ANNEX 3

Evaluation Grid on Five Criteria

2007/3/9

Category	Verifiable Indicators	Means of Verification	Source of Information	Results of Evaluation	Grade
Relevance	1 Consistency with the needs of the target group	•Is Project purpose compatible with the needs of CSO?	•Records of implementation •Questionnaires to experts, C/P •Interviews to experts, C/P, DG	The Project has intended to improve the statistical methodologies and technologies to strengthen statistical infrastructure of CSO, thereby to improve the capacity of CSO for producing accurate and timely statistics.	A
	2 Consistency with the development policy of the Government of Myanmar	•Is capacity building of CSO compatible with the development policy of Myanmar?	same as above	The Government of Myanmar recognizes the importance of accurate and timely production of statistics for its policy making. The Minister of National Planning and Economic Development emphasized the needs for capacity building of the statistical authorities in Myanmar at the bilateral meeting between Japan and Myanmar.	A
	3 Relevance of preconditions	•Do policy makers in Myanmar recognize the importance of statistical information?	•Interviews to experts, C/P, Directors and DG	same as above	A
	4 Consistency with the Japanese aid policy	•Is the any changes in Japanese aid policy that would affect the Project implementation?	•Interviews to Japanese Embassy, and JICA Office	Japanese Government prioritizes the assistance to promote socio-economic policy planning in Myanmar. As the Project intends to improve the statistical capacity for providing accurate and timely data to policy makers and other relevant users, the Project purpose is compatible with the Japanese aid policy.	A
	5 Consideration of equity	•Do Project outputs have spill over effects beyond CSO?	•Interviews to experts, C/P, DG	On condition that the existing statistical database system in the Project site be transferred and successfully installed to the prospective LAN system in the Ministry, it would contribute to providing the accurate and timely statistical information beyond CSO.	B
	6 Dominance of Japanese technology	•Does Japan have superior know-how in statistical capacity building?	•Interviews to experts, C/P, Directors and DG	Japan has implemented the similar projects of capacity building for the statistical authorities in Indonesia, Tanzania, Cambodia, etc., and the results have been highly evaluated.	A
Effectiveness	1 Achievement of Project purpose	•Is the degree of achievement of Project purpose satisfactory?	•Records of implementation •Questionnaires to experts, C/P •Interviews to experts, C/P, DG	The counterparts have acquired and established the technologies to manage the statistical database system, and to build/update the CSO homepage. On condition that the servers for operating the statistical database system and homepage be transferred and successfully established as the LAN system in CSO, the Project purpose could be achieved by the end of the Project period.	B⁻
	2 Contribution of outputs to Project purpose	•Has the achievement of the Project purpose been brought by the Project outputs? •Is there any contribution of other donors in achieving the Project purpose?	same as above	The Project purpose would be achieved as a result of the Project outputs, if the above condition be met.	B⁻

A: Achieved completely, B: Achieved, B⁻: Need some works to be completed, C: Not achieved

