

ANNEX 6-1 Record of C/P Allocation for the Project (1)

Counterpart and Other Personnel	Nov. 1995		Mar. 1997		1 Jan. 1998		Aug. 1998		Mar. 1999		Sep. 1999		Oct. 1999	
	Plan	Status	Plan	Status	Plan	Status	Plan	Status	Plan	Status	Plan	Status	Plan	Status
General Manager [or Director]	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Special Project Manager [or Manager]	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Consultant	2	0	2	1	2	0	0	0	0	0	0	0	0	0
Secretary [or Head (Administration)]	1	1	1	1	1		0	0	0	0	0	0	0	0
Secretary [or Supporting Staff (Administration)]	2	1	2	1	2	2	2	2	2	2	2	2	2	2
Driver [or Supporting Staff (Driver)]	1	0	1	1	1	1	1	1	1	1	1	1	1	1
Head (Health-care)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Researcher [or Core-staff](Health-care)	4	3	4	3	7	3	7	3	7	5	7	4	7	5
Assistant Resercher [or Executive or Supporting staff or Staff] (Health-care)	3	0	3	1	3	1	3	1	3	3	3	3	3	3
Head (Industry)	1	1	1	1	1	1	1	0	1	0	1	0	1	0
Researcher [or Core-staff] (Industry)	8	4	8	5	8	5	8	7	8	7	8	8	8	10
Assistant Resercher [or Executive or Supporting staff or Staff] (Industry)	6	0	6	1	6	0	6	1	6	3	6	3	6	3
Total	31	13	31	18	34	15	30	17	30	23	30	23	30	26

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ANNEX 6-2 Record of C/P Allocation for the Project (2)

☐ : C/P at the time of Final Evaluation

Position engaged in	Name	Position	Tenure of office	JFY 1995				1996				1997				1998				1999				
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
				C/P(Plan)	34	34	34	34	34	34	34	34	34	34	34	30	30	30	30	30	30	30	30	30
C/P(Results)	7	8	8	14	18	16	17	20	20	18	17	17	15	17	17	22	23	23	25					
General Manager [or Director]	<i>Mr. Asmadi Md Said</i>		1 Mar 1995 - 2 Jan 1996																					
	<i>Dr. Ahmad Zakaria</i>	General Manager	15 Aug 1996																					
Manager [or Special Project Manager]	<i>Mr. Raja Muda Raja Ngah</i>		1 Mar 1995 - 31 Aug 1997																					
Consultant	<i>Prof. Dato' Dr. Khairuddin Yusof</i>		1 Apr 1996 - 30 Jun 1997																					
Secretary [or Administrative staff]	<i>Ms. Rusmawati Mokhtar</i>	Secretary	2 Jan 1996																					
	<i>Ms. Tee Eliza Mohamad</i>	Secretary	1 Dec 1995																					
Driver	<i>Mr. Mohamad Sani Mohd Sadly</i>	Driver	1 Apr 1996																					
Head (Health-Care)	<i>Ms. Siti Fatimah Binti Md Saad</i>	Head (Health-Care)	1 Mar 1995																					
Researcher [or Core-staff] (Health-Care)	<i>Mr. Omar Bin Mohammad</i>		1 Oct 1995 - 31 Dec 1997																					
	<i>Mr. Mohd. Suhair Bin Embong</i>		1 Mar 1995 - 1 Jan 1997																					
	<i>Ms. Norrozila Sulaiman</i>		20 Mar 1995 - 11 Aug 1999																					
	<i>Ms. Hamsina Abu Bakar</i>		25 Oct 1996 - 16 Jul 1997																					
	<i>Mr. Mohd Izani Mohammad Rawi</i>	Researcher	1 Dec 1997																					
	<i>Mr. Zaidi Mohammad Ali</i>	Researcher	17 Nov 1997																					
	<i>Ms. Rogayah binti Ghazali</i>	Researcher	1 Oct 1998																					
	<i>Ms. Hanizah binti Wahidin</i>	Researcher	5 Oct 1998 - 31 Aug 1999																					
	<i>Mr. Hasnizar B. Mazlan</i>	Researcher	1 Sep 1999																					
	<i>Mr. Muhammad Affendi Hamzah</i>	Researcher	1 Oct 1999																					
	Assistant Researcher [or Staff] (Health-Care)	<i>Ms. Anita Ariffin</i>	Assistant Researcher	15 Dec 1995																				
<i>Ms. Khamariah Binti Busu @ Ismail</i>		Assistant Researcher	1 Oct 1998																					
<i>Ms. Nafizah Mohamad</i>		Assistant Researcher	2 Feb 1999																					

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☐ : C/P at the time of Final Evaluation

Position engaged in	Name	Position	Tenure of office	JFY 1995				1996				1997				1998				1999			
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Head (Industry)	<i>Mr. Aznam Abdullah</i>		1 Mar 1995 - 30 Feb 1996	—	—	—	—																
	<i>Mr. Mohamad Bin Che Su</i>	Study abroad	1 Jun 1995 - 30 Apr 1998		—	—	—	—															
Researcher [or Core-staff] (Industry)	<i>Mr. Sarifulnizam Abu Bakar</i>		1 Mar 1995 - 24 Feb 1997	—	—	—	—																
	<i>Mr. Chin Kean Kheong</i>		2 Oct 1995 - 30 Apr 1998 1 Oct 1998 - 24 Dec 1998		—	—	—	—							—								
	<i>Ms. Zalinda Baharum</i>	Researcher	6 Nov 1995		—	—	—	—															
	<i>Mr. Wan Roshaimi Wan Abdullah</i>		15 Dec 1995 - 15 Feb 1996		—	—	—	—															
	<i>Ms. Hasnahwati Bte. Ibrahim</i>	Researcher	2 Jan 1996		—	—	—	—															
Researcher [or Core-staff] (Industry)	<i>Mr. Faizal Mustapha</i>		8 Oct 1996 - 26 May 1999					—	—														
	<i>Mr. Ibrahim Jaafar</i>	Researcher	3 Oct 1996					—	—														
	<i>Ms. Faridah Abdul Rahman</i>	Researcher	1 May 1998											—	—								
	<i>Mr. Yusman Yusuf</i>	Researcher	1 Jul 1998											—	—								
	<i>Tuan Haji Dr Mohd Asri bin Mansor</i>	Researcher	28 Aug 1998											—	—								
	<i>Mr. Azizi Ab. Aziz</i>	Researcher	1 Sep 1999																		—	—	
	<i>Ms. Romiza Md. Nor</i>	Researcher	6 Sep 1999																		—	—	
	<i>Mohd Fauzi Osman</i>	Researcher	11 Oct 1999																		—	—	
Assistant Researcher [or staff] (Industry)	<i>Ms. Noralita Ramli</i>		15 Dec 1995 - 29 Nov 1997		—	—	—	—															
	<i>Ms. Roslina Abdul Kadir</i>	Assistant Researcher	21 Apr 1998											—	—								
	<i>Ms. Norzila Binti Abdullah</i>	Assistant Researcher	1 Oct 1998											—	—								
	<i>Mr. Zaidee Md Ismail</i>	Assistant Researcher	2 Nov 1998											—	—								

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ANNEX 7 Record of Regular Meetings

Legend: () = Former counterpart personnel and Japanese experts
85 meetings 1995 - 1999 (Oct)

(A) AISDEL Management Meeting (AMM)

Attendees:	Counterparts -		
	Vice President	Dr. Mohd. Shazali Hj. Othman	
	General Manager	Dr. Ahmad Zakaria	(Mr. Asmadi Md Said)
	(Manager)		(Mr. Raja Muda Raja Ngah)
	(Consultant)		(Prof. Dato' Dr. Khairuddin Yusof)
	Researcher	Ms. Hasnahwati Bte. Ibrahim	
	Secretary	Ms. Rusmawati Mokhtar	
	Japanese experts -		
	Chief Advisor	Mr. Kazunori SUZUKI	(Mr. Shingoro TSUCHIYA)
	Coordinator	Mr. Masaaki DOI	(Mr. Izumi YAMAMOTO)
	Expert	Ms. Kaoru HANAOKA	(Mr. Mitsuyuki NAGATANI)
	JICA Malaysia Office	Mr. Motonori TANAKA	(Mr. Kenji TOBITA)

(B) AISDEL Technical Meeting (ATM)

119 meetings 1995 - 1999 (Oct)

Attendees:	Counterparts -			
	General Manager	Dr. Ahmad Zakaria		
	(Manager)		(Mr. Raja Muda Raja Ngah)	
	Industry Group	Ms. Zalinda Baharum	(Mr. Aznam Abdullah)	(Mr. Chin Kean Kheong)
		Mr. Yusman Yusuf	(Mr. Mohamad Bin Che Su)	
		Mr. Zaidee Md Ismail	(Mr. Sarifulnizam Abu Bakar)	
	Healthcare Group	Ms. Siti Fatimah Binti Md Saad	(Mr. Omar Bin Mohammad)	
		Mr. Mohd. Izani Mohammad Rawi	(Mr. Mohd. Suhair Bin Embong)	
		Mr. Zaidi Mohammad Ali	(Ms. Norrozila Sulaiman)	
	Management	Ms. Hasnahwati Bte. Ibrahim		
	Japanese experts -			
	Expert	Ms. Kaoru HANAOKA	(Mr. Mitsuyuki NAGATANI)	
		Mr. Yoshinune SHIBATA	(Mr. Junichiro MIZOGUCHI)	
		Mr. Shu ABE	(Mr. Hironori ONUMA)	
Mr. Jun KIMURA		(Mr. Mitsuru IWASAKI)		

