

12. ミニッツ（概要書説明調査）

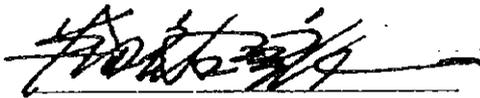
MINUTES OF DISCUSSIONS ON BASIC DESIGN STUDY ON
THE PROJECT FOR IMPROVEMENT OF THE EDUCATIONAL EQUIPMENT FOR
THE FACULTY OF MEDICAL SCIENCES,
THE UNIVERSITY OF SRI JAYWARDENEPURA
IN
THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
(CONSULTATION ON DRAFT REPORT)

In October 1996, the Japan International Cooperation Agency (JICA) dispatched a Basic Design Study Team on the Project for Improvement of Educational Equipment for the Faculty of Medical Sciences, the University of Sri Jaywardenepura in the Democratic Socialist Republic of Sri Lanka (hereinafter referred to as "the Project"). The draft report of the study was prepared by JICA, after subsequent to discussions, field survey and technical examination of these results, in Japan.

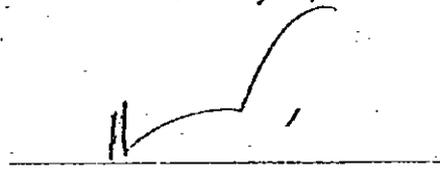
In order to explain and consult the Sri Lanka side on the components of the draft report, JICA sent a study team to Sri Lanka headed by Dr. HANDA Yujiro, Development Specialist, JICA, and was scheduled to stay in the country from January 15 to 24, 1997.

As a result of discussions, both parties have agreed to arrangements described in the attachment.

January 22, 1997 Colombo



Dr. HANDA Yujiro
Leader
Draft Report Explanation Team
Japan International Cooperation Agency



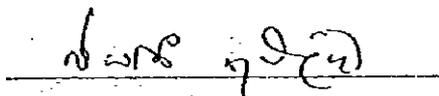
Mr. M.D.C. PIERIS
Secretary
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The Democratic Socialist Republic of Sri Lanka



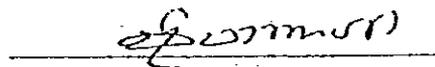
Prof. S. TILAKARATNA
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ATTACHMENT

1. Contents of the draft report

The Government of Sri Lanka has in principle agreed and accepted the contents of the draft report proposed by the Team.

2. Responsible and Executing Agency

The Ministry of Education and Higher Education is responsible for the administration and execution of the Project.

3. Equipment requested by the Government of Sri Lanka

1) Equipment for the Faculty of Medical Sciences, the University of Sri Jayewardenepura.

The equipment, described in ANNEX 1-1 and ANNEX 1-2, are finally requested by the Government of Sri Lanka for procurement under the Japan's Grant Aid.

2) Equipment for Undergraduate Clinical Training at Colombo South Teaching Hospital.

a) After the present study, the equipment described in ANNEX 1-3 was additionally requested by the Government of Sri Lanka .

b) The Government of Sri Lanka agreed to give priority order to the requested equipment as follows:

A = 1st Priority B = 2nd Priority C = 3rd Priority

The requested equipment shall be re-examined to finalise the Basic Design Study Report .

4. Preparation of the final report.

JICA will prepare the final report in accordance with the confirmed items and submit to the Government of Sri Lanka around April, 1997.

5. Japan's Grant Aid System

1) The Government of Sri Lanka has understood the system of Japan's Grant Aid explained by the team (See ANNEX II).

2) The Government of Sri Lanka will take necessary measures, described in Annex - III for smooth implementation of the Project on condition that the Japan's Grant Aid is extended to the Project.

6. Other relevant issues

- 1) The maintenance of the equipment procured by this project will be carried out with the services offered by Bio-medical Engineering Service (B.E.S.) of the Ministry of Health, Highway and Social Services under the co-operation between the Ministry of Education and Higher Education and the Ministry of Health, Highway and Social Services.

Some sophisticated equipment, which can not be maintained by B.E.S., shall be contracted to the local agents of the manufacturer for service and maintenance.

- 2) B.E.S. will undertake training of the engineers of the Maintenance Unit of the Faculty of Medical Sciences, the University of Sri Jayewardenepura.
- 3) University Grants Commission will secure budget at least 55 million Rp./annum needed for the operation and maintenance cost for the Faculty of Medical Sciences, University of Sri Jayewardenepura including for the University Professorial Unit at Colombo South Teaching Hospital.
- 4) The Ministry of Health, Highway and Social Services will be responsible for the budget of operation and maintenance cost including spare parts, chemicals, reagents etc. (at least approx. 3.8 million Rp./annum in addition to the present annual budget) of equipment which will be provided to the central services of Colombo South Teaching Hospital, such as Operation Theatre, I.C.U., Radiology, Clinical Pathology and Accident Emergency Department, etc., as parts of upgrading the said hospital.

ANNEX 1-1

Equipment List for the Faculty of Medical Sciences,
the University of Sri Jayewardenepura



ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Common Items among the Department			Common		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
10	L-013	Double Beam Spectrophotometer,200-1000nm	A 2	2	2
12	L-016	Digital Flame Photometer	A 2	2	2
13		IR Spectrophotometer	C 1		
15		Fully Automatic Random Access Analyzer	C 1		
29	L-029	Ice Flake Maker	A 2	2	2
33	L-034	Freeze Dryer	A 1	1	2
45		Ultracentrifuge, 30000-150000 rpm	C 1		
	L-044	Ultracentrifuge, 60000 rpm		1	2
47		Centrifuge, Cold, High Speed	A 1		
48	L-045	Centrifuge, Refrigerated	A 1	1	1
49	L-046	Refrigerated Microfuge with Rotors	A 1	1	1
50	L-047	Microfuge		1	1
59	L-056	Dilutors	A 2	2	2
94		Gel Documentation and Analysis System	C 1		
97	L-087	Auto(Water) Still	A 1	1	2
105		Programmable, Cell Harvester	C 1		
111		HPLC System	C 1		
112		Blood chemical concentration analyzer	C 1		
151	M-013	Blood Gas Analyzer	A 1	1	1
167	M-027	Laparoscope with Video Unit	A 1	1	1
171	M-031	Ultrasound Machine with Color Doppler	B 1	2	1
172	M-032	Video Endoscopy System	A 1	1	1
173	M-033	Gastrointestinal Fiberscope, Neonatal	A 1	1	1
237	O-008	Educational TV and VCR Set		5	1
238	O-009	Slide Projector		5	1
239	O-010	Overhead Projector		5	1
240	O-011	Projector Screens		5	1
241	O-012	Laplop Computer	A 5	5	1
242	O-013	Color Video Projector	A 1	1	2
246	O-017	Bubble Jet Color printer	A 2	2	1
247	O-018	Dot Matrix Printer 24 Pin	A 3	3	1
248	O-019	Photocopying Machine	A 5	7	1
	O-020	Photocopying Machine with sorting unit		1	1
249	O-021	Electronic Duplicating Machine	A 5	5	1
252		Electronic Stencil Scanning Machine	B 2		
260	O-030	Fax Machines	B 5	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 1	1	1
267	O-035	Stabilizers	A 5	5	1
	O-039	Portable generator		10	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Anatomy			Anatomy		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
1	L-001	Teaching Microscope with 5 teaching attachment	A 1		1
	L-005	CCTV System with 6 monitor, VCR		1	2
4	L-007	Research Microscope(FL, Ph/C, Pol Attach) with Photo system	A 3	3	1
5	L-008	Inverted Tissue Culture Microscope	B 1	1	1
8	L-011	Biological Microscope	A 60	40	1
9	L-012	Stereoscopic Zoom Microscope	A 1	1	1
20	L-020	Cryostat with Knife	C 1		1
25	L-025	Refrigerator (150L)	A 2	2	2
37	L-037	Incubator (150L)	B 1	1	2
43	L-042	Tissue Culture Glove Box	B 1	1	1
44	L-043	Fume Hood(Draft chamber)	B 1		2
51	L-048	Centrifuge, Bench	A 1	1	1
64	L-061	Water Bath 12-16L	B 1	1	2
79	L-072	Hot Air Oven (250L)	B 1	1	2
103	L-092	Vacuum Pump	C 2		1
125	L-095	Automatic Body Embalment System	A 1	1	1
126	L-096	Body Preservation Locker For 10 Bodys	A 2	2	1
127	L-097	Dissecting Instrument Set	A 2	2	1
128	L-098	X-ray Film Cabinet	A 1	1	2
130	L-100	X-ray Viewer (Illuminator) - Standard	A 1	1	2
131	L-101	Portable X-ray Unit	A 1	1	2
132	L-102	X-ray Accessories	A 1	1	2
133	L-103	Cassette with intensifying screen	A 6	6	2
134		X-ray Protection Screen with Lead Glass	A 1		
	L-104	X-ray Protection apron set		3	2
135	L-105	Developing Tank	A 1	1	2
136	L-106	Automated Slide Stainer	C 1		1
137	L-107	Tissue-Tek Embedding Centre	C 1		1
139	L-109	Paraffin Trowel	C 1		1
140	L-110	Shaker for Tissue Fixation	C 1		1
141	L-111	Paraffin Oven	C 1		1
142	L-112	Slide Warmer	C 1		2
143		Microscopic Slide and Tissue Block Cabinet	C 1		
144	L-113	Microtome with Knives Set	A 2	2	1
145	L-114	Automatic Microtome Knife Sharpener	A 1	1	1
146	L-115	Stop Watch/ Clock	A 1	2	1
147	L-116	Interval Timers	A 1	1	1
148		Slide Book	C 1		
149		Electronic Dry Housing for Microscopes	C 60		
230	O-001	Camera Set		1	1
237	O-008	Educational TV and VCR Set	A 1		1
243	O-014	Laser Pointer	A 2	2	1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
251	O-023	Slide Viewer	A 1	1	1
259	O-029	Magiboards	A 1	1	1
262	O-032	Dehumidifier	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 8	4	1
273	L-146	Glassware Set	A 1	1	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Physiology					
Orig. No.	Item No.	Description	Physiology		Phase
			Rq.	Plan	
4	L-007	Research Microscope(FL, Ph/C, Pol Attach) with Photo system	A 1	1	1
7	L-010	Binocular Microscopes	B 7	7	1
11	L-014	Single Beam, Visible Light Spectrophotometer	B 1	1	2
16		Automated Coulter Full Blood Analyzer	C 1		
18	L-018	Electronic Precision balance (Readability 0.01g)	A 1	1	1
19	L-019	Electronic Balance (Range 0.01mg-100mg)	A 1	1	1
25	L-025	Refrigerator (150L)	A 1	1	2
37	L-037	Incubator (150L)	A 1	1	2
51	L-048	Centrifuge, Bench	A 1	1	1
61	L-058	pH Meters	A 1	1	2
63	L-060	Shaking Water Bath	C 1		2
64	L-061	Water Bath 12-16L	A 1	1	2
107	M-002	ECG Machine, 3CH	A 1	1	1
114	M-003	Hand Grip Dynamometer/Ergograph for Isometric Exercise Testing	A 1	1	1
115	M-004	Computerized Plethysmograph	A 1	1	1
116	M-005	Tilting Table, Manual	A 1	1	1
117	M-006	Electroencephalogram	A 1	1	1
118	M-007	Electroneurogram with Visual Evoked Potentials and EMG	A 1	1	1
119	M-008	Perimeter, Goldman	A 1	1	1
120	M-009	Audiometer, Screening	A 1	1	1
121	M-010	Automated Spirometer	A 1	1	1
122	M-011	Treadmill for Exercise Testing	B 1	1	1
123	M-012	Stethograph with Biorite	B 1	1	1
124		Physiograph	C 1		
146	L-115	Stop Watch/ Clock		2	1
147	L-116	Interval Timers	A 10	10	1
150	L-117	Digital Haemoglobinometer	C 1		2
152	L-118	Haematocrit Centrifuge	A 1	1	1
153	M-014	Silicon Resuscitation Bags	B 2	2	1
154	M-015	Length Scale	A 2	2	1
155	M-016	Instrument Tray Table with Castors	A 1	1	1
156	M-017	Examination Table	A 3	3	1
159	M-019	Electronic Weighing Scale	A 1	1	1
161	M-021	Diagnostic Sets (Auroscope & Ophthalmoscope)	DF+4		1
230	O-001	Camera Set		1	1
237	O-008	Educational TV and VCR Set	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
259	O-029	Magiboards	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 8	8	1
270	O-036	Audio Cassette Player with Speakers	A 1	1	1
273	L-146	Glassware Set	A 1	1	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Biochemistry										
Animal House										
Orig. No.	Item No.	Description	Biochemistry		Animal		Phase			
			Rq.	Plan	Rq.	Plan				
4	L-007	Research Microscope (FL, Ph/C, Pol Attach) with Photo system	A 1	1			1			
5	L-008	Inverted Tissue Culture Microscope	B 1	1			1			
7	L-010	Binocular Microscopes	A 1	1			1			
	L-015	Single Beam, Visible Light Spectrophotometer, with auto sampler		1			1			
14		Autoanalyzer for Blood Metabolites	B 1							
19	L-019	Electronic Balance (Range 0.01mg-100mg)		1			1			
22	L-022	Chest Freezer (-80C)	A 1	1			2			
25	L-025	Refrigerator (150L)	A 1	1			2			
33	L-034	Freeze Dryer	A 1	1			2			
35	L-035	Vacuum Concentrator	B 1	1			2			
41	L-040	CO2 Incubator (150L;5-50C)	A 1	1			2			
50	L-047	Microfuge	A 1	1			1			
51	L-048	Centrifuge, Bench	A 1	1			1			
52	L-049	Microtitre Plate Reader	C 1				2			
56	L-053	Automatic Pipettes Set	DF+1				1			
61	L-058	pH Meters		1			2			
63	L-060	Shaking Water Bath		1			2			
67	L-064	Electrophoresis Apparatus, Horizontal Gel Tank	C 1				2			
68	L-065	Mini Gel Apparatus with dryer and stainer	B 1	1			2			
69	L-066	Electrophoresis for Protein, Vertical Gel Apparatus	A 1				2			
	L-067	Electrophoresis for Protein with densitometer		1			1			
71	L-068	Transfer Apparatus for Gels	A 1	1			1			
82	L-075	Microwave Oven	DF+1				2			
84		Muffle Furnace (500-1000C)	A 1							
100	L-089	Washing Machine for Pipettes and Tubes with Brushes	DF+1				2			
101	L-090	Parasite Sonicator	B 1	1			2			
102	L-091	Magnetic Stirrer with Hot Plate		3			1			
146	L-115	Stop Watch/ Clock		2			1			
188	L-132	Mantel Heater		2			1			
192	L-135	Electric Furnace		1			1			
230	O-001	Camera Set		1			1			
237	O-008	Educational TV and VCR Set	A 1				1			
244	O-015	Desk Top Computer Set	A 1	1			1			
245	O-016	Laser Printer	A 1	1			1			
259	O-029	Magiboards	A 1	1			1			
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2			1			
267	O-035	Stabilizers	A 8	4			1			
273	L-146	Glassware Set	A 1	1			1			
274	L-147	Equipment For Animal House Set			B 1	1	1			

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Pathology					
Orig. No.	Item No.	Description	Pathology		Phase
			Rq.	Plan	
1	L-001	Teaching Microscope with 5 teaching attachment	B 1	1	1
2		CCTV System with 8 monitor, video camera, deck	A 1		
	L-004	CCTV System with 5 monitor, VCR		1	2
3	L-006	Research Microscope, trinocular with CCTV attachment	A 1	1	1
4	L-007	Research Microscope(FL, Ph/C, Pol Attach) with Photo system	A 3	3	1
5	L-008	Inverted Tissue Culture Microscope	A 1	1	1
7	L-010	Binocular Microscopes	B 60,DF+40		1
8	L-011	Biological Microscope	DF-40	40	1
9	L-012	Stereoscopic Zoom Microscope	A 1	1	1
11	L-014	Single Beam, Visible Light Spectrophotometer	B 1	1	2
14		Autoanalyzer for Blood Metabolites	C 1		
16		Automated Coulter Full Blood Analyzer	C 1		
17	L-017	Apparatus for Deionising Water	B 1	1	2
18	L-018	Electronic Precision balance (Readability 0.01g)	A 1	1	1
19	L-019	Electronic Balance (Range 0.01mg-100mg)	A 1	1	1
20	L-020	Cryostat with Knife	DF+1		1
21	L-021	Ultralow Freezer (-80C)	C 1		2
22	L-022	Chest Freezer (-80C)	A 1	1	2
25	L-025	Refrigerator (150L)	A 1	1	2
37	L-037	Incubator (150L)	A 1	1	2
42	L-041	Safety Cabinet, Class II	C 1		2
44	L-043	Fume Hood(Draft chamber)	A 1	1	2
48	L-045	Centrifuge, Refrigerated	C 1		1
49	L-046	Refrigerated Microfuge with Rotors	C 1		1
50	L-047	Microfuge	A 1	1	1
51	L-048	Centrifuge, Bench	A 1	1	1
56	L-053	Automatic Pipettes Set	A 4	4	1
57	L-054	Multi-channel Pipettes (8 channel) with Stand Set	A 2	2	1
60	L-057	Test tube Mixers	A 1	1	1
61	L-058	pH Meters	A 1	1	2
63	L-060	Shaking Water Bath	C 1		2
64	L-061	Water Bath 12-16L	A 1	1	2
67	L-064	Electrophoresis Apparatus, Horizontal Gel Tank	C 1		2
69	L-066	Electrophoresis for Protein, Vertical Gel Apparatus	A 1		2
	L-067	Electrophoresis for Protein with densitometer		1	1
71	L-068	Transfer Apparatus for Gels	A 1		1
79	L-072	Hot Air Oven (250L)	A 1	1	2
81	L-074	Drying Cabinet for Glassware and Instruments	B 1	1	2
82	L-075	Microwave Oven	A 1	1	2
86	L-078	Boiling Sterilizer (100C)	A 1	1	1
88	L-080	Front Loading Autoclave (50L)	A 1	1	2
91	L-083	Orbital Shakers (With Auto Reverse)	A 2	2	2
92	L-084	Rocking Platform with Base	A 1	1	2
98	L-088	Ultrasonic Pipette Washer	A 1	1	2
100	L-089	Washing Machine for Pipettes and Tubes with Brushes	A 1	1	2
102	L-091	Magnetic Stirrer with Hot Plate	A 2	2	1
110	L-094	Mixer for Small Container	A 2	2	1
127	L-097	Dissecting Instrument Set	A 2	2	1
129	L-099	X-ray Viewer (Large)	C 1		2
130	L-100	X-ray Viewer (Illuminator) - Standard	C 1		2