ANNEX 3

Evaluation Grid on Five Criteria

2007/3/9

Category	Verifiable Indicators	Means of Verification	Source of Information	Results of Evaluation	Grade
	3 Influence of external conditions	・Are there any external conditions that have affected the Project implementation?	same as above	The move of CSO to Nay Pyi Taw has affected the implementation of the Project to some extent. In spite of difficult conditions, CSO has made and is making utmost efforts to cooperate in the implementation of the Project by locating two Directors of the substantive Divisions, sending counterparts and other staffs from Nay Pyi Taw to Yangon to work with the JICA experts according to the time schedule of the Project team, and letting a number of relevant staffs participate in the training course for an extended period.	B⁻
	4 Analysis of the factors				
	4-1 Promoting factors	・Are there any factors that have promoted the Project implementation?	same as above	CSO has made and is making utmost efforts to cooperate in the implementation of the Project by locating two Directors of the substantive Divisions, sending counterparts and other staffs from Nay Pyi Taw to Yangon to work with the JICA experts according to the time schedule of the Project team, and letting a number of relevant staffs participate in the training course for an extended period	A
	4-2 Constraining factors	・Are there any factors that have constrained the Project implementation?	same as above	The fact that almost all the CSO activities are being carried out in Nay Pyi Taw has obliged to limit the time that DG can devote to the Project. To overcome this difficult situation, the Project team and the Directors of CSO stationed in Yangon had frequent meetings to discuss the progress in the activities, and the future direction.	B⁻
Efficiency	1 Utilization of inputs				
	1-1 JICA experts	・Were JICA experts dispatched as scheduled? ・Did they implement the assigned activities appropriately?	・Records of implementation ・Questionnaires to experts, C/P ・Interviews to experts, C/P, DG	・The experts were assigned as scheduled, except for an expert on industrial statistics, whose appointment was cancelled. However, another expert was assigned to conduct the 2003 NMS data analysis/evaluation in February 2007.	B
	1-2 Equipment	・Was equipment provided by JICA fully utilized to achieve the outputs? ・Was quality and quantity of the equipment appropriate?	same as above	A shortage of PCs had limited the number of participants in the seminars on statistical software in the first year. However, additional procurement of 15 PCs has made one PC available per one trainee in the second year.	B
	2 Timing of inputs	・Was timing and duration of the experts' dispatch appropriate? ・Was equipment provided timely?	same as above	・OJTs on the statistical/library database management were delayed due to a delay in the procurement of a scanner. ・The start of 2003 NMS data analysis was delayed for several months, since English translation and cross tabulations necessary for analysis was made available in October 2006.	B⁻

A: Achieved completely, B: Achieved, B⁻: Need some works to be completed, C: Not achieved

Category	Verifiable Indicators	Means of Verification	Source of Information	Results of Evaluation	Grade
	3 Comparison with similar projects	•Compare the total costs, time period, inputs (experts and equipment), and results of the projects	•R/D of statistical capacity building project in Cambodia	The Table below shows a comparison of statistical capacity building projects in Cambodia and Myanmar. Comparison of similar projects (see table below)	B
Impact	1 Prospect of achieving the overall goal	•Is the Project directing toward the achievement of the overall goal?	•Records of implementation •Questionnaires to experts, C/P •Interviews to experts, C/P, DG	The capability of producing and providing more accurate and timely statistics will be improved, if the statistical database system has been successfully installed in the prospective LAN system of CSO, and connected to the Intranet system of the Ministry.	B⁻
	2 Contribution of achievement of Project purpose to the prospect of achieving the overall goal	•Does accurate and timely production of statistics by CSO contribute to policy making in Myanmar?	same as above	The capability of producing and providing more accurate and timely statistics will be improved, if the statistical database system has been successfully installed in the prospective LAN system of CSO, and connected to the Intranet system of the Ministry.	B⁻
	3 Analysis of the factors				
	3-1 Promoting factors	•Are there any factors that would promote the impact of the Project?	same as above		C
	3-2 Constraining factors	•Are there any factors that would constrain the impact of the Project?	same as above		--
Sustainability	1 Project purpose and Overall goal	•Will CSO continue to build and sustain statistical capacity in line with the Project purpose?	•Records of implementation •Questionnaires to experts, C/P •Interviews to experts, C/P, DG	The transfer of statistical/computer technologies from the experts to CSO counterparts has been successful. The counterparts implemented the Project activities ardently, and acquired enough skills to improve the statistical methodologies and manage/operate/maintain the statistical database system independently. A careful personnel management is necessary to utilize and sustain this level of skills inside of CSO.	B⁻
	2 Policy aspect	•Do policy makers in Myanmar respect the importance of statistical information?	•Interviews to Directors and DG	The Government of Myanmar recognizes the importance of accurate and timely production of statistics for its policy making.	B⁻

Comparison of similar projects

	Time span	Total cost (¥100mil)	JICA experts (man/year) Long-term	JICA experts (man/year) Short-term	Equipment (¥million)	Training cost (¥million) Local	Training cost (¥million) Japan
Cambodia	2 years	2.4	0	7～8	22	30	3～4
Myanmar	2 years	1.9	0	10	3.3	0	0～5

A: Achieved completely, B: Achieved, B⁻: Need some works to be completed, C: Not achieved

