

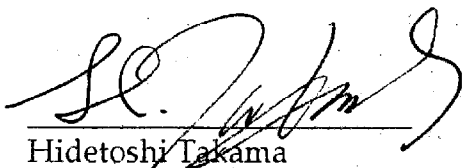
MINUTES OF MEETING  
BETWEEN THE JAPANESE MID-TERM EVALUATION TEAM  
AND THE AUTHORITIES CONCERNED OF THE GOVERNMENT  
OF THE HASHEMITE KINGDOM OF JORDAN  
ON THE JAPANESE TECHNICAL COOPERATION  
FOR INFORMATION TECHNOLOGY UPGRADING PROJECT  
IN THE HASHEMITE KINGDOM OF JORDAN

The Japanese Mid-term Evaluation Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Hidetoshi Takama visited the Heshemite Kingdom of Jordan from 10 to 14 September, 2001 for the purpose of monitoring and reviewing the activities, and of formulating further operational plans of the Information Technology Upgrading Project in the Heshemite Kingdom of Jordan (hereinafter referred to as "the Project").

During its stay in the Heshemite Kingdom of Jordan, the Team had a series of discussions and exchanged views with the authorities concerned of the Government of the Heshemite Kingdom of Jordan over the matters for the successful implementation of the Project.

As a result of the discussions, both sides agreed upon the matters referred to in the documents attached hereto.

Amman, 13 September, 2001



Hidetoshi Takama  
Leader  
Mid-term Evaluation Team  
Japan International Cooperation Agency  
Japan



Said Alloush  
President  
Royal Scientific Society  
Hashemite Kingdom of  
Jordan

## Attached Document

### I General Items

#### 1 Current Situation of Japan's ODA

The Team explained and the Jordanian side understood that Japan's ODA continues to face budgetary constraints, being expected to decrease by ten (10) percent in its volume for the Japanese fiscal year 2002, and voices to call for more efficiency, effectiveness and accountability become higher and higher among Japanese citizens.

#### 2 Localization of the Management of the Project

With reference to the management of the Project, the Team appreciated the efforts of the Jordanian side and the Japanese expert team to localize the Project management, as well as its monitoring and evaluation, under the initiative of the Joint Coordinating Committee for the Project.

#### 3 Purpose of the Mid-term Evaluation

The Team explained that the major purpose of the Team was to make a mid-term evaluation of the Project so that both sides could monitor the progress of technical cooperation to date, make a plan for further effective implementation in the remaining period and discuss necessary measures to be taken by both sides in preparation for final evaluation.

#### 4 Joint Evaluation and Five (5) Basic Evaluation Components

##### (1) Joint Final Evaluation

The Team reaffirmed and the Jordanian side understood that in the final year of the Project, around fall 2002, final evaluation would be conducted to examine the level of achievement of the Project objectives from the aspects as mentioned in the section (3).

It will be a joint evaluation by the Japanese evaluation team dispatched by JICA and the Jordanian evaluation team, as stipulated in the Record of Discussions signed on 15 August, 1999 (hereinafter referred to as "R/D").

In this connection, the Team explained to the Jordanian side that the members of the latter evaluation team should include the persons from the their party who were not directly involved in the Project to secure the fairness of the said evaluation and that the nomination would be requested formally through JICA Jordan Office in due course of the time, while JICA would hire a consultant exclusively for the Japanese evaluation team for the same reason.

##### (2) Monitoring

The Team requested the Jordanian side and the latter agreed that the monitoring should be conducted continuously and periodically every six (6) month by the initiative of the Joint Coordinating Committee, mainly utilizing the formats such as Monitoring Evaluation Plan and Semiannual Monitoring Report attached, as Annex 14 and 15, to this Minutes of Meeting.

Such formats are also to be used in the final evaluation, thus the necessary



feed-back and/or countermeasures should be taken immediately in case that any problems are detected as its results.

(3) Five (5) Basic Evaluation Components

Both sides agreed that the Project would be monitored and evaluated from the five (5) aspects as described in the Five (5) Basic Evaluation Components, that is Sustainability, Relevance, Impact, Effectiveness and Efficiency shown in Annex 9, and that the confirmation of Project Design Matrix (hereinafter referred to as "PDM") was a matter of great significance in this regard.

II Present Situation and Future Prospects of Royal Scientific Society (RSS) and Computer Technology, Training and Industrial Studies Centre (CTTISC)

1 Current Organization

The Jordanian side explained to the Team that the current organization of RSS is consisted of six (6) technical centers and one (1) university as shown in Annex 1, and CTTISC is the largest center in its size among them.

The Jordanian side continued to explain to the Team that CTTISC has six (6) technical sections where, in total, one hundred eighteen (118) employees are working. According to their explanation, most of them are hired under permanent contracts and are distributed in instatic manner among each section, which lead to maintain high incentives for each technical worker contributing to keep update his IT skill and knowledge. As a result, CTTISC successfully lowered their turn over rate of employee to less than four (4) percent in the year 2000.

Currently, CTTISC are provided with technical and financial cooperation from the United Nation University, and European and Japanese donors.



2 Future Prospects

The Jordanian side explained to the Team five (5) strategic prospects as follows;

- (1) Sustaining the long term training activities on the local and regional level,
- (2) Requesting JICA for the financial and technical support in order to continue to conduct the third-country, long-term training course such as Web Computing,
- (3) Expanding the activities of International Computer Driving License (ICDL) to cover the private and public sector including the teachers of the Ministry of Education and to start to conduct Advanced ICDL when it becomes available by UNESCO,
- (4) Becoming an authorized centre for Microsoft, CISCO, Oracle and others whose certifications are in great demand in the Jordanian IT sector, and Center of Excellence, and
- (5) Enhancing software development services activities to get involved in E-Government and E-Business.

3 Budget

The annual income and expenditure of RSS as well as CTTISC are shown in Annex 3 and 4 respectively.



The Jordanian side explained to the Team that, in the ground of self-supporting financial policy and non-profit organization, CTTISC generates income through trainings, technical services, research development and others to cover all the expenditures necessary for their activities and managements.

The Team questioned the Jordanian side if their activities possibly put some pressures on the private firms with their institutional and financial advantages.

The Jordanian side replied to the Team that CTTISC is not a profit-seeking organization, and their activities include mandatory and non-profit technical services such as maintenance of public facilities under the contract with the Ministry of Planning and the Higher Council. The Jordanian side continued to explain that, on the while, they are equally treated in a system of taxation once their activities involve in the private sector.

#### 4 Staff Allocation

The both sides confirmed that sufficient number of counterpart personnel and staff have been working with the Project activities as shown in Annex 7. The comparison of staff allocation between the present and the ones confirmed at the time of previous studies is as follows:

	Implementation Study	Present
Project Manager	1	1
Assistant Project Manager	1	1
Training Coordinator	0	1
Technical C/P (Senior)	4	4
Technical C/P (Junior)	12	24
Administrative Staff	3	7
Total	21	38

The Jordanian side explained to the Team that the Centre (CTTISC) is in the process of restructuring and reallocating its staff under the current situation of dynamic changes and developments in IT sector. Their plans are as follows;

- (1) Permanent staff who are specialized in IT subjects to be dedicated for training,
- (2) Benefit from the Centre's experienced staff in other specialized subjects, and
- (3) Invite external trainers from Princess Sumaya University (College) for Technology that is affiliated to RSS.

### III Mid-term Evaluation of the Project

#### 1 Review of the Activities of the Project from December 1999 to August 2001

##### (1) Input by the Japanese side

##### a Dispatch of the Japanese experts

Both sides confirmed the record of dispatch of the Japanese experts to date as shown in Annex 5.

##### b Training of the Jordan C/P in Japan

Both sides confirmed the record of training of the Jordan C/P in Japan to date as shown in Annex 5.

##### c Provision of Machinery and Equipment

Both sides confirmed the record of provision of machinery and equipment to

the Project to date as shown in Annex 6, and that those machinery and equipment are properly used and maintained as shown in Annex 23.

(2) Input by the Jordanian side

a Building and Facilities

Both sides confirmed that two (2) classrooms for training (Windows NT, UNIX), one (1) workshop room for the C/P training, one (1) office room for a chief advisor and one (1) for other two long-term experts are well furnished and suited accordingly.

b Provision of Machinery and Equipment

Both sides confirmed that necessary equipment including internet connectivity are properly provided for smooth implementation of technology transfer as well as daily work of long-term experts as shown in Annex 6.

c Allocation of the C/P and the administrative personnel for the Project

The both sides confirmed that sufficient number of counterpart personnel and staffs have been working with the Project activities as shown in Annex 7.

d Allocation of the Budget

The both sides confirmed that sufficient allocation of the budget has been maintained for the smooth implementation of the Project activities as shown in Annex 8.

2 Mid-term Evaluation based on Five (5) Basic Evaluation Components

Both sides confirmed the results of mid-term evaluation based on five (5) basic evaluation components as described in Annex 9.

In conclusion, during the first half of the cooperation period, the Project activities have been implemented as planned to accomplish the most important output in the first stage of the Project, that is, "Technical capability of C/Ps is upgraded through the technological transfer of Japanese short-term experts." As results of self-evaluation by C/Ps and skill check conducted by Japanese short-term experts, all technical C/Ps showed an improvement in each technology-transfer item. Accordingly, their skills have reached nearly to the Project target level, that is, "Know functions and operations well to use without help", as shown in Annex 25. It has been judged that most C/Ps have become able to conduct new training courses as an instructor, utilizing the provided machinery, equipment and textbooks that are maintained properly. In the end, C/Ps are capacitated with sufficient knowledge and technique transferred by Japanese experts to spill over industrial, governmental and academic personnel leading to the achievement of the Project purpose.

On the while, there are some Project activities that should be strengthened to implement and maintain high-quality training courses under the initiative of the Jordan side supported by long-term Japanese experts from now on. Both sides confirmed that textbooks and other related materials for trainings should be

developed and completed at the latter half of the cooperation period. Furthermore, both sides confirmed that Knowledge and technique acquired by the technology transfer of the Project have to be brushed up continuously through self-learning of C/Ps, which should be commonly shared among all technical C/Ps in some way such as an application of developed web-based training materials.

3 Reconfirmation of the Project Concept (Review and Confirmation of the PDM)

As the process of mid-term evaluation, both sides jointly reviewed the formats to check the achievement level of the outputs and project purpose as mentioned in Article III 2, which incidentally coincided the review of indicators from the viewpoint of meaningfulness and availability.

In parallel with the review of the indicators, both sides also reviewed and confirmed the PDM shown in Annex 10.

Both sides further confirmed that the said PDM excluding the columns of overall goal, project purpose, and outputs might be reviewed with the progress of the Project by the time of final evaluation.

4 Review of the Technical Cooperation Program (TCP), the Plan of Operations (PO) and the Tentative Schedule of Implementation (TSI)

Reviewing the contents of the PDM, the progress of technology transfer and the discussions on the future plan described in Article IV and V, both sides confirmed the Technical Cooperation Program (hereinafter referred to as "TCP"), the Plan of Operations (hereinafter referred to as "PO") and the Tentative Schedule of Implementation (hereinafter referred to as "TSI") as shown in Annex 12, Annex 11 and Annex 13 respectively.

5 Monitoring System

The Team introduced to the Jordan side the Monitoring and Evaluation Plan shown in Annex 14, and the formats of Semiannual Monitoring Report shown in Annex 15. The Jordan side agreed to apply them to their periodical monitoring for the effective Project management.

IV Annual Plan of the Project for the Third and Fourth Quarter of the Japanese Fiscal Year 2001

1 Annual Plan of Operations (APO) for the Japanese Fiscal Year 2001

Both sides confirmed the Annual Plan of Operations (hereinafter referred to as "APO") for fiscal year 2001 as shown in Annex 19.

2 Annual Technical Cooperation Program (ATCP) for the Japanese Fiscal Year 2001

Both sides confirmed the Annual Technical Cooperation Program (hereinafter referred to as "ATCP") for fiscal year 2001 as shown in Annex 20.

3 Annual Tentative Schedule of Implementation (ATSI) for the Japanese Fiscal Year 2001

Both sides confirmed the Annual Technical Cooperation Program (hereinafter

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referred to as "ATSI") for fiscal year 2001 as shown in Annex 21.

4 Input by the Japanese side

(1) Additional Dispatch of Experts

Both sides confirmed that three (3) short-term experts will be dispatched to follow up C/S Database System Development, C/S System Design/Analysis/Management and C/S Operating System for UNIX.

(2) Training of the Jordan C/P in Japan

Both sides confirmed that two Jordanian counterpart personnel would be trained respectively in the Object Oriented System course and Integrated Network System Management course for two months starting from the end of September, 2001.

(3) Provision of Machinery and Equipment

Both sides confirmed that Japanese long-term experts and counterpart personnel are in process of screening necessary machinery and equipment to implement a higher quality of training courses at later stage of the Project activities.

5 Input by the Jordanian side

(1) Provision of Machinery and Equipment

Eleven (11) sets of new air conditioners have been furnished in all training meeting rooms. At the same time, a restroom for trainers was renovated.

VI Specific Issues for the Project

1 Joint Coordinating Committee

The both sides reaffirmed that, for the effective and successful implementation of technical cooperation for the Project, JCC would be held at least twice a year and whenever necessity arises inviting representatives from Jordan Computer Society, Ministry of Planning, Chamber of Industry, INTAJ and National Information Center as members to enhance the relationship with the Jordan IT industry.

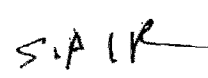
2 Campaign of the Project Activities

The Team explained to the Jordanian side that it is important to let Japanese people as well as Jordanian citizens know the Project activities supported by Japan's ODA. The Team requested and the Jordanian side agreed that the existing web page of RSS would be updated to appeal the cooperation of JICA for the Project, which would be linked by JICA headquarters.

3 Technical Recommendations

(1) Web Based Training

The Team suggested that Web Based Training (WBT) has become more and more important because transparency of Japanese ODA projects has been a must, and moreover JICA Committee of IT has recommended WBT. The Jordanian side



responded positively that they would consult this matter with the current long-term Japanese expert of C/S system and prepare a plan with the necessary requirements.

(2) Net-work Security

The Team advised that the present security system was not adequate. The Jordanian side responded that they understood it and would find a better way in cooperation with the already dispatched long-term Japanese experts.

(3) Open Source

The Team recommended that Linux as an open source should be taken account for future considerations. There are some advantages other than UNIX e.g. it is free and it has a possibility for future expansion. Then Team advised that it had better to run a dual system with Linux and UNIX. The Jordanian side agreed at this point.

(4) Technology Upgrading

The both sides confirmed that it would be necessary to keep revising the available technologies including skills and equipment and enhancing its capabilities to cope with new products of IT, whatever the source of finance is.

VII Attendance of the Discussions

The list of attendance of the discussions is as shown in Annex 32.

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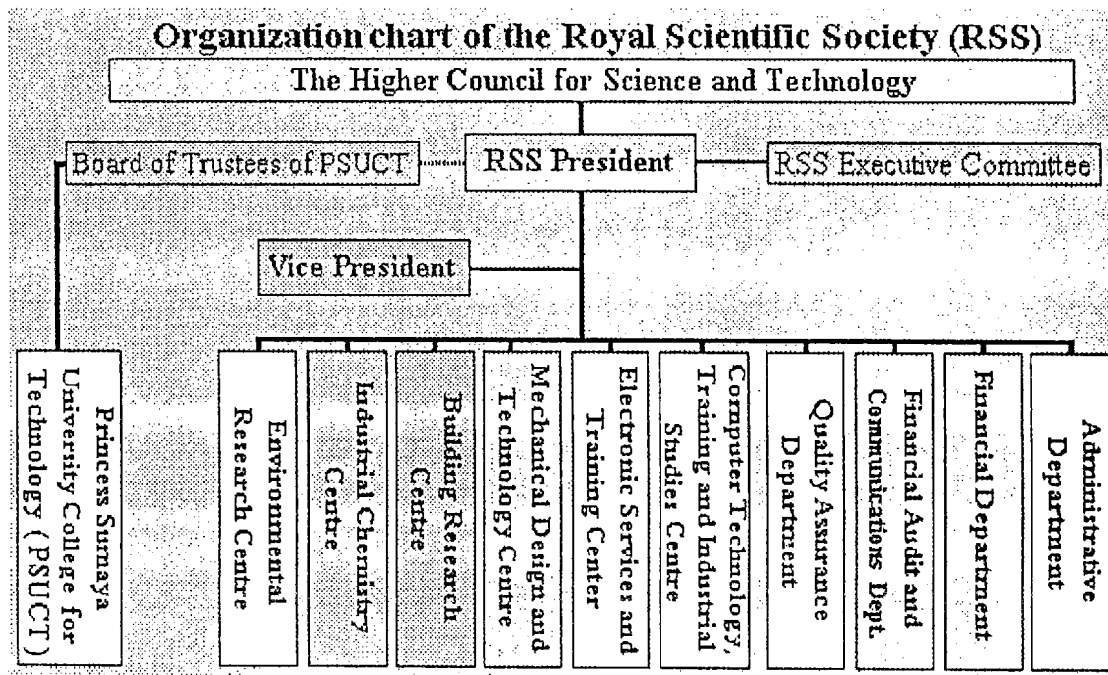
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- Annex 6 Machinery and Equipment Provided by the Japanese Side
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- Annex 14 Monitoring and Eva Plan
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- Annex 16 APO for JFY 1999 and achievement of the annual plan
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- Annex 30 RSS Network
- Annex 31 Configuration of Machinery and Equipment of the Project

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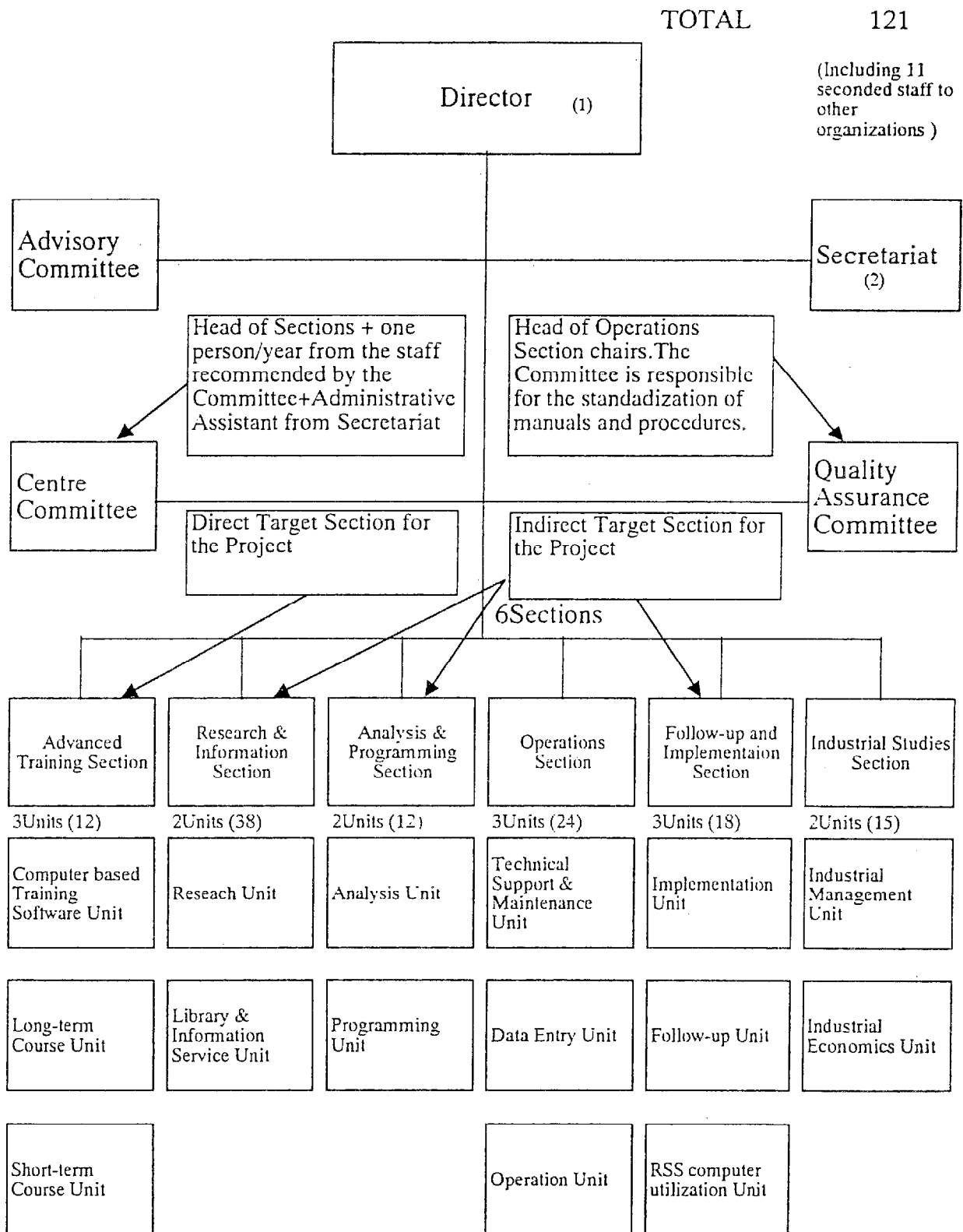
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Annex 1 Organization Chart



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## Annex 2 The Organization Chart of CTTISC



Note 1 The number with a blanket shows the number of staff. The head of the each section is out of the number above. Director holds the concurrent post of the head of Research & Information Section at present.

