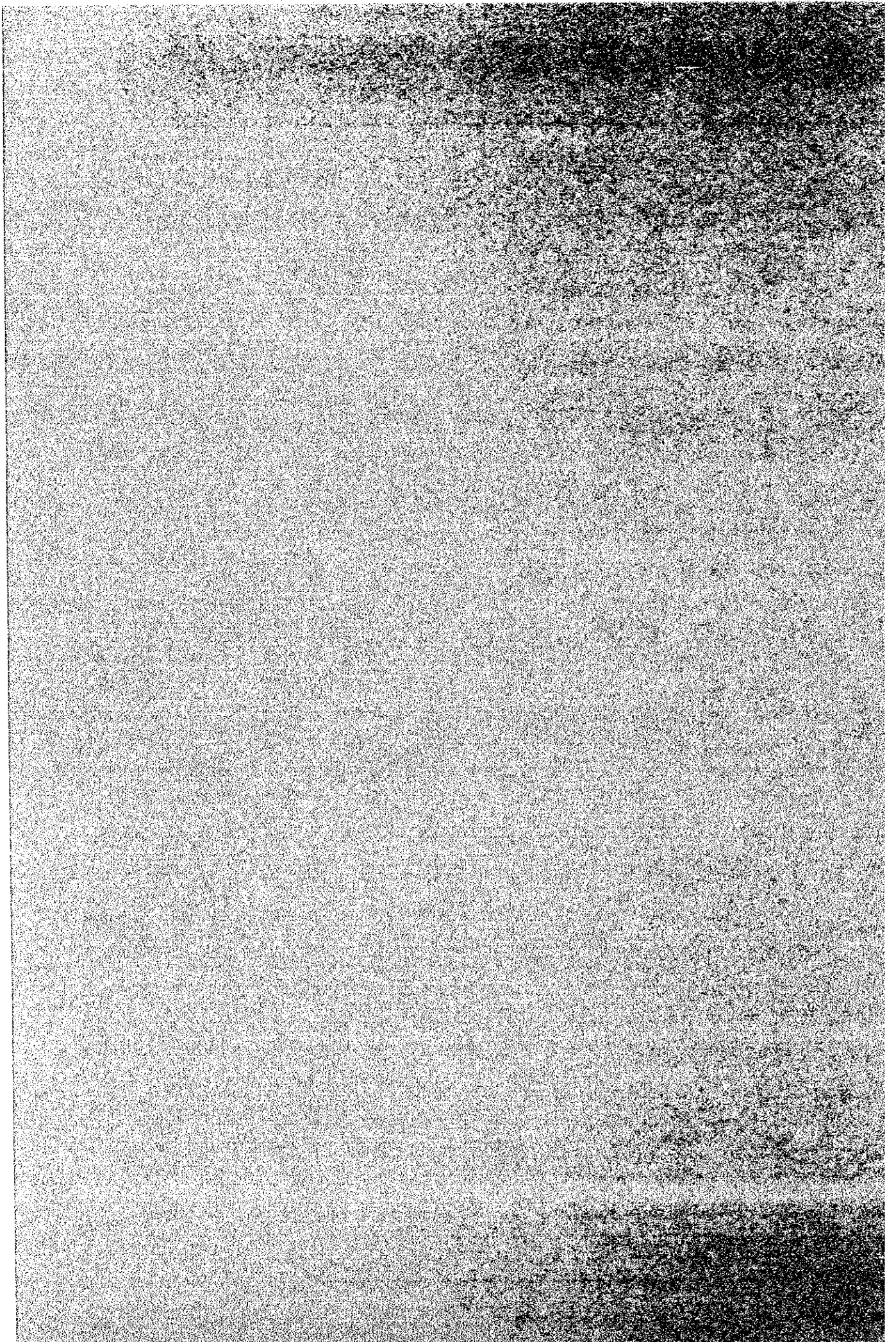


ANNEX-V

**CUSTOM CLASSIFICATION OF MAJOR ELECTRICAL
ITEMS BY HARMONIZED SYSTEM**

ANNEX-V

**CUSTOM CLASSIFICATION OF MAJOR ELECTRICAL
ITEMS BY HARMONIZED SYSTEM**



**ANNEX-V CUSTOM CLASSIFICATION OF MAJOR ELECTRICAL
ITEMS BY HARMONIZED SYSTEM**

Air Conditioner	8415.	100 - 001 810 - 005 820 - 006 830 - 007
Refrigerator	8418.	100 - 008 210 - 000 220 - 001 290 - 008 300 - 001 400 - 003 500 - 005 610 - 008 690 - 005
Washing Machine	8450.	110 - 004 120 - 005 190 - 001 200 - 005
Microwave Oven	8516.	500 - 005
Electric Fan	8415.	510 - 004
Television Receiver (TV)	8528.	100 - 006 200 - 006
VTR	8521.	900 - 002
Radio & Stereo Set	8527.	110 - 001 190 - 104 190 - 907 210 - 003 290 - 000 310 - 005 320 - 006 390 - 103 390 - 900 900 - 005
Tape Recorder	8520.	310 - 007 390 - 004 900 - 007
Telephone Set	8517.	100 - 003
Cordless Telephone Set & Transmission Apparatus	8525.	200 - 001
Facsimile	8517.	820 - 008
Data Processing Machine (With Central Processing Unit) /Computer	8471.	200 - 005
Electronic Calculator	8470.	100 - 008 210 - 000 290 - 008
Photo-Copy Machine	9009.	110 - 004 120 - 000 210 - 001 220 - 002
Word Processing Machine	8469.	100 - 004
Cash Register	8470.	500 - 005