Evaluation Grid on Five Criteria

Category	Verifiable Indicators	Means of Verification	Source of Information	Results of Evaluation	Grade
	3 Institutional aspect	・Is the function of CSO stable enough for improving statistical capacity? Does CSO have future plans to this end? ・Will the supervising Ministry and the Ministries concerned assist CSO in implementing its activities?	・Records of implementation ・Questionnaires to experts, C/P ・Interviews to experts, C/P, Directors, DG	As the Government of Myanmar recognizes the importance of accurate and timely production of statistics for its policy making, the function and budget of CSO are expected to be secured.	B⁻
	4 Financial aspect	・Will the budget be appropriated to CSO for improving the statistical capacity? ・Is the budget of CSO stable? Does CSO depend on external resource for implementing its activities?	same as above	The budget will be appropriated for CSO to prepare, conduct, analyze, and improve the existing surveys. The experts have recommended that the surveys be conducted more regularly. The budget for replacing and upgrading the computer software and equipment (servers and PCs) is yet to be confirmed.	B⁻
	5 Technical aspect	・Will counterparts stay in CSO to utilize the capacity improved by the Project implementation? ・Will CSO adopt the recommendations and utilize the improved statistical capacity for its activities? ・Will counterparts apply the Project outputs for further improvement of statistical methodologies? ・Does CSO has an organizational mechanism to share and transfer the technologies, know-how and information among its staff?	same as above	The transfer of statistical/computer technologies from the experts to CSO counterparts has been successful. The counterparts implemented the Project activities ardently, and acquired enough skills to improve the statistical methodologies and manage/operate/maintain the statistical database system independently. A careful personnel management is necessary to utilize and sustain this level of skills inside of CSO.	A

A: Achieved completely, B: Achieved, B⁻: Need some works to be completed, C: Not achieved

Appendix 1

List of Counterparts Assigned

2007/3/9

Project			JFY2005 Oct	Nov	Dec	Jan	Feb	Mar	JFY2006 Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Management	U Shu Kyein	Director-General																		
	U Thein Tun	Deputy Director-General																		
	Daw Win Win Tin	Project Manager, Director, Statistics Division II																		
	U Ngwe Thein	Director, Statistics Division I																		
	U Soung Tin	Director, Computer Division																		
	U Thaung Hlaing	Director, Computer Division																		
	Daw Khin Thant Zin	Director, Computer Division																		
Group Liaison Officer	Daw Marlar Aung	Deputy Director																		
	Daw Khin Khin Moe	Staff Officer																		
Statistical Library	Daw ThanThan Nu	Staff Officer																		
	Daw Khin Khin Moe	Staff Officer																		
Statistical Publishing	U Aung Myint Than	Assistant Director																		
	Daw Mya Mya Aye	Staff Officer																		
	Daw San San Win	Staff Officer																		
WPI	U San Myint	Assistant Director																		
	Daw Cho Cho Myint	Staff Officer																		
	Daw Ni Ni Myint	Staff Officer																		
HIES	Daw Thida Aye	Staff Officer																		
	Daw Chaw Chaw	Staff Officer																		
Informal Sector Survey	U Oo Tun Hlaing	Staff Officer																		
	Daw Khin Than Lwin	Staff Officer																		
NMS	U Aung Myint Than	Assistant Director																		
	Daw New New Win	Staff Officer																		
	Daw Tin Wai Wai Phyo	Staff Officer																		
Trade Statistics	Daw Pyone Pyone Kyi	Staff Officer																		
	Daw Yin Yin Tun	Staff Officer																		
Statistical Data Processing	Daw Win Win Than	Assistant Director																		
	Daw Nelly	Assistant Director																		
	Daw Khin Thaung Oo	Staff Officer																		
Statistical Database	Daw Aye Aye Kyi	Staff Officer																		
	Daw Khin Aye Mu	Staff Officer																		
	Daw Win Mar	Staff Officer																		