2 In addition to the above, there are four (4) messengers, two (2) drivers in the Centre, while four (4) are seconded to NIC, four (3) to PSUCT, four (4) to other organizations concerned.

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Annex3 The Budget of RSS

1996

(Unit:JD)

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	3,728,519	3,687,588	98.90%	Research & Development	1,414,631	1,133,144	80.10%
Procurement of M & E	265,900	184,443	69.37%	Technical Services	3,759,300	3,749,665	99.74%
Utilities	74,500	44,992	60.39%	Training	86,000	77,216	89.79%
Office Consumables	652,219	606,766	93.03%	Others	1,609,939	1,667,038	103.55%
Furniture & Office E.	13,000	4,493	34.56%	/			
Travel Allowance	475,053	467,793	98.47%				
Maintenance	598,917	584,832	97.65%				
Others	1,061,762	1,043,170	98.25%				
TOTAL	6,869,870	6,624,077	96.42%				
Income/Expenditure(Actual)							100.05%

1997

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	4,076,138	4,049,120	99.337	Research & Development	1,249,500	1,246,000	99.7199
Procurement of M & E	288,500	298,450	103.45	Technical Services	4,158,650	4,121,500	99.1067
Utilities	22,000	25,000	113.64	Training	108,000	98,500	91.2037
Office Consumables	754,925	752,850	99.725	Others	1,499,900	1,488,600	99.2466
Furniture & Office E.	13,000	8,500	65.385	/			
Travel Allowance	494,977	492,812	99.563				
Maintenance	590,895	586,950	99.332				
Others	775,615	771,125	99.421				
TOTAL	7,016,050	6,984,807	99.555				
Income/Expenditure(Actual)							99.5675

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1998

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	4,150,250	4,156,780	100.20%	Research & Development	1,149,500	1,220,190	106.15
Procurement of M & E	315,000	298,500	94.76%	Technical Services	4,340,200	4,298,120	99.0305
Utilities	30,000	32,450	108.20%	Training	133,100	135,950	102.141
Office Consumables	780,450	775,235	99.33%	Others	1,545,450	1,485,950	96.15
Furniture & Office E.	18,000	16,450	91.39%	/			
Travel Allowance	495,850	502,350	101.30%				
Maintenance	592,950	575,855	97.12%				
Others	785,750	780,950	99.39%				
TOTAL	7,168,250	7,138,570	99.59%				
				TOTAL	7,168,250	7,140,210	99.6088
				Income/Expenditure(Actual)			100.023

1999

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	4,280,170	4,390,000	102.57%	Research & Development	1,565,500	1,675,000	106.99%
Procurement of M & E	305,000	395,000	129.51%	Technical Services	4,410,270	4,635,000	105.10%
Utilities	32,000	39,500	123.44%	Training	145,000	142,000	97.93%
Office Consumables	750,000	735,500	98.07%	Others	1,066,690	1,120,000	105.00%
Furniture & Office E.	16,000	19,500	121.88%	/			
Travel Allowance	495,850	482,000	97.21%				
Maintenance	475,450	481,500	101.27%				
Others	832,990	935,000	112.25%				
TOTAL	7,187,460	7,478,000	104.04%				
				TOTAL	7,187,460	7,572,000	105.35%
				Income/Expenditure(Actual)			101.26%

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2000

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	4,465,120	4,573,520	102.43%	Research & Development	1,175,500	1,180,500	100.43%
Procurement of M & E	320,000	318,750	99.61%	Technical Services	4,520,000	4,575,000	101.22%
Utilities	35,500	36,750	103.52%	Training	175,000	172,000	98.29%
Office Consumables	790,000	785,500	99.43%	Others	1,613,500	1,621,000	100.46%
Furniture & Office E.	21,500	19,500	90.70%	/			
Travel Allowance	420,000	435,500	103.69%				
Maintenance	610,000	612,000	100.33%				
Others	795,500	791,000	99.43%				
TOTAL	7,457,620	7,572,520	101.54%				
Income/Expenditure(Actual)							99.68%

2001

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	4,981,000	N.A.	N.A.	Research & Development	1,150,000	N.A.	N.A.
Procurement of M & E	340,000	N.A.	N.A.	Technical Services	4,445,000	N.A.	N.A.
Utilities	35,000	N.A.	N.A.	Training	185,000	N.A.	N.A.
Office Consumables	810,000	N.A.	N.A.	Others	1,608,500	N.A.	N.A.
Furniture & Office E.	21,000	N.A.	N.A.	/			
Travel Allowance	475,000	N.A.	N.A.				
Maintenance	495,000	N.A.	N.A.				
Others	85,000	N.A.	N.A.				
TOTAL	7,242,000	N.A.	N.A.				
Income/Expenditure(Actual)							#VALUE!

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Annex 4 The Budget of CTTISC

(Unit:JD)

1997

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)	
Personnel Expenses	170,000	172,250	101.32%	Training Fee	40,000	42,250	105.63%	
Utilities	29,000	27,750	95.69%	Software Development	82,000	82,550	100.67%	
Office Consumables	30,500	29,500	96.72%	Others	148,500	147,950	99.63%	
Furniture & Office E.	2,000	1,950	97.50%	/				
Maintenance	21,500	20,750	96.51%					
Others	17,500	18,150	103.71%					
TOTAL	270,500	270,350	99.94%					TOTAL
							Income/Expenditure (Actual)	100.89%

1998

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)	
Personnel Expenses	175,000	174,750	99.86%	Training Fee	43,000	45,250	105.23%	
Utilities	30,000	29,150	97.17%	Software Development	86,000	87,550	101.80%	
Office Consumables	33,000	31,500	95.45%	Others	150,500	148,350	98.57%	
Furniture & Office E.	2,000	1,950	97.50%	/				
Maintenance	22,000	21,500	97.73%					
Others	17,500	19,750	112.86%					
TOTAL	279,500	278,600	99.68%					TOTAL
							Income/Expenditure (Actual)	100.92%

1999

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	190,000	210,000	110.53%	Training Fee	45,000	52,000	115.56%
Utilities	27,000	31,000	114.81%	Software Development	91,500	112,000	122.40%
Office Consumables	28,500	32,000	112.28%	Others	155,000	160,500	103.55%
Furniture & Office E.	5,000	7,500	150.00%	/			
Maintenance	19,000	21,000	110.53%				
Others	22,000	24,000	109.09%				
TOTAL	291,500	325,500	111.66%				

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Income/Expenditure(Actual) 99.69%

2000

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	195,700	220,000	112.42%	Training Fee	46,350	51,500	111.11%
Utilities	27,810	29,500	106.08%	Software Development	94,245	125,500	133.16%
Office Consumables	29,355	31,500	107.31%	Others	159,650	165,250	103.51%
Furniture & Office E.	5,150	15,750	305.83%	/			
Maintenance	19,570	20,250	103.47%				
Others	22,660	24,750	109.22%				
TOTAL	300,245	341,750	113.82%	TOTAL	300,245	342,250	113.99%

Income/Expenditure(Actual) 100.15%

2001

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	201,571	N.A.	N.A.	Training Fee	47,740	N.A.	N.A.
Utilities	28,645	N.A.	N.A.	Software Development	97,073	N.A.	N.A.
Office Consumables	30,236	N.A.	N.A.	Others	164,440	N.A.	N.A.
Furniture & Office E.	5,304	N.A.	N.A.	/			
Maintenance	20,157	N.A.	N.A.				
Others	23,340	N.A.	N.A.				
TOTAL	309,253	N.A.	N.A.	TOTAL	309,253	N.A.	N.A.

Income/Expenditure(Actual) N.A.

2002

Expenditure	Estimated (A)	Actual (B)	(B)/(A)	Income	Estimated (A)	Actual (B)	(B)/(A)
Personnel Expenses	207,619	N.A.	N.A.	Training Fee	49,175	N.A.	N.A.
Utilities	29,505	N.A.	N.A.	Software Development	99,986	N.A.	N.A.
Office Consumables	31,144	N.A.	N.A.	Others	169,374	N.A.	N.A.
Furniture & Office E.	5,464	N.A.	N.A.	/			
Maintenance	20,762	N.A.	N.A.				
Others	24,041	N.A.	N.A.				
TOTAL	318,535	N.A.	N.A.	TOTAL	318,535	N.A.	N.A.

Income/Expenditure(Actual) N.A.

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## Annex 5 Inputs from Japanese side

## List of Dispatched Japanese Experts, Study Teams and C/P training in Japan

No.	Item	Name	Date from	Date to
I	Dispatched Japanese Expert			
	Long Term	Nobumasa Iijima	04-Dec-99	03-Dec-01
		Makoto Mizuno	04-Dec-99	03-Dec-01
		Tetsuta Okada	04-Dec-99	03-Dec-01
	Short Term	Kenichi Hashimoto	11-May-00	08-Jun-00
		Ayako Korenaga	28-Jun-00	18-Jul-00
		Toyoki Hanagata	24-Jul-00	17-Aug-00
		Masaru Nakagaki	17-Aug-00	30-Sep-00
		Ai Yamaguchi	02-Oct-00	21-Oct-00
		Yuko Yamada	15-Oct-00	17-Nov-00
		Yuko Motoki	11-Nov-00	29-Nov-00
		Yoshiyasu Takefuji	26-Jan-01	03-Feb-01
		Takanori Ebihara	22-Jan-01	02-Mar-01
		Yoshiya Yamada	24-Mar-01	17-Apr-01
		Rumi Kawabata	09-Apr-01	18-May-01
		Keiko Chida	13-May-01	02-Jun-01
		Takanori Ebihara	25-Jun-01	10-Jul-01
		Ai Yamaguchi	22-Jul-01	03-Aug-01
II	Study Team	Basic Study Team	03-Dec-97	20-Dec-97
	Study Team	Preliminary and Supplementary Study	10-Apr-99	27-Apr-99
	Study Team	Implementation Study Team	07-Aug-99	17-Aug-99
III	C/P Training in Japan			
	Observation tour	Safeddin Muaz	17-Oct-99	31-Oct-99
		Samir Qutub	17-Oct-99	31-Oct-99
	Integrated Network System Management Course	Ibrahim Abu Ghazi	08-Oct-00	08-Dec-00
	Intranet Application System Development Course	Walid Fahmi Naser	22-May-01	29-Jul-01

## Supporting Local Costs by the Japanese Side

JFY 1999	3777.164JD
JFY 2000	13617.343JD

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Annex 6 Necessary machinery and equipment for the Project

Field	Equipment/Machinery	Qty	Classification (Refer to Footnote)	If to be Procured by Japan or Jordan	
UNIX Server(Common Practical) Platform(Common Hardware & Software) 1. C/S Operating System 2. C/S Database System Development 3. Advanced Networking 4. Web Computing 5. C/S System Analysis, Design and Management 6. Multimedia	UNIX Server	1	P	Japan	
	UNIX Server Memory	1	P	Japan	
	Monitor	1	P	Japan	
	Internal HD	2	P	Japan	
	Internal DAT recorder	1	P	Japan	
	Quarter inch CMT	1	P	Japan	
	14GB 8mm tape recorder	1	P	Japan	
	SCSI Card	3	P	Japan	
	RS-232C Cable	1	P	Japan	
	Key board Cable	1	P	Japan	
	Interface board (for 10 2/T)	1	P	Japan	
	PagePrinter(LaserPess4150ps)	1	P	Japan	
	Printer Cable	1	P	Japan	
	Printer Card	1	P	Japan	
	Solaris7	1	P	Japan	
	UNIX Server(For Training) Platform(Common Hardware & Software) 1. C/S Operating System 2. C/S Database System Development 3. Advanced Networking 4. Web Computing 5. C/S System Analysis, Design and Management 6. Multimedia	UNIX Server	5	P	Japan
UNIX Server Memory		5	P	Japan	
Monitor		5	P	Japan	
Internal HD		10	P	Japan	
Internal DAT recorder		5	P	Japan	
Quarter inch CMT		5	P	Japan	
14GB 8mm tape recorder		5	P	Japan	
SCSI Card		15	P	Japan	
RS-232C Cable		5	P	Japan	
Interface board (for 10 2/T)		5	P	Japan	
PagePrinter(LaserPess4150ps)		4	P	Japan	
Printer Cable		4	P	Japan	
Printer Card		4	P	Japan	
Solaris7		5	P	Japan	
Desktop PC(For Trainer and Trainee) Platform(Common Hardware & Software) 1. C/S Operating System 2. C/S Database System Development 3. Advanced Networking 4. Web Computing 5. C/S System Analysis, Design and Management 6. Multimedia		Desktop PC	42	P	Japan
		PC Memory	42	P	Japan
	Internal HD	42	P	Japan	
	SCSI Card	4	P	Japan	
	SCSI Cable	4	P	Japan	
	Extra (Added : Outside with SCSI HD)	4	P	Japan	
	Terminator (for SCSI)	4	P	Japan	
	CD-RW	4	P	Japan	
	Windows NT	21	P	Japan	
NT Server(Common Practical) Platform(Common Hardware & Software) 1. C/S Operating System 2. C/S Database System Development 3. Advanced Networking 4. Web Computing 5. C/S System Analysis, Design and Management 6. Multimedia	NT Server	1	P	Japan	
	NT Server Memory	1	P	Japan	
	Monitor	1	P	Japan	
	Internal HD	1	P	Japan	
	SCSI Card	1	P	Japan	
	SCSI Cable	1	P	Japan	
	Extra (Added : Outside with SCSI HD)	1	P	Japan	
	Terminator (for SCSI)	1	P	Japan	

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NT Server(For Training) Platform(Common Hardware & Software) 1. C/S Operating System 2. C/S Database System Development 3. Advanced Networking 4. Web Computing 5. C/S System Analysis, Design and Management 6. Multimedia	NT Server	5	P	Japan
	NT Server Memory	5	P	Japan
	Monitor	5	P	Japan
	Internal HD	5	P	Japan
	SCSI Card	5	P	Japan
	SCSI Cable	5	P	Japan
	Extra (Added : Outside with SCSI) HD	5	P	Japan
	Terminator (for SCSI)	5	P	Japan
	printer cable	6	P	Japan
	printer card	5	P	Japan
	color page printer	4	P	Japan
	Laser page printer(White&Black)	2	P	Japan
	Oracle8 (UNIX Server)	6	P	Japan
	Oracle8 (NT Server)	6	P	Japan
1. C/S Database System Development 5. C/S System Analysis, Design and Management	Oracle8(PC) License	42	P	Japan
	Oracle Developer2000	21	P	Japan
	Oracle Designer2000	5	P	Japan
	SQL*Plus(PC Client)	42	P	Japan
	SQL*Net(PC Client)	42	P	Japan
	Visual Basic	21	P	Japan
	Oracle Intermedia: UNX Context	5	P	Japan
	Oracle8i Enterprise(UNIX Server)	1	P	Japan
	Oracle8i Enterprise(NT Server)	1	P	Japan
	Oracle8i Internet Developer Suite	1	P	Japan
	Oracle Web Server(UNIX)	5	P	Japan
	Visual Workshop C++(UNIX Server)	21	P	Japan
	MS C. C++	21	P	Japan
	Delphi	21	P	Japan
Java	21	P	Japan	
1. Advanced Networking 5. C/S System Analysis, Design and Management	Multi protocol router	3	P	Japan
	Tranceiver	6	P	Japan
	Connector	6	P	Japan
	LAN Cable	10	P	Japan
	LAN terminal supplies	6	P	Japan
	Cisco 3640 Modular Router	1	P	Japan
6. Multimedia	Image scanner	1	P	Japan
	Digital Camera	5	P	Japan
	Video Capture Card	5	P	Japan
	auto disk 3DMAX2	21	P	Japan
	Macromedia Director Multimedia Studio	21	P	Japan
	Shareware Goldwave	21	P	Japan
	PhotoShop Pro	21	P	Japan
	Infini-D	21	P	Japan
	Bryce 3D	21	P	Japan
	Premire	21	P	Japan
	Illustrator	21	P	Japan
	Multimedia SDK	21	P	Japan
	Others(For Training)	Desks	57	P
Chairs		57	P	Jordan
White Boards		3	P	Jordan
File Lockers		6	P	Jordan
Power Source			U	Jordan
Air-condition			U	Jordan
Multimedia Projector		3	P	Japan
OHP		3	P	Jordan
Document Reader		3	P	Japan
Switching Hub		3	P	Japan
Twisted Pair Cable		64	P	Japan