[Handwritten signatures and initials]

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Pathology					
Orig. No.	Item No.	Description	Pathology		Phase
			Rq.	Plan	
136	L-106	Automated Slide Stainer	A 1	1	1
137	L-107	Tissue-Tek Embedding Centre	A 1	1	1
138	L-108	Tissue Preprocessing Machine	A 1	1	1
139	L-109	Paraffin Trowel	A 1	1	1
140	L-110	Shaker for Tissue Fixation	C 1		1
141	L-111	Paraffin Oven	A 1	1	1
142	L-112	Slide Warmer	A 1	3	2
143		Microscopic Slide and Tissue Block Cabinet	C 1		
144	L-113	Microtome with Knives Set	A 2	2	1
145	L-114	Automatic Microtome Knife Sharpener	A 1	1	1
146	L-115	Stop Watch/ Clock	A 4	4	1
147	L-116	Interval Timers	A 4	4	1
148		Slide Book	C 4		
149		Electronic Dry Housing for Microscopes	C 5		
150	L-117	Digital Haemoglobinometer	B 1	1	2
152	L-118	Haematocrit Centrifuge	C 1		1
221	M-043	Angle Poised Lamp	C 2		1
230	O-001	Camera Set		1	1
232	O-003	Magnifying Glass with Handle (Hand Type)	A 4	4	1
237	O-008	Educational TV and VCR Set	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
243	O-014	Laser Pointer	A 1	1	1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
251	O-023	Slide Viewer	A 1	1	1
255	O-026	Paper Guillotine	A 1	1	1
256		Paper Shredder	C 1		
257	O-027	Epidiascope	B 1	1	1
258	O-028	Dictaphone and Recorders	B 1	1	1
259	O-029	Magiboards	A 3	3	1
262	O-032	Dehumidifier	A 1	1	1
263	O-033	Polaroid camera	B 1	1	2
264	L-141	Bone Marrow Trephine Biopsy Needles	A 3	3	2
265	L-142	Bone Marrow Aspiration Needles	A 3	3	2
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 8	4	1
272	L-145	Blood Cell Counting Chamber (WBC,RBC) with counter		1	1
273	L-146	Glassware Set	A 1	1	1
290	M-059	Liver & Kidney biopsy set	A 1	1	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Microbiology					
Orig. No.	Item No.	Description	Microbiology		Phase
			Rq.	Plan	
	2	CCTV System with 8 monitor, video camera, deck	A 1		
	L-003	CCTV System with 4 monitor, VCR		1	2
	3	L-006 Research Microscope, trinocular with CCTV attachment	A 1	1	1
	4	L-007 Research Microscope(FL, Ph/C, Pol Attach) with Photo system	A 2	2	1
	5	L-008 Inverted Tissue Culture Microscope	A 4	4	1
	6	L-009 Inverted Tissue Coulture Research Microscope with CCVT adaptor	B 1	1	1
	7	L-010 Binocular Microscopes	B 15	15	1
	8	L-011 Biological Microscope	C 2		1
	11	L-014 Single Beam, Visible Light Spectrophotometer	B 1	1	2
	17	L-017 Apparatus for Deionising Water	B 1	2	2
	18	L-018 Electronic Precision balance (Readability 0.01g)	A 2	2	1
	19	L-019 Electronic Balance (Range 0.01mg-100mg)	A 1	1	1
	21	L-021 Ultralow Freezer (-80C)	A 1	1	2
	22	L-022 Chest Freezer (-80C)	A 1,DF+1	1	2
	23	L-023 Freezers (-30C)	A 1	1	2
	24	L-024 Refrigerator (Double Door)	A 1	1	2
	25	L-025 Refrigerator (150L)	A 1	1	2
	26	L-026 Spark Free Refrigerator (100L)	B 1	1	2
	27	L-027 Bench Top Cooler upto 2.5C	B 2	2	2
	28	L-028 Bench Cooler upto -30C	B 2,DF-2	2	2
	30	L-030 Dewars for Specimen Storage in Liquid N2	B 3	3	2
	31	L-031 Liquid N2 Storage Vessels (on Stand with Castors)	B 2	2	2
	32	L-033 Liquid N2 Flasks	B 2	2	2
	34	Manifolds for Flasks	C 1		
	35	L-035 Vacuum Concentrator	B 1	1	2
	36	L-036 Incubator (200L, Double Door)	A 2	2	2
	37	L-037 Incubator (150L)	C 7,DF+4		2
	38	L-038 Floor Standing Incubators (250L)	A 2,DF-2	2	2
	39	L-039 Cold Incubators (Temp -20C to 30C), 150L	A 1,DF+2	1	2
	40	CO2 Incubator with, HEPA Filtration System	B 2		
	41	L-040 CO2 Incubator (150L;5-50C)	A 1	3	2
	42	L-041 Safety Cabinet, Class II	A 8	8	2
	44	L-043 Fume Hood(Draft chamber)	A 1	1	2
	46	Micro-Ultracentrifuge, 120000 rpm	C 1		
	48	L-045 Centrifuge, Refrigerated	B 2	2	1
	49	L-046 Refrigerated Microfuge with Rotors	B 2	2	1
	50	L-047 Microfuge	A 1	1	1
	51	L-048 Centrifuge, Bench	A 3	3	1
	52	L-049 Microtitre Plate Reader	A 1	1	2
	53	L-050 Automatic Microtitre Plate Washer	A 1	1	2
	54	L-051 Microtitre Plate Shaker	A 1	1	2
	55	L-052 Microtitre Plate Incubator	A 1	1	2
	56	L-053 Automatic Pipettes Set	A 6	6	1
	57	L-054 Multi-channel Pipettes (8 channel) with Stand Set	A 4	4	1
	58	L-055 Automatic Volume Dispensers Set	A 2	2	1
	60	L-057 Test tube Mixers	A 5	5	1
	61	L-058 pH Meters	A 2	2	2
	62	L-059 Hand held pH Meters	B 4	4	2
	63	L-060 Shaking Water Bath	A 2	2	2
	64	L-061 Water Bath 12-16L	A 5	5	2

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Equipment List for the Faculty of Medical Sciences