: Based in Yangon

: Based in Nay Pyi Taw

Appendix 2

List of Experts Assigned

2007/3/9

Name of Expert	Field	Period of Assignment: JFY2005 (Oct, Nov, Dec, Jan, Feb, Mar)	Period of Assignment: JFY2006 (Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec, Jan, Feb, Mar)	M/M 2005	M/M 2006	M/M Total
MIURA Yuki	Chief Advisor / Statistical technology	66(2.20) 20 Oct – 24 Dec; 45(1.50) 30 Jan – 15 Mar	65(2.17) 29 May – 1 Aug; 65(2.17) 22 Aug – 25 Oct; 59(1.96) 15 Jan – 14 Mar	3.70	6.30	0.00
AIHARA Yoshie	Statistical library	45(1.50) 21 Oct – 4 Dec		1.50	0.00	0.00
NEGI Takanobu	Statistical publishing	9(0.30) 29 Oct – 6 Nov	7(0.23) 12 Feb – 18 Feb	0.30	0.23	0.00
ITO Akihiko	WPI	27(0.90) 4 Nov – 30 Nov; 24(0.80) 14 Feb – 9 Mar	7(0.23) 3 Jun – 9 Jun; 13(0.44) 3 Oct – 15 Oct	1.70	0.67	0.00
HONDA Hideshi	HIES	21(0.70) 20 Oct – 9 Nov; 24(0.80) 20 Feb – 15 Mar	13(0.43) 2 Oct – 14 Oct; 14(0.47) 18 Feb – 3 Mar	1.50	0.90	0.00
SUZUKI Haruko	Informal sector	33(1.10) 20 Oct – 21 Nov; 45(1.50) 30 Jan – 15 Mar	12(0.40) 9 Oct – 20 Oct	2.60	0.40	0.00
ARAKI Kazuo	Nationwide Manufacturing Survey / Trade statistics			0.00	0.00	0.00
OTOMO Atsushi	Statistical database	30(1.00) 13 Nov – 12 Dec; 36(1.20) 1 Feb – 8 Mar	21(0.70) 25 Sep – 15 Oct	2.20	0.70	0.00
KOZU Hiroyuki	Statistical data processing	57(1.90) 20 Oct – 15 Dec; 45(1.50) 30 Jan – 15 Mar	40(1.33) 30 May – 8 Jul; 47(1.57) 22 Aug – 7 Oct; 57(1.90) 17 Jan – 14 Mar	3.40	4.80	0.00
NISHIMURA Kunio	Statistical Seminar	30(1.00) 14 Feb – 15 Mar	13(0.43) 26 Feb – 10 Mar	1.00	0.43	0.00
KURITA Takayuki	Statistical technology II		53(1.77) 3 Sept – 25 Oct; 30(1.00) 14 Feb – 14 Feb	0.00	2.77	0.00
KURITA Takayuki	Project Coordinator	66(2.20) 20 Oct – 24 Dec; 30(1.00) 30 Jan – 28 Feb	20(0.67) 29 May – 17 Jun; 12(0.40) 22 Aug – 2 Sept; 29(0.97) 15 Jan – 13 Feb	Borne by ICONS		
			Total	17.90	17.20	0.00

Appendix 3

List of Seminar and Training

1. Seminar

Times	Period Second Stage	Theme	No. of Participants
1	24 February 2006	· General information about official statistics · Wholesale Price Index (WPI) · Household Income and Expenditure Survey (HIES) including the Informal Sector · Statistical database	54 (excluding 8 JICA Experts)

2. Training

Times	Period	Theme	No. of Participants
	First Stage		
1	26 October – 16 November 2005	· Informal sector	8 – 21
1	2-29 November 2005	· Developing data processing application · SQL and Tabulation	26 8
1	21 November - 9 December 2005	· Statistical analysis using Excel	8
	Second Stage		
1	6 February - 13 March 2006	· Web (HTML, StyleSheet, JavaScript, Coloration)	13-18
1	20 February – 6 March 2006	· Statistical analysis using Excel	8
	Third Stage		
1	5 June- 6 July 2006	· Web workshop · CSpro	31
1	28 August – 5 October 2006	· Web (Common Gate Interface (CGI) using C language, Web-DB Application using VB) · Network & Security	20
1	2-13 October 2006	· Statistical analysis using Excel	20