(C) Task Force Meeting (TFM)

Once a week 1995 - 1999

Attendees:

1) Industry group

Counterparts -	All staff in charge of development in Industry group	
Japanese experts -	Mr. Shu ABE	(Mr. Mitsuru IWASAKI)

2) Healthcare group

Counterparts -	All staff in charge of development in Healthcare group	
Japanese experts -	Mr. Yoshimune SHIBATA	(Mr. Junichiro MIZOGUCHI)
		(Mr. Hironori ONUMA)

3) AI short course and management team

Counterparts -	All staff in charge of conducting AI short course and management	
Japanese experts -	Mr. Jun KIMURA	

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ANNEX 8 Budget Allocation for the Project by Malaysian Side

1. Budget allocation of the project (1994-1995,1996-2000), based on Malaysian Fiscal Year (Jan - Dec).

(Request to Government) (Unit : RM)

	1994 - 1995	1996 - 2000	Note
a) Preparation of project site	255,000	485,000	
b) Allowance of staffs	840,000 (168 Man Months)	8,640,000 (1,728 Man Months)	Counterparts
	1,500 (1 Man Month)	654,000 (249 Man Months)	Others
c) Equipment purchase and maintenance	615,000	1,218,000	
d) Operating expenses contract personnel	210,000	3,045,000	
Total Amount	1,921,500	14,042,000	

2. Budget allocation of the project (1996,1997,1998,1999), based on Malaysian Fiscal Year (Jan - Dec).

(Actual Budget Allocation) (Unit : RM)

	1995	1996	1997		1998		1999		2000
	Actual	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan
a) Preparation of project site (Building renovation and furniture)	50,000	50,000	0	0	10,000	0	10,000	50,000	20,000
b) Allowance of staffs (Allowance)	200,000	500,000	1,100,000	600,000	1,000,000	700,000	961,000	**1,000,000	1,500,000
c) Equipment purchase and maintenance (Maintenance)	0	*300,000	320,000	360,000	350,000	100,000	258,000	**258,000	680,000
d) Operating expenses contract personnel (Travel & transport, rental, utilities, and contract personnel)	40,000	110,000	360,000	130,000	128,000	86,000	100,000	**100,000	1,000,000
Total Amount	290,000	960,000	1,780,000	1,090,000	1,488,000	886,000	1,329,000	**1,408,000	3,200,000

Total Amount (1995 - 1999 actual expenditure) 4,626,000

Notes: *: Asset transfer from the Software Development Group

** : Projection expenditure

ANNEX 9-1 Record of Machinery and Equipment Provided by the Japanese Side

Japan Fiscal Year	Arrival to Site		Description	Q'ty	Amount		Remarks ID No.
	Y	M			K¥	(RM)	
1994	'95	4	UNIX Workstation (A) (Lab.1): HITACHI 3050RX/225	5	16,730		WSA08 to WSA12
			Software for UNIX Workstation (A) (Lab.1)	5	17,800		SWSA08 to SWSA12
			Note Type Computer: APPLE Power Book 540C, Additional Memory, Software	1	888		PC01
			Printer: CANON Laser Shot B406	1	204		EQ0006
1995	'95	7	Printer: Laser Wind 1040PS	1	195		EQ0007
			Machine Translation Software: BRAVIS J/E CERS 5.2 for Windows	1	150		SPC001
			Note Type PC: DELL latitude XP 4100C, Software	2	1,012		PC02,PC03
		10	UNIX Server (1): HITACHI 3500/545	1	23,828		WS SV1(Server1)
			Software for UNIX Server(1)	1	15,530		SWSSV1
			UNIX Workstation(A)(Lab.2): HITACHI 3050RX/225	7	23,422		WSA01 to WSA07
			Software for UNIX Workstation(A)(Lab.2)	7	27,720		SWSA01 to SWSA07
		11	Desktop Type Computer: APPLE Power Mac 8100/100, Software	1	822		PC04
			UPS	1	2,907	(75,100)	EQ0001
	'96	2	Equipment for network communication (1): Hub 4, Router 1, Patch Panel 2	1	2,155	(55,672)	EQ0002
			Desktop Type PC: AST Brovo MS P/133	2	1,550	(40,000)	PC05,PC06
			Photocopying Machines: CANON Copier NP 6050	1	1,471	(38,000)	EQ0008
3	Vehicle MITSUBISHI L-400, 2400cc	1	4,709	(121,650)	EQ0003		
	File Server for Health-care (A): ACER Altos 7000 Premium (96MB), Image Scanner (A3,1800dpi for color), Color Printer, Recordable CD-ROM Drive	1	6,441	(166,400)	PC07		
	File Server for Industry (B): ACER Altos 7000 Premium(64MB), Image Scanner (A3,1800dpi for color), Color	1	2,460	(68,200)	PC08		
	Desktop PC for Technical information (D): ACER Altos 7000 Premium (32MB), Printer, Video Capture Board(1uit), Software	2	4,340	(114,000)	PC09,PC10		

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Japan Fiscal Year	Arrival to Site		Description	Q'ty	Amount		Remarks ID No.
	Y	M			K¥	(RM)	
1995	'96	3	Equipment for network communication (2): Modem 20, Router 1, others	1	3,648	(94,000)	EQ0004
			Television: PANASONIC 33" CTV, TX-33GF-15X	1	170	(4,370)	EQ0009
			Electronic White Board: PANABOARD KX-B620	3	441	(11,400)	EQ0010
			Slide Projector: ELMO OMNIGRAPHIC 253	1	103	(2,640)	EQ0011
			Over Head Projector: ELMO HP-285P	1	101	(2,600)	EQ0012
			Liquid Crystal Display Projector: HITACHI LCD Projector CP-L300	1	906	(23,400)	EQ0013
			Software for File Server (For Health-care & Industry) (C)	1	850	(21,900)	SPC002
			Printer with Software for Machintosh (For Technical Information)	1	412	(10,640)	EQ0014
			Tower PC (For Health-care & Industry): ACER Altos 7000 Premium(32MB), Printer, Software	2	2,014	(52,000)	PC11,PC12
			Desktop Type PC (For Remote Site): ACER Altos 7000 Premium(32MB), Printer,FAX Modem, Software	5	5,575	(144,000)	PC13 to PC17
			Note Type PC (For Business Trip to Remote Site): TI Extensa 560CDT TFT, Software	2	1,690	(43,600)	PC18,PC19
1996	'96	10	UNIX Server(2): HITACHI 3050RX/225	1	6,842		WS SV2(Server2)
			Software for UNIX Server (2)	1	7,663		SWSSV2
			UNIX Server (3): HITACHI 3050RX/225	1	3,379		WS SV3(Server3)
			Software for UNIX Server (3)	1	812		SWSSV3
			UNIX Workstation (B): HITACHI 3050RX/205	10	32,960		WSB01 to WSB10
			Software for UNIX Workstation (B)	10	20,530		SWSB01 to SWSB10
			UNIX Workstation (C): HITACHI 3050RX/225	7	24,094		WSC01 to WSC07
			Software for UNIX Workstation (C)	7	47,183		SWSC01 to SWSC07
			Large Screen Projector (70"): HITACHI C70-1151R	1	16,537		EQ0005
'97	3	Desktop Type PC: ACERPOWER ULTIMA P200	1	164	(3,900)	PC22	

Japan Fiscal Year	Arrival to Site		Description	Q'ty	Amount		Remarks ID No.
	Y	M			K¥	(RM)	
1997	'97	7	Desktop Type PC: Flora 330, PC-5DC01-ZDOMA 16MB, Software	1	500		PC20
	'98	1	Database Access Software(1): Personal Oracle7	2	107	(2,970)	SPC003, SPC004
			Database Access Software(2): Microsoft Visual Studio 97 Enterprise	2	436	(12,200)	SPC005 SPC006
	2		Software Upgrade for UNIX Workstation (A) (Lab.1)	5	13,398		SWSA08U to SWSA12U
			Data Mining Tool	3	2,769		SPC007 to SPC009
	3		Development Software: Microsoft Office Professional Edition	2	202		SPC010, SPC011
			Development Software: Microsoft Visual Studio 97 Enterprise	2	210		SPC012, SPC013
1998	'98	7	Note Type PC: FMV-BIBLO NPV16D3 32MB, LANCard, SCSI-2, Software	1	443		PC21
	'99	2	Note Type PC: Hitachi Notebook 270 32MB, Software	2	696	(22,800)	PC23, PC24
			Desktop Type PC: Compaq DPEP 6/400 NetworkCard, SCSI, Win98, Software	4	1,342	(43,956)	PC 25 to PC28
		3	Desktop Type PC: Gateway G6-400 NetworkCard, Win98	2	505	(15,712)	PC29, PC30
1999	'99	7	Plasma Display (50"): Pioneer PDP-501MX	1	2,372	(73,900)	EQ0017
Total					*353,388	(1,657,410)	

Notes: *: Japanese Yen was calculated using the currency rate at the time.