NOTE:  
The definition of above mentioned classification are as follows:  
P: To be procured  
U: Existing and to be used

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### Annex7 The List of the C/P Personnel and Administrative staffs

No.	Name of C/Ps	Status at the Project	Title	Field
1	Dr. Saqer Abdel-Rahim	Project Manager	Director of CTTISC	
2	Samir Ibrahim Qutub	Assistant Project Manager	Head of Advanced Training Section	OS, ANA
3	Ibtisam Abdel-Jaber	Training Co-ordinator	Training Co-ordinator	
4	Sirin Hasan	Technical C/P (Senior)	Head of Follow up Unit	OS, WEB
5	Zuhair Sleibi	Technical C/P (Senior)	Head of Follow up & Implementation Section	OS, DB, ANA
6	Samar Myzayek	Technical C/P (Senior)	Head of RSS Computerisation Unit	OS, WEB
7	Khalid Abu Hilal	Technical C/P (Senior)	Head of Technical Support Unit	OS, NET, MUL
8	Atef Abu Arida	Technical C/P (Junior)	System Analyst	OS, DB, ANA
9	Najem Deen Awadi	Technical C/P (Junior)	System Analyst	OS, DB, ANA
10	Rami Salem	Technical C/P (Junior)	Programmer	DB
11	Walid Fahmi Naser	Technical C/P (Junior)	Programmer	ANA
12	Zaid Al Zubie	Technical C/P (Junior)	Assistant System Analyst	OS
13	Ibrahim Abu Ghazi	Technical C/P (Junior)	Computer Engineer	OS
14	Imad Tafesh	Technical C/P (Junior)	Senior Computer Engineer	OS, NET
15	Iyad Aldasouqi	Technical C/P (Junior)	Computer Engineer	OS, NET, MUL
16	Haythem Saleh	Technical C/P (Junior)	Computer Engineer	NET,
17	Daher Thabel	Technical C/P (Junior)	Senior Programmer	OS, WEB
18	Jamal Habayeb	Technical C/P (Junior)	Programmer	OS, WEB
19	Ahmad Al Abed	Technical C/P (Junior)	Senior Programmer	OS, MUL
20	Mutasem Zalloum	Technical C/P (Junior)	Programmer	WEB
21	Emad Abu Gharbien	Technical C/P (Junior)	Programmer	WEB, MUL
22	Mahmoud Farfora	Technical C/P (Junior)	Programmer	MUL
23	Yahya Al Mufti	Technical C/P (Junior)	Programmer	MUL
24	Jafar Al Qaryouti	Technical C/P (Junior)	Programmer	WEB,
25	Sirin Zamamiri	Technical C/P (Junior)	Programmer	DB
26	Tamir Shoubaky	Technical C/P (Junior)	Programmer	DB
27	Mohammed Khair	Technical C/P (Junior)	Programmer	WEB
28	Omar Nobani	Technical C/P (Junior)	Programmer	WEB,
29	Raeda Zubi	Technical C/P (Junior)	Programmer	DB
30	Rami Khatib	Technical C/P (Junior)	Programmer	WEB,
31	Khalid Abu Osbeh	Technical C/P (Junior)	Programmer	WEB, MUL
32	Tareq Qasem	Technical C/P (Junior)	Programmer	WEB,

1	Jehad Shibli	Administrative Assistant	Administrative Assistant
2	Reema Jowhari		Secretary
3	Huda Zughool		Typist
4	Randa Ghazalah		Typist
5	Jamal Amin		Driver
6	Akram Shahaden		Driver
7	Salamah Marshoud		Messenger

Field: C/S Operating System (OS), C/S Database System Development (DB), Advanced Networking (NET), Web Computing (WEB), C/S System Analysis, Design and Management (ANA), Multimedia (MUL)

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Annex 8 Appropriation of Local Cost for the Project

Royal Scientific Society (RSS)  
Computer Technology, Training and Industrial Studies Centre  
(CTTISC)

Information Technology Upgrading Project  
Budget

No.	Item	JFY 1999 as Reference US\$		JFY 2000 US\$		JFY 2001 US\$		JFY 2002 US\$	
		Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual
1 -	Training Centre Renovation	30,000	28,500	—	19,000	5,000	* N/A	10,000	* N/A
2 -	Personal - Project Manager - Counterparts - Administrative staff and other necessary staff	50,000	51,750	160,000	175,000	170,000	* N/A	200,000	* N/A
3 -	Furniture and office equipment for Japanese experts and Jordanians counterparts	25,000	27,000	8,500	7,500	5,000	* N/A	5,000	* N/A
4 -	Utilities	6,000	6,250	15,000	17,500	15,000	* N/A	15,500	* N/A
5 -	Maintenance	—	—	15,000	14,500	17,500	* N/A	12,500	* N/A
6 -	Travel Allowance	25,000	27,350	25,000	23,000	—	* N/A	21,750	* N/A
7 -	Others	25,000	27,500	10,000	13,000	8,500	* N/A	10,500	* N/A
8 -	Total	161,000	168,350	233,500	269,500	221,000	* N/A	275,250	* N/A

\* N/A : Not Available

## Annex 9 RESULTS OF MID-TERM EVALUATION

### 1 Effectiveness

	Level of Achievement and obstacles in Achieving the Initial Plan	Reference
Output Level	<p>In general, during the first half of the cooperation period, expected outputs have achieved to a satisfactory level.</p> <p>(Output 0):                      The managerial and operational unit of the Project was established and has enhanced to a level which is sufficient to implement and monitor the activities planned for attaining the Project purpose.                      + Sufficient number of staff including managerial staff of accounting has been allocated to the Project activities.                      + Budgeting, technical meeting and joint coordinating committee have been conducted accordingly.                      - Publicity of the Project activities has to be enhanced more in some way.</p> <p>(Output 1):                      + Major machinery and equipment for C/S system were provided, installed, operationalized and maintained properly to pursue all the activities for this period of the Project. Operational manuals and maintenance manuals have been prepared. All machinery and equipment were accordingly purchased through local vendors providing maintenance services.</p> <p>(Output 2):                      + Technology transfer to the counterparts has been carried out to a satisfactory level according to the TCP and ATCPs, though with some minor time lag. The technical capability of the C/Ps has been upgraded and reached to the Project target level through the technology transfer of Japanese short-term experts. As a result, each C/P is capacitated with sufficient knowledge and technique to conduct routine training courses in technology-transfer item.                      - However, textbooks and other related materials for training courses have not developed yet by the C/Ps. It is anticipated that textbooks be developed by the C/Ps and assessed by Japanese experts systematically in the latter half of the cooperation period.</p> <p>(Output 3):                      + Three long-term training courses in the field of C/S Operating System for UNIX and WINDOWS NT, and Advanced Networking were conducted mainly by the targeted C/Ps of the Project in 2001. The above three courses attracted sixty-two (62) participants in total whose number exceeded even</p>	<p>Annex 2. 7</p> <p>Annex 8. 22</p> <p>Annex 6. 23. 24</p> <p>Annex 12. 17. 25</p> <p>Not available</p> <p>Annex 26. 28</p>

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	<p>participants in total whose number exceeded even the capacity of training rooms. The quality of those courses was at a satisfactory level according to questionnaire collected from all participants. Another long-term training course in the field of Web Computing has started from August, 2001 and is in the progress, attracting twenty-one (21) participants.</p> <p>(Output 4):</p> <p>+ The number of software development services of CTTISC continued to increase. It is expected that software development services in the field of C/S system should be enhanced directly and indirectly by the technology-transfer of the Project.</p>	Annex 4, 27
Project Purpose Level	<p>In general, the Project activities have been in due course to achieve to the Project Purpose.</p> <p>+ From the result of IT needs survey collected from thirty-nine (39) public organizations and nineteen (19) private companies, it can be judged that the new subjects of long-term training courses of the Project meet the needs from both public and private IT sectors in Jordan. The quality of long-term training courses already implemented by the C/Ps was at a satisfactory level according to questionnaire collected from almost all participants. Moreover, short-term training courses and ICDL courses have implemented successfully on their own.</p> <p>+ The number of new clients and income generated by software development services continued to increase. It is expected that software development services in the field of C/S system should be enhanced more directly and indirectly by the technology-transfer of the Project.</p>	Annex 26, 28, 29  Annex4, 27
Factors affecting Achievement of the Project Purpose on Basis of Outputs	During the corresponding period, there were no internal and/or external factors that may affect the Project activities.	

## 2 Impact

Though this item is available to a large extent such as an increase of better employment opportunities for the trainees of CTTISC, this item will be further studied on the final evaluation stage.

## 3 Efficiency

	Content	Reference
Timing, Quality and Quantity of Inputs.	<p>Most of the inputs from the Japanese side and the Jordan side were appropriate:</p> <p>+ The allocation, number of counterparts and</p>	Annex 2, 7

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	<p>supporting staff was in accordance with the plan except some minor reshuffle of the counterpart personnel.</p> <p>+ The number of long-term experts was well balanced and sufficient. Short-term experts were dispatched as planned, and the number, quality and term of assignment of short-term experts was adequate to instruct the C/Ps six (6) technology-transfer areas.</p> <p>+ Equipment provided by the Japanese side was appropriate on the whole. Maintenance and calibration of the equipment was carried out according to the Management Record of Machinery and Equipment.</p> <p>+ Operational budget has been secured by the Jordanian side in sufficient amount.</p>	<p>Annex 5</p> <p>Annex 6, 23, 24</p> <p>Annex 8</p>
Level of Outputs compared with Quantity and Quality of Inputs	+ As mentioned in Effectiveness, the outputs of the Project have reached to a satisfactory level, and the Project activities have been in due course to attain the Project Purpose by the end of the cooperation period. Therefore, the quantity and quality of inputs stated above can be judged as adequate compared with the levels of outputs as well as the achievement level of the Project Purpose.	

#### 4 Relevance

	Content	Reference
Relevance with IT national strategy for Jordan Overall Goal	+ CTTISC has been making efforts to head for becoming the Center of Excellence, the authorized national training center for trainers in Jordan. They have obtained ISO 9001 and started to conduct ICDL trainings since the start of the Project.	Discussions with CTTISC

#### 5 Sustainability

	Content	Reference
Institutional Aspects	+ The managerial and operational system of the Project is established to pursue and develop its activities. CTTISC is giving sufficient support to the Project.	Annex 7, 8
Financial Aspects	+ CTTISC has made best efforts to secure adequate budget for operational expenses and personnel from 1999 to 2001. However, it may be necessary for them to take any creative measures to expand and update their technical activities within the limited financial resources.	Annex 4
Technical Aspects	+ At the time of the mid-term evaluation, the technical capability of the C/Ps has been upgraded and reached to the Project target level through the technology transfer of Japanese short-term experts. As a result, each C/P are capacitated with sufficient	Annex 25

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	<p>knowledge and technique to conduct routine training courses in technology-transfer item.</p> <p>- However, textbooks and other related materials for training courses have not developed yet by the C/Ps. It is anticipated that textbooks be developed by the C/Ps and assessed by Japanese experts systematically in the latter half of the cooperation period.</p> <p>+ Three long-term training courses in the field of C/S Operating System for UNIX and WINDOWS NT, and Advanced Networking were conducted mainly by the targeted C/Ps of the Project in 2001. The above three courses attracted sixty-two (62) participants in total whose number exceeded the capacity of training rooms. The quality of those courses was at a satisfactory level according to questionnaire collected from all participants. Another long-term training course in the field of Web Computing has started from August, 2001 and is in the progress, attracting twenty-one (21) participants.</p>	<p>Not available</p> <p>Annex 26, 28</p>
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## Annex 10 Project Design Matrix (PDM) of Information Technology Upgrading Project

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumption
<p><b>Overall Goal</b> Training courses in the field of C/S system are provided to Arabic countries by CTTISC.</p>	<p>1 Number of training courses implemented for Arabic countries</p> <p>2 Number of participants from Arabic countries</p> <p>3 Level of satisfaction of participants and their employers</p>	<p>1 CTTISC record</p> <p>2 CTTISC record</p> <p>3 Questionnaire to and interview with present and former service beneficiaries</p>	<p>a There is no drastic change in political and economic situation in Jordan and other Arabic countries.</p> <p>b CTTISC continues to be regarded as regional IT training centre by Jordan and Arabic countries.</p>
<p><b>Project Purpose</b> Technical services in the field of C/S system provided by CTTISC are upgraded.</p>	<p>1 Level of satisfaction of present and former service beneficiaries</p> <p>2 Number of newly introduced/ improved services and new clients</p>	<p>1 Questionnaire to and interview with present and former service beneficiaries</p> <p>2 CTTISC record</p>	<p>a C/S System specialists are highly demanded in Arabic countries.</p>
<p><b>Outputs</b></p> <p>0 The Project operation unit is enhanced.</p> <p>1 The necessary machinery and equipment are provided, installed, operated and maintained properly.</p> <p>2 Technical capability of the counterpart personnel (hereinafter referred to as "C/P") is upgraded.</p> <p>3 Training courses in the field of C/S system are implemented.</p> <p>4 Software development service in the field of C/S system is enhanced.</p>	<p>0 Number of staff, budget and settlement account capability of managerial staff, number of committee and meeting, number of publicity</p> <p>1-1 Contents and condition of facility and equipment</p> <p>1-2 Contents of equipment manuals</p> <p>1-3 Route to maintain and version-up</p> <p>2-1 Assessment by the Japanese experts</p> <p>2-2 Materials, manuals, and textbook developed</p> <p>3-1 Number of training courses implemented</p> <p>3-2 Number of participants of training courses</p> <p>3-3 Curricula, manuals and training materials</p> <p>4 Number of software development services</p>	<p>0 Organization chart, Administration record, Accounting record, Personnel record</p> <p>1 Property record, operation and maintenance record</p> <p>1-2 Equipment manuals</p> <p>1-3 List of suppliers and contents of contract with suppliers</p> <p>2-1, 2-2 CTTISC record</p> <p>3-1, 3-2, 3-3 CTTISC record</p> <p>4 CTTISC record</p>	<p>a Trained C/P remain at CTTISC.</p>

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Activities 0-1 Allocate necessary personnel as planned. 0-2 Make plans of activities. 0-3 Make budget plan and execute properly. 0-4 Establish and operate management system. 1-1 Make facility refurbishment plan and implement as planned. 1-2 Provide and install machinery and equipment. 1-3 Operate and maintain machinery and equipment properly. 2-1 Make Technical Cooperation Program. 2-2 Implement technology transfer to the C/P. 2-3 Monitor and evaluate technology transfer to the C/P. 3-1 Implement needs survey for IT training course 3-2 Make implementation plans of training courses. 3-3 Prepare C/S training curriculum and teaching materials. 3-4 Implement, monitor, and evaluate training courses. 4-1 Receive and screen requests for software development 4-2 Draw up development plan of requested software 4-3 Develop and deliver software to the requested client 4-4 Evaluate developed software	Inputs		a C,P will remain at CTTISC.
	The Jordanian side	The Japanese side	
	1 Provision and maintenance of building and facilities	1 Dispatch of Japanese Experts (1) Long term Experts a Chief Advisor b Coordinator c Technical Advisor (2) Short term Experts Appropriate number of Short term Experts will be dispatched as necessity arises..	
	2 Allocation of C/P and Administrative personnel (1) Administrative C/P (2) Technical C/P at the commencement (3) Supporting staff a Secretary b Driver c Other necessary staff upon request by the Japanese experts	2 C,P training in Japan A certain number (0-3 persons) of the C/P yearly	
3 Provision of machinery, equipment and their maintenance	3 Provision of Machinery and Equipment		
4 Local cost	4 Supporting Local Cost		
			Preconditions Related organizations are supportive to CTTISC.

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Annex 11

Plan of Operations (PO)

Plan ——— Achievement

Calendar Year	1998	1999	2000	2001	2002	2003
Japanese Fiscal Year	1998	1999	2000	2001	2002	2003
	I I I I I I I I I I	I I I I I I I I I I	I I I I I I I I I I	I I I I I I I I I I	I I I I I I I I I I	I I I I I I I I I I
Term of Technical Cooperation		Signing of the R/D				
0 The Project Operation unit is enhanced		▼				
0-1 Allocate necessary personnel as planned		=====				
0-2 Make plans of activities		=====				
0-3 Make budget plan and execute properly		=====				
0-4 Establish and operate management system		=====				
1 The necessary machinery and equipment are provided, installed, operated and maintained properly		=====				
1-1 Make facility refurbishment plan and implement as planned		=====				
1-2 Provide and install machinery and equipment		=====				
1-3 Operate and maintain machinery and equipment properly		=====				
2 Technical capability of the C/P is upgraded		=====				
2-1 Make Technical Cooperation Program		=====				
2-2 Implement technology transfer to the C/P		=====				
2-3 Monitor and evaluate technology transfer to the C/P		=====				
3 Training courses in the field of C/S system are implemented		=====				
3-1 Implement needs survey for IT training courses		=====				
3-2 Make implementation plans of training courses		=====				
3-3 Prepare C/S training curriculum and teaching materials		=====				
3-4 Implement, monitor and evaluate training courses		=====				
4 Software development services in the field of C/S system is enhanced		=====				
4-1 Receive and screen requests for software development		=====				
4-2 Draw up development plan of requested software		=====				
4-3 Develop and deliver software to the requested client		=====				
4-4 Evaluate developed software		=====				


Note 1 The Japanese fiscal year starts in April and ends in March.