Times	Period	Theme	No. of Participants
	Fourth Stage		
	22 January – 9 March 2007	• SQL Server (Preparation for Data processing system, Administration) • CSPro (Preparation for Data processing system) • Data Processing System • Excel VBA • Access VBA	20

APPENDIX 4

Project Design Matrix (PDM) original

Project Title: Strengthening the Capacity of Central Statistical Organization of the Union of Myanmar

ver.1

Implementing Agency: Ministry of Planning and Economic Development, Central Statistical Organization

Duration:., Sep.,2005~Sep., 2007

Target Group: Statistical Officers in CSO

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Overall Goal			
Statistics produced by CSO will be utilized in the drawing up process of socio-economic development plans.	1 Utilization of statistical data in socio-economic development plans (Utilization of results of CSO's statistical surveys by other related ministries)	Documents of other related ministries	
Project Purpose			
CSO will be able to produce statistics accurately and timely for statistical surveys implemented by CSO, and provide highly reliable data to policy makers, administrators, researchers, and other relevant users.	1 Number and frequency of statistical surveys conducted by CSO 2 Number and frequency of statistical document made by CSO 3 Number of issues and sales quantity of statistical publications 4 Number of access to CSO homepage	CSO's records CSO's records CSO's records Access log of CSO homepage	
OUTPUTS			
1 Statistical methodologies for Wholesale Price Index (WPI), Household Income and Expenditure Survey (HIES) including the informal sector and other surveys conducted by CSO will be improved.	1-1 Frequency of calculation of WPI 1-2 Number of data on informal sectors in HIES 1-3 Number and frequency of other statistical surveys 1-4 Level of understanding of CSO staff on statistical methodoogies for WPI, HIES including the informal sector and other surveys	1-1 CSO's records 1-2 Result of HIES 1-3 CSO's records 1-4 Level test for CSO staff, Interviews to CSO staff	
2 Data obtained from NMS will be analyzed and evaluated appropriately.	2-1 Result of analysis of NMS data 2-2 Result of evaluation of NMS data 2-3 Number of publication of NMS data	2-1 Analytical report on NMS 2-2 Evaluation report on NMS 2-3 CSO's records	
3 Statistical database management system will be improved	3-1 Formulation status of procedures and guidelines on statistical database operation and provision of statistical 3-2 Number of statistical data stored in the statistical 3-3 Number of training courses and number of their participants in the training for the statistical database management system 3-4 Frequency of utilization of data in statistical database within the Ministry	3-1 CSO's documents on procedures and guidelines 3-2 Database records 3-3 CSO's records 3-4 Access log of the client server	
4 Management/Operation/Maintenance systems for the client server and the LAN system will be improved.	4-1 Formulation status of procedures and guidelines on management/operation/maintenance for the client server and the LAN system 4-2 Average time (by month) for the recovery from troubles in the client server and the LAN system 4-3 Number of training courses and number of their participants in the training for data security 4-4 Level of understanding of CSO staff on data security	4-1 CSO's documents on procedures and guidelines 4-2 CSO's records 4-3 CSO's records 4-4 Level test for CSO staff, Interviews to CSO staff	
5 Statistical data provided through CSO homepage and other measures will be improved.	5-1 Number of statistics uploaded in CSO homepage 5-2 Number of access to CSO homepage 5-3 Frequency of updating of CSO homepage 5-4 Number of days from the release of statistical data within the Ministry until the upload in CSO homepage 5-5 Number of users of CSO's library 5-6 Number of issues and sales quantity of statistical publications	5-1 CSO homepage 5-2 Access log of CSO homepage 5-3 CSO's records 5-4 CSO's records 5-5 Register of CSO's library 5-6 CSO's records	