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**ANNEX 9-2 Record of Management of Machinery and Equipment Management List
(Provided by the Japanese Side)**

I. Workstation

ID	Description	Location	Usage Status	Equipment Status	Remark
WSA01	UNIX Workstation(A)(Lab.2)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSA02	UNIX Workstation(A)(Lab.2)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSA03	UNIX Workstation(A)(Lab.2)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSA04	UNIX Workstation(A)(Lab.2)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSA05	UNIX Workstation(A)(Lab.2)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSA06	UNIX Workstation(A)(Lab.2)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSA07	UNIX Workstation(A)(Lab.2)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSA08	UNIX Workstation (A) (Lab.1)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSA09	UNIX Workstation (A) (Lab.1)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSA10	UNIX Workstation (A) (Lab.1)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSA11	UNIX Workstation (A) (Lab.1)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSA12	UNIX Workstation (A) (Lab.1)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSB01	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB02	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB03	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB04	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB05	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB06	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB07	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB08	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB09	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSB10	UNIX Workstation (B)HITACHI 3050RX/205	Training Room	A	A	
WSC01	UNIX Workstation (C)HITACHI 3050RX/225	Remote Site(IPOH Hospital)	A	A	
WSC02	UNIX Workstation (C)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSC03	UNIX Workstation (C)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSC04	UNIX Workstation (C)HITACHI 3050RX/225	Lab(HealthCare)	A	A	
WSC05	UNIX Workstation (C)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSC06	UNIX Workstation (C)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSC07	UNIX Workstation (C)HITACHI 3050RX/225	Lab(Industry)	A	A	
WSSV1	UNIX Server (1)HITACHI 3500/545	Lab(Server Room)	A	A	
WSSV2	UNIX Server(2)HITACHI 3050RX/225	Training Room	A	A	
WSSV3	UNIX Server (3)HITACHI 3050RX/225	Server Room	A	A	

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2. Personal Computer

ID	Description	Location	Usage Status	Equipment Status	Remark
PC01	Note Type Computer APPLE Power Book 540C, Additional Memory, Software	Coordinator Room	A	A	
PC02	Note Type PC DELL latitude XP 4100C, Software	Remote Site(IPOH Hospital)	A	A	
PC03	Note Type PC DELL latitude XP 4100C, Software	Expert Room	A	A	
PC04	Desktop Type ComputerAPPLE Power Mac 8100/100, Software	Expert Room	C	A	
PC05	Desktop Type PCAST Brovo MS P/133	Expert Room	A	A	
PC06	Desktop Type PCAST Brovo MS P/133	Expert Room	A	A	
PC07	File Server for Health-care (A)ACER Altos 7000 Premium (96MB), Image Scanner (A3,1800dpi for color), Color Printer, Recordable CD-ROM Drive	Lab(HealthCare)	A	A	
PC08	File Server for Industry (B)ACER Altos 7000 Premium(64MB), Image Scanner (A3,1800dpi for color),Color	Lab(Industry)	A	A	
PC09	Desktop PC for Technical information (D)ACER Altos 7000 Premium (32MB), Printer, Video Capture Board(1uit),Software	Expert Room	A	A	
PC10	Desktop PC for Technical information (D)ACER Altos 7000 Premium (32MB), Printer, Video Capture Board(1uit),Software	Lab(HealthCare)	A	A	
PC11	Tower PC (For Health-care & Industry)ACER Altos 7000 Premium(32MB), Printer,Software	Lab(HealthCare)	A	A	
PC12	Tower PC (For Health-care & Industry)ACER Altos 7000 Premium(32MB), Printer,Software	Lab(Industry)	A	A	
PC13	Desktop Type PC (For Remote Site)ACER Altos 7000 Premium(32MB), Printer,FAX Modem, Software	Lab(HealthCare)	A	A	
PC14	Desktop Type PC (For Remote Site)ACER Altos 7000 Premium(32MB), Printer,FAX Modem, Software	Remote Site(IPOH Hospital)	A	A	
PC15	Desktop Type PC (For Remote Site)ACER Altos 7000 Premium(32MB), Printer,FAX Modem, Software	Remote Site(IPOH Hospital)	A	A	
PC16	Desktop Type PC (For Remote Site)ACER Altos 7000 Premium(32MB), Printer,FAX Modem, Software	Remote Site(IPOH Hospital)	A	A	
PC17	Desktop Type PC (For Remote Site)ACER Altos 7000 Premium(32MB), Printer,FAX Modem, Software	Remote Site(IPOH Hospital)	A	A	
PC18	Note Type PC (For Business Trip to RemoteSite) TI Extensa 560CDT TFT, Software	Lab(HealthCare)	A	A	
PC19	Note Type PC (For Business Trip to RemoteSite) TI Extensa 560CDT TFT, Software	Lab(Industry)	A	A	
PC20	Desktop Type PCFlora 330, PC-5DC01-ZDOMA16MB,Software	Expert Room	A	A	
PC21	Note Type PCFMV-BIBLO NPV16D332MB, LANCard, SCSI-2, Software	Chief Advisor Room	A	A	
PC22	Desktop Type PCACERPOWER ULTIMA P200	Training Room	A	A	
PC23	Note Type PCHitachi Notebook 27032MB, Software	Lab(Industry)	A	A	
PC24	Note Type PCHitachi Notebook 27032MB, Software	Lab(HealthCare)	A	A	
PC25	Desktop Type PCCompaq DPEP 6/400NetworkCard, SCSI, Win98, Software	Lab(Industry)	A	A	
PC26	Desktop Type PCCompaq DPEP 6/400NetworkCard, SCSI, Win98, Software	Lab(Industry)	A	A	
PC27	Desktop Type PCCompaq DPEP 6/400NetworkCard, SCSI, Win98, Software	Lab(HealthCare)	A	A	
PC28	Desktop Type PCCompaq DPEP 6/400NetworkCard, SCSI, Win98, Software	Lab(HealthCare)	A	A	
PC29	Desktop Type PC Gateway G6-400 NetworkCard,Win98	Expert Room	A	A	
PC30	Desktop Type PC Gateway G6-400 NetworkCard,Win98	Expert Room	A	A	

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3. Software

ID	Description	Location	Usage Status	Equipment Status	Remark
SPC001	Machine Translation SoftwareBRAVIS J/E CERS 5.2 for Windows	Expert Room	A	A	
SPC002	Software for File Server (For Health-care &Industry) (C)	Lab.	A	A	
SPC003	Database Access Software(1)Personal Oracle7	Staff Room	A	A	
SPC004	Database Access Software(1)Personal Oracle7	Staff Room	A	A	
SPC005	Database Access Software(2)Microsoft Visual Studio 97 Enterprise	Staff Room	A	A	
SPC006	Database Access Software(2)Microsoft Visual Studio 97 Enterprise	Staff Room	A	A	
SPC007	Data Mining Tool	Expert Room	A	A	
SPC008	Data Mining Tool	Lab(HealthCare)	A	A	
SPC009	Data Mining Tool	Lab(Industry)	A	A	
SPC010	Development SoftwareMicrosoft Office Professional Edition	Expert Room	A	A	
SPC011	Development SoftwareMicrosoft Office Professional Edition	Expert Room	A	A	
SPC012	Development SoftwareMicrosoft Visual Studio 97 Enterprise	Expert Room	A	A	
SPC013	Development SoftwareMicrosoft Visual Studio 97 Enterprise	Expert Room	A	A	
SWSA01	Software for UNIX Workstation(A)(Lab.2)	Lab(HealthCare)	A	A	
SWSA02	Software for UNIX Workstation(A)(Lab.2)	Lab(HealthCare)	A	A	
SWSA03	Software for UNIX Workstation(A)(Lab.2)	Lab(HealthCare)	A	A	
SWSA04	Software for UNIX Workstation(A)(Lab.2)	Lab(HealthCare)	A	A	
SWSA05	Software for UNIX Workstation(A)(Lab.2)	Lab(Industry)	A	A	
SWSA06	Software for UNIX Workstation(A)(Lab.2)	Lab(Industry)	A	A	
SWSA07	Software for UNIX Workstation(A)(Lab.2)	Lab(Industry)	A	A	
SWSA08	Software for UNIX Workstation (A) (Lab.1)	Lab(HealthCare)	C	A	Upgraded
SWSA08U	Software Upgrade for UNIX Workstation (A) (Lab.1)	Lab(HealthCare)	A	A	
SWSA09	Software for UNIX Workstation (A) (Lab.1)	Lab(HealthCare)	C	A	Upgraded
SWSA09U	Software Upgrade for UNIX Workstation (A) (Lab.1)	Lab(HealthCare)	A	A	
SWSA10	Software for UNIX Workstation (A) (Lab.1)	Lab(HealthCare)	C	A	Upgraded
SWSA10U	Software Upgrade for UNIX Workstation (A) (Lab.1)	Lab(HealthCare)	A	A	
SWSA11	Software for UNIX Workstation (A) (Lab.1)	Lab(Industry)	C	A	Upgraded
SWSA11U	Software Upgrade for UNIX Workstation (A) (Lab.1)	Lab(Industry)	A	A	
SWSA12	Software for UNIX Workstation (A) (Lab.1)	Lab(Industry)	C	A	Upgraded
SWSA12U	Software Upgrade for UNIX Workstation (A) (Lab.1)	Lab(Industry)	A	A	
SWSB01	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB02	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB03	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB04	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB05	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB06	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB07	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB08	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB09	Software for UNIX Workstation (B)	Training Room	A	A	
SWSB10	Software for UNIX Workstation (B)	Training Room	A	A	
SWSC01	Software for UNIX Workstation (C)	Lab(HealthCare)	A	A	
SWSC02	Software for UNIX Workstation (C)	Lab(HealthCare)	A	A	
SWSC03	Software for UNIX Workstation (C)	Lab(HealthCare)	A	A	
SWSC04	Software for UNIX Workstation (C)	Lab(HealthCare)	A	A	
SWSC05	Software for UNIX Workstation (C)	Lab(Industry)	A	A	
SWSC06	Software for UNIX Workstation (C)	Lab(Industry)	A	A	
SWSC07	Software for UNIX Workstation (C)	Lab(Industry)	A	A	
SWSSV1	Software for UNIX Server(1)	Lab(Server Room)	A	A	
SWSSV2	Software for UNIX Server (2)	Training Room	A	A	
SWSSV3	Software for UNIX Server (3)	Server Room	A	A	