Department of Microbiology			Microbiology		Phase
Orig. No.	Item No.	Description	Microbiology		Phase
			Rq.	Plan	
65	L-062	Thermal Cycler	A 1	1	2
66	L-063	UV Transilluminator with Photographic Attachment	B 1	1	2
67	L-064	Electrophoresis Apparatus, Horizontal Gel Tank	B 2	2	2
68	L-065	Mini Gel Apparatus with dryer and stainer	A 1	1	2
69	L-066	Electrophoresis for Protein, Vertical Gel Apparatus	A 1	1	2
70		Sequencing apparatus with Power Pack (3000V)	C 1		
71	L-068	Transfer Apparatus for Gels	A 1	1	1
72	L-069	Vacuum blotting Apparatus	A 1	1	2
73		X-ray Film Processor	C 1		
74		Dot-Blot Apparatus	C 1		
75	L-070	Southern Blot Apparatus	A 1	1	2
76	L-071	Blotting Apparatus (large)	A 1	1	2
77		Hybridization Oven with Shaking Platform and Rotisserie	C 1		
78		Vacuum Oven with Vacuum Pump (30L)	C 1		
79	L-072	Hot Air Oven (250L)	A 3,DF-2	3	2
80	L-073	Drying Oven (50L)(Ambient-150C)	C 1		1
81	L-074	Drying Cabinet for Glassware and Instruments	A 1	1	2
82	L-075	Microwave Oven	A 2	2	2
83	L-076	Dry Block	A 2	2	2
86	L-078	Boiling Sterilizer (100C)	A 1	1	1
87	L-079	Top Loading Autoclave	A 1,DF+2	1	1
88	L-080	Front Loading Autoclave (50L)	A 2	2	2
89	L-081	Hand Held Short Wave (254nm) UV Light	A 1	1	2
91	L-083	Orbital Shakers (With Auto Reverse)	A 3	3	2
92	L-084	Rocking Platform with Base	A 2	2	2
93		Autoradiography Exposure Cassettes	C 4		
95	L-085	Gel Drying Apparatus	A 1	1	2
96	L-086	Reagent Grade Water System	B 1	1	2
97	L-087	Auto(Water) Still	A 1	1	2
98	L-088	Ultrasonic Pipette Washer	A 1	1	2
99		Ultrasonic Cleaner	C 1		
100	L-089	Washing Machine for Pipettes and Tubes with Brushes	A 1	1	2
102	L-091	Magnetic Stirrer with Hot Plate	A 4	4	1
104	L-093	Filter Assembly for Pure water	B 2	2	2
127	L-097	Dissecting Instrument Set	A 2	2	1
128	L-098	X-ray Film Cabinet		1	2
130	L-100	X-ray Viewer (Illuminator) - Standard	A 1	1	2
132	L-102	X-ray Accessories	A 4	1	2
133	L-103	Cassette with intensifying screen	A 3	3	2
	L-104	X-ray Protection apron set		3	2
135	L-105	Developing Tank	A 1	1	2
142	L-112	Slide Warmer	A 4	4	2
146	L-115	Stop Watch/ Clock	A 2	2	1
147	L-116	Interval Timers	A 4	4	1
148		Slide Book	C 1		
149		Electronic Dry Housing for Microscopes	C 5		
196	L-138	Colony Counter		1	2
221	M-043	Angle Poised Lamp	C 2		1
230	O-001	Camera Set		1	1
232	O-003	Magnifying Glass with Handle (Hand Type)	A 2	2	1

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Equipment List for the Faculty of Medical Sciences

Department of Microbiology			Microbiology		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
237	O-008	Educational TV and VCR Set	A 1		1
238	O-009	Slide Projector	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
243	O-014	Laser Pointer	A 2	2	1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
251	O-023	Slide Viewer	A 1	1	1
255	O-026	Paper Guillotine	B 1	1	1
257	O-027	Epidiascope	B 1	1	1
259	O-029	Magiboards	A 3	3	1
262	O-032	Dehumidifier	A 2	2	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 8	8	1
268		Automated, Electronic Colony Counter	A 1		
269	L-143	Rotary Inoculator	A 1	1	2
271	L-144	Fully Automatic, Computer Blood Culture	B 1	1	2
273	L-146	Glassware Set	A 1	1	1

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Equipment List for the Faculty of Medical Sciences

Department of Parasitology						
Orig. No.	Item No.	Description	Parasitology		Phase	
			Rq.	Plan		
2		CCTV System with 8 monitor, video camera, deck	A 1			
	L-002	CCTV System with 3 monitor, VCR		1	2	
4	L-007	Research Microscope (FL, Ph/C, Pol Attach) with Photo system	A 2	2	1	
5	L-008	Inverted Tissue Culture Microscope	A 1	1	1	
7	L-010	Binocular Microscopes	B 10	10	1	
8	L-011	Biological Microscope	C 4		1	
9	L-012	Stereoscopic Zoom Microscope	A 2	2	1	
16		Automated Coulter Full Blood Analyzer	C 1			
17	L-017	Apparatus for Deionising Water	B 1	1	2	
18	L-018	Electronic Precision balance (Readability 0.01g)	A 1	1	1	
19	L-019	Electronic Balance (Range 0.01mg-100mg)	A 1	1	1	
22	L-022	Chest Freezer (-80C)	A 1	1	2	
23	L-023	Freezers (-30C)	A 2	2	2	
24	L-024	Refrigerator (Double Door)	A 2	2	2	
25	L-025	Refrigerator (150L)	A 1	1	2	
30	L-030	Dewars for Specimen Storage in Liquid N2	B 2	1	2	
31	L-031	Liquid N2 Storage Vessels (on Stand with Castors)	B 2	2	2	
32	L-033	Liquid N2 Flasks	B 3	1	2	
37	L-037	Incubator (150L)	A 1	1	2	
38	L-038	Floor Standing Incubators (250L)	B 1	1	2	
41	L-040	CO2 Incubator (150L;5-50C)	A 1	1	2	
42	L-041	Safety Cabinet, Class II	C1,DF+1		2	
44	L-043	Fume Hood(Draft chamber)	A 1	1	2	
48	L-045	Centrifuge, Refrigerated	C 1		1	
49	L-046	Refrigerated Microfuge with Rotors	C 1		1	
50	L-047	Microfuge	A 1	1	1	
51	L-048	Centrifuge, Bench	A 1	1	1	
52	L-049	Microtitre Plate Reader	A 1	1	2	
53	L-050	Automatic Microtitre Plate Washer	A 1	1	2	
54	L-051	Microtitre Plate Shaker	A 1	1	2	
56	L-053	Automatic Pipettes Set	A 3	3	1	
57	L-054	Multi-channel Pipettes (8 channel) with Stand Set	A 2	2	1	
60	L-057	Test tube Mixers	A 1	1	1	
61	L-058	pH Meters	A 1	1	2	
62	L-059	Hand held pH Meters	A 1	1	2	
63	L-060	Shaking Water Bath	C 1		2	
64	L-061	Water Bath 12-16L	A 1	1	2	
69	L-066	Electrophoresis for Protein, Verticle Gel Apparatus	B 1	1	2	
71	L-068	Transfer Apparatus for Gels	A 1,DF-1	1	1	
76	L-071	Blotting Apparatus (large)	B 1	1	2	
79	L-072	Hot Air Oven (250L)	A 1	1	2	
80	L-073	Drying Oven (50L)(Ambient-150C)	C 1		1	
81	L-074	Drying Cabinet for Glassware and Instruments	B 1	1	2	
82	L-075	Microwave Oven	A 1	1	2	
86	L-078	Boiling Sterilizer (100C)	A 1	1	1	
87	L-079	Top Loading Autoclave	A 1	1	1	
88	L-080	Front Loading Autoclave (50L)	A 1	1	2	
90	L-082	UV-Rays Lamp	B 1	1	1	
95	L-085	Gel Drying Apparatus	A 1	1	2	
97	L-087	Auto(Water) Still	A 1	1	2	

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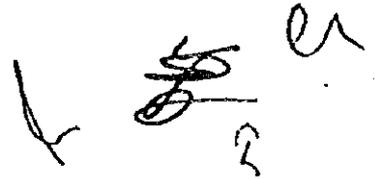
Equipment List for the Faculty of Medical Sciences

Department of Parasitology					
Orig. No.	Item No.	Description	Parasitology		Phase
			Rq.	Plan	
98	L-088	Ultrasonic Pipette Washer	A 1	1	2
100	L-089	Washing Machine for Pipettes and Tubes with Brushes	A 1	1	2
101	L-090	Parasite Sonicator	B 1	1	2
102	L-091	Magnetic Stirrer with Hot Plate	A 2	2	1
104	L-093	Filter Assembly for Pure water	B 1		2
146	L-115	Stop Watch/ Clock	A 2	2	1
147	L-116	Interval Timers	A 2	2	1
149		Electronic Dry Housing for Microscopes	C 5		
230	O-001	Camera Set		1	1
232	O-003	Magnifying Glass with Handle (Hand Type)	A 4	4	1
237	O-008	Educational TV and VCR Set	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
243	O-014	Laser Pointer	A 2	2	1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
251	O-023	Slide Viewer	A 1	1	1
257	O-027	Epidiascope	B 1	1	1
259	O-029	Magiboards	A 3	3	1
262	O-032	Dehumidifier	A 2	2	1
263	O-033	Polaroid camera	B 1	1	2
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 8	4	1
273	L-146	Glassware Set	A 1	1	1

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Equipment List for the Faculty of Medical Sciences

Student Laboratory for Parasitology and Microbiology					
Orig. No.	Item No.	Description	Student lab		Phase
			Rq.	Plan	
	2i	CCTV System with 8 monitor, video camera, deck	A 1		
	iL-004	CCTV System with 5 monitor, VCR		1	2
	3iL-006	Research Microscope, trinocular with CCTV attachment	A 1	1	1
	7iL-010	Binocular Microscopes	A 60	30	1
259	O-029	Magiboards	A 1	1	1
262	O-032	Dehumidifier		1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 2	2	1
273	L-146	Glassware Set	A 1	1	1



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Equipment List for the Faculty of Medical Sciences