Activities	INPUTS		
	Myanmar Side	Japanese Side	
1 Statistical methodologies for Wholesale Price Index (WPI), Household Income and Expenditure Survey (HIES) including the informal sector and other surveys conducted by CSO will be improved. 1-1 Improvement of statistical methodologies for WPI calculation, HIES including the informal sector and other surveys conducted by CSO 1-2 Implementation of On the Job Trainings (OJT) for WPI calculation, HIES including the informal sector and other surveys conducted by CSO 1-3 Implementation of OJTs for statistical software 1-4 Implementation of statistical seminars 2 Data obtained from NMS will be analyzed and evaluated appropriately. 2-1 Analysis and evaluation of NMS data 2-2 Implementation of OJTs for the analysis and evaluation of NMS data 3 Statistical database management system will be improved 3-1 Formulation of procedures and guidelines on statistical database operation and provision of statistical data 3-2 Development of the CSO statistical database 3-3 Implementation of trainings for the statistical database management system 4 Management/Operation/Maintenance systems for the client server will be improved. 4-1 Formulation of procedures and guidelines on management/operation/maintenance for the client server and the LAN system 4-2 Installation of management/operation/maintenance systems for the client server and the LAN system 4-3 Implementation of OJTs for the management/operation/maintenance of the client server and the LAN system 4-4 Implementation of trainings for data security 5 Statistical data provided through CSO homepage and other measures will be improved 5-1 Preparation of textbook for training on utilization of statistical data in each field of statistics 5-2 Improvement of the usage of CSO statistical products including those in the CSO's library	Counterpart personnel Office room for Japanese experts and its furniture Running cost for the project activities Approval for the access to the data necessary for the improvement of statistical methodologies	Short-term Experts: Statistical technology (Chief Advisor), WPI, Household survey, Statistical information processing, Statistical database, Statistical seminar Counterpart Training in Japan : Statistical system and technology Equipment: Equipment for the installation and maintenance of the client server and the LAN system, Necessary equipment for the improvement of statistical methodologies in accordance with the progress of the project activities	**Pre-Conditions** Policy makers will recognize the importance of statistical information

Appendix 5. Local activities expenditure borne by Japan

Item	Amount of Expense (US$)			Summary of Expense
General Expense	JFY2005	*JFY2006	Total	
Expense for hiring	1,400		1,400	Transferring of the documents
Expense for Tele-communication		350	350	Rental for cel-phone
Expense for consumable	480		480	Toner for copying
Expense for material	1,232	2,131	3,363	Copying and binding cost for the training and
Transportation expense and fee of meeting	4,563	3,539	8,102	Transporation Seminar
Total	7,675	6,020	13,695	

* Estimated Cost (Accounting work has not completed)

Appendix 6

List of machinery and equipment for the Project

No.	Name	Specification	Qty.	Price (US$)		Practical Use	Situation of Maintenance and Management
				Unit	Total		
	First Year						
1.	Desk top Computer (PC) for recognition	CPU: Intel Pentium 4 /3.2GHZ Memory: 512MBx2 SDRAM Hard Disk Drive: 200GB Monitor: 17inch TFT FDD: 3.5inch: 1.44MB DVD-ROM Driver Key Board: PS2 Mouse:PS2	1	850.00	850.00	1. Used for development of database for library stock. 2. Used for scanned data of statistical library stock.	Maintained by CSO staff.
2.	Desk top Computer (PC)	CPU: Intel Pentium 4 /2.80GHZ Memory: 512MB SDRAM Hard Disk Drive: 80GB Monitor: 17inch TFT FDD: 3.5inch, 1.44MB CD-ROM Driver: 48x Read CD-RW/DVD-ROM	2	691.00	1,382.00	Used for training held by JICA expert.	Maintained by CSO staff.
3.	OS	OS: Windows XP Professional (English Version)	3	170.00	510.00	Installed to PC.	Maintained by CSO staff.
4.	Application Software	Microsoft Office XP Professional (English Version)	3	312.00	936.00	Installed to PC.	Maintained by CSO staff.
5.	Hard Disk Drive (For Server)	HDD: 36.4GB (per 1unit) Type: Wide Ultra SCSI-3, 3.5series Platform: Windows® XP Home/XP Pro/2000 Pro	5	350.00	1750.00	Installed to Server.	Maintained by CSO staff.