2 This schedule is subject to change in accordance with the Progress of the Project.

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# Annex 12 Technical Cooperation Program(TCP)

— Implemented  Plan

Calendar Year	1 9 9 9	2 0 0 0	2 0 0 1	2 0 0 2
Japanese Fiscal Year	8 1 9 9	9 2 0 0	0 2 0 0	1 2 0 0
	4 1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Term of Technical Cooperation				
PO 2-2 Implement Technology Transfer to the C/P				
Schedule of Training Courses				
1. Software Engineering using UNIX				
2. Software Engineering using NT				
3. Advanced Networking				
4. Web Computing				
5. Multimedia				
Technology Transfer Items				
1-1. C/S Operating System				
(1) C/S System Concept				
(2) PC Client Administration				
(3) PC Server Administration				
(4) UNIX Server Administration				
(5) Technical Advice				
1-2 Curriculum Development Methodology				
2. C/S Database System Development				
(1) Database System Definition and Administration				
(2) Database Backup and Recovery				
(3) Database System Programming				
(4) Database System Performance and Tuning				
(5) Database System Design				
(6) System Development Workshop				
(7) Technical Advice				
3. Advanced Networking				
(1) LAN Design				
(2) LAN Management				
(3) Data Communication Fundamentals				
(4) WAN Design				
(5) Network Management				
(6) Networking Workshop(LAN)				
(7) Technical Advice				
4. Web Computing				
(1) Internet Fundamentals				
(2) WWW Server Design and Implementation(UNIX)				
(3) WWW Server Development				
(4) Programming(JAVA)				
(5) WWW Server Workshop				
(6) Technical Advice				
5. C/S System Analysis, Design and Management				
(1) System Development Methodology				
(2) System Analysis and Design				
(3) Application System Development				
(4) C/S System Design and Implementation				
(5) C/S System Management				
(6) System Design Workshop				
(7) Technical Advice				
6. Multimedia				
(1) Introduction to Multimedia				
(2) Multimedia Tools				
(3) Multimedia Title Development				
(4) Multimedia System Development Workshop				
(5) CBT System Development				
(6) Technical Advice				

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### Annex 13 Tentative Schedule of Implementation (TSI)

Calendar Year	1998				1999				2000				2001				2002				2003			
Japanese Fiscal Year	97		1998		1999		2000		2001		2002		2003		2003		2003		2003		2003			
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV		
Term of Technical Cooperation																								
The Japanese side																								
I Dispatch of Mission																								
(1) Preliminary Study																								
(2) Supplementary Study																								
(3) Implementation Study																								
(4) Advisory																								
(5) Evaluation																								
II Dispatch of Long-Term Experts																								
(1) Chief Advisor																								
(2) Coordinator																								
(3) Technical Advisor																								
III Dispatch of Short-Term Experts																								
IV Training of C/P Personnel in Japan																								
V Provision of Machinery and Equipment																								
VI Local Cost Support																								
The Jordanian side																								
I Building and Facilities																								
II Machinery and Equipment																								
III Allocation of C/P Personnel and Necessary Staff																								
IV Allocation of Budget																								

**NOTE:**

- 1 The Japanese fiscal year starts in April and ends in March.
- 2 This Schedule is subject to change in accordance with the Progress with the Project.

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## Annex 14 Monitoring and Evaluation Plan

Name of the Project	Information Technology Upgrading Project in the Heshemite Kingdom of Jordan		
Duration of Cooperation	December 1st, 1999 to November 30th, 2002		
Study Team	Mid-term Evaluation Team		
Period of the Study	September 9th, 2001 to September 13, 2001		
Division in Charge	First Technical Cooperation Division, Mining & Industrial Development Cooperation Department	Staff in Charge	Ken Kubokura

### I Activities and Contents of the Project

The activities and contents of the Project are shown in the following Charts for Project Planning and Management:

- 1 Project Design Matrix (PDM)
- 2 Plan of Operations (PO)
- 3 Annual Plan of Operations (APO)
- 4 Technical Cooperation Program (TCP)
- 5 Annual Technical Cooperation Program (ATCP)

### II Monitoring and Evaluation System

#### 1 Monitoring

The following monitoring is scheduled to be held during the cooperation period:

##### (1) Periodical Monitoring

The periodical monitoring is to be implemented, the contents of which are to be discussed on the occasion of regular meetings in the Project, such as Weekly, Monthly and Quarterly Project Management Meeting to be implemented by Chief Advisor, Project Coordinator, other experts as well as Jordan Project Director, Project Manager, Assistant Project Manager, and Technical C/P.

##### (2) Monitoring

Monitoring will be done every six (6) months by the Project. The results will be presented to the Joint Coordinating Committee (JCC) and distributed to the organizations concerned and/or personnel involved in the Project.

#### 2 Evaluation

Final Evaluation of the Project will be conducted jointly by the two Governments through JICA and Jordan authorities concerned during last six(6) months of the cooperation term in order to examine the level of achievement as stipulated in the R/D. JICA will dispatch the final evaluation team in fall, 2002. In any manner, any evaluation should be jointly implemented by both sides and the outcome should be submitted and reported at the JCC in the form of Joint Evaluation Report and are to be signed by both sides, if possible.

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III Tentative Schedule for Monitoring and Evaluation

Date	Monitoring or/ Evaluation and other related activities	Implementator	Reporting
August 1999	Signing of the R/D	Project Design Team The Jordan side	R/D, M/M
December 1999	Commencement of the Project		
January 2000	Monitoring (1)	Japanese experts The Jordan C/P  to be confirmed by JCC members	M/M at JCC, Monitoring Report
April 2000	Monitoring (2)	Japanese experts The Jordan C/P  to be confirmed by JCC members	M/M at JCC, Monitoring Report
November 2000	Monitoring (3)	Japanese experts The Jordan C/P  to be confirmed by JCC members	M/M at JCC, Monitoring Report
April 2001	Monitoring (4)	Japanese experts The Jordan C/P  to be confirmed by JCC members	M/M at JCC, Monitoring Report
September 2001	Mid-term Evaluation	Japanese experts The Jordan C/P  to be confirmed by Mid-term Evaluation Team and JCC members	M/M at JCC Monitoring Report
April 2002	Monitoring (5)	Japanese experts The Jordan C/P  to be confirmed by JCC members	M/M at JCC, Monitoring Report
September 2002	The Final Evaluation	Japanese experts The Jordan C/P  to be confirmed by Final Evaluation Team and JCC members	Final Evaluation Report, M/M at JCC, Monitoring Report

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#### IV Criteria and Item for Monitoring and Evaluation

##### 1 Criteria and Item for Monitoring

- (1) PDM (Project Design Matrix)
- (2) PO (Plan of Operations) and APO (Annual Plan of Operations)
- (3) TCP (Technical Cooperation Program) and ATCP (Annual Technical Cooperation Program)
- (4) Monitoring and Evaluation Sheet of Each Technology Transfer Item
- (5) Results of Monitoring Stipulated in Each Monitoring Report
- (6) Others if necessary

If technology transfer does not progress as planned, the Project will study the interior/exterior factors to hamper, take necessary countermeasures and will revise the plan.

##### 2 Criteria and Item for Evaluation

Criteria and Item for Evaluation will be prepared by the Project based on the Evaluation Grid and also be confirmed on the occasion of the fifth monitoring scheduled in April 2002.

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# Annex 15 Joint Semiannual Monitoring Report

## III. Results of Monitoring

### 1. Achievements and Changes of External Factors of the Project Based on PDM

Project Name: Information Technology Upgrading Project

Duration of Cooperation: December 1<sup>st</sup>, 1999~November 30<sup>th</sup>, 2002

Date of Implementation of Monitoring:

Project Purpose (Expected Achievement Level)	
Outputs (Achievement Level)	
Changes of External Factors (Important Assumptions)	

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## 2. Problems and Countermeasures of the Project

Project Name: Information Technology Upgrading Project

Duration of Cooperation: December 1<sup>st</sup>, 1999~November 30<sup>th</sup>, 2002

Date of Implementation of Monitoring:

<p>Problems and Obstacles (which prevent the achievement of Project Purpose and Outputs)</p>	
<p>Countermeasures</p>	<p>1) Action Plan Taken by the Project Team</p> <p>2) Action Plan Taken by JICA Jordan Office</p> <p>3) Request to JICA Headquarters</p>
<p>Comments of JICA Jordan Office</p>	
<p>Comment of JICA Headquarters</p>	

## VI. Conclusion

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(Summary of this monitoring report)



# Annex 16 Annual Plan of Operations (APO) for the first year of the Project

Output 0 The Project operation unit is enhanced.

Achievement ▼           
 Plan v         

Calendar Year	Target	1999												2000												Responsible Person in the Project(*)	Input (*) (Person who is in charge)	Remarks
		JOFY 1999						JOFY 2000						JOFY 2000														
		7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3						
		Signing of the R/D						JCC						JCC														
Term of Technical Cooperation		<div style="border: 1px solid black; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 15px; margin-bottom: 2px;"></div>																										
0 The Project operation unit is enhanced.																												
0-1 Allocate necessary personnel as planned.																												
0-1-1 Make personnel allocation plan.																										PD, PM		
0-1-2 Allocate personnel as planned.																										PD, PM		
0-1-3 Review personnel allocation, if necessary.																										PD, PM		
0-2 Make plans of activities.																												
0-2-1 Make plans of activities for the Project.																										CA, PM	JPC, LE, APM, SC/P	
0-2-2 Make plans of activities for the first year.																										CA, PM	JPC, LE, APM, SC/P	
0-2-3 Review plans of activities, if necessary.																										CA, PM	JPC, LE, APM, SC/P	
0-2-4 Make plans of activities for the second year.																										CA, PM	JPC, LE, APM, SC/P	
0-3 Make budget plan and execute properly. (Jordanian side)																												
0-3-1 Execute budget for JOFY 1999 as planned.																										PD, PM	APM, SC/P	
0-3-2 Make budget plan for JOFY 2000.																										PD, PM	APM, SC/P	
0-3-3 Approve budget for JOFY 2000.																										PD, PM	APM, SC/P	
0-3-4 Execute budget for JOFY 2000.																										PD, PM	APM, SC/P	
0-3-5 Make budget plan for JOFY 2001.																										PD, PM	APM, SC/P	
0-3-6 Approve budget for JOFY 2001.																										PD, PM	APM, SC/P	
0-4 Establish and operate management system.																												
0-4-1 Review existing management system.																										CA, PM	JPC, LE, APM, SC/P	
0-4-2 Make plan of management system.																										CA, PM	JPC, LE, APM, SC/P	
0-4-3 Establish management system.																										CA, PM	JPC, LE, APM, SC/P	
0-4-4 Operate management system.																										CA, PM	JPC, LE, APM, SC/P	
0-4-5 Monitor and review management system, if necessary.																										CA, PM	JPC, LE, APM, SC/P	

(\*) <Jordanian side>

- PD : Project Director  
 PM : Project Manager  
 APM : Assistant Project Manager  
 SC/P : Jordanian senior C/P

JCC : Joint coordinating committee

<Japanese side>

- CA : Chief Advisor  
 JPC : Project Coordinator  
 LE : Long-term expert  
 SE : Short-term expert

Output 1 The necessary machinery and equipment are provided, installed, operated and maintained properly.

Calendar Year	Target	1999																		Responsible person in the Project(*)	Input (*) (Person who is in charge)	Remarks
		JOFY 1999									JOFY 2000											
		JFY 1999									JFY 2000											
		7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
		Signing of the R/D																				
Term of Technical Cooperation		<div style="display: flex; justify-content: space-between;"> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> <span>▼</span> </div>																				
1 The necessary machinery and equipment are provided, installed, operated and maintained properly.																						
1-1 Make facility refurbishment plan and implement as planned.																				PM	APM	
1-1-1 Make facility refurbishment plan.																				PM	APM	
1-1-2 Implement as planned.																						
1-2 Provide and install machinery and equipment.																				CA, PM	JPC, LE, APM, SC/P	
1-2-1 Identify specifications of necessary machinery and equipment.																				JICA		
1-2-2 select traders.																				CA, PM	JPC, LE, APM, SC/P	
1-2-3 Procure and transport the machinery and equipment to the Project site.																				CA, PM	JPC, LE, APM, SC/P	
1-2-4 Install the machinery and equipment.																						
1-3 Operate and maintain machinery and equipment properly.																				CA, PM	JPC, LE, APM, SC/P	
1-3-1 Make maintenance plan of the machinery and equipment.																				CA, PM	JPC, LE, APM, SC/P	
1-3-2 Prepare or develop operation and maintenance system.																				CA, PM	JPC, LE, APM, SC/P	
1-3-3 Operate and maintain the machinery and equipment as planned.																				CA, PM	JPC, LE, APM, SC/P	

(\*) <Jordanian side>

PD : Project Director

PM : Project Manager

APM : Assistant Project Manager

SC/P : Jordanian senior C/P

JCC : Joint coordinating committee

<Japanese side>

CA : Chief Advisor

JPC : Project Coordinator

LE : Long-term expert

SE : Short-term expert

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Output 2 Technical capability of the counterpart personnel (hereinafter referred to as "C/P") are upgraded.

Calendar Year  Fiscal Year	Target	1999																											Responsible person in the Project(*)	Input (*) (Person who is in charge)	Remarks
		JOFY 1999													JOFY 2000																
		JFY 1999													JFY 2000																
		7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3									
Term of Technical Cooperation		Signing of the R/D													JCC																
2 Technical capability of the counterpart personnel (hereinafter referred to as "the C/P") is upgraded.																															
2-1 Make Technical Cooperation Program.																															
2-1-1 Evaluate technical capability of the C/P through interviews, test, factory visit and so on.																													CA, PM	IE, SE, APM, SC/P	
2-1-2 Make Technical Cooperation Program (TCP).																													CA, PM	IE, APM, SC/P	
2-1-3 Make Annual Technical Cooperation Program (ATCP) for the first year of the Project.																													CA, PM	IE, APM, SC/P	
2-1-4 Review ATCP.																													CA, PM	IE, APM, SC/P	
2-1-5 Make ATCP for the second year of the Project.																													CA, PM	IE, APM, SC/P	
2-1-6 Review TCP, if necessary.																													CA, PM	IE, APM, SC/P	
2-2 Implement technology transfer to the C/P.																															
2-2-1 Prepare teaching material.																													IE, APM	SE, SC/P	
2-2-2 Implement technology transfer as planned.																													IE, APM	SE, SC/P	
2-2-3 Compile textbooks and necessary documents.																													IE, APM	SE, SC/P	
2-3 Monitor and evaluate technology transfer to the C/P.																															
2-3-1 Make monitoring and evaluation plan.																													CA, PM	IE, APM, SC/P	Refer to 0-4-2.
2-3-2 Establish monitoring and evaluate plan.																													CA, PM	IE, APM, SC/P	Refer to 0-4-3.
2-3-3 Monitor the result of technology transfer to the C/P.																													CA, PM	IE, SE, APM, SC/P	
2-3-4 Evaluate the result of technology transfer to the C/P.																													CA, PM	IE, APM, SC/P	

(\*) <Jordanian side>

PD : Project Director  
 PM : Project Manager  
 APM : Assistant Project Manager  
 SC/P : Jordanian senior C/P

JCC : Joint coordinating committee

<Japanese side>

CA : Chief Advisor  
 JPC : Project Coordinator  
 LE : Long-term expert  
 SE : Short-term expert

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Output 3 Training courses in the field of C/S system are implemented.

Calendar Year	Fiscal Year	Target	1999												2000												Responsible person in the Project(*)	Input (*) (Person who is in charge)	Remarks
			JOFY 1999						JOFY 2000						JOFY 1999						JOFY 2000								
			7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3						
			Signing of the R/D						JCC						JCC						JCC								
Term of Technical Cooperation			▼						▼						▼						▼								
3 Training courses in the field of C/S system are implemented.																													
3-1 Implement needs survey for IT training courses.																													
3-1-1 Grasp the needs for IT training courses.																													
3-1-1-1 Make plan of computer related institute visit.																											CA, PM	JPC, IE, APM, SC/P	
3-1-1-2 Implement computer related institute visit.																											CA, PM	JPC, IE, APM, SC/P	
3-1-2 Analyse the results of the said needs survey.																											CA, PM	JPC, IE, APM, SC/P	
3-1-3 Make plan of computer training courses.																											CA, PM	JPC, IE, APM, SC/P	
3-1-4 Make outline for Computer training courses.																											CA, PM	JPC, IE, APM, SC/P	
3-2 Make implementation plans of training courses.																													
3-2-1 Prepare schedule for training courses.																											CA, PM	IE, APM, C/P	
3-2-2 Allocate necessary C/P for training courses.																											CA, PM	APM	
3-2-3 Prepare advertisement for training courses.																											CA, PM	JPC, IE, APM, C/P	
3-2-4 Send application form to the participants.																											CA, PM	JPC, IE, APM, C/P	
3-3 Prepare C/S training curriculum and teaching materials.																													
3-3-1 Make plan of curriculum.																											CA, PM	JPC, IE, APM, SC/P	Refer to 0-4-2.
3-3-2 Arrange and prepare the teaching materials.																											CA, PM	JPC, IE, APM, SC/P	Refer to 0-4-3.
3-4 Implement monitor and evaluate training courses.																													
3-4-1 Make monitoring and evaluation plan.																											CA, PM	JPC, IE, APM, SC/P	
3-4-2 Establish monitoring and evaluation plan.																											CA, PM	JPC, IE, APM, SC/P	

(\*) <Jordanian side>

PD : Project Director

PM : Project Manager

APM : Assistant Project Manager

SC/P : Jordanian senior C/P

JCC : Joint coordinating committee

<Japanese side>

CA : Chief Advisor

JPC : Project Coordinator

LE : Long-term expert

SE : Short-term expert

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Output 4 Software development services in the field of C/S system is enhanced.

Calendar Year	Target	1999																								Responsible person in the Project(*)	Input (*) (Person who is in charge)	Remarks										
		JOFY 1999												JOFY 2000																								
		JFY 1999						JFY 2000						JFY 2000						JFY 2000																		
		7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6				7	8	9	10	11	12				
		Signing of the R/D								JCC												JCC								JCC	JCC							
		▼								▼																												
Term of Technical Cooperation																																						
4 Software development services in the field of C/S system is enhanced.																																						
4-1 Receive and screen requests for software development.																																						
4-1-1 Receive requests for software development.																																						
4-1-2 Screen requests for software development.																																						
4-2 Draw up development plan of requested software.																																						
4-2-1 Make draw up plan of requested software.																																						
4-2-2 Advise to draw up requested software.																																						
4-3 Develop and deliver software to the requested client.																																						
4-3-1 Develop software to the requested client.																																						
4-3-2 Deliver software to the requested client.																																						
4-4 Evaluate developed software.																																						
4-4-1 Make evaluation plan.																																						
4-4-2 Establish evaluation plan.																																					Refer to 0-4-2.	