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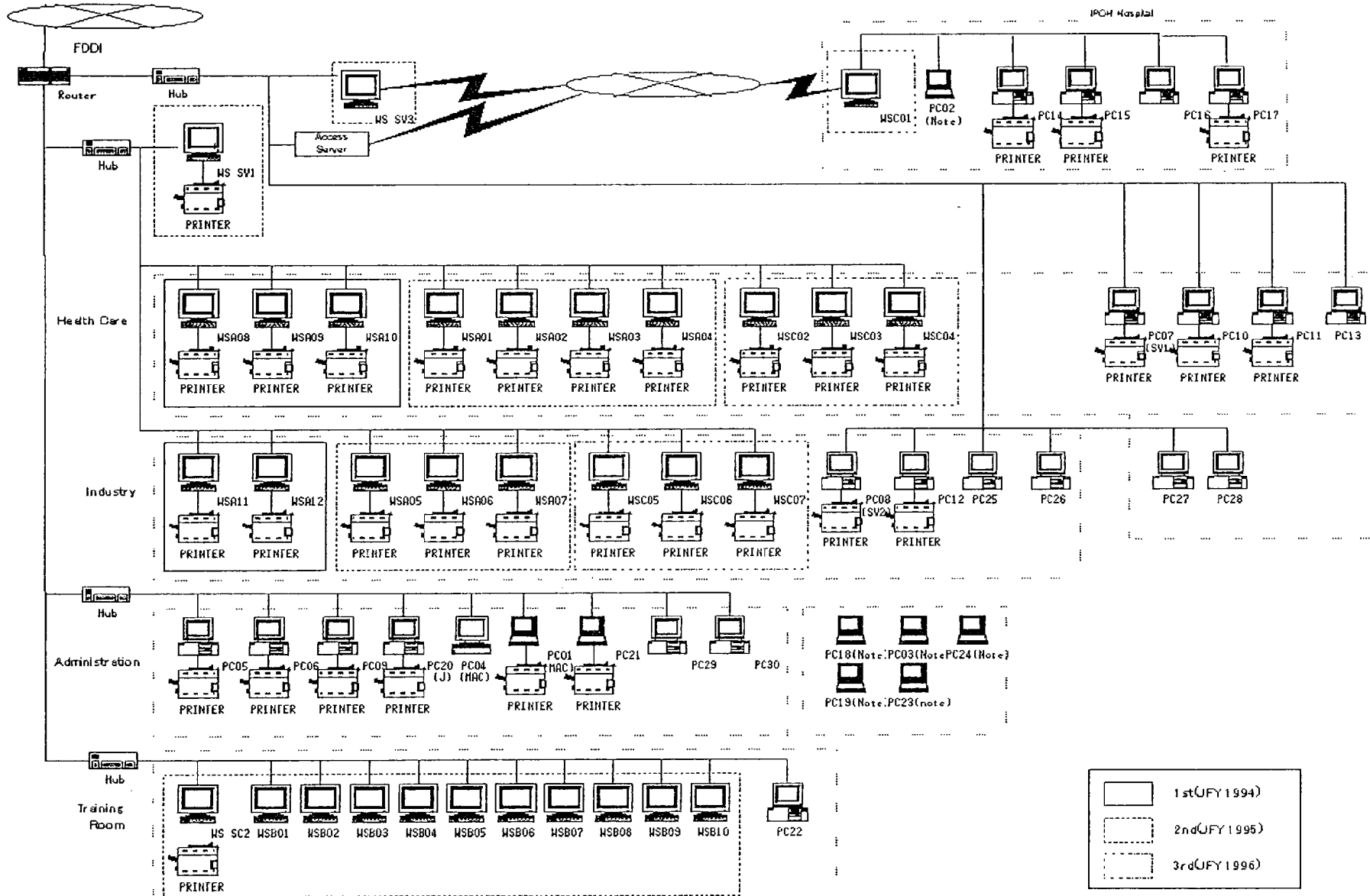
4. Others

ID	Description	Location	Usage Status	Equipment Status	Remark
EQ0001	UPS	Power Room	A	A	
EQ0002	Equipment for network communication (1)Hub 4, Router 1, Patch Panel 2	Network Room	A	A	
EQ0003	Vehicle MITSUBISHI L-400, 2400cc	Garage	A	A	
EQ0004	Equipment for network communication (2) Modem 20, Router 1, others	Lab.	A	A	
EQ0005	Large Screen Projector (70")HITACHI C70-1151R	Training Room	A	A	
EQ0006	Printer CANON Laser Shot B406	Coordinator Room	A	A	
EQ0007	Printer Laser Wind 1040PS	Expert Room	A	A	
EQ0008	Photocopying MachinesCANON Copier NP 6050	Administration Room	A	A	
EQ0009	TelevisionPANASONIC 33" CTV, TX-33GF-15X	Meeting Room	C	A	
EQ0010	Electronic White BoardPANABOARD KX-B620	Meeting Room	A	A	
EQ0011	Electronic White BoardPANABOARD KX-B620	Lab(HealthCare)	A	A	
EQ0012	Electronic White BoardPANABOARD KX-B620	Lab(Industry)	A	A	
EQ0013	Slide ProjectorELMO OMNIGRAPHIC 253	Store Room	C	A	
EQ0014	Over Head ProjectorELMO HP-285P	Training Room	C	A	
EQ0015	Liquid Crystal Display ProjectorHITACHI LCD Projector CP-L300	Training Room	C	A	
EQ0016	Printer with Software for Machintosh(For Technical Information)	Chief Advisor Room	C	A	
EQ0017	Pioneer Plasma Display 50" (Model : PDP-501MX)	Training Room	B	A	

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ANNEX 9-3 System Configuration Provided by the Japanese Side



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ANNEX 9-4 List of Machinery and Equipment Provided by the Malaysian Side

Malaysian Fiscal Year	Description	Amount KRM
1996	Asset transferred from the Software Development Group Software, CASE tool, PCs, Furniture etc	300
1997	Software	360
	PC	
1998	Software	100
	PC	
1999	Software	258
	PC, NT Server	
Total		1,018

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ANNEX 9-5 Record of Maintenance

#	Date	ID	Item	Place	Problems and Actions
1	Dec 1997	WSC01	Workstation	Hospital Ipoh	Cannot connect network. Replace the motherboard. (Feb 1998)
2	Dec 1997	PC13	PC	Hospital Ipoh	Hard disk error. Replace the hard disk.
3	13 Jan 1998	PC08	PC	Industry Lab.	Warning sound upon rebooting. Replace the hard disk.(2 Mar 1998)
4	18 Feb 1998	PC12	PC	Industry Lab.	Hard disk error. Replace the hard disk.
5	-	EQ0001	UPS	Power room	Repair power failure.(13 Feb 1998)
6	31 Mar 1998	PC22	PC	Training room	Canot reboot. Change the memory.(7 May 1998)
7	31 Mar 1998	-	VCR	Training room	Cannot lead tape. Change the part.(Nov 1998)
8	31 Mar 1998	PC12	Printer	Industry Lab.	Change the part.(30 Apr 1998)
9	13 May 1998	WS SV1	Workstation	Server room	Repair the switch.(16 Jun 1998)
10	28 Jul 1998	PC13	PC	Hospital Ipoh	Not invoke OS Windows. Damaged by moving. Replace the hard disk.
11	1 Feb 1998	PC07	PC	Healthcare Lab.	Hard disk error. Fixed the hard disk.(Feb 1998)
12	1 Feb 1998	PC10	PC	Healthcare Lab.	Hard disk error. Replace the hard disk.(Jun 1998)
13	-	PC11	PC	Healthcare Lab.	Hard disk error. Replace the hard disk.(Nov 1998)
14	22 Jun 1998	-	-	Healthcare and Industry Lab.	Power failure problem trips when lightning strikes. Repair.(Nov 1998)
15	27 Feb 1999	-	Small UPS	C/P room	4 capacitors faulty and 6 batteries in weak condition. Change capacitors.(Oct 1999)
16	25 Feb 1999	PC15	PC	Hospital Ipoh	Cannot switch on the monitor.Change the part.(Apr 1999)
17	15 Mar 1999	PC04	Printer	Chief Advisor room	Warning display. Change the part.(Apr 1999)
18	25 Aug 1999	-	VCR	Meeting room	No picture during playback. Clean up.(16 Sep 1999)