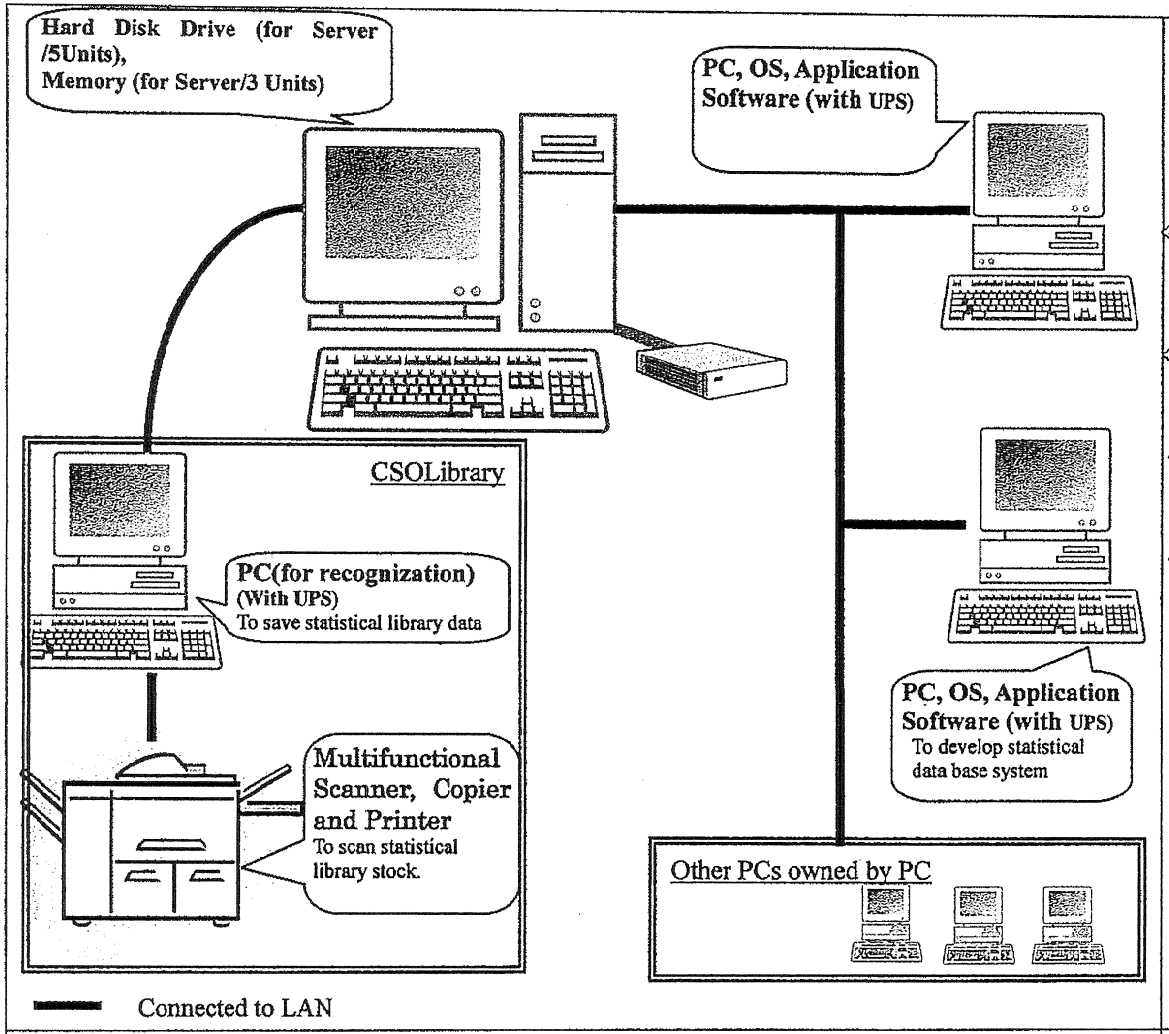
Appendix 6

No.	Name	Specification	Qty.	Price (US$)		Practical Use	Situation of Maintenance and Management
				Unit	Total		
6.	Memory (For Server)	512MB DDR Platform: Windows® XP Home/XP Pro/2000 Pro	3	44.00	132.00	Installed to Server.	Maintained by CSO staff.
7.	External Hard Disk for Back Up data	200GB Platform: Windows® XP Home/XP Pro/2000 Pro	1	118.00	118.00	Connected to Server for data back up.	Maintained by CSO staff.
8.	Multifunctional Scanner, Copier and Printer	Print Technology: Laser Printing First copy Time: 4.9sec/sheet Resolution: 600 by 600dpi CPU: 533MhzRISC Processor Interface:10/100Base-T	1	4,710.00	4,710.00	Used to data entry of statistical library stock..	Maintained by CSO staff.
9.	UPS	Input Voltage: 220Vac±25% Input Hz: 50/60Hz Output Voltage: 220Vac±10% Output Hz: 50/60Hz	3	27.00	81.00	Connected to PC to un-interrupt power supply.	Maintained by CSO staff.
	Second Year						
1.	Desk top Computer (PC)	CPU: Intel Pentium 4 /2.80GHZ Memory: 512MB SDRAM Hard Disk Drive: 80GB Monitor: 17inch TFT FDD: 3.5inch, 1.44MB CD-ROM Driver: 48x Read CD-RW/DVD-ROM	15	590.00	8,850.00	Used for data entry.	Procured in the end of the Third stage, therefore not installed yet.