(\*) <Jordanian side>

PD : Project Director

PM : Project Manager

APM: Assistant Project Manager

SC/P : Jordanian senior C/P

JCC : Joint coordinating committee

<Japanese side>

CA : Chief Advisor

JPC : Project Coordinator

LE : Long-term expert

SE : Short-term expert



Annex 17 Annual Technical Cooperation Program (ATCP)

— Implemented  
 LE Training by Long Term Expert SF Training by Short Term Expert  
 Lectures Hands-on Training Workshop Follow-up (Q & A)

Calendar Year Japanese Fiscal Year	1 9 9 9												2 0 0 0						2 0 0 1																								
	1 9 9 9												2 0 0 0						2 0 0 1																								
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3																					
	Signing of the R/T																																										
Term of Technical Cooperation	▼																																										
0 Fundamentals(Common Items)																																											
1-1 C/S Operating System (C/S System Concept(1 Day))																							LE																				
a Outline of Computer System																							LE																				
b Outline of C/S System																							LE																				
(2)PC Client Functions and Administration(2 Days)																																											
a Fundamentals of Windows 98																							SE																				
b Installation of Windows98																							SE																				
c Architecture of Windows98																							SE																				
d Compression of Windows98																							SE																				
e Network Function																							SE																				
f Environmental Setting and Operation Management of Windows98																							SE																				
(3)PC Server Administration(6 Days)																																											
a Introduction to Administering Windows NT/NT Workstation																							SE																				
b Setting up User Accounts																							SE																				
c Setting up Group Accounts																							SE																				
d Administering User and Group Account																							SE																				
e Securing Network Resources with Shared Permission																							SE																				
f Securing Network Resources with NTFS Permission																							SE																				
g Setting up a Network Printer																							SE																				
h Administering Network Printers																							SE																				
i Auditing Resources and Events																							SE																				
j Monitoring Network Resources																							SE																				
k Backing up and Restoring Data																							SE																				
l Outline of Internet Information Service(IIS)																							SE																				
m Setting up IIS																							SE																				

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Annex 17 Annual Technical Cooperation Program (ATCP)

Implemented     
  Lectures     
  Hands-on Training     
  Workshop     
  Follow-up Q & A  
 TT: Training by Long-Term Expert     
 ST: Training by Short-Term Expert

Calendar Year	1 9 9 9												2 0 0 0												2 0 0 1																
	Japanese Fiscal Year																																								
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3																			
Term of Technical Cooperation	Signing of the R-D																																								
(4)UNIX Server Administration(5 Days)																																									
a Preparation for Installing Solaris																																									
b Preparation for Custom JumpStart Installation																																									
c Installation of Solaris Using JumpStart																																									
d Installation of Solaris Using Interactive Mode																																									
e Installation of Solaris Using Custom JumpStart																																									
f The Boot Process																																									
g Managing File System																																									
h Backup and Recovery																																									
i The admin tool																																									
j The Service Access Facility																																									
k Introduction to the Shell																																									
l The Shell Script																																									
m The AWK Programming Language																																									
(5)Technical Advice(5 Days)																																									
a Instruction Skill Level Check & Advice																																									
1-2 IT Curriculum Development Methodology(3 Days)																																									
a Course Design																																									
b Curriculum Development																																									
c Course Material Development																																									
d Instruction Technique																																									

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Annex 17 Annual Technical Cooperation Program (ATCP)

— Implemented  
 LT Training by Long Term Expert SE Training by Short Term Expert  
 Lectures Hands-on Training Workshop Follow-up (Q & A)

Calendar Year Japanese Fiscal Year	1 9 9 9												2 0 0 0												2 0 0 1		
	1 9 9 9												2 0 0 0												2 0 0 0		
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3					
Term of Technical Cooperation	Spring of the R/D																										
2 C/S Database System Development																											
(1) Database system definition and management(4 Days)																											
a Outline of Oracle																											
b Creation of Oracle Database																											
c Registration and Management of Oracle																											
d Outline of NLF8																											
(2) Database Backup and Recovery(3 Days)																											
a Knowledge for Backup and Recovery																											
b Backup																											
c Recovery																											
d Recovery Manager																											
e Export and Import																											
(3) Database System Programming(3 Days)																											
a Outline of PL/SQL																											
b Anonymous PL/SQL Block																											
c Subprogram																											
d Package																											
e Trigger																											
(4) Database System Performance and Tuning(4 Days)																											
a Knowledge for Database Tuning																											
b The Consideration Points of the Designing Stage																											
c Consideration Points at the Program Development																											
d Database Monitoring and Tuning																											
(5) Database System Design(4 Days)																											
a The Role of Data Analysis																											
b The Concept and Design																											
c The Logical Design																											
d The Physical Design																											
e Physical Structure																											
(6) System Development Workshop(3 Days)																											
a Database Design and Creation																											
b Database Tuning and Performance Evaluation																											
(7) Technical advice(5 Days)																											
a Instruction skill level check & advice																											

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Annex 17 Annual Technical Cooperation Program (ATCP)

— Implemented    LE Training by Long Term Expert    SE Training by Short Term Expert  
 ■ Lectures    ■ Hands on Training    ■ Workshop    □ Follow up (Q & A)

Calendar Year	1 9 9 9												2 0 0 0												2 0 0 1		
	1 9 9 9												2 0 0 0												2 0 0 0		
Japanese Fiscal Year	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3					
Group of the R.D.																											
Term of Technical Cooperation																											
(1) Advanced Networking (10 LAN Design 6 Days)																											
a Concept of LAN																											
b functions of LAN components																											
c Design of LAN																											
d Implementation of LAN																											
(2) LAN Management (4 Days)																											
a Concept of LAN management																											
b Design of LAN management																											
c Implementation of LAN management																											
(3) Data Communication Fundamentals (2 Days)																											
a Concept of data communication																											
b functions of data communication components																											
(4) WAN Design (4 Days)																											
a Concept of WAN																											
b functions of WAN components																											
c Design of WAN																											
(5) Network Management (4 Days)																											
a Concept of network management																											
b Design of network management																											
c Implementation of network management																											
(6) Networking Workshop (LAN) (4 Days)																											
a Design of LAN																											
b Design of LAN and network management																											
c Implementation of LAN and network management																											
(7) Technical Advice (5 Days)																											
a Instruction skill level check & advice																											

S.P.I.R.

Annex 17 Annual Technical Cooperation Program (ATCP)

Implemented     
  Lectures     
  Hands-on Training     
  Workshop     
  Follow-up Q & A  
 LE: Training by Long-Term Expert      SE: Training by Short-Term Expert

Calendar Year Japanese Fiscal Year	1 9 9 9									2 0 0 0						2 0 0 1						
	1 9 9 9									2 0 0 0						2 0 0 1						
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Term of Technical Cooperation	Signing of the R/D																					
1 Web Computing																						
(1) Intranet Fundamentals(2 Day)																						
a What is Intranet?																						
b Application of the Internet Technology																						
c Cooperation with the Internet																						
d Security of Intranet																						
e Necessary Matter of Intranet Paragraph Policies																						
f Outline of TCP/IP																						
g Basic and Fundamental Knowledge of the Internet																						
h Composition of TCP/IP Protocol																						
i Address System																						
j Routing																						
k Remote Management Concerning the Internet																						
(2) WWW Server Design and Implementation(UNIX) (8 Days)																						
a Basic and Fundamental Knowledge for the Internet Introduction																						
b DNS Server Construction																						
c MAIL Server Construction																						
d WWW Server Construction																						
e Proxy Server Construction																						
f Internet Security																						
(3) WWW Server Development(6 Days)																						
a Outline of CGI																						
b Base of CGI Script																						
c Perl Base																						
d Cooperation with Perl																						
e Convenient Script																						
f CGI																						
g Cooperation of CGI to Database																						
h Simple Database																						
i SQL																						
j Database Access																						
k Employee Information System																						

S.P.I.R.

Annex 17 Annual Technical Cooperation Program (ATCP)

Implemented    
  Lectures    
  Hands on Training    
  Workshop    
  Follow up (Q & A)

Calendar Year Japanese Fiscal Year	1 9 9 9												2 0 0 0						2 0 0 1		
	1 9 9 9												2 0 0 0						2 0 0 0		
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Term of Technical Cooperation	Signing of the RFD																				
(4) Programming (JAVA) (11 Days)																					
a JAVA Introduction																					
b Base of JAVA Language																					
c Object and Class1																					
d Object and Class2																					
e Exception Handling																					
f Making of Applet																					
g Basic Class																					
h Thread																					
i Construction of JAVA GUI																					
j AWT Event Model																					
k AWT Component Library																					
l File I/O																					
m Network Function to use Socket																					
n Design of JAVA Application																					
o JDBC																					
p Database Design of Three Layers																					
r Design and Plan of JAVA GUI																					
s Network Connection																					
(5) WWW Server Workshop (8 Days)																					
a Create WWW Server system																					
(9) Technical Advice (8 Days)																					
a Instruction skill level check & advice																					

S.P.I.R.

Annex 17 Annual Technical Cooperation Program (ATCP)

— Implemented — LF Training by Long-Term Expert — SF Training by Short-Term Expert  
 [Lecture] Lectures [Hands-on] Hands-on Training [Workshop] Workshop [Follow-up] Follow-up (Q & A)

Calendar Year Japanese Fiscal Year	1 9 9 9												2 0 0 0						2 0 0 1				
	1 9 9 9												2 0 0 0						2 0 0 1				
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
Form of Technical Cooperation	Signing of the R/D																						
<b>5 C/S System Analysis, Design and Management</b>																							
(1) System Development Methodology(4 Days)																							
a System development methodology																							
(2) System Analysis and Design(6 Days)																							
a System Analysis and Design																							
(3) Application System Development(6 Days)																							
a Application System development methodology																							
b Application System development																							
(4) C/S System Design and Implementation(6 Days)																							
a C/S System design and implementation																							
b C/S System supporting																							
(5) C/S System Management(3 Days)																							
a C/S System management																							
(6) System Design Workshop(4 Days)																							
a C/S System Design Workshop																							
(7) Technical Advice(5 Days)																							
a Instruction skill level check & advice																							
<b>6 Multimedia</b>																							
(1) Introduction to Multimedia(1 Day)																							
a Functions of multimedia																							
(2) Multimedia Tools(12 Days)																							
a Functions of multimedia, products																							
(3) Multimedia Title Development(10 Days)																							
a System Development methodology																							
b System Development																							
(4) Multimedia System Development Workshop(10 Days)																							
a Multimedia System Workshop																							
(5) CITT System Development(10 Days)																							
a CITT System Development methodology																							
b CITT System Development																							
(6) Technical Advice(5 Days)																							
a Instruction skill level check & advice																							

S. P. R.

Annex 18 Annual Tentative Schedule of Implementation (ATSI)

Plan \_\_\_\_\_  
 Achievements \_\_\_\_\_

Calendar Year	1999						2000													
Japanese Fiscal Year	1999						2000													
	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Term of Technical Cooperation	Signing of the P/D      Inauguration Ceremony      Opening Ceremony																			
The Japanese side																				
I Dispatch of Mission																				
(1) Implementation Study																				
II Dispatch of Long-Term Experts																				
(1) Chief Advisor																				
(2) Coordinator																				
(3) Technical Advisor																				
III Dispatch of Short-Term Experts																				
(1) C/S Operating System																				
(2) C/S Database System Development																				
(3) Advanced Networking																				
(4) Web Computing																				
(5) C/S System Analysis, Design and Management																				
(6) Multimedia																				
(7) IT Seminar (latest Trend)																				
IV Training of C/P Personnel in Japan																				
V Provision of Machinery and Equipment																				
VI Local Cost Support																				
The Jordanian side																				
I Building and Facilities																				
II Machinery and Equipment																				
III Allocation of C/P Personnel and Necessary Staff																				
IV Allocation of Budget																				

NOTE:

- 1 The Japanese fiscal year starts in April and ends in March.
- 2 This Schedule is subject to change in accordance with the Progress with the Project.
- 3 Japanese budget for JFY 2000 has not been fixed yet, both side confirmed that the input regarding JFY 2000 were regarded as the proposal and to be confirmed by the end of March 2000.

S. ALR



# Annex 19 Annual Plan of Operations (APO) for the first year of the Project

Achievement ▾  
Plan ▾

output 0 The Project operation unit is enhanced.

Calendar Year	Target	JFY 2001												Responsible person in the Project(*)	Input (**) (Person who is in charge)	Remarks
		4	5	6	7	8	9	10	11	12	1	2	3			
		Midterm Evaluation Team														
							✓	JCC								
								✓								
Term of Technical Cooperation																
0 The Project operation unit is enhanced.																
0-1 Allocate necessary personnel as planned.																
0-1-1 Make personnel allocation plan.															PD, IR	
0-1-2 Allocate personnel as planned.															PD, IR	
0-1-3 Review personnel allocation, if necessary.															PD, IR	
0-2 Make plans of activities.																
0-2-1 Make plans of activities for the Project.															CA, IR	AP, LE, AM, SC/P
0-2-2 Make plans of activities for the second year.															CA, IR	AP, LE, AM, SC/P
0-2-3 Review plans of activities, if necessary.															CA, IR	AP, LE, AM, SC/P
0-2-4 Make plans of activities for the third year.															CA, IR	AP, LE, AM, SC/P
0-3 Make budget plan and execute properly. (Jordanian side)																
0-3-1 Execute budget for JOFY 2000 as planned.															ED, IR	AM, SC/P
0-3-2 Make budget plan for JOFY 2001.															ED, IR	AM, SC/P
0-3-3 Approve budget for JOFY 2001.															ED, IR	AM, SC/P
0-3-4 Execute budget for JOFY 2001.															ED, IR	AM, SC/P
0-3-5 Make budget plan for JOFY 2002.															ED, IR	AM, SC/P
0-3-6 Approve budget for JOFY 2002.															ED, IR	AM, SC/P
0-4 Establish and operate management system.																
0-4-1 Review existing management system.															CA, IR	AP, LE, AM, SC/P
0-4-2 Make plan of management system.															CA, IR	AP, LE, AM, SC/P
0-4-3 Establish management system.															CA, IR	AP, LE, AM, SC/P
0-4-4 Operate management system.															CA, IR	AP, LE, AM, SC/P
0-4-5 Monitor and review management system, if necessary.															CA, IR	AP, LE, AM, SC/P

(\*) <Jordanian side>

PD : Project Director  
 PM : Project Manager  
 AM : Assistant Project Manager  
 SC/P : Jordanian senior C/P

<Japanese side>

CA : Chief Advisor  
 JPC : Project Coordinator  
 LE : Long-term expert  
 SE : Short-term expert

S.P.L.R.

Output 1 The necessary machinery and equipment are provided, installed, operated and maintained properly.

Calendar Year	Fiscal Year	Target	JFY 2001													Responsible person in the Project(*)	Input (**) (Person who is in charge)	Remarks	
			4	5	6	7	8	9	10	11	12	1	2	3					
			Midterm Evaluation Team																
									√	JCC									
									√	JCC									
Term of Technical Cooperation																			
1 The necessary machinery and equipment are provided, installed, operated and maintained properly.																			
1-1 Make facility refurbishment plan and implement as planned.																			
1-1-1 Make facility refurbishment plan.																PM	AM	for 2002	
1-1-2 Implement as planned.																PM	AM		
1-2 Provide and install machinery and equipment.																			
1-2-1 Identify specifications of necessary machinery and equipment.																CA, PM	JCC, LE, AM, SC/P		
1-2-2 select traders.																JICA			
1-2-3 Procure and transport the machinery and equipment to the Project site.																CA, PM	JCC, LE, AM, SC/P		
1-2-4 Install the machinery and equipment.																CA, PM	JCC, LE, AM, SC/P		
1-3 Operate and maintain machinery and equipment properly.																			
1-3-1 Make maintenance plan of the machinery and equipment.																CA, PM	JCC, LE, AM, SC/P		
1-3-2 Prepare or develop operation and maintenance system.																CA, PM	JCC, LE, AM, SC/P		
1-3-3 Operate and maintain the machinery and equipment as planned.																CA, PM	JCC, LE, AM, SC/P		

(\*) <Jordanian side>

PD : Project Director  
 PM : Project Manager  
 APM : Assistant Project Manager  
 SC/P : Jordanian senior C/P

<Japanese side>

CA : Chief Advisor  
 JPC : Project Coordinator  
 LE : Long-term expert  
 SE : Short-term expert

S.A.V.R

Output 2 Technical capability of the counterpart personnel (hereinafter referred to as "C/P") are upgraded.

Calendar Year	Fiscal Year	Target	JFY 2001													Responsible person in the Project(*)	Input (*) (Person who is in charge)	Remarks	
			4	5	6	7	8	9	10	11	12	1	2	3					
			Midterm Evaluation Team																
								√	JCC										
									√										
		Term of Technical Cooperation																	
		2 Technical capability of the counterpart personnel (hereinafter referred to as "the C/P") is upgraded.																	
		2-1 Make Technical Cooperation Program.															CA, IM	LE, SE, AM, SC/P	
		2-1-1 Evaluate technical capability of the C/P through interviews, test, factory visit and so on.															CA, IM	LE, AM, SC/P	
		2-1-2 Make Technical Cooperation Program (TCP).															CA, IM	LE, AM, SC/P	
		2-1-3 Make Annual Technical Cooperation Program (ATCP) for the second year of the Project.															CA, IM	LE, AM, SC/P	
		2-1-4 Review ATCP.															CA, IM	LE, AM, SC/P	
		2-1-5 Make ATCP for the third year of the Project.															CA, IM	LE, AM, SC/P	
		2-1-6 Review TCP, if necessary.															CA, IM	LE, AM, SC/P	
		2-2 Implement technology transfer to the C/P.															LE, AM	SC/P	
		2-2-1 Prepare teaching material.															LE, AM	SC/P	
		2-2-2 Implement technology transfer and follow-up as planned.															LE, AM	SC/P	
		2-2-3 Compile textbooks and necessary documents.															LE, AM	SC/P	
		2-3 Monitor and evaluate technology transfer to the C/P.															CA, IM	LE, AM, SC/P	Refer to 0-4-2.
		2-3-1 Make monitoring and evaluation plan.															CA, IM	LE, AM, SC/P	Refer to 0-4-3.
		2-3-2 Establish monitoring and evaluate plan.															CA, IM	LE, AM, SC/P	
		2-3-3 Monitor the result of technology transfer to the C/P.															CA, IM	LE, SE, AM, SC/P	
		2-3-4 Evaluate the result of technology transfer to the C/P.															CA, IM	LE, AM, SC/P	

(\*) <Jordanian side>

PD : Project Director  
 PM : Project Manager  
 AM : Assistant Project Manager  
 SC/P : Jordanian senior C/P

<Japanese side>

CA : Chief Advisor  
 JCC : Project Coordinator  
 LE : Long-term expert  
 SE : Short-term expert

S.P.R.

Output 3 Training courses in the field of C/S system are implemented.

Calendar Year	Target	JFY 2001												Responsible person in the Project(*)	Input (**) (Person who is in charge)	Remarks
Fiscal Year		4	5	6	7	8	9	10	11	12	1	2	3			
		Midterm Evaluation Team														
Term of Technical Cooperation								√	JCC							
									√							
3 Training courses in the field of C/S system are implemented.																
3-1 Implement needs survey for IT training courses.																
3-1-1 Grasp the needs for IT training courses.																
3-1-1-1 Make plan of computer related institute visit.																
3-1-1-2 Implement computer related institute visit.																
3-1-2 Analyse the results of the said needs survey.																
3-1-3 Make plan of computer training courses.																
3-1-4 Make outline for Computer training courses.																
3-2 Make implementation plans of training courses.																
3-2-1 Prepare schedule for training courses.																
3-2-2 Allocate necessary C/P for training courses.																
3-2-3 Prepare advertisement for training courses.																
3-2-4 Send application form to the participants.																
3-3 Prepare C/B training curriculum and teaching materials.																
3-3-1 Make plan of curriculum.																
3-3-2 Arrange and prepare the teaching materials.																
3-4 Implement monitor and evaluate training courses.																
3-4-1 Make monitoring and evaluation plan.																
3-4-2 Establish monitoring and evaluation plan.																

(\*) <Jordanian side>

PD : Project Director  
 PM : Project Manager  
 APM : Assistant Project Manager  
 SC/P : Jordanian senior C/P

<Japanese side>

CA : Chief Advisor  
 JPC : Project Coordinator  
 LE : Long-term expert  
 SE : Short-term expert

Refer to 0-4-2.  
 Refer to 0-4-3.