Department of Pharmacology					
Orig. No.	Item No.	Description	Pharmacology		Phase
			Rq.	Plan	
7	L-010	Binocular Microscopes	A 1	1	1
17	L-017	Apparatus for Deionising Water	A 1	1	2
18	L-018	Electronic Precision balance (Readability 0.01g)	A 1	1	1
19	L-019	Electronic Balance (Range 0.01mg-100mg)	A 1	1	1
21	L-021	Ultralow Freezer (-80C)	B 1	1	2
30	L-030	Dewars for Specimen Storage in Liquid N2	B 1		2
31	L-031	Liquid N2 Storage Vessels (on Stand with Castors)	B 1		2
	L-032	Liquid N2 Storage Vessels (Portable for transportation)		1	2
32	L-033	Liquid N2 Flasks	B 1		2
35	L-035	Vacuum Concentrator	C 1		2
37	L-037	Incubator (150L)	A 1	1	2
43	L-042	Tissue Culture Glove Box	C 1		1
44	L-043	Fume Hood(Draft chamber)		1	2
47		Centrifuge, Cold, High Speed	C 1		
56	L-053	Automatic Pipettes Set	A 1	1	1
57	L-054	Multi-channel Pipettes (8 channel) with Stand Set	A 1	1	1
60	L-057	Test tube Mixers	A 1	1	1
61	L-058	pH Meters	A 3	3	2
62	L-059	Hand held pH Meters	A 1	1	2
64	L-061	Water Bath 12-16L	A 2	2	2
78		Vacuum Oven with Vacuum Pump (30L)	C 1		
79	L-072	Hot Air Oven (250L)	A 1	1	2
80	L-073	Drying Oven (50L)(Ambient-150C)	A 1	1	1
81	L-074	Drying Cabinet for Glassware and Instruments	A 1	1	2
83	L-076	Dry Block	C 1		2
86	L-078	Boiling Sterilizer (100C)	A 1	1	1
87	L-079	Top Loading Autoclave	A 1	1	1
90	L-082	UV-Rays Lamp	B 1	1	1
91	L-083	Orbital Shakers (With Auto Reverse)	A 1	2	2
97	L-087	Auto(Water) Still	A 1	1	2
98	L-088	Ultrasonic Pipette Washer	A 1	1	2
99		Ultrasonic Cleaner	C 1		
102	L-091	Magnetic Stirrer with Hot Plate	A 3	3	1
103	L-092	Vacuum Pump	A 4	4	1
104	L-093	Filter Assembly for Pure water	C 1		2
107	M-002	ECG Machine, 3CH	C 1		1
108		Cardiac Bedside Monitor	C 1		
109		Treatment Carriage	C 3		
110	L-094	Mixer for Small Container	A 10	10	1
113		Solvent System	C 1		
174	L-119	Melting Point Apparatus	A 1	1	1
175	L-120	Disintegration Testing System	A 1	1	1
176	L-121	Tablet Friability and Friction Tester	A 1	1	1
177	L-122	Hardness Tester of Tablets	A 1	1	1
178	L-123	Sieve Shaker	A 1	1	1
179	L-124	Sieve	A 1	1	1
180	L-125	Moisture Content Measuring Equipment	A 1	1	1
181	L-126	Small Grinding Mill	A 1	1	1
182	L-127	Electric Ball Mill	A 1	1	1
183	L-128	Mill for Analysis	A 1	1	1

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Equipment List for the Faculty of Medical Sciences

Department of Pharmacology					
Orig. No.	Item No.	Description	Pharmacology		Phase
			Rq.	Plan	
184	L-129	Oil Bath	A	1	1
185	L-130	Trough	A 1	1	1
186	L-131	Shaker for Separating Funnel	A 1	1	1
187		Shaker	A 1		
188	L-132	Mantel Heater	A 1	1	1
189	L-133	Aspirator	A 1	1	1
190	L-134	Volt Slider	A 1	1	1
191		Draft Chamber	B 1		
192	L-135	Electric Furnace	A 1	1	1
193	L-136	Polarimeter	A 1	1	1
194	L-137	Refractometer	A 1	1	1
195		Air Compressors	C 2		
196	L-138	Colony Counter	A 1	1	2
197	L-139	Thermal Hygrograph, With Recorder	A 1	1	1
198		Planetary Mixer - Pilot Scale Capacity 5kg	A 1		
199		Oscillating Granulator - Pilot Scale Capacity 5kg	A 1		
200		Drum Mixture - Pilot Scale Capacity 10L	A 1		
201		Tray Drying Oven - Pilot Scale Capacity 5kg	A 1		
202		Tableting Machine	A 1		
203		Punches for Tableting Machine 10mm Flat/Beveled/Bracketed	A 1		
204		Punches for Tableting Machine 6mm Double Concave	A 1		
205		Coating Pan - Sugar - Pilot Scale Capacity 5kg	A 1		
206		Capsule filling Machine - Manual 100 Caps per Fill	A 1		
207		Volt Slider	C 1		
208	L-140	Viscometer	A 1	1	1
230	O-001	Camera Set		1	1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
259	O-029	Magboards	A 1	1	1
262	O-032	Dehumidifier	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 8	4	1
273	L-146	Glassware Set	A 1	1	1

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Equipment List for the Faculty of Medical Sciences

Department of Forensic Medicine			Forensic		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
1	L-001	Teaching Microscope with 5 teaching attachment	B 1		1
2		CCTV System with 8 monitor, video camera, deck	A 1		
	L-003	CCTV System with 4 monitor, VCR		1	2
3	L-006	Research Microscope, Trinocular with CCTV attachment		1	1
7	L-010	Binocular Microscopes	A 4	4	1
9	L-012	Stereoscopic Zoom Microscope	A 1	1	1
20	L-020	Cryostat with Knife	B 1	1	1
23	L-023	Freezers (-30C)	A 1	1	2
25	L-025	Refrigerator (150L)	A 2	2	2
37	L-037	Incubator (150L)	B 1	1	2
42	L-041	Safety Cabinet, Class II	C 1		2
51	L-048	Centrifuge, Bench	A 1	1	1
56	L-053	Automatic Pipettes Set	A 1	1	1
58	L-055	Automatic Volume Dispensers Set	A 1	1	1
60	L-057	Test tube Mixers	A 1	1	1
61	L-058	pH Meters	A 1	1	2
62	L-059	Hand held pH Meters	A 1	1	2
64	L-061	Water Bath 12-16L	A 1	1	2
79	L-072	Hot Air Oven (250L)	A 1	1	2
80	L-073	Drying Oven (50L)(Ambient-150C)	A 1	1	1
81	L-074	Drying Cabinet for Glassware and Instruments	A 1	1	2
85	L-077	Hot Plate	A 1	1	1
86	L-078	Boiling Sterilizer (100C)	A 1	1	1
87	L-079	Top Loading Autoclave	A 1	1	1
97	L-087	Auto(Water) Still	A 1	1	2
102	L-091	Magnetic Stirrer with Hot Plate	A 1	1	1
103	L-092	Vacuum Pump	B 1	1	1
127	L-097	Dissecting Instrument Set	A 4	4	1
129	L-099	X-ray Viewer (Large)	A 1	1	2
138	L-108	Tissue Preprocessing Machine	A 1	1	1
139	L-109	Paraffin Trowel	A 1	1	1
140	L-110	Shaker for Tissue Fixation	A 1	1	1
141	L-111	Paraffin Oven	A 1	1	1
143		Microscopic Slide and Tissue Block Cabinet	C 1		
144	L-113	Microtome with Knives Set	A 2	2	1
145	L-114	Automatic Microtome Knife Sharpener	A 1	1	1
146	L-115	Stop Watch/ Clock	A 4	4	1
147	L-116	Interval Timers	A 2	2	1
221	M-043	Angle Poised Lamp	C 2		1
230	O-001	Camera Set		1	1
232	O-003	Magnifying Glass with Handle (Hand Type)	A 4	4	1
237	O-008	Educational TV and VCR Set	A 1		1
238	O-009	Slide Projector	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
251	O-023	Slide Viewer	A 1	1	1
255	O-026	Paper Guillotine	B 1	1	1

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Equipment List for the Faculty of Medical Sciences

Department of Forensic Medicine			Forensic		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
257	O-027	Epidiascope	A 1	1	1
259	O-029	Magiboards	A 1	1	1
262	O-032	Dehumidifier	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 4	4	1
273	L-146	Glassware Set	A 1	1	1

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Equipment List for the Faculty of Medical Sciences