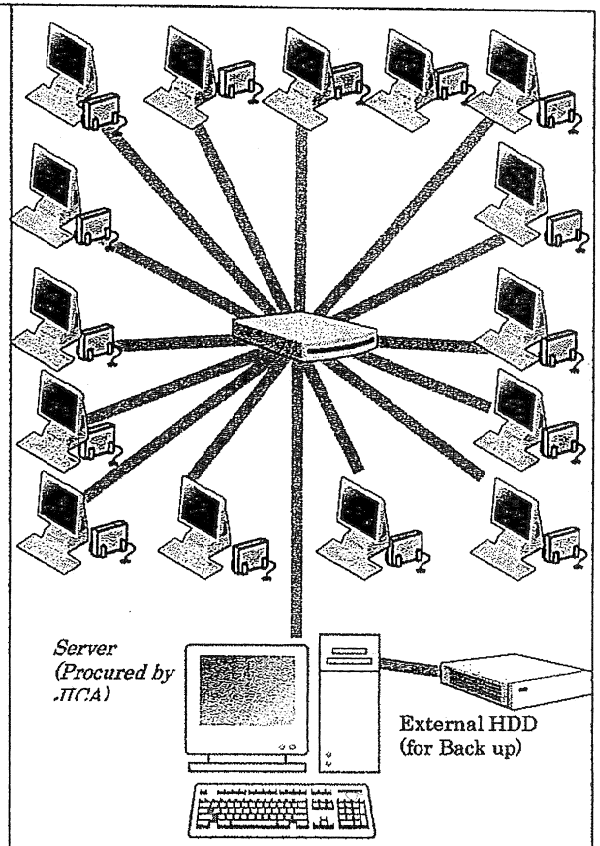
Appendix 6

No.	Name	Specification	Qty.	Price (US$)		Practical Use	Situation of Maintenance and Management
				Unit	Total		
2.	UPS	Input Voltage: 220Vac±10% Input Hz: 50/60Hz Max. Output Voltage: 220Vac±10%	15	32.00	480.00	Connected to PC to un-interrupt power supply.	Maintained by CSO staff.
3.	OS	OS: Windows XP Professional (English Version)	15	165.00	2,475.00	Installed to PC.	Procured in the beginning of the Fourth stage, therefore not installed yet.
4.	Application Software	Microsoft Office XP Professional (English Version)	15	337.00	5,055.00	Installed to PC.	Procured in the beginning of the Fourth stage, therefore not installed yet.
5.	External Hard Disk for Back Up data	200GB Platform: Windows® XP Home/XP Pro/2000 Pro	1	159.00	159.00	Connected to Server for data back up.	Maintained by CSO staff.
6.	Switching Hub	Ports: 8 Speed: 100Mbps (100BASE-TX) 10Mbps(10BASE-T)	2	24.00	48.00	Connected to develop LAN system.	Procured in the beginning of the Fourth stage, therefore not connected to LAN yet.

Appendix 6



Arrangement of machinery and equipment for the Project (First Year)



Arrangement of machinery and equipment for the Project (Second Year)