**ANNEX-V CUSTOM CLASSIFICATION OF MAJOR ELECTRICAL
ITEMS BY HARMONIZED SYSTEM**

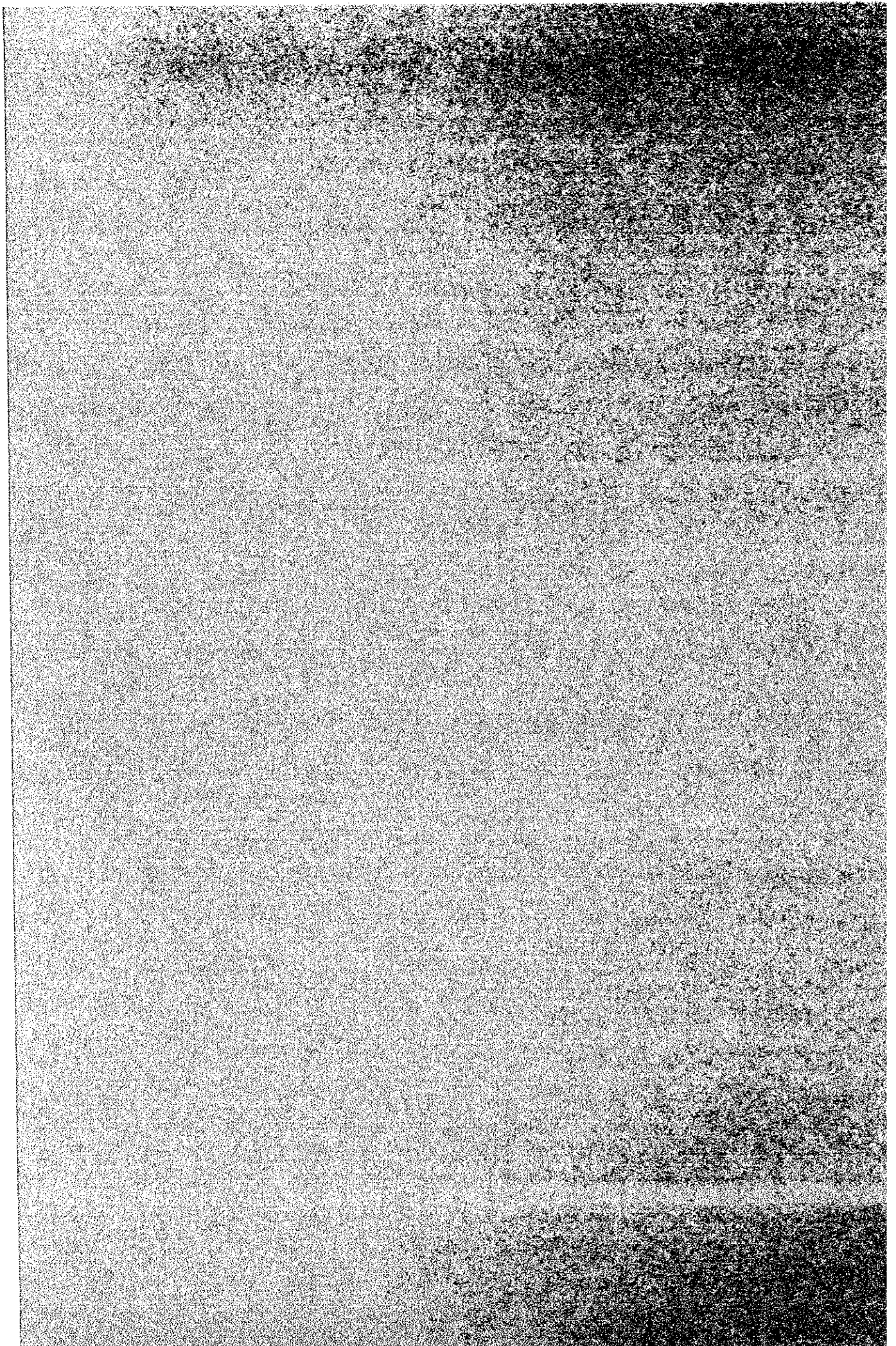
<u>Components and Parts</u>		
for Air Conditioner	8415.	900 - 006
for Refrigerator	8418.	990 - 101 - 202 - 909
for Washing Machine	8450.	901 - 004
for TV and Radio excl. CRT	8529.	902 - 009 909 - 104 - 205
<u>Critical Parts</u>		
Cathode-Ray Tube (CRT) for TV	8540.	110 - 008 120 - 009 300 - 000
Magnetron for Microwave Oven	8540.	410 - 003
<u>Electronic Parts and Device</u>		
Resistor	8533.	100 - 006 210 - 009 290 - 006 310 - 000 390 - 008 400 - 001 900 - 000
Capacitor (Condensor)	8532.	100 - 000 210 - 003 220 - 004 230 - 005 240 - 006 250 - 007 290 - 000 300 - 004 900 - 005
Transformer	8504.	310 - 004 500 - 007
Micro Motor	8501.	100 - 003
Printed Circuit Board (PCB)	8534.	000 - 004
Relay	8536.	410 - 009
Integrated Circuit (IC)	8542.	110 - 009 190 - 006 200 - 004 800 - 000 900 - 002