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ANNEX 10 Technology Transfer Goal (Prospect as of February 2000)

#	Contents of Technology Transfer	Level Achieved * () = Expected Level *				Others
		Analysis type		Synthesis type		
		Diagnosis	Consultation	Design	Scheduling	
1	Concept of AI (Viewpoint of ES) • Concept of AI	-	-	-	-	4 (4)
2	ES building basic technique • Procedure of prototyping approach • Classification of expert system	- -	- -	- -	- -	4 (4) 4 (4)
3	Basic technology of ES • Production system • Object oriented technology	3 (3) 2 (3)	2 (3)* 2 (3)	3 (3) 2 (3)	3 (3) 3 (3)	- -
4	Problem solving technique • Rule base • Fuzzy reasoning • Constraint satisfaction problem • Data mining	4 (3) 3 (3) - -	2 (3) - - -	3 (3) - 3 (3) -	2 (3) - 2 (3) -	- - - 2 (2)
5	ES Building technique • System planning • System analysis • System design • Program design • Coding • Test • Tuning • Verification	3 (3) 3 (3) 3 (3) 4 (3) 4 (3) 3 (3) 2 (3) 2 (3)	1 (3)* 1 (3)* 1 (3)* 1 (3)* 1 (3)* 1 (3)* 1 (3)* 1 (3)*	3 (3) 3 (3) 3 (3) 4 (3) 4 (3) 3 (3) 3 (3) 3 (3)	2 (3) 2 (3) 2 (3) 3 (3) 3 (3) 3 (3) 2 (3) 2 (3)	- - - - - - - -
6	Utilization technique of ES building tools • Understanding of grammar • Usage of knowledge editor • How to translate / debug / execute • How to create user interfaces	- - - 3 (3)	- - - 3 (3)	- - - 3 (3)	- - - 3 (3)	3 (3) 3 (3) 3 (3) -
7	Relating technology • UNIX usage • C/C++ • Client server system building technique • Data base creation technique • WWW server building technique • Basic • Presentation technique and skill	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 4 (3) 3 (3)
8	Development of training course • Lecture planning • Lecture material preparation • Lecture skill • Lecture evaluation	- - - -	- - - -	- - - -	- - - -	3 (3) 3 (3) 3 (3) 3 (3)
Level 0: Technology transfer is not started. Level 1: Counter parts can do partially according to the expert's instruction. Level 2: Counter parts can do with expert's advice. Level 3: Counter parts can do almost by themselves. Level 4: Counter parts have understood and can do by themselves. *: Crossed numbers show achieved level in the past. The levels degraded due to the resignation of key C/P and can be improved through accumulation of experiences using knowledge in the Diagnosis Type that has similarities in the Consultation Type. () : Number of prototype		Well Persons' Program Support System (7) Total Health Check Support System(1)	Holiday Advisor(5)	Intelligent Component Cost Estimation System (4)	Job Shop Scheduling System (1), Port Management System (2), Time Table Planning (1)	Prototype development, AI Short Course, Lecture by Counterparts, Short-term and Long-term experts, Japan training, Exhibitions, Neural Network(1)

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ANNEX 11-1 Record of Prototype Development - Industry

1) Synthesis Type (Design): Intelligent Component Cost Estimation System (ICCES)

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User	
				Reached Level * () = Aimed Level *								
				System Analysis	System Design - Test	Tuning - Verification	Relating Technology					
1	Initial model (Demo) Plastic parts cost estimation	Product: Plastic components for automobile Cost : 5 types Shape: 4 types WS stand-alone Generate and Test method	ES building basic technique	1 (1)	1 (1)	1 (1)	-	1	9 months Feb/96 ~Oct/96 27 MM	3	106 methods 54 class objects 16 rule groups 42 rules 12 K steps	Proton
			Utilization technique of ES building tools	-	-	-	1 (1)					
			ES building technique	1 (1)	1 (1)	1 (1)	-					
2	1st model (Final) Mould Cost Estimation System MCES	Product: Mould for plastic product Cost: 3 types Shape: 2 types Cavity: Fixed number Plate: 1 type WS stand-alone Problem solving by decision table	ES building technique	2 (2)	2 (2)	2 (2)	-	2	8 months Jan/97 - Aug/97 24 MM	3	45 methods 27 class objects 14 rule groups 90 rules 7.5 K steps	SIRIM Tooling Design Centre
3	2nd model (Demo) Intelligent Mould Costing System MOLDcost	Product: Mould for plastic product Design screen layout: 5 screens Data input, Cost output	Presentation technique and skill	-	-	-	2 (2)	2	2 months Mar/98 - Apr/98 2 MM	2	5 screens	SIRIM Tooling Design Center
			How to create user interfaces (Visual) Basic	-	-	-	2 (2)					
				-	-	-	2 (2)					
4	2nd model (Final) Intelligent Mould Costing System MOLDcost	Product: Mould for plastic product Cost: 14 types Shape: 5 types Cavity: Free number Plate: 1 type PC-WS connection Oracle data base Improve screen layout: 28 screens Problem solving by decision table	ES building technique	3 (3)	3 (3)	2 (2)	-	3	15 months Jul/97 - Nov/98 39 MM	6	Engine 46 methods 53 class object 9 rule groups 36 rules GUI 28 screens 8.1 ksteps	SIRIM Tooling Design Center
			Problem solving technique	-	-	-	3 (3)					
			How to create user interface	-	-	-	2 (2)					
			Data base creation technique	-	-	-	3 (3)					
			Client server system building technique	-	-	-	2 (2)					
			(Visual) Basic	-	-	-	2 (2)					

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

2) Synthesis Type (Planning and Scheduling) : Job Shop Scheduling System

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User	
				Reached Level * () = Aimed Level *								
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy					
1	Initial model (Demo) Product Scheduler	Design screen layout: 13 screens Calendar, Product, Contract, Customer information, Monthly view, Weekly view, Daily view	System analysis	2 (2)	-	-	2 (2)	2	6 months Apr/99 - Sep/99	2	13 screens	ITEM Industry Engineer ing Sdn. Bhd.
			Presentation technique and skill	-	-	-	2 (2)					
			How to create user interface	-	-	-	2 (2)					
			(Visual) Basic	-	-	-	3 (3)					

3) Synthesis Type (Planning and Scheduling) : Port Management System

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User	
				Reached Level * () = Aimed Level *								
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy					
1	Initial model (Demo) Berth Scheduling	Field: Ship allocation at berth Hard constraint: 6 Soft constraint: 2	ES buliding technique	2 (2)	2 (2)	2 (2)	-	2	4 months May/97 - Aug/97	2	33 class objects 9 K steps	Port Klang containe r terminal
			(Visual) C++	-	-	-	2 (2)					
2	Initial model (Demo) Container Stacking and Retrieval System CSRS	Field: Container allocation at yard Design screen layout: 5 screens	System analysis	2 (2)	-	-	-	2	4 months Jun/99 - Sep/99	3	5 screens	Kontena Nasional Sdn. Bhd.
			Presentation technique and skill	-	-	-	2 (2)					
			How to create user interface	-	-	-	2 (2)					
			(Visual) Basic	-	-	-	3 (3)					

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

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4) Synthesis Type (Planning and Scheduling) : Time Table Planning

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User
				Reached Level * () = Aimed Level *							
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy				
1	Initial model (Demo) Time Table Planning	N-queens problem solving Tree structure searching space (Back-tracking with priority, Constraint propagation, Genetic algorithm)	ES building technique	1 (1)	1 (1)	1 (1)	-	1	6 months Apr/97 ~Sep/97	4	Searching engine 33 class objects 5.5 K steps 14 constraints 1.3 K steps Other part 6 K steps
			Constraint satisfaction problem	-	-	-	1 (1)				
			C++	-	-	-	1 (1)				

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

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ANNEX 11-2 Record of Prototype Development - Healthcare