S.A.R

Output 4 Software development services in the field of C/S system is enhanced.

Calendar Year	Target													Responsible person in the Project(*)	Input (+) (Person who is in charge)	Remarks	
Fiscal Year		JFY 2001															
		4	5	6	7	8	9	10	11	12	1	2	3				
Term of Technical Cooperation		Midterm Evaluation Team															
							▽	JCC									
							▽										
4 Software development services in the field of C/S system is enhanced.																	
4-1 Receive and screen requests for software development.																	
4-1-1 Receive requests for software development.															CA, PM	LE, APM, SC/P	
4-1-2 Screen requests for software development.															CA, PM	LE, APM, SC/P	
4-2 Draw up development plan of requested software.																	
4-2-1 Make draw up plan of requested software.															CA, PM	LE, APM, SC/P	
4-2-2 Advise to draw up requested software.															CA, PM	LE, APM, SC/P	
4-3 Develop and deliver software to the requested client.																	
4-3-1 Develop software to the requested client.															CA, PM	LE, APM, SC/P	
4-3-2 Deliver software to the requested client.															CA, PM	LE, APM, SC/P	
4-4 Evaluate developed software.															CA, PM	LE, APM, SC/P	

(\*) <Jordanian side>

PD : Project Director  
 PM : Project Manager  
 APM: Assistant Project Manager  
 SC/P : Jordanian senior C/P

<Japanese side>

CA : Chief Advisor  
 JPC : Project Coordinator  
 LE : Long-term expert  
 SE : Short-term expert

S.P.I.R.

Annex 20 Annual Technical Cooperation Program (ATCP)

— Implemented    LE Training by Long Term Expert    SE Training by Short Term Expert  
 ■ Lectures    ■ Hands-on Training    ■ Workshop    □ Follow-up( Q & A)    ■ Review of C/P Skill

Calendar Year Japanese Fiscal Year	2 0 0 0				2 0 0 1							2 0 0 2					
	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
	Term of Technical Cooperation																
1 Advanced Networking (1) LAN Design(6 Days)				SE													
(2) LAN Management(4 Days)				SE													
(3) Data Communication Fundamentals(2 Days)				SE													
(4) WAN Design(4 Days)				SE													
(5) Network Management(4 Days)				SE													
(6) Networking Workshop(LAN)(4 Days)				SE													
(7) Technical Advice(6 Days)																	
a Lecture of WAN Design(1 Day)									SE								
b Practice of LAN and WAN(2 Days)									SE								
c Review of C/P Skills(2 Days)									SE								
d Summary(1 Day)									SE								
2 Web Computing																	
(1) Intranet Fundamentals(2 Days)																	
(2) WWW Server Design and Implementation(UNIX) (8 Days)																	
(3) WWW Server Development(6 Days)																	
(4) Programming(JAVA)(1 Days)																	
(5) WWW Server Workshop(8 Days)																	
(9) Technical Advice(5 Days)																	
a Lecture of WWW Server Design(2 Days)										SE							
b Review of C/P Skills(2 Days)										SE							
c Summary(1 Day)										SE							

S.P.I.R

Annex 20 Annual Technical Cooperation Program (ATCP)

Implemented     
 LI: Training by Long Term Expert     
 SE: Training by Short Term Expert  
 Lectures     
 Hands-on Training     
 Workshop     
 Follow-up( Q & A)     
 Review of C./P Skill

Calendar Year	2 0 0 1												2 0 0 2				
Japanese Fiscal Year	2 0 0 0			2 0 0 1									2 0 0 2				
	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Form of Technical Cooperation																	
3 Multimedia																	
(1) Introduction to Multimedia(1 Day)																	
a Functions of multimedia																	
(2) Multimedia Tools(12 Days)																	
a Functions of multimedia products																	
(3) Multimedia Title Development(10 Days)																	
a System Development methodology																	
b System Development																	
(4) Multimedia System Development Workshop(10 Days)																	
a Multimedia System Workshop																	
(5) CBT System Development(10 Days)																	
a CBT System Development methodology																	
b CBT System Development																	
(6) Technical Advice(5 Days)																	
a Instruction skill level check & advice																	
4 C/S Database System Development																	
(1) Technical Advice(3 Days)																	
a Review of C./P Skills(2 Days)																	
b Summary(1 Day)																	
5 C/S System Analysis Design and Management																	
(1) Technical Advice(5 Days)																	
a Lecture of Business Analysis(2 Days)																	
b Review of C./P Skills(2 Days)																	
c Summary(1 Day)																	
6 C/S Operating System(LAN)																	
(1) Technical Advice(5 Days)																	
a Lecture of LAN Network and Administration(1 Day)																	
b Review of C./P Skills(3 Days)																	
c Summary(1 Day)																	

S-APR

Annex 21 Annual Tentative Schedule of Implementation (ATSI)

Calendar Year	2001												2002			
Japanese Fiscal Year	2001															
	4	5	6	7	8	9	10	11	12	1	2	3				
Term of Technical Cooperation																
The Japanese side																
I Dispatch of Mission																
(1) Midterm Evaluation																
II Dispatch of Long-Term Experts																
(1) Chief Advisor																
(2) Coordinator																
(3) Technical Advisor																
III Dispatch of Short-Term Experts																
(1) Multimedia																
(2) Advanced Networking follow-up																
(3) Web Computing follow-up																
(4) C/S Database System Development follow-up																
(5) C/S System Analysis, Design and Management follow-up																
(6) C/S Operating System UNIX follow-up																
IV Training of C/P Personnel in Japan																
V Provision of Machinery and Equipment																
VI Local Cost Support																
The Jordanian side																
I Building and Facilities																
II Machinery and Equipment																
III Allocation of C/P Personnel and Necessary Staff																
IV Allocation of Budget																

NOTE:

1 The Japanese fiscal year starts in April and ends in March.

2 This Schedule is subject to change in accordance with the Progress with the Project.

3 Japanese budget for JFY 2000 has not been fixed yet, both side confirmed that the input regarding JFY 2000 were regarded as the proposal and to be confirmed by the end of March 2000.

S. AIR

*[Handwritten mark]*



Annex 22 List of JCC and other related meetings, and member list  
Joint Coordinating Committee (JCC)

1 Functions

The Joint Coordinating Committee will be held at least twice a year and whenever necessity arises.

Its functions are as follows:

- (1) To settle on the Annual Technical Cooperation Program (ATCP), the Annual Plan of Operations (APO) and Annual Tentative Schedule for Implementation (ATSI) of the Project in line with Technical Cooperation Program (TCP) and Plan of Operations (PO) and the Tentative Schedule of Implementation (TSI) formulated under the framework of the Record of Discussions;
- (2) To coordinate necessary actions to be taken by both sides;
- (3) To review the overall progress of the TCP as well as the achievement of the TCP and PO;
- (4) To exchange views on major issues arising from or in connection with the TCP and PO.

2 Composition

(1) Chairperson

President, RSS

(2) Committee Members

(Jordanian side)

a Representative(s), MOP

b Representative(s), HCST

c Representative(s), NIC

d Representative(s), CTTISC

e Representative(s), Chamber of Industry

f Representative(s), Jordan Computer Society

g Representative(s), INTAJ (Information Technology Association-Jordan)

h Other personnel concerned with the Project decided by the Jordanian side, if necessary

(Japanese side)

a Chief Advisor

b Coordinator

c Japanese Experts designated by the Chief Advisor

d Representative(s) of the JICA Office in Jordan

e Other personnel concerned to be decided and dispatched by JICA, if necessary

Note :

Official(s) of the Embassy of Japan in Jordan may attend the Committee as observer(s).

S.AIR

## List of JCC and Other Related Meeting

No.	Date	Name of the Meeting	Attendants	Institution
1	24-Jan-00	JCC	Mr. Munir Asad Mr. Esam Mustafa Mr. Farid Haddadin Ms. Abeer Al-Fawaer Mr. Ahmad Al-Sakka Mr. Masaaki Iwai Dr. Said Alloush Dr. Safeddin Muaz Dr. Saqer Abdel-Rahim Mr. Samir Qutub Mr. Nobumasa Iijima Mr. Makoto Mizuno Mr. Tetsuta Okada Observer Mrs. Ibtisam Abdel Jaber Mr. Zuhair Sleibi Mr. Khalid Abu Hilal, Mrs. Samar Mezayek, Mr. Imad Tafesh	Ministry of Planning National Information Center National Information Center Chamber of Industry Jordan Computer Society JICA Jordan Office Royal Scientific Society Royal Scientific Society CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP
2	12-Apr-00	JCC	Mr. Munir Asad Mr. Esam Mustafa Mr. Farid Haddadin Mr. Ahmad Al-Sakka Mr. Nakazawa Mr. Adel Dr. Said Alloush Dr. Saqer Abdel-Rahim Mr. Samir Qutub Mr. Nobumasa Iijima Mr. Makoto Mizuno Mr. Tetsuta Okada Observer Mrs. Ibtisam Abdel Jaber Mr. Zuhair Sleibi Mr. Khalid Abu Hilal, Mrs. Samar Mezayek,	Ministry of Planning National Information Center National Information Center Jordan Computer Society Embassy of Japan JICA Jordan Office Royal Scientific Society CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP
3	20-Nov-00	JCC	Mr. Munir Asad Mr. Esam Mustafa Mr. Farid Haddadin Mr. Masaaki Iwai Dr. Said Alloush Dr. Saqer Abdel-Rahim Mr. Samir Qutub Mr. Atef Abu Arida Mr. Nobumasa Iijima Mr. Makoto Mizuno Ms. Yuko Motoki Mr. Tetsuta Okada Observer Mrs. Ibtisam Abdel Jaber Mr. Khalid Abu Hilal, Mrs. Samar Mezayek,	Ministry of Planning National Information Center National Information Center JICA Jordan Office Royal Scientific Society CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP CTTISC ITUP

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### List of Other Related Meeting (TCM: Technical Committee Meeting)

No.	Date	Attendants		
1	19-Dec-99	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
2	21-Dec-99	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
3	04-Jan-00	Dr. Saqer Abdel-Rahim Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Makoto Mizuno	Mr. Tetsuta Okada
4	17-Jan-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
5	21-Feb-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
6	07-Mar-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
7	14-Mar-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
8	27-Mar-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
9	04-Apr-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
10	08-May-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
11	19-Jun-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
12	27-Jun-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
13	23-Jul-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi	Mr. Samir Qutub Mrs. Sirin Hasan	Mrs. Ibtisam Abdel Jaber Mr. Tetsuta Okada
14	15-Aug-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Toyoki Hanagata	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Sirin Hasan Mr. Tetsuta Okada
15	19-Jun-00	Dr. Saqer Abdel-Rahim Mr. Khalid Abu Hilal Mr. Nobumasa Iijima	Mr. Samir Qutub Mrs. Sirin Hasan Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mr. Masaru Nakagaki Mr. Tetsuta Okada

List of Other Related Meeting (TCM: Technical Committee Meeting)

No.	Date	Attendants		
16	11-Sep-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Nobumasa Iijima	Mr. Samir Qutub Mrs. Sirin Hasan Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mr. Masaru Nakagaki Mr. Tetsuta Okada
17	02-Oct-00	Dr. Saqer Abdel-Rahim Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mrs. Samar Mezayek Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber
18	23-Oct-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
19	09-Nov-00	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Atef Abu Arida Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Ms. Yuko Yamada Mr. Tetsuta Okada
20	09-Jan-01	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Atef Abu Arida Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
21	22-Feb-01	Dr. Saqer Abdel-Rahim Mr. Khalid Abu Hilal Mr. Nobumasa Iijima	Mr. Samir Qutub Mrs. Samar Mezayek Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mr. Takanori Ebihara Mr. Tetsuta Okada
22	14-Mar-01	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
23	21-Mar-01	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Tetsuta Okada
24	11-Apr-01	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Mr. Yoshiya Yamada Mr. Tetsuta Okada
25	02-May-01	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek
26	29-May-01	Dr. Saqer Abdel-Rahim Mr. Zuhair Sleibi Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Ibtisam Abdel Jaber Mrs. Samar Mezayek Ms. Keiko Chida
27	05-Sep-01	Dr. Saqer Abdel-Rahim Mrs. Sirin Hasan Mr. Nobumasa Iijima	Mr. Samir Qutub Mr. Khalid Abu Hilal Mr. Makoto Mizuno	Mrs. Samar Mezayek Ms. Tetsuta Okada
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Annex 23

Management Record of Machinery and Equipment

NT Training Room (equipment price between Yen 100,000 and Yen 1,600,000)

No.	Date of Agreement	equipment information				Date Completion of Commissioning	Management condition by CTTISC			
		Produced Co.Ltd.	Specification	Qty.	Price(JD)		Present condition	Level of used frequency, Evaluation by user	Possibility of providing spare parts and skill of maintenance	Problem if any
1	16-Nov-99	Compaq	Compaq Deskpro EP Pentium III 500 MHz Processor with 15inch Compaq Flat Panel LCD TFT 5000S Color Monitor	17	1,825.00	30-Mar-00	good	good	Possible	
2	16-Nov-99	Compaq	128 MB, SDRAM, 100MHz, ECC PC Memory	17	141.00	09-Mar-00	good	good	Possible	
3	16-Nov-99	Compaq	8.4 GB IDE Hard Disk	17	100.00	09-Mar-00	good	good	Possible	
4	16-Nov-99	Compaq	SCSI Card + SCSI Cable + Terminator	2	222.00	09-Mar-00	good	good	Possible	
5	16-Nov-99	Compaq	4.5 GB SCSI Hard Disk	2	360.00	09-Mar-00	good	good	Possible	
6	16-Nov-99	Compaq	Compaq internal 4x/2x/24x IDE CD-RW	2	260.00	09-Mar-00	good	good	Possible	
7	16-Nov-99	Microsoft	Windows NT 4.0 Workstation Arabic CD	17	252.00	09-Mar-00	good	good	Possible	
8	16-Nov-99	Compaq	Compaq Proliant 800 model 6/550 Server	1	1,980.00	09-Mar-00	good	good	Possible	
9	16-Nov-99	Microsoft	MS Windows NT 4.0 Server CD with (5) users licenses	1	268.00	09-Mar-00	good	good	Possible	
10	16-Nov-99	Compaq	256 MB, SDRAM, 100 MHz, ECC DIMM NT Server memory	1	635.00	09-Mar-00	good	good	Possible	
11	16-Nov-99	Compaq	17inch Compaq Color Monitor	1	248.00	09-Mar-00	good	good	Possible	
12	16-Nov-99	Compaq	9.1 GB Wide Ultra-2 SCSI Hard Drive	1	340.00	09-Mar-00	good	good	Possible	
13	16-Nov-99	Compaq	Dual channel Wide Ultra-2 SCSI card + Wide Ultra-2 SCSI Cable + Terminator	1	286.00	09-Mar-00	good	good	Possible	
14	16-Nov-99	Compaq	4.5 GB SCSI Hard Disk	1	360.00	09-Mar-00	good	good	Possible	
15	16-Nov-99	Compaq	Compaq Proliant 800 model 6/550 Server	4	1,980.00	09-Mar-00	good	good	Possible	
16	16-Nov-99	Microsoft	MS Windows NT 4.0 Server CD with (5) users licenses	4	268.00	09-Mar-00	good	good	Possible	
17	16-Nov-99	Compaq	256 MB, SDRAM, 100 MHz, ECC DIMM NT Server memory	4	635.00	09-Mar-00	good	good	Possible	
18	16-Nov-99	Compaq	17inch Compaq Color Monitor	4	248.00	09-Mar-00	good	good	Possible	
19	16-Nov-99	Compaq	9.1 GB Wide Ultra-2 SCSI Hard Drive	4	340.00	09-Mar-00	good	good	Possible	
20	16-Nov-99	Compaq	Dual channel Wide Ultra-2 SCSI card + Wide Ultra-2 SCSI Cable + Terminator	4	286.00	09-Mar-00	good	good	Possible	
21	16-Nov-99	Compaq	4.5 GB Ultra Wide SCSI Hard Disk	4	360.00	09-Mar-00	good	good	Possible	

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NT Training Room (equipment price between Yen 100,000 and Yen 1,600,000)

No.	Date of Agreement	equipment information				Date	Management condition by CTTISC			
		Produced Co.Ltd.	Specification	Qty.	Price(JD)		Completion of Commissioning	Present condition	Level of used frequency, Evaluation by user	Possibility of providing spare parts and skill of maintenance
22	16-Nov-99	HP	HP DeskJet 1120C Color Page Printer with cable and card	3	420.00	09-Mar-00	good	good	Possible	
23	16-Nov-99	HP	HP LaserJet 8100 DN A3/A4 Duplex Printer with Cable and Card	1	3,285.00	09-Mar-00	good	good	Possible	
24	16-Nov-99	Oracle	Oracle8I workgroup standard for NT Database Server (5) users	5	695.00	09-Mar-00	good	good	Possible	
25	16-Nov-99	Oracle	Oracle8I Personal Edition	17	147.00	09-Mar-00	good	good	Possible	
26	16-Nov-99	Oracle	Oracle SQL *Plus	17	176.00	09-Mar-00	good	good	Possible	
27	16-Nov-99	Oracle	Oracle SQL *Net	17	included	09-Mar-00	good	good	Possible	
28	15-Feb-00	Oracle	Oracle Intermedia/UNIX Context, 30 users for (6) Servers	1	5,550.00	30-Mar-00	good	good	Possible	
29	16-Nov-99	Borland	Delphi 5 Enterprise Edition (2 packages with 11 user licenses each, total of 22) with Arabic Support	22	2,400.00	09-Mar-00	good	good	Possible	
30	16-Nov-99	Sunmicro system	JAVA JDK (To be downloaded from Internet)	17	no charge	09-Mar-00	good	good	Possible	
31	16-Nov-99	HP	HP ScanJet 6300C Color Scanner	2	510.00	09-Mar-00	good	good	Possible	
32	16-Nov-99	Epson	Epson Photo PC 750Z Digital Camera	5	620.00	09-Mar-00	good	good	Possible	
33	16-Nov-99	Dazzle	Video Capture Card	5	included	09-Mar-00	good	good	Possible	
34	16-Nov-99	Auto Disk	Auto Disk 3D Studio Max R3, 15 User Pack	1	5,650.00	09-Mar-00	good	good	Possible	
35	16-Nov-99	Auto Disk	Auto Disk Individual License	2	465.00	09-Mar-00	good	good	Possible	
36	16-Nov-99	Macromedia	Macromedia Director Multimedia Studio 7 10 User License Pack.	2	4,800.00	09-Mar-00	good	good	Possible	
37	16-Nov-99	Goldwave	Shareware Goldwave V 4.02	—	no charge	09-Mar-00	good	good	Possible	
38	16-Nov-99	Adobe	Adobe PhotoShop V 5ME, Arabic Single user license	17	705.00	09-Mar-00	good	good	Possible	
39	16-Nov-99	Metacreations	Metacreations Infini-D V 4.5 10 users license Pack	2	2,560.00	09-Mar-00	good	good	Possible	
40	16-Nov-99	Metacreations	Metacreations Bryce 3D 4, Single user	17	115.00	09-Mar-00	good	good	Possible	
41	16-Nov-99	Adobe	Adobe Premier V 5.1, 10 user license Pack.	2	800.00	09-Mar-00	good	good	Possible	
42	16-Nov-99	Astound	Multimedia SDK Astound Dynamite V1.1	9	450.00	09-Mar-00	good	good	Possible	
43	16-Nov-99	Microsoft	MSDN Library	8	included	09-Mar-00	good	good	Possible	

