Main Products	Audio equipment and its accessories Communication equipment and its accessories
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	Audio equipment
The Period expected to invest	Under consideration
	32

Name of Company	Sanken Electric Co., Ltd.
Address	3-6-3 Kitano Niiza-shi Saitama 〒352
T E L (TELEX, FAX)	03 (986) 6159
Name of President	Koichi Kotani
Name of person in charge	Yasuo Imai
Year of Establishment	1946
Capital	¥14,22 billion
Number of Employee	5,042
Main Products	Semiconductor, Switching power supply, Power supply system
Type of Investment	1. Sole proprietorship 2. JV 3 Technical Tie-up
Needs for Introduction of a partner	1. Yes 2 No
Products which supposed to be produced in Malaysia	Switching power supply Power supply system
The Period expected to invest	Under consideration

Name of Company	Nippon Electric Glass Co., Ltd.	
Address	4-1-14 Miyahara Yodogawa-Ku Osaka-shi Osaka 7532	
T E L (TELEX, FAX)	06 (399) 2711	
Name of President	Seisaku Kisida	
Name of person in charge	Takaharu Kawagoe	
Year of Establishment	1949	
Capital	¥12,96 bil	lion
Number of Employee	4, 5	0 0
Main Products	Glass for TV cathode-ray tube, G material, Glass for electronic p Tube glass for medical instrumen	arts, Glass for heat resistance,
Type of Investment	1. Sole proprietorship 2. J	V 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. N	0
Products which supposed to be produced in Malaysia	Glass	
The Period expected to invest	Under consideration	

Name of Company	Fujitsu Ten Limited.
Address	1-2-28 Gosho-dori Hyogo-Ku Kobe-shi Hyogo 〒652
T E L (TELEX, FAX)	078 (671) 5081
Name of President	Heihachiro Ishii
Name of person in charge	Tsuneyoshi lmai
Year of Establishment	1972
Capital	¥3,3 billion
Number of Employee	2,671
Main Products	Auto-radio and Car stereo, Movable radio equipment, Electronic equipment for car
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	Yes 2. No
Products which supposed to be produced in Malaysia	Car Audio
The Period expected to invest	Under consideration

Name of Company	Fuji Electrochemical Co., Ltd.
Address	5-36-11 Shinbashi Minato-ku Tokyo 〒105
T E L (TELEX, FAX)	03 (434) 1271
Name of President	Rinzo Iwai
Name of person in charge	Kiyoshi Mori
Year of Establishment	1950
Capital	¥5,89 billion
Number of Employee	2, 235
Main Products	Manufacture and Sales for Electronic parts and battery
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for introduction of a partner	1. Yes Z. No
Products which supposed to be produced in Malaysia	
The Period expected to invest	Under consideration

Name of Company	Funai Electric Co., Ltd.
Address	7-7-1 Naka-kakinai Daito-shi Osaka 〒574
T E L (TELEX, FAX)	0720 (74) 8011
Name of President	Tetsuryo Funai
Name of person in charge	Takeshi Ito
Year of Establishment	1961
Capital	¥480.0 million
Number of Employee	905
Main Products	VTR, Acoustic sound equipment, Communication equipment, Home baker electronic range, etc.
Type of Investment	1. Sole proprietorship 2. JV 3 Technical Tie-up
Needs for Introduction of a partner	1. Yes 🙎 No
Products which supposed to be produced in Malaysia	Audio equipment
The Period expected to invest	Under consideration

Name of Company	Matsushita Electric Works, Ltd.
Address	1048 0-aza Kadoma Kadoma-shi Osaka 〒571
T E L (TELEX, FAX)	06 (906) 7492
Name of President	Sadao Fujii
Name of person in charge	Tsuyoshi Nakano
Year of Establishment	
Capital	¥38,020 billion
Number of Employee	13,735
Main Products	Lighting fixture, Wiring tool, Board dividing electricity, Tools defeuding against disaster and crime, Electric shever, relay, Micro switch, Material for roof, Door, System kitchen,
	Washing & dressing stand, Rain gutter, Tile, Forming materials
Type of Investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	_
The Period expected to invest	Under consideration

Name of Company	CTI (JAPAN) Limited.
Address	No. 7 Higashi-Build. 1-9 Kandasakuma-cho Chiyoda-ku Tokyo 〒101
T E L (TELEX, FAX)	03 (251) 8141
Name of President	
Name of person in charge	Toshifumi Tsuiji
Year of Establishment	1988
Capital	¥180.0 million
Number of Employee	27
Main Products	Audio equipment, Video equipment
Type of investment	1. Sole proprietorship 2. JV 3. Technical Tie-up
Needs for Introduction of a partner	1. Yes 2. No
Products which supposed to be produced in Malaysia	Audio equipment
The Period expected to invest	Under consideration