1) Analysis Type (Diagnosis) : Well Persons' Program Support System

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User
				Reached Level * () = Aimed Level *							
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy				
1	Initial Model (Demo) Electronic Patient Card	Design screen layout: Biodata, Patient card	ES building technique Rule base How to create user interfaces	1 (1) - -	1 (1) - -	1 (1) - -	- 1 (1) 1 (1)	1 1 month Aug/96 0.5 MM	2	24 methods 6 class objects 4 screens 0.7 K steps	
2	Initial Model (Final) Well Persons Clinic	Registration Screening: 3 functions 2 reports Data base(Access)	ES building technique How to create user interfaces Client server system building technique Data base creation technique	2 (2) - - -	2 (2) - - -	2 (2) - - -	- 2 (2) 2 (2) 2 (2)	2 13 months Oct/96 - Sep/97 36 MM	9	6 methods 8 class objects 64 rules 18 tables 299 fields 37 screens 10 K steps	Ipoh Hospital
3	1st Model (Demo) Lung Cancer Risk Estimation	Lung cancer risk estimation Web server Data base(Oracle)	ES building technique Fuzzy Reasoning Utilization technique of ES building tools Client server system building technique WWW server building technique	1 (1) - - 2 (2) -	1 (1) - - 2 (2) -	1 (1) - - 2 (2) -	- 3 (3) 2 (2) -	2 3 months Nov/97 -Jan/98 21 MM	*** 7	4 methods 12 class objects 29 rules 4 screens 2 tables 10 fields 0.5 K steps	
4	1st Model (Demo) Well Persons' Program Support System	Registration Screening: 3 functions 2 reports Diagnosis and decision support (demo)	ES building technique How to create user interfaces Client server system building technique Data base creation technique	2 (2) - - -	2 (2) - - -	2 (2) - - -	- 3 (3) 3 (3) 2 (2)	2 7 months Jan/98 - Jul/98 33 MM	5	9 methods 4 class objects 27 rules 21 tables 355 fields 20 screens 13 K steps	

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

*** : Including 2 tainees

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#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User	
				Reached Level * () = Aimed Level *								
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy					
5	1st Model (α) Well Persons' Program Support System	Registration Screening: 4 functions 2 reports Diagnosis and decision support Management: 3 functions User level security Web browser, Data base(Oracle)	ES building technique	3 (3)	3 (3)	2 (2)	-	3	13months Jan/98 - Jan/99 83 MM	*** 10	33 methods 28 class objects 145 rules 24 tables 394 fields 103 screens 18 K steps	Ipoh Hospital
			How to create user interfaces	-	-	-	3 (3)					
			Client server system building technique	-	-	-	3 (3)					
			Data base creation technique	-	-	-	3 (3)					
			WWW server building technique	-	-	-	3 (3)					
6	1 st Model (Final) Well Persons' Program Support System	Registration Screening: 3 functions, 2 reports Diagnosis and decision support Management: 3 functions, 2 reports Diagnosis and decision support User Management: 2 functions Administration: 2 functions User level security Web browser, Data base(Oracle)	ES building technique	3 (3)	3 (3)	2 (2)	-	3	16 months Jan/98 - Apr/99 118 MM	**** 9	48 methods 39 class objects 198 rules 37 tables 547 fields 108 screens 45.8 K steps 4 reports 11 spread sheets	Ipoh Hospital
			How to create user interfaces	-	-	-	3 (3)					
			Client server system building technique	-	-	-	3 (3)					
			Data base creation technique	-	-	-	3 (3)					
			WWW server building technique	-	-	-	3 (3)					

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

: Including 2 tainees, *: Including 2trainees and 1 contractor

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#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User	
				Reached Level * () = Aimed Level *								
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy					
7	2nd Model (1st) Well Persons' Program Support System	(Enhance based on 1st Model) Management: 2 functions Diagnosis and decision support (revise) User Management: 2 functions	Data Mining	-	-	-	1 (1)	3	3 months May/99 -Jul /99	*** 12	54 methods 43 class objects 254 rules 42 tables 547 fields 119 screens 51.6 K steps 4 reports 11 spread sheets	Ipoh Hospital
			ES building technique	-	3 (3)	2(2)	-					
			How to create user interfaces	-	-	-	3 (3)					
			Data base creation technique	-	-	-	3 (3)					
35 MM												

2) Analysis Type (Diagnosis) : Total Health Check Support System

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User	
				Reached Level * () = Aimed Level *								
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy					
1	1st Model (Demo) Exec-Health	Design screen layout: 9 screens Data base(Access)	ES building technique	2 (2)	-	-	-	3	3 months Jul/99 - Oct/99	2	6tables 204 fields 9 screens 2 reports	Selangor Medical Centre
			How to create user interfaces	-	-	-	3 (3)					
			Data base creation technique	-	-	-	3 (3)					
6 MM												

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

***: Including 2 trainees and 1 contractor

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ANNEX 11-3 Record of Prototype Development - AI Short Course

1) Analysis Type (Consultation) : Holiday Advisor

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User	
				Reached Level * () = Aimed Level *								
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy					
1	Initial Model (β1) Tour advise	Tour data: 9 places Design screen layout: 3 screens Data: object	ES building technique	2 (2)	2 (2)	2 (2)	2 (2)	2	2 months Aug/97 - Sep/97 3 MM	2	13 class objects 12 rules 0.5 K steps 3 screens	AI Short Course
2	Initial Model (β2) Tour advise	Tour data: 9 places Improve screen layout: 2 screens Data: object	How to create user interfaces	-	-	-	2 (2)	2	0.3 months Apr/98 0.3 MM	1	13 class objects 12 rules 0.5 K steps 3 screens	AI Short Course
3	Initial Model (β2) Tour advise	Exercise material of AI Short Course Tour data: 9 places Data: object	Lecture material preparation	-	-	-	1 (2)	1	0.5 months Oct/98 0.5 MM	2	13 class objects 12 rules 0.5 K steps 3 screens	AI Short Course
4	Initial Model (Final) Tour advise	Tour data: 9 places Improve screen layout: 1 screen (image data) Data: object	How to create user interfaces	-	-	-	2 (2)	2	0.5 months Oct/98 0.5 MM	1	13 class objects 12 rules 0.7 K steps 3 screens	AI Short Course
5	1st Model (Final) Holiday Advisor	Tour data: 93 places Improve screen layout: 6 screens Data base(Oracle)	ES building technique	2 (2)	2 (2)	2 (2)	-	2	5months Jan/99 - May/99 11MM	3**	9 class objects 9 methods 13 rules 6 screens	AI Short Course
			Data base creation technique	-	-	-	2 (2)					
			How to create user interfaces	-	-	-	2 (2)					

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

*** : Including 2 tainees

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ANNEX 11-4 Record of Prototype Development - Others

1) Neural Network

#	Model Name (Identification) Program Name	System Goals & Technical Goals	Main Technology Transfer	Degree of JICA Experts' Involvement in Development**				Period & Man Month	C/P	Scale	Pilot User
				Reached Level * () = Aimed Level *							
				System Analysis	System Design - Test	Tuning - Verificat ion	Relating Technol ogy				
1	Initial Model (Demo)	Character recognition	Concept of AI	1 (1)	1 (1)	1 (1)	-	1	4 months Feb/96 - May/96	1	20 class objects 6 K steps
	Character Recognition	Neural Network system building technique	UNIX Usage	-	-	-	1 (1)				

Demo: Demonstration system on feasibility study, workshop, and actual development. 1st, 2nd, and Final: Trial operation at pilot user

α: Tentative operation at pilot site during test process β: Tentative operation at pilot site after finishing test process

* Level 1 : Counter parts can do partially according to the expert's instruction., Level 2 : Counter parts can do with expert's advise., Level 3 : Counter parts can do almost by themselves.

** 1: Extensive involvement, 2: Extended support, 3: Occasional support and advice

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ANNEX 12 List of Developed Materials

#	Document type	Number
1	Proposal of Prototype Development	13
2	Design Document of Prototype development (Specification, Survey Report, and Progress Report)	68
3	Technology Transfer Document by Long and Short-Term Experts (Design Memo and Document for Technology Transfer)	145
4	Material of AI Short Course (Proposal of Course, Textbooks, and Evaluation Report)	35
5	Material of Open Seminar and Workshop (Brochure of Seminar, Presentation Document, Paper, and Report)	46
6	Brochure, Flier, and Poster for Promotion	14
7	Document of System Standardization (ISO 9001 Quality Sytem)	29
Total		350

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ANNEX 13 Record of AI Short Course and Promotion Activities

#	Title	Number	Number of Audience and Participants
1	AI Short Course	11	318
	AI Short Course for Managers	1	14
	AI Short Course for Mould Managers	2	29
	AI Short Course for Knowledge Engineers	2	27
	AI Short Course for Individual Users (including Third Country Training)	6	248
2	Open Seminar and Conference	16+1*	1,117
	Organized by AISDEL	10+1*	712
	Seminar	9+1*	531
	Conference	1	181
	Organized by others	6	405
3	Internal Seminar and Workshop for Staff Training	16	94
	Lecture to C/P by Expert	8	48
	Lecture to C/P by C/P	8	46
4	Exhibition	6	-
5	Presentation for Visitors and Clients (as a part of dissemination of the project activities)	7	-
6	Participation in Competition (Intelligent Mould Costing System and Well Persons' Program Support System)	2	-

* : To be held at the end of November

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ANNEX 14 Record of Training for Students