NT Training Room (equipment price between Yen 100,000 and Yen 1,600,000)

No.	Date of Agreement	equipment information				Date	Management condition by CTTISC			
		Produced Co.Ltd.	Specification	Qty.	Price(JD)		Completion of Commissioning	Present condition	Level of used frequency, Evaluation by user	Possibility of providing spare parts and skill of maintenance
44	16-Nov-99	Microsoft	Plus MSDN Professional	5	included	09-Mar-00	good	good	Possible	
45	16-Nov-99	Adobe	Adobe Illustrator V 8.0, 10 user license Pack	2	600.00	09-Mar-00	good	good	Possible	
46	16-Nov-99	ELMO	ELMO EDP-6200 Multimedia Projector	1	4,000.00	09-Mar-00	good	good	Possible	
47	16-Nov-99	ELMO	ELMO EV-8500AF OHP	1	6,950.00	09-Mar-00	good	good	Possible	
48	16-Nov-99	Canon	Canon CD-4046 Digital Document Reader with OCR Software	1	6,700.00	09-Mar-00	good	good	Possible	
49	16-Nov-99	Cisco	Cisco 1601 Access Router with 8-port External Hub	3	1,000.00	09-Mar-00	good	good	Possible	
50	16-Nov-99	Cisco	IP/IPX Feature Pack	3	120.00	09-Mar-00	good	good	Possible	
51	16-Nov-99	CCS	Wan cable X.21	3	60.00	09-Mar-00	good	good	Possible	
52	16-Nov-99	CCS	AUI/BNC Transceiver	6	36.00	09-Mar-00	good	good	Possible	
53	16-Nov-99	CCS	Thinwire (10Base-2) T-connector	6	1.50	09-Mar-00	good	good	Possible	
54	16-Nov-99	CCS	5 Meter 10Base-T Patch Cable	6	5.00	09-Mar-00	good	good	Possible	
55	16-Nov-99	CCS	5 Meter 10Base-2 Segment Cable	2	9.00	09-Mar-00	good	good	Possible	
56	16-Nov-99	CCS	5 Meter AUI Cable	2	40.00	09-Mar-00	good	good	Possible	
57	16-Nov-99	CCS	Thinwire (10Base-2) 50 ohm Terminator	6	1.50	09-Mar-00	good	good	Possible	
58	16-Nov-99	3Com	3Com SuperStack II Switch 3300, 12 ports	3	467.00	09-Mar-00	good	good	Possible	
59	16-Nov-99	CCS	10BaseT twisted pair UTP Cable (Stranded) 20m long	27	10.00	09-Mar-00	good	good	Possible	
60	15-Feb-00	Cisco	CISCO 3640 Modular Router with (8) ports	1	9,450.00	30-Mar-00	good	good	Possible	

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UNIX Training Room (equipment price between Yen 100,000 and Yen 1,600,000)

No.	Date of Agreement	equipment information				Date Completion of Commissioning	Management condition by CTTISC			
		Produced Co.Ltd.	Specification	Qty.	Price(JD)		Present condition	Level of used frequency. Evaluation by user	Possibility of providing spare parts and skill of maintenance	Problem if any
61	16-Nov-99	Xerox	Page Printer (Laser) with Duplex	1	2,145.00	30-Mar-00	good	good	Possible	
62	16-Nov-99	Xerox	Printer cable	1	included	09-Mar-00	good	good	Possible	
63	16-Nov-99	Xerox	Printer card	1	included	09-Mar-00	good	good	Possible	
64	16-Nov-99	Xerox	Page Printer (Laser) with Duplex	4	2,145.00	09-Mar-00	good	good	Possible	
65	16-Nov-99	Xerox	Printer cable	4	included	09-Mar-00	good	good	Possible	
66	16-Nov-99	Xerox	Printer card(integrated)	4	included	09-Mar-00	good	good	Possible	
67	16-Nov-99	Dell	Desktop PC (for trainer trainee)Dell Optiplex GX1 with 15inch LCD	25	1,695.00	09-Mar-00	good	good	Possible	
68	16-Nov-99	Dell	PC Memory ECC RAM	25	125.00	09-Mar-00	good	good	Possible	
69	16-Nov-99	Dell	Internal HD	25	150.00	09-Mar-00	good	good	Possible	
70	16-Nov-99	Dell	SCSI Card	2	90.00	09-Mar-00	good	good	Possible	
71	16-Nov-99	Dell	SCSI Cable	2	10.00	09-Mar-00	good	good	Possible	
72	16-Nov-99	Dell	Extra Hard Disk	2	475.00	09-Mar-00	good	good	Possible	
73	16-Nov-99	Dell	Terminator	2	10.00	09-Mar-00	good	good	Possible	
74	16-Nov-99	Dell	CD Rw	2	160.00	09-Mar-00	good	good	Possible	
75	16-Nov-99	Microsoft	Windows NT	4	50.00	09-Mar-00	good	good	Possible	
76	16-Nov-99	Dell	NT Server (For Training)Dell PowerEdge 1300/550	1	2,100.00	09-Mar-00	good	good	Possible	
77	16-Nov-99	Dell	NT Server Memory ECC RAM	1	360.00	09-Mar-00	good	good	Possible	
78	16-Nov-99	Dell	Monitor	1	225.00	09-Mar-00	good	good	Possible	
79	16-Nov-99	Dell	Internal Hard Disk	1	150.00	09-Mar-00	good	good	Possible	
80	16-Nov-99	Dell	SCSI Card	1	90.00	09-Mar-00	good	good	Possible	
81	16-Nov-99	Dell	SCSI Cable	1	10.00	09-Mar-00	good	good	Possible	
82	16-Nov-99	Dell	Extra Hard Disk 9.1 GB SCSI HD	1	475.00	09-Mar-00	good	good	Possible	

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UNIX Training Room (equipment price between Yen 100,000 and Yen 1,600,000)

No.	Date of Agreement	equipment information				Date	Management condition by CTTISC			
		Produced Co.Ltd.	Specification	Qty.	Price(JD)	Completion of Commissioning	Present condition	Level of used frequency. Evaluation by user	Possibility of providing spare parts and skill of maintenance	Problem if any
83	16-Nov-99	Dell	Terminator	1	10.00	09-Mar-00	good	good	Possible	
84	16-Nov-99	HP	Color Page Printer: HP LaserJet 8500	1	5,650.00	09-Mar-00	good	good	Possible	
85	16-Nov-99	HP	Printer cable	1	included	09-Mar-00	good	good	Possible	
86	16-Nov-99	HP	Printer card	1	included	09-Mar-00	good	good	Possible	
87	16-Nov-99	Oracle	Oracle 8 (UNIX Server) Workgroup	6	722.00	30-Mar-00	good	good	Possible	
88	16-Nov-99	Oracle	Oracle 8 (NT Server) Workgroup	1	722.00	09-Mar-00	good	good	Possible	
89	16-Nov-99	Oracle	Oracle8 (PC) License	25	included	09-Mar-00	good	good	Possible	
90	16-Nov-99	Oracle	Oracle Developer 2000 R6.0	21	2,929.00	09-Mar-00	good	good	Possible	
91	16-Nov-99	Oracle	Oracle Designer 2000	8	2,929.00	09-Mar-00	good	good	Possible	
92	16-Nov-99	Oracle	SQL*Plus (PC Client)	25	included	09-Mar-00	good	good	Possible	
93	16-Nov-99	Oracle	SQL*Net (PC Client)	25	included	09-Mar-00	good	good	Possible	
94	16-Nov-99	Oracle	Paper Back Documentation	1	1,300.00	09-Mar-00	good	good	Possible	
95	16-Nov-99	Microsoft	Visual Basic 1 Lic w/media + 20 Lic	1	895.00	09-Mar-00	good	good	Possible	
				20	750.00	09-Mar-00	good	good	Possible	
96	16-Nov-99	Oracle	Oracle Web Server (UNIX) named as Oracle Application Server Standard Edition	5	333.00	09-Mar-00	good	good	Possible	
97	16-Nov-99	Sun	-Visual Workshop C++	1	2,800.00	09-Mar-00	good	good	Possible	
		Sun	-Workshop University Edition 25 user license	1	6,750.00	09-Mar-00	good	good	Possible	
98	16-Nov-99	Microsoft	MS C++ V6.0 1 Lic w/media + 20 Lic.	1	895.00	09-Mar-00	good	good	Possible	
				20	750.00	09-Mar-00	good	good	Possible	
99	16-Nov-99	Borland	Delphi 5 Enterprise	4	1,350.00	09-Mar-00	good	good	Possible	
100	16-Nov-99	Sun	JAVA JDK	-	no charge	09-Mar-00	good	good	Possible	
101	16-Nov-99	Epson	Image Scanner	2	700.00	09-Mar-00	good	good	Possible	

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UNIX Training Room (equipment price between Yen 100,000 and Yen 1,600,000)

No.	Date of Agreement	equipment information				Date	Management condition by CTISC			
		Produced Co.Ltd.	Specification	Qty.	Price(JD)	Completion of Commissioning	Present condition	Level of used frequency. Evaluation by user	Possibility of providing spare parts and skill of maintenance	Problem if any
102	16-Nov-99	Auto Disk	Auto Disk 3D MAX 3	4	2,450.00	09-Mar-00	good	good	Possible	
103	16-Nov-99	Macro Media	Macromedia Director Internet Studio	4	735.00	09-Mar-00	good	good	Possible	
104	16-Nov-99	Goldwave	Share ware Goldwave	4	no charge	09-Mar-00	good	good	Possible	
105	16-Nov-99	Adobe	Photoshop Adobe V 5 Arabic Single user license	4	705.00	09-Mar-00	good	good	Possible	
106	16-Nov-99	Meta Creation	Infini-D Meta creation	4	390.00	09-Mar-00	good	good	Possible	
107	16-Nov-99	Meta Creation	Bryce 3D Meta Creations	4	145.00	09-Mar-00	good	good	Possible	
108	16-Nov-99	Adobe	Premire (ADOBE)	4	445.00	09-Mar-00	good	good	Possible	
109	16-Nov-99	Microsoft	Microsoft MSDN professional edition	1	1,800.00	09-Mar-00	good	good	Possible	
110	16-Nov-99	Adobe	Illustrator	4	298.00	09-Mar-00	good	good	Possible	
111	16-Nov-99	Elmo	Multimedia Projector ELMO EDP5100	2	4,000.00	09-Mar-00	good	good	Possible	
112	16-Nov-99	Elmo	OHP ELMO EV8500	2	6,950.00	09-Mar-00	good	good	Possible	
113	16-Nov-99	Canon	Document Reader Canon CD-4046	2	6,700.00	09-Mar-00	good	good	Possible	
114	16-Nov-99	Nortel	Switching Hub BayStack 350-24T	2	1,490.00	09-Mar-00	good	good	Possible	
115	16-Nov-99	Nortel	Switching Hub BayStack 350-12T	2	1,190.00	09-Mar-00	good	good	Possible	
116	16-Nov-99	STS	Twisted Pair cable	750	0.50	09-Mar-00	good	good	Possible	
117	21-Mar-00	HP	Laser Jet 8000	1	2,600.00	30-Mar-00	good	good	Possible	

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Management Record of Machinery and Equipment  
 Training Room (equipment price over Yen 1,600,000)

No.	Date of Agreement	Produced Co.Ltd.	equipment information		Date		Management condition by CTTISC			
			Specification	Qty.	Price(JD)	Completion of Commissioning	Present condition	Level of used frequency, Evaluation by user	Possibility of providing spare parts and skill of maintenance	Problem if any
1	16-Nov-99	Sun	Sun Ultra Enterprise E450	5	20,750.00	14-Mar-00	good	good	possible	
			1-2 Unix Server Memory	5	1,300.00	14-Mar-00	good	good	possible	
			1-3 Monitor	5	1,260.00	14-Mar-00	good	good	possible	
			1-4 9.1GB Internal HD	5	930.00	14-Mar-00	good	good	possible	
			1-5 Internal DAT Recorder	10	950.00	14-Mar-00	good	good	possible	
			1-6 CMT	5	750.00	14-Mar-00	good	good	possible	
			1-7 Tape Recorder	5	1,350.00	14-Mar-00	good	good	possible	
			1-8 SCSI Card & Cable & terminator	15	525.00	14-Mar-00	good	good	possible	
			1-9 RSS Cable	5	50.00	14-Mar-00	good	good	possible	
			1-10 Interface Board (converter box)	5	50.00	14-Mar-00	good	good	possible	
			1-11 Solaris 7	5	included	14-Mar-00	good	good	possible	
2	16-Nov-99	Sun	Sun Ultra Enterprise E450	1	20,750.00	14-Mar-00	good	good	possible	
			1-2 Unix Server Memory	1	1,300.00	14-Mar-00	good	good	possible	
			1-3 Monitor	1	1,260.00	14-Mar-00	good	good	possible	
			1-4 9.1GB Internal HD	1	930.00	14-Mar-00	good	good	possible	
			1-5 Internal DAT Recorder	2	950.00	14-Mar-00	good	good	possible	
			1-6 CMT	1	750.00	14-Mar-00	good	good	possible	
			1-7 Tape Recorder	1	1,350.00	14-Mar-00	good	good	possible	
			1-8 SCSI Card & Cable & terminator	3	525.00	14-Mar-00	good	good	possible	
			1-9 RSS Cable	1	50.00	14-Mar-00	good	good	possible	
			1-10 Interface Board (converter box)	1	50.00	14-Mar-00	good	good	possible	
			1-11 Solaris 7	1	included	14-Mar-00	good	good	possible	
3	29-Mar-01		Oracle 8i Enterprise Edition (UNIX Server)	1	45,000	29-Apr-01	good	good	possible	
			Oracle 8i Enterprise Edition (NT Server)	1		29-Apr-01	good	good	possible	
			Oracle Internet Development Suite	1		29-Apr-01	good	good	possible	

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Annex 24 List of Manuals and Textbooks Provided by the Japanese Side

Technology Transfer Items	Material	remarks
<b>A. C/S Operating System (21 Days)</b>		
1. C/S System Concept(1 Day)	•Introduction to Client/Server Architecture	Fujitsu
2. PC Client Administration(2 Days)	•Sams Teach Yourself MCSE Windows 98 in 14 Days	Book
3. PC Server Administration(10 Days)	•Sams Teach Yourself MCSE Windows NT Workstation 4 in 14 Days •Administering Windows NT	Book Fujitsu
4. UNIX Server Administration(5 Days)	•Solaris 2.6 Administrator Certification Training Guide,Part1 •Unix Shell Programming	Book Book
5. Course Curriculum Development(3 Days)	•Course Curriculum Development	Fujitsu
<b>B. C/S Database System Development (23 Days)</b>		
1. Database System Definition and Administration(4 Days)	•Oracle Database Functions and Structure	Fujitsu
2. Database Backup and Recovery(3 Days)	•Oracle Database Backup and Recovery	Fujitsu
3. Database System Programming(3 Days)	•Oracle Database PL/SQL Programming	Fujitsu
4. Database System Performance and Tuning(4 Days)	•Oracle Database Performance Tuning	Fujitsu
5. Database System Design(4 Days)	• Database System Design	Fujitsu
6. System Development Workshop (5 Days)	•Library System	Fujitsu
<b>C. Advanced Networking (24 Days)</b>		
1. Data Communication Fundamentals(2 Days)	•Data Communication System Introduction	IICA OIC
2. LAN Design(6 Days)	•LAN Design Introduction	IICA OIC
3. LAN Management (6 Days)	•Network Management	IICA OIC
4. WAN Design(6 Days)	•WAN Design Introduction	IICA OIC
5. Network Management(1 Day)	•Network Management	IICA OIC
6. Networking Workshop(LAN)(3 Days)	•Office Network System	Fujitsu
<b>D. Web Computing (35 Days)</b>		
1. Intranet Fundamentals(2 Days)	•Outline of Intranet •Internet Protocol(TCP/P)	Fujitsu Fujitsu
2. WWW Server Design and Implementation(8 Days)	•Internet Implementation(UNIX Server)	Fujitsu
3. WWW Server Development (6 Days)	•Perl CGI Programming(Basic) •Perl CGI Programming(Database Access)	Fujitsu Fujitsu
4. JAVA Programming (11Days)	•Java Programming Language •Java Programming Language Workshop	Sun microsystems Sun microsystems
5. WWW Server Workshop(8 Days)	•Master of Employee Maintenance System	Fujitsu
<b>E. C/S System Analysis, Design, Management (29 Days)</b>		
1. System Development Methodology(4 Days)	•Introduction to SDEM90	Fujitsu
2. System Analysis and Design(6 Days)	•Structured Analysis/Design I, II	IICA OIC
3. Application System Development(6 Days)	•Business Analysis	IICA OIC
4. C/S System Design and Implementation(6 Days)	•Design a Client/Server System •Implementation of a Client/Server System	Fujitsu Fujitsu
5. C/S System Management(3 Days)	•Supporting a Client/Server System	Fujitsu
6. System Design Workshop(4 Days)	•Client/Server System Design	Fujitsu
<b>F. Multimedia (43 Days)</b>		
1. Introduction to Multimedia(1 Day)	•Multimedia Introduction	CICC
2. Multimedia Tools(12 Days)	•Multimedia Tool	CICC
3. Multimedia Title Development(10 Days)	•Multimedia Title Development	CICC
4. Multimedia System Development Workshop(10 Days)	•Multimedia Contents Development	CICC
5. CBT System Development(10 Days)	•CBT System Development	Fujitsu

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## Annex 25

### Results of Monitoring and Evaluation for Each Technology Transfer Item

#### 1. Summary of Technology Transfer

Field of Technology Transfer	Own evaluation by C/P			Evaluation of C/P by SE
	Before TT	After TT	Improvement rate	
C/S Operating System	1.94	3.26	1.32	3.33
C/S Database System	3.08	4.72	1.64	4.37
C/S Analysis, Design	3.01	4.10	1.09	3.99
Web Computing	2.30	4.12	1.82	4.13
Advanced Networking	1.90	3.74	1.84	3.74
Multimedia	1.88	4.28	2.39	4.11

Note: Levels

5 (Excellent) : Know functions and operations in depth and be able to explain to others

4 (Good) : Know functions and operations well to use without help

3 (Fair) : Know functions and operations, but needs consulting manuals

2 (Poor) : Have heard of some functions and operations, but needs help of expert

1 (No Experience) : Have heard of some words, but no experience or have no idea about the terminology

#### 2. Attachment

- C/P Technical Skills Monitoring Sheet of each Technology Transfer

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Annex 26 List of Training Courses and its participants

**Royal Scientific Society  
CTTISC**

**Advanced Training Division  
2000**

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Courses conducted during the period 1/1/2000- 31/12/2000.