ANNEX-VI

**PRIMARY SUPPLIERS OF ELECTRICAL AND
ELECTRONIC PARTS/COMPONENTS**

ANNEX-VI

**PRIMARY SUPPLIERS OF ELECTRICAL AND
ELECTRONIC PARTS/COMPONENTS**



**Annex VI PRIMARY SUPPLIERS OF ELECTRICAL AND ELECTRONIC PARTS/COMPONENTS (1/7)
(ALPHABETICAL ORDERING)**

No.	Supplier	Estab.	Employee	Ownership	Products
1	A & P Polypack	1963	800	TH:100	Plastic parts
2	A.C. Rubber	n.a.	n.a.	n.a.	Rubber
3	Amagasaki Pipe	1992	22	JP:100	Pipes (Copper)
4	Asian Packing Service (Thailand)	n.a.	n.a.	n.a.	Packing Box
5	Asian Stanley International	1989	451	TH: 17.5 JP: 72.5 US: 10	Light Emitting Diodes (LED)
6	Bangbon Plastic Group	1987	216	TH:100	Plastic Parts
7	Bangkok Coil Center	1989	60	TH: 49 JP: 51	Cut Sheets/Slit Coils
8	Bangkok Metal Industry	1989	170	TH: 64 JP: 36	Copper Tubes
9	Bangkok Metropolis Motor	1980	412	TH:100	Aluminium Diecast
10	Bangkok Pacific Steel	1981	150	TH:100	Silicon Sheet
11	Bel Thai Industry	1988	33	TH: 75 BLG:25	Printed Circuit Board
12	C.M. Industry	1980	343	TH:100	Plastic Injection Parts
13	Century Inoac	1988	103	TH: 51 JP: 49	Plastic Parts (electrical)
14	Century Plastic	1973	350	TH:100	Plastic Parts
15	Chai Mongkol	n.a.	n.a.	n.a.	Plastic Parts
16	Chai Yosh	n.a.	n.a.	n.a.	Press Parts
17	Chaiyaboon Brothers	n.a.	n.a.	n.a.	Solvent
18	Chat Chawan Electronics	n.a.	n.a.	n.a.	Electronic
19	Chavin Metal Products	n.a.	n.a.	n.a.	Metal Parts
20	Cheval Electronic Enclosures	1980	250	TH: 18 US: 32 SGP:40	Press parts
21	Chinsan Electronic Industrial (Thailand)	1991	105	TH: 15 TIW:85	Capacitors (aluminum electrolytic)
22	Choke Chai Lohakit	n.a.	n.a.	n.a.	Aluminium Diecast
23	Daikin Industries (Thailand)	1991	600	JP:100	Compressors for Air Conditioners
24	Daisin Kogyo	1984	1,000	TH: 51 JP: 49	Aluminum Die-casting Parts
25	Delta Electronic (Thailand)	1988	1,480	TIW:100	Power Supply (switching)

Source: JICA Team's Compilation of directories and information from electrical and electronic set makers.

**Annex VI PRIMARY SUPPLIERS OF ELECTRICAL AND ELECTRONIC PARTS/COMPONENTS (2/7)
(ALPHABETICAL ORDERING)**

No.	Supplier	Estab.	Employee	Ownership	Products
26	Draco PCB	1990	227	TH:60.62 TIW:39.38	Printed Circuit Board
27	Dry Color Hoechst	1976	246	GE:100	Pigment
28	Eason Paint Products	1985	60	TH:100	Surface Treatment Paint
29	Elec & Eltek (Thailand)	1988	2,200	HK:100	Printed Circuit Boards
30	Far-Sights Electric	1989	210	TH: 70 n.a.: 30	Cord, Plug Cord
31	Farsight Development	n.a.	n.a.	n.a.	Wire
32	FDK Tatung (Thailand)	1992	63	JP: 50 China:50	Ferrite Core
33	Fee (Thai)	1988	233	FRA:100	Printed Circuit Boards
34	Ferko Industrial	1964	150	TH:100	Styrofoam (packaging), Insulator Materials
35	Focus Plastic	n.a.	n.a.	n.a.	Plastic Parts
36	Four Lucky Industries	n.a.	n.a.	n.a.	Plastic
37	Fujikura (Thailand)	1985	2,800	JP:100	Cord Assy (Key board, Interface)
38	Fujitsu (Thailand)	1989	3,399	JP:100	Metal Shaft
39	Furukawa Metal (Thailand)	1991	262	TH: 51 JP: 49	Copper Tube
40	Hana Microelectronics	1978	1,418	TH:100	Capasitors/Printed Board
41	Heng Charoen Metal	1973	250	TH:100	Fan Components
42	Hexa Color (Thailand)	1989	70	TH: 51 JP: 49	Pigment
43	Hitachi Bangkok Cable	1982	230	TH: 62 JP: 38	Lead Wire
44	Intertools	1978	80	TH:100	Mould & Dies
45	Johoku (Thailand)	1988	146	TH: 6 JP: 94	Wiring Harnesses
46	K.H. Metal Products	1991	250	TH:100	Press Parts
47	K.I. Enterprise	n.a.	n.a.	n.a.	Felt
48	K.L. Container	n.a.	n.a.	n.a.	Packing Box
49	Kohnam Electric	n.a.	100	n.a.	Cord, Wireharness
50	Kojo Part Standard	n.a.	n.a.	n.a.	Press Parts

Annex VI PRIMARY SUPPLIERS OF ELECTRICAL AND ELECTRONIC PARTS/COMPONENTS (3/7)
(ALPHABETICAL ORDERING)