#	Trainee	University	Developed System	Period
1	Ms. Juhaida Bt. Abd. Ghani	University Technology Malaysia	AISDEL Data Process System	2 Dec 1995 - 31 May 1996
2	Ms. Zafizah Bt. Gauth	University Technology Malaysia	AISDEL Data Process System	2 Dec 1995 - 31 May 1996
3	Ms. Suraya Akhtar Bt. Hj. Murat	University Technology Malaysia	AISDEL Data Process System	1 July 1996 - 31 Dec 1996
4	Mr. Yahaya Hazly B. Adam	University Technology Malaysia	WWW Server in Lung Cancer Risk Estimation System	1 Oct 1997 - 31 Mar 1998
5	Mr. Mohd. Nabhan B. Sanusi	University Technology Malaysia	WWW Server in Lung Cancer Risk Estimation System	15 Oct 1997 - 31 Mar 1998
6	Ms. Janet C. Ginibun	Mara Institute Technology	Speech Input Recognition System Using Neural Network	Nov 1997 - Apr 1998
7	Mr. Muhamad Misbah Bin So'm	University Technology Malaysia	Well Persons' Program Support System Intelligent Mould Costing System	9 Nov 1998 - 31 Mar 1999 (Contract - 19 June 1999)
8	Ms. Zainab Bt Shaari	University Technology Malaysia	Well Persons' Program Support System	2 Nov 1998 - 31 Mar 1999 (Contract - 19 June 1999)
9	Mr. Wong Kok Mun	University Malaya	Holiday Advisor System	6 Jan 1999 - 22 May 1999
10	Mr. Saravanan A/L Govindasamy	University Malaya	Holiday Advisor System	6 Jan 1999 - 22 May 1999
11	Mr. Azizi Ab. Aiz	University Utara Malaysia	Container Allocation and Retrieval System Using Genetic Algorithm	22 Mar 1999 - 21 Jul 1999
12	Mr. Am Sazly Aminuddin	University Utara Malaysia	Container Allocation and Retrieval System Using Genetic Algorithm	22 Mar 1999 - 21 Jul 1999
13	Ms. Nurul Azma Abdullah	University Utara Malaysia	Well Persons' Program Support System	22 Mar 1999 - 21 Jul 1999
14	Ms. Maizatul Alma Elias	University Utara Malaysia	Well Persons' Program Support System	22 Mar 1999 - 21 Jul 1999
15	Mr. Satya Nanda Vel	University Technology Malaysia	RoboCup System Using Neural Network	5 Apr 1999 - 25 Jun 1999
16	Ms. Nik Nailah Abdullah	University Technology Malaysia	Door Security Access System Using Neural Network	14 June 1999 - 30 Nov 1999
17	Mr. Muhammd Asraf	University Technology Malaysia		15 Nov 1999 - 15 Apr 2000

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ANNEX 15 Record of Technical Exchange Program

Japanese Fiscal Year	Period	Attendance		Organization
1995	24 Aug - 25 Aug 1995	Mr. Shingoro Tsuchiya	Expert	- National Computer Board (NCB)
		Mr. Izumi Yamamoto	Expert	- Japan - Singapore AI Centre (JSAIC) (Future KRDL)
		Mr. Mitsuyuki Nagatani	Expert	- Institute of Software Science (ISS)
		Mr. Junichiro Mizoguchi	Expert	- Hitachi Electric Devices (Singapore) Pte Ltd.
		Mr. Hironori Onuma	Expert	- Japan- Singapore Institute of Software Technology (JSIST)
		Mr. Mitsuru Iwasaki	Expert	- Hitachi Asia (Singapore) Pte. Ltd. - CICC Singapore Office
1996	14 Jan - 15 Jan 1997	Dr. Ahmad Zakaria	General Manager	- Japan - Singapore AI Centre (JSAIC) (Future KRDL)
		Mr. Mohamad Che Su	Head	- Japan- Singapore Institute of Software Technology (JSIST)
		Mr. Nagatani	Expert	- Clarity System Pte Ltd. - ILOG (S) Pte. Ltd. - CICC Singapore Office - JICA Singapore Office
1997	6 Oct - 8 Oct 1997	Mr. Omar Bin Mohammad	Researcher	- Japan - Singapore AI Centre (JSAIC) (Future KRDL)
		Ms. Anita Ariffin	Researcher	- Japan- Singapore Institute of Software Technology (JSIST)
		Ms. Zalinda Baharum	Researcher	- Medical Computing Laboratory at National University of Singapore
		Ms. Hasnahwati Bte.Ibrahim	Researcher	- Hitachi Asia (Singapore) Pte. Ltd.
		Mr. Mitsuyuki Nagatani	Expert	- CICC Singapore Office
		Mr. Yoshimune Shibata	Expert	- JICA Singapore Office - COMDEX ASIA '97 (Exhibition)
1998	23 Nov - 27 Nov 1998	Dr. Ahmad Zakaria	General Manager	- Kent Ridge Digital Labs (KRDL)
		Mr. Zaidi bin Mohamad Ali	Researcher	- Gintic Institute of Manufacturing Technology (GIMTEC)
		Mr. Yusuman Yusof	Researcher	- Clarity System Pte Ltd.
		Dr. Mohd Asri bin Mansor	Researcher	- Hitachi Electric Devices (Singapore) Pte Ltd.
		Mr. Kazunori Suzuki	Chief Advisor	- CICC Singapore Office
		Mr. Shu Abe	Expert	- JICA Singapore Office - The 5 th Pacific Rim International Conference on Artificial Intelligence (PRICAI) '98 (Conference)

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ANNEX 16 List of Long-Term Experts Dispatched by JICA

(A) Previous Long-term Experts

#	Name	Period	Title
1	Mr. Shingoro TSUCHIYA	17 Jun 1995 - 16 Jun 1998	Chief Advisor
2	Mr. Izumi YAMAMOTO	23 Mar 1995 - 22 Mar 1998	Coordinator
3	Mr. Mitsuyuki NAGATANI	3 Jul 1995 - 28 Feb 1998	Expert in project management and design of expert system
4	Mr. Junichiro MIZOGUCHI	3 Jul 1995 - 2 Jul 1997	Expert in expert system building techniques
5	Mr. Mitsuru IWASAKI	3 Jul 1995 - 2 Dec 1997	Expert in expert system building techniques
6	Mr. Hironori ONUMA	3 Jul 1995 - 28 Feb 1998	Expert in expert system development tools

(B) Present Long-term Expert

#	Name	Period	Title
1	Mr. Kazunori SUZUKI	4 Jun 1998 - 29 Feb 2000	Chief Advisor
2	Mr. Masaaki DOI	1 Mar 1998 - 29 Feb 2000	Coordinator
3	Ms. Kaoru HANAOKA	17 Nov 1997 - 29 Feb 2000	Expert in project management and design of expert system
4	Mr. Yoshimune SHIBATA	15 Jun 1997 - 29 Feb 2000	Expert in expert system building techniques
5	Mr. Shu ABE	4 Feb 1998 - 29 Feb 2000	Expert in expert system building techniques
6	Mr. Jun KIMURA	16 Feb 1998 - 29 Feb 2000	Expert in expert system development tools

Total (Man Month) 345

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ANNEX 17 List of Short-Term Experts Dispatched by JICA

Legend : ES : ES Building Technique AI : Latest Technology in AI
 IN : Installaion OT : Others

No.	Name	Period	Days	Title	Category
1	Mr. Mitsuyuki NAGATANI	3 Apr 95 - 8 Apr 1995	6	Installation Plan Guidance	IN 1
2	Mr. Ryoichi SAYAMA	15 May 1995 - 21 May 1995	7	Installation and Adjustment of 1 st batch of equipment (Hardware)	IN 2
3	Mr. Hikaru NUMOTO	15 May 1995 - 21 May 1995	7	Installation and Adjustment of 1 st batch of equipment (Software)	IN 3
4	Mr. Toru IGUSA	5 Nov 1995 - 11 Nov 1995	7	Installation and Adjustment of 2 nd batch of equipment (Hardware)	IN 4
5	Mr. Toshiyuki YANO	5 Nov 1995 - 11 Nov 1995	7	Installation and Adjustment of 2 nd batch of equipment (Software)	IN 5
6	Mr. Akira MAEDA	10 Dec 1995 - 15 Dec 1995	6	Artificial Neural Network Technology	AI 1
7	Mr. Ryosuke NAGASAKA	21 Jan 1996 - 4 Feb 1996	15	Relational database	ES 1
8	Dr. Shuji DOSHITA	10 Mar 1996 - 15 Mar 1996	6	Lecturer of Opening Seminar	AI 2
9	Mr. Shoichi MASUI	10 Mar 1996 - 15 Mar 1996	6	Lecturer of Opening Seminar	AI 3
10	Mr. Takahiro SEKI	17 Mar 1996 - 24 Mar 1996	8	Network Environment Configuration	IN 6
11	Mr. Hideyuki MAKI	1 Sep 1996 - 8 Sep 1996	8	Latest Technology in AI (1 st) : Fuzzy Control and Data mining	AI 4
12	Mr. Hiroyuki SHIBATA	3 Nov 1996 - 10 Nov 1996	8	Installation and Adjustment of 3 rd batch of equipment (Hardware)	IN 7
13	Mr. Toru IGUSA	3 Nov 1996 - 10 Nov 1996	8	Installation and Adjustment of 3 rd batch of equipment (Software)	IN 8
14	Mr. Tsutomu MIZUKAMI	3 Nov 1996 - 10 Nov 1996	8	Installation and Adjustment of Large screen projector	IN 9
15	Dr. Tatsuo UNEMI	12 Nov 1996 - 20 Nov 1996	9	ES building Technique (1 st) : Genetic Algorithm	ES 2
16	Mr. Kazunori SADACHI	1 Dec 1996 - 8 Dec 1996	8	ES building Technique (2 nd) : Standardization for system development	ES 3
17	Ms. Kaoru HANAOKA	17 Feb 1997 - 1 Mar 1997	13	AI Short Course Set up	OT 1
18	Mr. Takanori NISHIO	10 Apr 1997 - 18 Apr 1997	9	Latest Technology in AI (2 nd) : JAVA	AI 5
19	Ms. Kaoru HANAOKA	14 Jul 1997 - 1 Aug 1997	9	ES Building Technique (1 st) : Healthcare system	ES 4
20	Dr. Setsuo TSURUTA	2 Sep 1997 - 13 Sep 1997	6	ES Building Technique (2 nd) : Large scale constraint problem	ES 5
21	Dr. Yuji MATSUMOTO	8 Dec 1997 - 13 Dec 1997	6	Latest Technology in AI : Natural Language Processing	AI 6
22	Mr. Tooru IGUSA	4 Feb 1998 - 14 Feb 1998	11	Installation and Adjustment of equipment (Software version up)	IN 10
23	Ms. Keiko KOGA	10 Mar 1998 - 19 Mar 1998	10	System Standardization Technique	ES 6
24	Mr. Tsutomu MIZUKAMI	6 Apr 1998 - 11 Apr 1998	6	Supervising the Installation of Machinery (Large Screen Projector)	IN 11