Department of Medicine			Medicine		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
7	L-010	Binocular Microscopes	A 1	1	1
18	L-018	Electronic Precision balance (Readability 0.01g)	A 1	1	1
19	L-019	Electronic Balance (Range 0.01mg-100mg)	B 1	1	1
25	L-025	Refrigerator (150L)	A 1	1	2
37	L-037	Incubator (150L)	B 1	1	2
41	L-040	CO2 Incubator (150L;5-50C)	B 1	1	2
42	L-041	Safety Cabinet, Class II	C 1		2
48	L-045	Centrifuge, Refrigerated	C 1		1
50	L-047	Microfuge	C 1		1
51	L-048	Centrifuge, Bench	A 1	1	1
56	L-053	Automatic Pipettes Set	A 1	1	1
59	L-056	Dilutors	C 1		2
61	L-058	pH Meters	A 1	1	2
64	L-061	Water Bath 12-16L	A 1	1	2
79	L-072	Hot Air Oven (250L)	A 1	1	2
81	L-074	Drying Cabinet for Glassware and Instruments	B 1	1	2
85	L-077	Hot Plate	A 1	1	1
91	L-083	Orbital Shakers (With Auto Reverse)	A 1	1	2
106	M-001	Portable Echocardiograph	A 1	1	1
107	M-002	ECG Machine, 3CH		1	1
117	M-006	Electroencephalogram	B 1	1	1
118	M-007	Electroneurogram with Visual Evoked Potentials and EMG	B 1	1	1
121	M-010	Automated Spirometer		1	1
122	M-011	Treadmill for Exercise Testing	C 1		1
130	L-100	X-ray Viewer (Illuminator) - Standard		2	2
146	L-115	Stop Watch/ Clock	A 1	2	1
153	M-014	Silicon Resuscitation Bags		2	1
154	M-015	Length Scale		2	1
155	M-016	Instrument Tray Table with Castors		2	1
156	M-017	Examination Table		2	1
159	M-019	Electronic Weighing Scale		2	1
161	M-021	Diagnostic Sets (Auroscope & Ophthalmoscope)		2	1
209	M-034	Ophthalmoscope		2	1
210	M-035	Defibrillator with monitor	A 1	1	1
211		Portable Vitalograph Machine	A 1		
212	M-036	Pulse Oximeter	A 1	1	1
213	M-037	Infusion Pump	A 3	3	1
214		Oesophageal pH Monitor	C 1		
215	M-038	Patient monitor(ECG and BP)	A 1	2	1
216		Weighing Machines	A 1		
217	M-039	Examination Bed For Gynecology		2	1
220	M-042	Hand Lamp		1	1
221	M-043	Angle Poised Lamp		2	1
225	M-046	Suction unit		2	1
226	M-047	Nebuliser		2	1
230	O-001	Camera Set		1	1
237	O-008	Educational TV and VCR Set	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Medicine					
Orig. No.	Item No.	Description	Medicine		Phase
			Rq.	Plan	
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
258	O-028	Dictaphone and Recorders	B 1	1	1
259	O-029	Magiboards	A 1	1	1
262	O-032	Dehumidifier	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 2	4	1
273	L-146	Glassware Set	A 1	1	1
295	M-063	Diagnostic set for Medicine	A 1	1	1

ANNEX I-1
Equipment List for the Faculty of Medical Sciences

Department of Surgery					
Orig. No.	Item No.	Description	Surgery		Phase
			Rq.	Plan	
7	L-010	Binocular Microscopes	A 1	1	1
19	L-019	Electronic Balance (Range 0.01mg-100mg)	A 1	1	1
25	L-025	Refrigerator (150L)	A 1	1	2
37	L-037	Incubator (150L)	B 1	1	2
41	L-040	CO2 Incubator (150L;5-50C)	B 1	1	2
42	L-041	Safety Cabinet, Class II	C 1		2
48	L-045	Centrifuge, Refrigerated	C 1		1
50	L-047	Microfuge	C 1		1
51	L-048	Centrifuge, Bench	A 1	1	1
56	L-053	Automatic Pipettes Set	A 1	1	1
59	L-056	Dilutors	C 1		2
61	L-058	pH Meters	A 1	1	2
64	L-061	Water Bath 12-16L	A 1	1	2
79	L-072	Hot Air Oven (250L)	A 1	1	2
81	L-074	Drying Cabinet for Glassware and Instruments	B 1	1	2
85	L-077	Hot Plate	A 1	1	1
91	L-083	Orbital Shakers (With Auto Reverse)	A 1	1	2
130	L-100	X-ray Viewer (Illuminator) - Standard		2	2
146	L-115	Stop Watch/ Clock	A 1	2	1
153	M-014	Silicon Resuscitation Bags		2	1
154	M-015	Length Scale		2	1
155	M-016	Instrument Tray Table with Castors		2	1
156	M-017	Examination Table		2	1
159	M-019	Electronic Weighing Scale		2	1
161	M-021	Diagnostic Sets (Auroscope & Ophthalmoscope)		2	1
209	M-034	Ophthalmoscope		2	1
210	M-035	Defibrillator with monitor		1	1
213	M-037	Infusion Pump		3	1
215	M-038	Patient monitor(ECG and BP)		2	1
217	M-039	Examination Bed For Gynecology		2	1
218	M-040	Surgical Bed for Minor Surgery, Manual		1	1
220	M-042	Hand Lamp		1	1
221	M-043	Angle Poised Lamp		2	1
225	M-046	Suction unit		2	1
228	M-048	Electric Cautery For Skin		1	1
230	O-001	Camera Set		1	1
237	O-008	Educational TV and VCR Set	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
258	O-028	Dictaphone and Recorders	B 1	1	1
259	O-029	Magiboards	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 2	4	1
273	L-146	Glassware Set	A 1	1	1
294	M-062	Diagnostic set for Surgery	A 1	1	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Pediatrics					
Orig. No.	Item No.	Description	Paediatrics		Phase
			Rq.	Plan	
7	L-010	Binocular Microscopes	A 1	1	1
11	L-014	Single Beam, Visible Light Spectrophotometer	B 1	1	2
19	L-019	Electronic Balance (Range 0.01mg-100mg)	A 1	1	1
25	L-025	Refrigerator (150L)	A 1	1	2
37	L-037	Incubator (150L)	A 1	1	2
48	L-045	Centrifuge, Refrigerated	C 1		1
50	L-047	Microfuge	C 1		1
51	L-048	Centrifuge, Bench	A 1	1	1
56	L-053	Automatic Pipettes Set	A 1	1	1
59	L-056	Dilutors	C 1		2
61	L-058	pH Meters	A 1	1	2
64	L-061	Water Bath 12-16L	A 1	1	2
79	L-072	Hot Air Oven (250L)	A 1	1	2
81	L-074	Drying Cabinet for Glassware and Instruments	B 1	1	2
85	L-077	Hot Plate	A 1	1	1
91	L-083	Orbital Shakers (With Auto Reverse)	A 1	1	2
130	L-100	X-ray Viewer (Illuminator) - Standard		2	2
146	L-115	Stop Watch/ Clock	A 1	2	1
152	L-118	Haematocrit Centrifuge	A 1	1	1
153	M-014	Silicon Resuscitation Bags		2	1
154	M-015	Length Scale		2	1
155	M-016	Instrument Tray Table with Castors		2	1
156	M-017	Examination Table		2	1
157		Measuring Rod For Height	A 2		
158	M-018	Infant Length Scale	A 2	2	1
159	M-019	Electronic Weighing Scale	A 2	2	1
160	M-020	Infant Weighing Scale	A 2	2	1
161	M-021	Diagnostic Sets (Auroscope & Ophthalmoscope)	A 3	3	1
162	M-022	Skinfold Thickness Calipers	A 2	2	1
163	M-023	Bilirubin Analyzer	A 1	1	1
209	M-034	Ophthalmoscope		2	1
212	M-036	Pulse Oximeter		2	1
213	M-037	Infusion Pump		3	1
215	M-038	Patient monitor(ECG and BP)		2	1
217	M-039	Examination Bed For Gynecology		2	1
220	M-042	Hand Lamp		1	1
221	M-043	Angle Poised Lamp		2	1
225	M-046	Suction unit		2	1
226	M-047	Nebuliser		2	1
230	O-001	Camera Set		1	1
237	O-008	Educational TV and VCR Set	A 1		1
238	O-009	Slide Projector	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
251	O-023	Slide Viewer	A 1	1	1
257	O-027	Epidiascope	B 1	1	1
258	O-028	Dictaphone and Recorders	B 1	1	1