No.	Supplier	Estab.	Employee	Ownership	Products
51	Krathum Ban Casting	n.a.	n.a.	n.a.	Balancing Weight (Metal)
52	Krungtep Union Mfg.	1979	340	TH: 75 JP: 25	Plastic Parts
53	KSS Electronics (Thailand)	n.a.	n.a.	n.a.	Electronic
54	Kulthorn Kirby	1982	920	TH:100	Compressor for Refrigerator
55	KV Electronic Assembly	1990	52	TH:100	Coil/Transformers
56	Kyoto Electric Wire	1989	96	TH: 25 JP: 75	Power Cord(electric), Printed Circuit Boards
57	Lacasa	n.a.	n.a.	n.a.	Speaker Box
58	Leng Power	1988	20	TH:100	Assembly
59	Lib Seang Limited Partnership	n.a.	n.a.	n.a.	Varnish Tube
60	Maporn Plastic	n.a.	n.a.	n.a.	Plastic Bag
61	Matsushita Refrigeration	1989	300	JP:100	Evaporators/Thermostats
62	Mitsui Toatsu Chemical	n.a.	7	n.a.	Premix, Refnate
63	Mizuki Electronics (Thailand)	1987	2,156	JP:100	VCR Components
64	Molex (Thailand)	1989	139	TH: 7 US: 93	Wire
65	Monsanto Chemicals Thailand	1987	40	TH: 26 US: 74	Resin
66	MSC PR Two Limited	1983	135	TH:100	Rubber
67	Muramoto Electron	1987	2,800	TH: 29 JP: 71	Press Parts for Magnetron, Shadow Mask & IMS for TV
68	Murata Electronics (Thailand)	1989	1,800	JP:100	Piezoelectric Buzzer, Ceramic Capacitor
69	Nakagawa East South Asia	1989	298	TH: 20 JP: 80	Switches
70	Nan Dee Intertrade	n.a.	n.a.	n.a.	Stapler
71	National Thai	1961	2,070	TH: 51 JP: 49	Speaker
72	NEC Technologies (Thailand)	1988	176	JP:100	Tantalum Chip Capacitor, Subminiature Relays
73	Nicom Jackol	n.a.	n.a.	n.a.	Spacer (Metal)
74	Nikkei Siam Aluminium	1969	395	TH: 22 JP: 75	Aluminium
75	Nippon Paint (Thailand)	1968	505	TH: 60 JP: 40	Surface Treatment Paint

**Annex VI PRIMARY SUPPLIERS OF ELECTRICAL AND ELECTRONIC PARTS/COMPONENTS (4/7)
(ALPHABETICAL ORDERING)**

No.	Supplier	Estab.	Employee	Ownership	Products
76	Nissei Trading (Thailand)	1983	43	TH: 51 LAOS:25 JP: 24	Plastic Dip Moulding/Coating
77	OKI (Thailand)	1991	241	JP:100	IC/Opto Electronic Device
78	OTG Thai	1988	136	JP:100	Ferrite Core
79	P & Son Industry	1970	147	TH: 99 TIW: 1	Surface Treatment Painting
80	P.P. Complex	n.a.	n.a.	n.a.	Stapler
81	Paibul ECP	n.a.	n.a.	n.a.	Assembly
82	Paibul Packaging	n.a.	n.a.	n.a.	Metal Panel Sheet
83	Paibul Printing	n.a.	n.a.	n.a.	Metal Name Plate/ Metal Panel Sheet
84	Paisan Loha	n.a.	n.a.	n.a.	Stand
85	Pan Industrial Supply	1987	18	TH:100	Cable Harness (radio/audio), Printed Circuit Board Assembly
86	Panasonic Welding Industry (Thailand)	1991	55	TH: 51 JP: 49	Printed Circuit Board Assembly
87	Pelmec Thai	1985	618	TH:100	Ball Bearing
88	Phien Charoen	n.a.	n.a.	n.a.	Plastic Parts
89	Posa Plastic	n.a.	n.a.	n.a.	Injection Wage
90	Printed Circuit Technology (Thailand)	1989	500	JP:100	Printed Circuit Boards, Switch, IC
91	Raymond (Thai) Membrane Switches	n.a.	n.a.	n.a.	Sticker
92	Rehau	1972	118	GE:100	Gasket, Magnet
93	Rohm Apollo Electronics	1988	750	JP:100	Transistor
94	S & T Enterprise	n.a.	n.a.	n.a.	Metal Materials
95	S. Saha Tara Thailand	1977	165	TH:100	Sticker
96	S. Sguan Patana	n.a.	n.a.	n.a.	Tape
97	S.C.H. Electric	n.a.	n.a.	n.a.	AC Cord
98	Saha Charoen Metal Plastic	n.a.	n.a.	n.a.	Injection Wage
99	Saha Tara (Thailand)	1977	165	TH:100	Self-Adhesive Tape, Stickers
100	Saha Union	1979	n.a.	n.a.	Plastic Parts