No.	Name	Period	Days	Title	Category
25	Mr. Kunihiko KIDO	14 Jul 1998 – 24 Jul 1998	11	ES Building Technique (1 st) : Health care system	ES 7
26	Mr. Kazumori DABA	26 Oct 1998 – 31 Oct 1998	6	Latest Technology in AI(1 st) : Information searching agent	AI 7
27	Mr. Masaru TEZUKA	30 Nov 1998 – 16 Dec 1998	17	ES Building Technique (2 nd) : Job-shops scheduling	ES 8
28	Mr. Hitoshi ASIDA	15 Dec 1998 – 24 Dec 1998	10	Latest Technology in AI(2 nd) : Statistical analysis	AI 8
29	Mr. Setsuo TSURUTA	3 Mar 1999 – 10 Mar 1999	8	ES Building Technique (3 rd) : Block scheduling	ES 9
30	Ms. Misizu IWASAKI	7 Jun - 16 Jun 1999	10	ES Building Technique (1 st) : Testing method and inspection for prototype software	ES 10
31	Mr. Kazunori SADACHI	21 July – 31 July 1999	11	ES Building Technique (2 nd) : PC-WS network technology	ES 11
32	Mr. Hironori TAKAKI	23 Aug – 28 Aug 1999	6	ES Building Technique (3 rd) : Function point analysis - FPA	ES 12
33	Mr. Masataka HAYASHI	13 Sep - 23 Sep 1999	11	ES Building Technique (4 th) : Port management system	ES 13
34	Dr. Nobuyuki OTSU	17 Oct - 23 Oct 1999	7	Latest Technology in AI(1 st) : Real world intelligence technology	AI 9
35	Mr. Jun NAKANISHI	22 Nov 1999 - 3 Dec 1999	12	ES Building Technique (5 th) : Agent technology (advance)	ES 14
Total (Days)			303		

Summary

#	Category	Number of Expert	Number of Field
1	Installation	11	3
2	ES Building Technique	14	14
3	Latest Technology in AI	9	9
4	Others	1	1
Total		35	27

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ANNEX 18 Record of C/P Training in Japan

Japanese Fiscal year	Course	Attendance		Period
1994	Project Management of AI Laboratory	Mr. Asmadi Md Said	Head, AMTC	9 Mar 1995 - 19 Mar 1995
		Mr. Raja Muda Raja Ngah	Manager	
1995	Latest Technology on AI	Ms. Siti Fatimah Md. Saad	Research Officer	22 May 1995 - 3 Sep 1995
		Mr. Sarifulnizam Abu Bakar	Research Officer	
		Mr. Mohd. Suhair Embong	Research Officer	
		Mr. Omar Mohammad	Research Officer	
		Ms. Norrozila Sulaiman	Research Officer	
1996	Latest Technology on AI	Mr. Mohamad Che Su	Research Officer	3 Jun 1996 - 9 Aug 1996
		Mr. Chin Kean Keong	Research Officer	
		Ms. Zalinda Baharum	Research Officer	
		Ms. Hasnahwati Ibrahim	Research Officer	
		Ms. Ruziah Mokhtar	System Analyst (Ministry of Health)	
1997	AI Training Course Development	Mr. Faizal Mustapha	Researcher	29 Sep 1997 - 22 Nov 1997
		Mr. Ibrahim Jaafar	Researcher	2 Oct 1997 - 22 Nov 1997
1998	Advanced Project Management of AI Laboratory	Mr. Yahaya Ahmad	Senior General Manager (AMTD of SIRIM)	25 Jun 1998 - 12 Jul 1998
		Dr. Ahmad Zakaria	General Manager	
	System Analyst	Mr. Mohd Izani bin Mohd Rawi	Researcher	31 Mar 1999 - 28 Apr 1999
		Mr. Zaidi bin Mohamad Ali	Researcher	
		Ms. Faridah Abd. Rahman	Researcher	
		Mr. Yusuman Yusof	Researcher	
		Ms. Roslina Abdul Kadir	Assistant Researcher	

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ANNEX 19 List of Selected Papers in "AIAI'99 Conference"

	Title of Paper	Contributor
<i>Invited Talk</i>		
1	Real World Intelligence : A New Paradigm of AI	Prf. Dr. Nobuyuki Otsu, Electrotechnical Laboratory, AIST, MITI, Japan
2	How practical are current AI systems	Dr. Lee Hing Yan, Kent Ridge Digital Labs, Singapore
<i>INSPECTION/IDENTIFICATION</i>		
3	Car Plate Location Using Coefficient of Variation Approach	Mohamad Ashari Alias, UM
4	Recognition of Welding Defect on Radiographic Films Using Image Processing and Neural Network	M.A. Khalid et al, MINT
5	Interactive Feature Recognition System	Zarita Mohd. Kosmin, UTM
6	Two-cost Stroke Segment Grouping Mechanism for Off-line Cursive Hand-written Word	Yong Haur Tay and Marzuki Khalid, UTM
<i>MEDICAL</i>		
7	Experienced Based Medical Diagnostics System Over the World Wide Web	Selvakumar Manickam and Syed Sibte Raza Abidi, USM
8	One Methodology to Collect Data for AIDS	Siti Norul Huda Shikh Abdullah and Miswan Surip, UKM
9	Data Mining for Medical Database	Siti Fatimah Md. Saad and Rogayah Ghazali, SIRIM Berhad
<i>ENVIRONMENT</i>		
10	A Prototype Expert System for Selecting Landfill Leachate Treatment Process and Characterisation of Leachate	Md. Mizanur Rahman et al, UPM
11	Technology Transfer of Groundwater Pollution Expert System (GWPEs) : Application on Personal Computer and Local Area Network	Mongkon Ta-oun, UPM
<i>MANUFACTURING</i>		
12	Genetic Algorithm to Optimize Production Scheduling	Tezuka Masaru et al, Hitachi Tohoku Software, Ltd.
13	A Learning Control System	Teo Lian Seng MMU and Marzuki Khalid, UTM
14	Defining Profile Complexity in a Mould Costing System	Zalinda Baharum, SIRIM Berhad

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	Title of Paper	Contributor
<i>EDUCATION</i>		
15	A Cased-based reasoning Approach for University Timetabling	Zalmiyah Zakaria, UTM
16	An Intelligent Timetable Scheduling System	R.R. Kurup, Asian IT Research and Development Sdn. Bhd
<i>PROCESS CONTROL</i>		
17	Application of Inverse Neural Networks Models for Chemical Process Control	Mohd Azlan Hussain, et al, UTM
18	Application of Back Propagation Neural Network in Batik Colouring Process	Irraivan Elamvazuthi et atl, SIRIM Berhad
19	ORP Pattern Recognition by Control	Siti Rozaimah Sheikh Abdullah, UKM
<i>OTHERS</i>		
20	Intelligent Database by Neural Network and Data Mining	Chua Boon Lay et al, UTM
21	Application of AI in Modeling Optical Topography for the Oil Industry	S. Ibrahim et al, UTM
22	GA Based Technique for Searching the Optimal Layout of Truss with Buckling Constraints	Ishak Abdul Azid, USM

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Annex 20 Expenses by the Japanese Side

(Unit:Thousand Yen)

Japanese Fiscal Year	1993	1994	1995	1996	1997	1998	1999	Total
Dispatch of Experts	-	9,689	91,337	104,419	115,639	105,282	39,835	466,201
Acceptance of C/P Training in Japan	-	581	2,387	1,781	1,112	1,039	5,355	12,255
Provision of Machinery and Equipment	-	40,226	151,104	170,279	19,988	2,624	2,372	386,593
Dispatch of Study Team	2,030	3,073	3,236	2,771	3,089	336	384	14,919
Total								879,968

Note : Expenses in Japanese Fiscal Year 1999 includes estimates

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