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ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Pediatrics					
Orig. No.	Item No.	Description	Paediatrics		Phase
			Rq.	Plan	
259	O-029	Magiboards	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 2	4	1
273	L-146	Glassware Set	A 1	1	1
276		Ultrasonic Nebulizers	A 2		
277	M-050	Phototherapy Unit	A 3	3	1
278		Automatic Infusion Pumps	A 3		
279	M-051	Syringe Infusion Pumps	A 3	3	1
280	M-052	Infant Resuscitator and Accessories	A 1	1	1
281	M-053	Infant Transport Incubators	A 2	2	1
282	M-054	Oxygen Hood	A 2	2	1
283		Suction Apparatus	A 2		
284		Cardiac Monitor	A 2		
285	M-055	Apnea Monitor	A 2	2	1
286	M-056	Infant Examination Table	A 2	2	1
287	M-057	Infant Pressure Cycled Ventilator	A 2	2	1
288	M-058	Oxygen Analyzer	A 2	2	1
289		Pulse Oximeter	A 2		
290	M-059	Liver & Kidney biopsy set	A 1	1	1
296	M-064	Diagnostic set for Paediatrics	A 1	1	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Obstetrics and Gynecology			ObGyne		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
7	L-010	Binocular Microscopes	A 1	1	1
19	L-019	Electronic Balance (Range 0.01mg-100mg)	A 1	1	1
25	L-025	Refrigerator (150L)	A 1	1	2
37	L-037	Incubator (150L)	B 1	1	2
41	L-040	CO2 Incubator (150L;5-50C)	C 1		2
42	L-041	Safety Cabinet, Class II	C 1		2
48	L-045	Centrifuge, Refrigerated	C 1		1
49	L-046	Refrigerated Microfuge with Rotors	C 1		1
50	L-047	Microfuge	C 1		1
51	L-048	Centrifuge, Bench	A 1	1	1
56	L-053	Automatic Pipettes Set	A 1	1	1
59	L-056	Dilutors	C 1		2
61	L-058	pH Meters	A 1	1	2
64	L-061	Water Bath 12-16L	A 1	1	2
79	L-072	Hot Air Oven (250L)	A 1	1	2
81	L-074	Drying Cabinet for Glassware and Instruments	B 1	1	2
85	L-077	Hot Plate	A 1	1	1
91	L-083	Orbital Shakers (With Auto Reverse)	A 1	1	2
130	L-100	X-ray Viewer (Illuminator) - Standard		2	2
146	L-115	Stop Watch/ Clock	A 1	2	1
153	M-014	Silicon Resuscitation Bags		2	1
154	M-015	Length Scale		2	1
155	M-016	Instrument Tray Table with Castors		2	1
156	M-017	Examination Table		2	1
159	M-019	Electronic Weighing Scale		2	1
161	M-021	Diagnostic Sets (Auroscope & Ophthalmoscope)		2	1
164	M-024	Hysteroscope with Resection Equipment	A 1	1	1
165	M-025	Colposcope	A 1	1	1
166	M-026	Cryo-cautary	A 1	1	1
168	M-028	Bipolar Diathermy	A 1	1	1
169	M-029	Doppler Fetal Heart Monitor (Portable)	A 3	3	1
170	M-030	Cardio-toco-graph	A 1	3	1
209	M-034	Ophthalmoscope		2	1
213	M-037	Infusion Pump		3	1
215	M-038	Patient monitor(ECG and BP)		2	1
217	M-039	Examination Bed For Gynecology		2	1
220	M-042	Hand Lamp		1	1
221	M-043	Angle Poised Lamp		2	1
225	M-046	Suction unit		2	1
226	M-047	Nebuliser		2	1
230	O-001	Camera Set		1	1
237	O-008	Educational TV and VCR Set	A 1		1
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
258	O-028	Dictaphone and Recorders	B 1	1	1
259	O-029	Magiboards	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1

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ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Obstetrics and Gynecology					
Orig. No.	Item No.	Description	ObGyne		Phase
			Rq.	Plan	
267	O-035	Stabilizers	A 2	4	1
273	L-146	Glassware Set	A 1	1	1
297	M-065	Diagnostic set for Obstetrics & Gynecology	A 1	1	1

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ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Psychiatry					
Orig. No.	Item No.	Description	Psychiatry		Phase
			Rq.	Plan	
25	L-025	Refrigerator (150L)	A 1	1	2
130	L-100	X-ray Viewer (Illuminator) - Standard		2	2
153	M-014	Silicon Resuscitation Bags		2	1
159	M-019	Electronic Weighing Scale		2	1
161	M-021	Diagnostic Sets (Auroscope & Ophthalmoscope)		2	1
209	M-034	Ophthalmoscope	A 1	1	1
221	M-043	Angle Poised Lamp		1	1
230	O-001	Camera Set	A 1	1	1
236	O-007	Observation TV and Camera Set With VCR	A 1	1	2
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
258	O-028	Dictaphone and Recorders	B 1	1	1
259	O-029	Magiboards	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 2	4	1
293	M-061	Diagnostic set for Psychiatry	A 1	1	1

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ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Department of Family Medicine and Community Medicine					
Orig. No.	Item No.	Description	Family Community		Phase
			Rq.	Plan	
7	L-010	Binocular Microscopes	A 2	2	1
11	L-014	Single Beam, Visible Light Spectrophotometer	A 1	1	2
16		Automated Coulter Full Blood Analyzer	C 1		
24	L-024	Refrigerator (Double Door)	A 2	2	2
51	L-048	Centrifuge, Bench	A 1	1	1
56	L-053	Automatic Pipettes Set	A 1	1	1
64	L-061	Water Bath 12-16L	A 1	1	2
79	L-072	Hot Air Oven (250L)	A 1	1	2
86	L-078	Boiling Sterilizer (100C)	A 1	1	1
87	L-079	Top Loading Autoclave	A 2	2	1
130	L-100	X-ray Viewer (Illuminator) - Standard		2	2
146	L-115	Stop Watch/ Clock		2	1
152	L-118	Haematocrit Centrifuge	A 1	1	1
153	M-014	Silicon Resuscitation Bags		2	1
155	M-016	Instrument Tray Table with Castors	A 4	4	1
156	M-017	Examination Table	A 4	4	1
159	M-019	Electronic Weighing Scale		2	1
169	M-029	Doppler Fetal Heart Monitor (Portable)		1	1
210	M-035	Defibrillator with monitor		1	1
217	M-039	Examination Bed For Gynecology	A 1	1	1
218	M-040	Surgical Bed for Minor Surgery, Manual	A 1	1	1
219	M-041	Small Operating Theatre Lamp Mobile	A 1	1	1
220	M-042	Hand Lamp	A 4	4	1
221	M-043	Angle Poised Lamp	A 2	2	1
222	M-044	Diagnostic Set For Community and Family Medicine	A 3	3	1
223		Foetal Heart Detector (Doppler)	A 1		
224	M-045	Proctoscope with Light Source	A 1	1	1
225	M-046	Suction unit	A 1	1	1
226	M-047	Nebuliser	A 1	1	1
227		Portable Defibrillator	B 1		
228	M-048	Electric Cautery For Skin	A 1	1	1
229	M-049	Infra Red Lamp	A 1	1	1
230	O-001	Camera Set		1	1
236	O-007	Observation TV and Camera Set With VCR	A 1	1	2
239	O-010	Overhead Projector	A 1		1
240	O-011	Projector Screens	A 1		1
241	O-012	Laptop Computer		2	1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
259	O-029	Magiboards	A 1	1	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 4	4	1
272	L-145	Blood Cell Counting Chamber (WBC,RBC) with counter	A 5	5	1
273	L-146	Glassware Set	A 1	1	1
291	M-060	Mini-bus, 20 to 30 sheets capacity	A 1	1	1
292		Transport vehicle	A 1		

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Administration							
Department of Medical Education and Health Sciences							
Orig. No.	Item No.	Description	Education		Admini		Phase
			Rq.	Plan	Rq.	Plan	
244	O-015	Desk Top Computer Set			A 3	3	1
245	O-016	Laser Printer			A 2	2	1
250	O-022	Electronic Type Writer with Memory (English)			B 2	2	1
252		Electronic Stencil Scanning Machine			B 1		
255	O-026	Paper Guillotine			C 1		1
256		Paper Shredder			C 1		
259	O-029	Magiboards			A 3	3	1
266	O-034	Uninterrupted Power Supply (UPS)			A 3	3	1
267	O-035	Stabilizers			A 2	3	1
275	O-037	Anatomical Models and Simulators Set	A 1	1			1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Library							
Auditorium							
Orig. No.	Item No.	Description	Audio		Library		Phase
			Rq.	Plan	Rq.	Plan	
235	O-006	Audio Visual Set For Auditorium	A 1	1			2
238	O-009	Slide Projector	A 2				1
239	O-010	Overhead Projector	A 1				1
240	O-011	Projector Screens	A 1				1
244	O-015	Desk Top Computer Set			A 5	10	1
245	O-016	Laser Printer			A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)			B 1	1	1
252		Electronic Stencil Scanning Machine			B 1		
255	O-026	Paper Guillotine			B 2	2	1
256		Paper Shredder			C 1		
259	O-029	Magiboards	A 1	1	A 2	2	1
266	O-034	Uninterrupted Power Supply (UPS)	A 2	3	A 2	10	1
267	O-035	Stabilizers	A 2	3	A 2	10	1