Annex VI PRIMARY SUPPLIERS OF ELECTRICAL AND ELECTRONIC PARTS/COMPONENTS (5/7)
(ALPHABETICAL ORDERING)

No.	Supplier	Estab.	Employee	Ownership	Products
101	Sang Rung Ruang	n.a.	n.a.	n.a.	Metal Shaft
102	Sanyo Universal Electric	1959	4,644	TH: 51 JP: 49	Refrigerator/Compressors
103	Showa International Trading (S.I.T.)	n.a.	n.a.	n.a.	Connector
104	Siam Compressor Industry	1990	580	TH: 60 JP: 40	Compressors for Air Conditioner
105	Siam Electric & Metal	n.a.	n.a.	n.a.	Press Parts
106	Siam Electric Industry	n.a.	190	n.a.	Magnet Wire
107	Siam Insulation	n.a.	n.a.	n.a.	Foam Packing
108	Siam Steel Service Center	1985	705	TH: 51 JP: 49	Steel
109	Siam Tinplate	1992	246	TH: 60 JP: 40	Tin Plate
110	Sino Thai Yong	n.a.	n.a.	n.a.	Mild Steel/Steel Wire
111	Siri Rung Roj Engineering	n.a.	n.a.	n.a.	Condenser
112	Sony Magnetic Products (Thailand)	1988	566	JP:100	Cassette tapes
113	Sony Semiconductor (Thailand)	1989	216	JP:100	IC
114	Sound & Light Industry	n.a.	n.a.	n.a.	AC Cord
115	Srithai Superware	1963	3,000	TH:100	Injection Wage/Plastic Parts
116	Srithepthai	n.a.	n.a.	n.a.	Resin
117	Sritong	n.a.	n.a.	n.a.	Plastic Parts
118	Sritong Electro Chemical	n.a.	n.a.	n.a.	Aluminum Plate
119	Sritong Electrochemical	n.a.	n.a.	n.a.	Alminum Plate
120	Star Electronic	n.a.	n.a.	n.a.	Speaker
121	Sui Hua	n.a.	n.a.	n.a.	Wooden Case
122	Sum Hitechs	1989	80	TH: 19 JP: 81	IC, Metal Coating (chromium)
123	Sumitomo Electric (Thailand)	n.a.	n.a.	n.a.	Magnet Wire
124	Summit Electronic Components	1988	300	TH:100	VHS head, FDD head
125	Sunny Precision (Thailand)	1989	65	TH: 20 JP: 80	Plastic Pars (electronic)