**1- Long term training courses**

1.1 System Engineering (Third Country Training Programme )TCTP

<b>Duration</b>	<b>Total Hours</b>	<b>Participants</b>	<b>Notes</b>	<b>Income JD</b>
28/3 – 26/7/2000	385	16	10 Countries	10,620.00
1/8 - 23/11/2000	380	15	12 Organizations	9,000
Total	765	31		19,620.00

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## 2- Short Term Training Courses

1/1/2000 – 31/12/2000

No	Courses Title	Duration	Hours	Parti cipants	Income JD
1	Visual Basic	16/4-1/5/2000	40	9	1,620
2	Computer Network Architecture	13/8-24/8/2000	30	13	900
3	Java Programming	27/8-7/9/2000	30	19	1,200
4	C Programming	10/9-21/9/2000	30	16	800
5	Java Script, Building Interactive Web Sites	3/9-25/9/2000	50	14	700
6	Networking	24/9-28/9/2000	30	16	800
7	Java for Web Application Development	26/9-16/10/2000	45	10	750
8	Introduction to Software Engineering	25/10-23/11/2000	65	14	900
9	Using Internet	5/11-9/11/2000	15	16	800
10	Using Computer in Managerial Skills	5/11-23/11/2000	45	13	750
11	Using Internet	19/11-23/11/2000	15	14	450
12	Using Computer in Developing Managerial Skills	10/12-21/12/2000	30	16	800
	Total		425	170	10,470

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### 3- Video Conferencing

12 conferencing sessions took place, each sessions consisting 15 participants. The participant came from High School

August – November

Each session is approximately 1 hour.

#### Notes:

Charges only for the telephone bill via HCST

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#### 4- Summer Training (PSUCT)

- 12 Students 1/9 – 30/9/2000 Computer Science . No charge
- 2 Students 1/7 – 1/9/2000 Electronic Engineering. No charge

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# Royal Scientific Society CTTISC

## Advanced Training Division 2001

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Courses conducted during the period 1/1/2001- 31/8/2001.

### 1- Long term training courses

#### 1.1 Software Engineering Using Unix

Duration	Total Hours	Participants	Notes	Income JD
4/2 -10/5/2001	180	19	13 Organization	10,200

#### 1.2 Software Engineering Using Windows NT

Duration	Total Hours	Participants	Notes	Income JD
29/4 – 26/7/2001	180	19	16 Organization	9,600

#### 1.3 System Engineering (Third Country Training Programme) TCTP

Duration	Total Hours	Participants	Notes	Income JD
18/3 – 17/7/2001	385	16	8 Countries	10,266

#### 1.4 Advanced Networking

Duration	Total Hours	Participants	Notes	Income JD
8/7 – 9/8/2001	75	24	19 Organization	7,000

#### 1.5 Web Computing

Duration	Total Hours	Participants	Notes	Income JD
5/8 – 1/11/2001	200	21	12 Organization	10,800

Total	1020	99		47,866
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## 2- Short Term Courses

1/1/2001 – 31/7/2001

No	Courses Title	Duration	Hours	Partic ipants	Income JD
1	Windows NT Fund & Administration	18/2– 26/2/2001	21	21	1,080
2	Using Computer in Developing Managerial Skills	18/2 – 1/3/2001	30	16	840
3	Unix Fundamentals	1/4- 5/4/2001	15	8	480
4	Training of Trainer	1/4-5/4/2001	30	9	560
5	Unix Fundamentals & Administration	1/4 – 12/4/2001	25	16	1,800
6	PC Maintenance	8/4-12/4/2001	15	3	155
7	Designing & Programming Using HTML	22/4 –26/4/2001	15	9	750
8	Unix Fundamentals & Administration	22/4– 8/5/2001	30	14	300
9	Programming Using Oracle	29/4-10/5/2001	30	11	825
10	Training of Trainers	13/5 –17/5/2001	30	9	675
	Total		241	107	7,465.00

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3- Summer Training

- 6 Students 1/7 – 1/9/200 Computer Science (JUST)
- 3 Students 17/6 – 30/6/2001 Illinois University (Computer Science).
- 4 Students Electronic Engineering (PSUCT)
- 16 Students Computer Science

\* Income

None

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## Annex 27 List of client and software development services

Condition    In process=Developing Software

Follow-up=The warranty period

Finished=Completed follow-up period

Maintenance =With maintenance agreement

No.	Client	System	Date of agreement	Period/ month	Price	Product	Condition	Note
1	Civil Registration and Passports Department	MIS and Family Information database	Jun.94	12	48000	Oracle	Finished	
2	Water Authority	Stores	Nov.94	8	8000	Oracle	Finished	
3	Upper and Lower Houses of Parliament	MIS	Jan.95	8	12000	Oracle	Finished	
4	Civil Service Consumer Corporation	MIS	Jun.95	12	20000	Oracle	Finished	
5	Ministry of Agriculture	MIS	Mar.96	12	12000	Oracle	Finished	
6	Ministry of Transport	MIS and Transportation system	Jul.96	18	20000	Oracle	Finished	
7	Ministry of Finance (Including follow-up )	Families Support System	Oct.96	36	175000	Oracle	Finished	
8	Upper and Lower Houses of Parliament	MIS	Jan.97	12	15% of the cost above	Oracle	Maintenance	
9	RSS System Computerisation (new)	MIS and Library System	Mar.98	20	0	Oracle	Follow-up	
10	Prime Ministry	MIS	Aug.98	3	6000	Oracle	Finished	
11	Industry Cities Corporation	MIS	Aug.98	10	18000	Oracle	Follow-up	
12	Ministry of Interior	MIS	Nov.98	24	30000	Oracle	Follow-up	
13	Ministry of Agriculture	Software Maintenance (Renewed Automatically)	Jan.99	12	1800	Oracle	Finished	
14	Work and Employment Fund	MIS and Fund system	Jan.99	12	30000	Oracle	Follow-up	
15	Ministry of Social Development	MIS	Apr.99	12	30000	Oracle	Follow-up	
16	Water Authority	Accounting system	Apr.99	9	8000	Oracle	Finished	
17	Registry of Legislation/Prime Ministry	Web based	May.99	8	24000	Web(Oracle)	Follow-up	
18	Chief Justice Department	MIS	Jun.99	4	8000	Oracle	Finished	
19	Ministry of Water and Irrigation/Water Authority	Transportation and vehicle maintenance system	Sep.99	9	9990	Oracle	Follow-up	
20	Jordan job Opportunity Bureau	Follow-up opportunity application, MIS	Sep.99	12	9900	Oracle	Follow-up	
21	EU	Textile Application of High Performance Computing in	Nov.99	18	34000	Visual C++	Finished	
22	IBM	WAP Application	Feb.00	12	Monthly Workload	Visual age, Websphere Appl.,	Finished	
23	IBM	Palm Applications	Feb.00	12	Monthly Workload	Visual age, Websphere Appl.,	Finished	

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No.	Client	System	Date of agreement	Period/month	Price	Product	Condition	Note
24	Ministry of Public Works and Housing	MIS	Apr.00	14	21 000	Oracle	Follow-up	
25	Registration at PSUCT(new)	Student Registration	May.00	6	0	Oracle	Follow-up	
26	Al-Bashir Hospital	MIS	Aug.00	14	20 000	Oracle	In process	
27	Ministry of Post and Telecommunications	MIS	Sep.00	8	19 000	Oracle	Follow-up	
28	Civil Registration and Passports Department	MIS and Family Information database	Jan.01	12	7 500	Oracle	Maintenance	
29	Civil Service Consumer Corporation	MIS	Jan.01	12	7 500	Oracle	Maintenance	
30	Prince Al-Hasan Award System	Trainer and Participants Award System	Feb.01	6	0	Oracle	Follow-up	
31	Income Tax Department	MIS and Tax system and Data Conversion	Feb.01	6	25 000	Oracle	In process	
32	IBM	Web Application (Servlets, JSP, Jscript, Applets,	Apr.01	36	Monthly Workload	Visual age, Websphere Appl.,	In process	
33	IBM	E-Commerce Application	Apr.01	3	Monthly Workload	Visual age, Websphere Appl., Server, Universal, Database DB2, Lotus Domino, Rational Rose,	Finished	
34	IBM	Database Applications	Apr.01	36	Monthly Workload	Visual age, Websphere Appl., Server, Universal, Database DB2, Lotus Domino, Rational Rose; Oracle 8x & Developer 2000	In process	
35	Ministry of Foreign Affairs	MIS	May.01	6	7 000	Oracle	In process	
36	UNL	Universal Networking Language Project	May.01	12		Visual age, Websphere Appl., Server, Universal, Database DB2, Lotus Domino, Rational Rose, Visual C++	In process	
37	Ministry of Justice	MIS	Aug.01	12	20 000	Oracle	In process	
38	Civil Service Consumer Corporation	MIS and bar-coding system	Aug.01	15	20 000	Oracle	In process	
39	Supreme Judge Department	Accounting system	Aug.01	4	5 000	Oracle	In process	
40								
41								

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## Annex 28 Evaluation of training course

### • Software Engineering using UNIX (Number of Trainee: 19)

Subjects	Term	Name of Trainer	Evaluation of Training Course Subjects	Evaluation of Trainer	Trainee Self Evaluation	General Evaluation	Average
UNIX Fundamentals & Administration	5 days	Daher Thabet	2.90	4.00	2.90	3.70	3.38
Business Analysis	5 days	Husein Kawasmi	3.58	4.60	3.39	3.65	3.81
System Development Methodology	5 days	Samir Qutub	3.80	4.40	3.20	4.00	3.85
Database Administration	5 days	Zuhair Suleibi	3.00	3.50	2.32	3.30	3.03
Database Programming	5 days	Atef Abu Arida	3.37	4.00	3.00	3.70	3.52
Database Design	5 days	Zuhair Suleibi	3.50	3.80	2.90	3.50	3.43
Workshop	20 days						
Average			3.36	4.05	2.95	3.64	3.50

### • Software Engineering using NT (Number of Trainee: 19)

Subjects	Term	Name of Trainer	Evaluation of Training Course Subjects	Evaluation of Trainer	Trainee Self Evaluation	General Evaluation	Average
NT Fundamentals	5 days	Ibrahim	3.70	3.90	3.50	4.10	3.80
Business Analysis	5 days	Husein Kawasmi	3.50	4.40	3.80	3.60	3.83
System Development Methodology	5 days	Samir Qutub	3.08	3.60	3.50	3.30	3.37
Database Administration	5 days	Zuhair Suleibi	3.10	3.80	3.06	3.36	3.33
Database Programming	5 days	Atef Abu Arida	3.90	4.00	3.20	3.90	3.75
Database Design	5 days	Zuhair Suleibi	3.70	4.00	3.38	3.89	
Workshop	20 days						
Average			3.50	3.95	3.41	3.69	3.64

### • Advanced Networking (Number of Trainee: 24)

Subjects	Term	Name of Trainer	Evaluation of Training Course Subjects	Evaluation of Trainer	Trainee Self Evaluation	General Evaluation	Average
Data Communication	5 days	Haythem	3.80	3.90	3.70	2.96	3.59
LAN	10 days	Khalid	4.30	4.60	3.70	3.50	4.03
WAN, Network Management & Workshop	15 days	Khalid	4.10	4.50	3.90	3.75	4.06
Average			4.07	4.33	3.77	3.40	3.89

### • Web Computing (Number of Trainee: 21)

Subjects	Term	Name of Trainer	Evaluation of Training Course Subjects	Evaluation of Trainer	Trainee Self Evaluation	General Evaluation	Average
UNIX Fundamentals	5 days	Rami Salem	3.80	4.20	2.94	4.20	3.79
Intranet Fundamentals	7 days	Daher Thabet	3.80	4.30	3.00	3.95	3.76
Average			3.80	4.25	2.97	4.08	3.77

#### Note:

- The numerical value of these tables are shown the average value.
- Calculation method is as follows.
  - Excellent is calculated as 5 points
  - V. Good is calculated as 4 points
  - Good is calculate as 3 points
  - Fair is calculated as 2 points
  - Poor is calculated as 1 point

## Summary of "IT needs survey"

### 1. Purpose

- To understand IT needs of Jordan.
- To reflect the result of IT needs survey in the training courses.

### 2. Target Organizations(Companies)

- Number of organization and company sent : 115
  - Number of Public Sector : 82
  - Number of Private Sector : 33
- Number of company and organization received : 58 (Collection rates 50.4%)
  - Public Sector : 39
  - Private Sector: 19

### 3. Schedule

- By Sep. 19 Select the target organizations(companies) and examine the receiving method.
- By Sep .30 Prepare the letter
- By Oct . 1~Nov .30 Sending and receiving
- By Dec. 3~12 Summary and analysis

### 4. Result of analysis

IT needs of Jordan were recognized. IT needs proved to be almost same tendencies in Public Sector and Private Sector. It was confirmed that the training courses were corresponding to the needs. Please refer to the chat(Type of Field needed and its corresponding training courses at CTTISC).

### 5. Attachment

- Type of Field needed and its corresponding training courses at CTTISC

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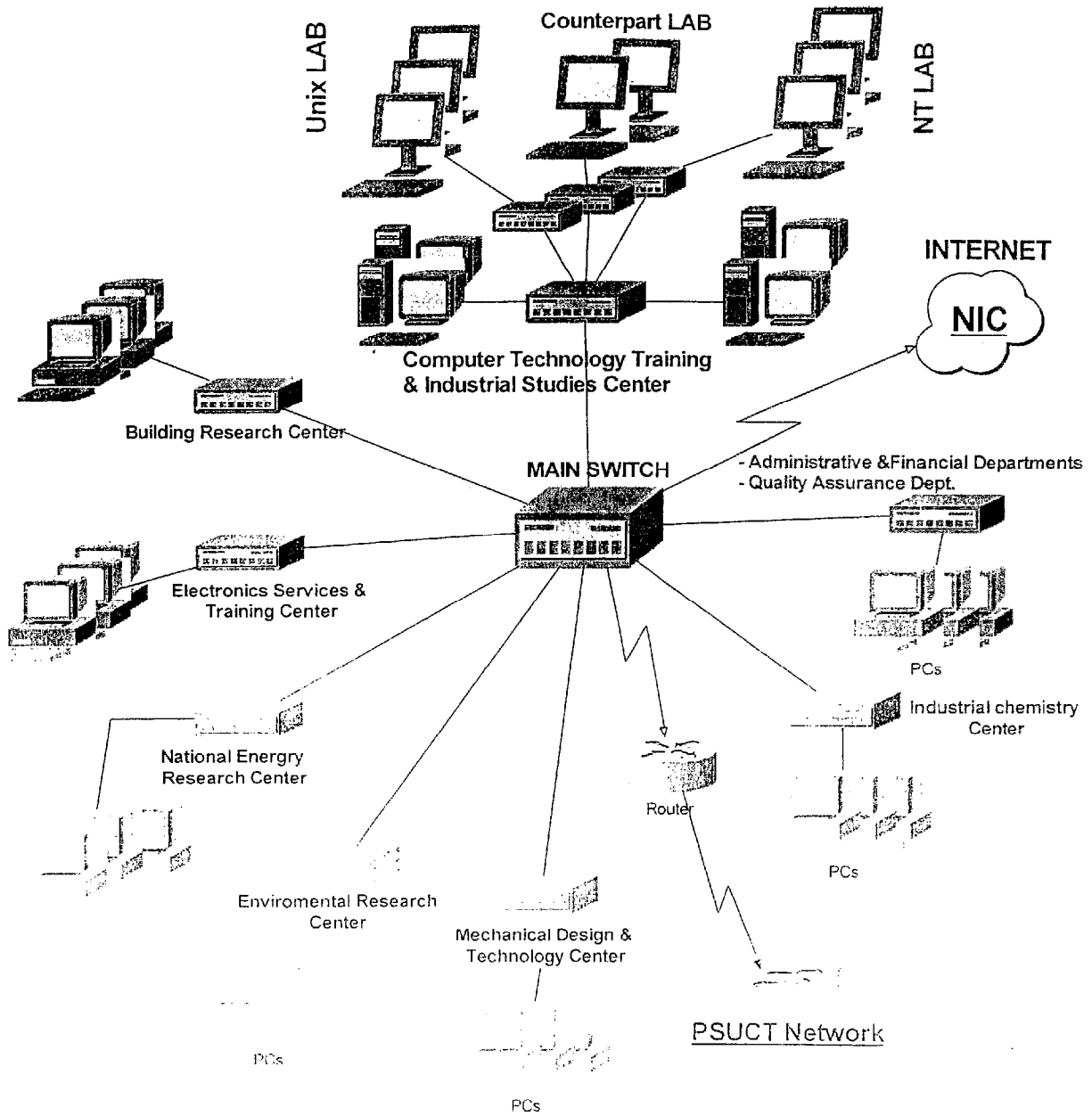


Type of Field needed and its corresponding training courses at CTTISC (IT needs survey item 6-2 )

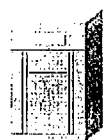
Type of Field needed	Number	Corresponding training at CTTISC	Remarks
Java Programming	39	Web Computing/Short term course	
Oracle Designer	36	SW UNIX and NT	Only Basic
Oracle Developer	36	SW UNIX and NT	Only Basic
Windows NT	35	SW NT/Short term course	
Internet/Intranet Security	34	Web Computing	Only Basic
Oracle Application Server	30	Not Provided	The course will be provided next year
Network Management	30	Networking	Only Basic
WWW Server Design and Implementation	27	Web Computing	
Oracle	26	SW UNIX and NT/Short term course	
System Analysis	22	SW UNIX and NT/Short term course	
UNIX	18	SW UNIX/Short term course	
C++ Programming	18	Short term course	
Multimedia Tool	16	Multimedia	
VC++ Programming	14	Short term course	
System Development	13	SW UNIX and NT	
Project Management	12	Short term course	
WAN	11	Networking	
VB Programming	10	Short term course	
LAN	7	Networking	
Business Analysis	7	SW UNIX and NT	
C/S System Design and Implementation	6	Not Provided	
Windows98	6	Not Provided	
Multimedia Title Development	4	Multimedia	
Perl Programming	4	Not Provided	
C/S System Management	3	Not Provided	
Linux	3	Not Provided	

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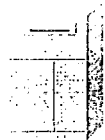
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All The Servers Are Connected To The Main Switch



RISC Server



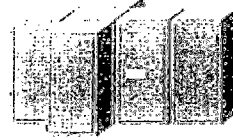
SUN450 Server



RISC Server



ALPHA 1000



Fujitsu M-770 Mainframe

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Annex 31 Configuration of the equipment of the Project