**Annex VI PRIMARY SUPPLIERS OF ELECTRICAL AND ELECTRONIC PARTS/COMPONENTS (6/7)
(ALPHABETICAL ORDERING)**

No.	Supplier	Estab.	Employee	Ownership	Products
126	Super Fine Works	n.a.	n.a.	n.a.	Plastic Parts
127	Surapim	n.a.	n.a.	n.a.	Display Box
128	SYK Spare Parts	1967	280	TH:100	Yoke Axle (Metal)
129	T. Krungthai Industry	1965	350	TH:100	Plastic Parts
130	Takahashi Plastics	1988	300	TH: 66 JP: 34	Plastic Injection Parts
131	Tanin Condenser	1977	1,062	TH: 27 JP: 73	Condenser
132	Tanin Hitech	1981	19	TH:100	Attenuators (microwave ovens)
133	Techno Foam	1990	118	TH: 60 JP: 40	Foam Packing
134	Thai Arrow Products	1962/3	10,508	TH: 10 JP: 90	Terminal, Connector
135	Thai Asahi Denki	1989	260	TH: 5 JP: 78 TIW: 17	Resistor
136	Thai Chanathorn Industry	1984	380	TH:100	Magnet
137	Thai Compressor Mfg.	1988	490	TH: 60 JP: 40	Compressors for Air Conditioners
138	Thai Container Industry	n.a.	n.a.	n.a.	Packing Box
139	Thai CRT	1986/89	13,770	TH: 70 JP: 30	CRT
140	Thai Electroplating	n.a.	n.a.	n.a.	Surface Treatment Painting
141	Thai Foam	1963	180	TH:100	EPS Foam Packaging, EPS Foam Sheet
142	Thai Hitachi Enamel Wire	1980	350	TH: 69 JP: 24	Enamel Wire
143	Thai Industrial Parts	1990	100	TH:100	Surface Treatment Painting/ Press parts
144	Thai Kansai Paint	1970	200	TH: 60 JP: 40	Paints & Thinner
145	Thai Kodama	1988	87	TH: 52 JP: 48	Plastic Parts
146	Thai Mitsuwa	1988	380	TH: 55 JP: 45	Cabinet Front Assy for VTR
147	Thai Multicore	1981	35	TH:100	Solder Bar/Wire
148	Thai Polyglass & Chemical	1985	20	TH:100	Plastic Sheet
149	Thai Refrigeration Components	1989	94	TH: 70 JP: 30	Evaporator for Refrigerator
150	Thai Steel Service Center	1981	250	TH: 51 JP: 49	Steel Sheet

Annex VI PRIMARY SUPPLIERS OF ELECTRICAL AND ELECTRONIC PARTS/COMPONENTS (7/7)
(ALPHABETICAL ORDERING)

No.	Supplier	Estab.	Employee	Ownership	Products
151	Thai Tinsplate Mfg.	1958	634	TH: 60 JP: 40	Tin Plate
152	Thai United Plastic Industry	n.a.	n.a.	n.a.	Injection Wage
153	Thai Varodom	n.a.	n.a.	n.a.	Injection Wage
154	Thai Wire & Cable Services	1988	797	TH: 10 JP: 90	Wiring Harnesses (electrical)
155	Thai-Sanei	1987	140	JP:100	Metal Parts for microwave ovens/refrigerators
156	Thep Chai	n.a.	n.a.	n.a.	Plastic Parts
157	Thong Samut	n.a.	n.a.	n.a.	Plastic Shrink Film
158	Thongchai Manufacturing	1988	36	TH:100	Press Parts for Electrical Appliance
159	Toho Foam (Thailand)	1989	135	TH: 62.5 JP: 18.75 SGP:18.75	Foam (EPS for packaging)
160	Tong Heng Long	n.a.	n.a.	n.a.	Stand
161	Toyo Valve Thailand	1990	155	TH: 24 JP: 76	Brass Casting
162	Union Nifco	1988	27	TH: 52 JP: 48	Plastic
163	Union Plastic	1969	120	TH:100	Plastic Parts
164	Unique Plastic	n.a.	n.a.	n.a.	Plastic Bag
165	Universal Trading	n.a.	n.a.	n.a.	Resin
166	V. Brother Industry	n.a.	n.a.	n.a.	Surface Treatment Thinner & Paint
167	Virasak Engineering	1985	25	TH:100	Switching Power Supply, Electronic Thermostat
168	Watana Bhand Panich R.O.P. (Packaging)	n.a.	n.a.	n.a.	Stapler
169	Watana Inter Trade	n.a.	55	n.a.	Aluminium
170	Winson Screen	n.a.	n.a.	n.a.	Color for silk screen
171	Wireforms	1988	80	TH: 65 IND,SGP:35	Springs(precision)/ Press parts
172	World House	n.a.	300	n.a.	Plastic Color
173	World Pigment Chemical	1973	250	TH:100	Plastic Compound
174	Yoni Seri	n.a.	n.a.	n.a.	Terminal
175	3K Plastic	n.a.	n.a.	n.a.	Plastic Parts