ANNEX I-1

Equipment List for the Faculty of Medical Sciences

Medical Illustration Unit			Illust		Phase
Orig. No.	Item No.	Description	Rq.	Plan	
24	L-024	Refrigerator (Double Door)	A 1	1	2
129	L-099	X-ray Viewer (Large)	A 1	1	2
130	L-100	X-ray Viewer (Illuminator) - Standard	A 1	1	2
230	O-001	Camera Set	A 3	3	1
231	O-002	Illustration Making Set	A 1	1	1
232	O-003	Magnifying Glass with Handle (Hand Type)	A 1	1	1
233	O-004	Teaching Video Making Set	A 1	1	1
234	O-005	Computer Facility for Slide Making	A 1	1	1
238	O-009	Slide Projector	A 1		1
240	O-011	Projector Screens	A 1		1
244	O-015	Desk Top Computer Set	A 1	1	1
245	O-016	Laser Printer	A 1	1	1
250	O-022	Electronic Type Writer with Memory (English)	B 1	1	1
252		Electronic Stencil Scanning Machine	B 1		
253	O-024	Binding Machine (ring binding)	A 1	1	1
254	O-025	Laminating machine	A 1	1	1
255	O-026	Paper Guillotine	A 1	1	1
256		Paper Shredder	C 1		
259	O-029	Magiboards	A 1	1	1
261	O-031	Split-Type Airconditioners	B 2	2	2
266	O-034	Uninterrupted Power Supply (UPS)	A 2	2	1
267	O-035	Stabilizers	A 1	2	1

ANNEX 1-2

Additional equipment list for the Faculty of Medical Sciences,
the University of Sri Jayewardenepura

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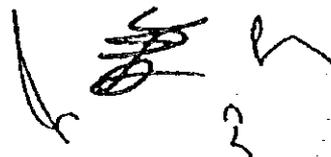
ANNEX I-2

Additional equipment list for the Faculty of Medical Sciences

Department	Item No.	Description	Q'ty	Remarks
Physiology	M-021	Diagnostic sets(Auroscope & Ophthalmoscope)	4	
Biochemistry	L-053	Automatic Pipettes set	1	
	L-075	Microwave Oven	1	
	L-089	Washing Machine for Pipettes and Test Tube	1	
Animal House	L-147	Add Manual type Feed machine instead of Automatic	1	
Pathology	L-010	Binocular Microscope	40	Instead of L-11, As original request
	L-011	Biological Microscope	-40	Cancel
	L-020	Cryostat with knife	1	Can't share with Forensic Medicine
Microbiology	L-022	Chest freezer(-80C)	1	
	L-028	Bench Cooler upto -30deg. C	-2	Change Item to L-039
	L-039	Cold Incubator(Temp.-20 to 30 C), 150L	2	Add 2 units instead of L-028
	L-038	Floor standing Incubators(250L)	-2	Change item to L-037
	L-037	Incubator(150L)	4	Add 4 units instead of L-038
	L-072	Hot Air Oven(250L)	-2	Change Item to L-079
	L-079	Top Loading Autoclave	2	Add 2 units instead of L-072
Parasitology	L-041	Safety cabinet, Class II	1	
	L-068	Transfer Apparatus for gel	-1	Cancel

ANNEX 1-3

Equipment Additionally requested by the Government of Sri Lanka
for Undergraduate Clinical Training at Colombo South Teaching Hospital



ANNEX I-3

Equipment Additionally requested by the Government of Sri Lanka for Undergraduate Clinical Training at Colombo South Teaching Hospital

Related Faculty		Description	Q'ty	Priority
Clinical Department	Destination			
Surgery	Operation Theatre	Autoclave, 150L	2	A
Surgery	Operation Theatre	Linen washing and dryer	1	A
Surgery	Operation Theatre	Refrigerator	1	B
Surgery	Operation Theatre	Electrosurgical unit	2	B
Surgery	Operation Theatre	Nerve stimulator	1	C
Surgery	Operation Theatre	Cupboard for instrument	1	C
Surgery	Operation Theatre	Suction unit	4	B
Surgery	Operation Theatre	Defibrillator	1	B
Surgery	Operation Theatre	Instrument trolley	10	C
Surgery	Operation Theatre	Autoclave high speed	3	A
Surgery	Operation Theatre	Sterilizer (boiling)	5	B
Surgery	Operation Theatre	Stretcher with IV, Oxygen	3	A
Surgery	Operation Theatre	Cupboard for students	2	B
Surgery	Operation Theatre	Laryngoscope set, matchintosh (0-5)	1	B
Surgery	Operation Theatre	Syringe pump	1	C
Surgery	Operation Theatre	Surgical instrument set for abdominal	2	A
Surgery	Operation Theatre	Surgical instrument set for Chest	2	A
Surgery	Operation Theatre	Surgical instrument set for Gastrectomy	2	A
Surgery	Operation Theatre	Laparoscope, operative	1	B
Surgery	Operation Theatre	Operation table	3	A
Surgery	Accidental Emergency	Universal Operation table with orthopedics accessory	1	A
Surgery	Accidental Emergency	Suction unit	1	A
Surgery	Accidental Emergency	Patient monitor	1	A
Surgery	Accidental Emergency	Electrosurgical unit	1	A
Surgery	Accidental Emergency	Plaster table	1	A
Surgery	Accidental Emergency	Doppler plus detector	1	A
Surgery	Accidental Emergency	Air tourniquets, adult & child	1	A
Surgery	Accidental Emergency	Surgical instrument set for tracheotomy	1	A
Surgery	Accidental Emergency	Surgical instrument set for plaster cutting	1	A
Surgery	Accidental Emergency	Surgical instrument set for emergency open chest	1	A
Surgery	Accidental Emergency	Surgical instrument set for Bone fracture	1	A
Surgery	Accidental Emergency	Bone drill set	1	A
Surg., Med., Ob&Gy	ICU	Ventilator with EndCO2, O2 Analyzer	1	A
Surg., Med., Ob&Gy	ICU	Ventilator for pediatrics	1	A
Surg., Med., Ob&Gy	ICU	Defibrillator	1	C
Surg., Med., Ob&Gy	ICU	ICU bed for adult	5	A
Surg., Med., Ob&Gy	ICU	ICU bed for infant	1	A
Surg., Med., Ob&Gy	ICU	Sphygmomanometer wall type	10	A
Surg., Med., Ob&Gy	ICU	Glucocemeter	1	B
Surg., Med., Ob&Gy	ICU	Respirometer	1	A
Surg., Med., Ob&Gy	ICU	Humidifier	6	A
Surg., Med., Ob&Gy	ICU	Syringe pump	4	A
Surg., Med., Ob&Gy	ICU	Infusion pump	3	B
Surg., Med., Ob&Gy	ICU	Central monitor	1	A
Surg., Med., Ob&Gy	ICU	Patient monitor	6	A
Surg., Med., Ob&Gy	ICU	Suction unit	2	C
Surg., Med., Ob&Gy	ICU	Instrument cabinet	1	C
Surg., Med., Ob&Gy	ICU	TV set	1	C
Surg., Med., Ob&Gy	ICU	Patient monitor	1	A
Surg., Med., Ob&Gy	ICU	Stretcher with IV, Oxygen	1	A
Surgery	Blood bank	Refrigerated centrifuge, 500ml	1	A
Surgery	Blood bank	Blood bank refrigerator	1	B
All Clinical depart.	Clinical Pathology	Spectrophotometer	5	A
All Clinical depart.	Clinical Pathology	Microscope, binocular	10	A
All Clinical depart.	Clinical Pathology	Flamephotometer	3	A
All Clinical depart.	Clinical Pathology	Balance, electric	2	B
All Clinical depart.	Clinical Pathology	Electric counter	4	B
All Clinical depart.	Clinical Pathology	Water bath	5	A
All Clinical depart.	Clinical Pathology	Hot air sterilizer	5	B
All Clinical depart.	Clinical Pathology	Centrifuge	5	C
All Clinical depart.	Clinical Pathology	Stabilizer	5	C
All Clinical depart.	Clinical Pathology	Microtome	1	A
All Clinical depart.	Clinical Pathology	Microtome knife sharpener	1	A

ANNEX I-3

Equipment Additionally requested by the Government of Sri Lanka
for Undergraduate Clinical Training at Colombo South Teaching Hospital

Related Faculty		Description	Qty	Priority
Clinical Department	Destination			
All Clinical depart.	Clinical Pathology	Tissue processor	1	A
All Clinical depart.	Clinical Pathology	Centrifuge cytopspin	1	C
All Clinical depart.	Clinical Pathology	Centrifuge hematrit	1	B
All Clinical depart.	Clinical Pathology	Refrigerator	5	B
All Clinical depart.	Clinical Pathology	Deep freezer	2	B
All Clinical depart.	Clinical Pathology	Deionizer	2	B
All Clinical depart.	Clinical Pathology	Electrophoresis apparatus	3	B
All Clinical depart.	Clinical Pathology	Teaching microscope	1	A
All Clinical depart.	Clinical Pathology	Autoclave vertical	4	C
All Clinical depart.	Clinical Pathology	Micropipette set	10	B
All Clinical depart.	Clinical Pathology	Densitometer	1	B
All Clinical depart.	Clinical Pathology	Biochemical analyzer	1	A
All Clinical depart.	Clinical Pathology	Hematological analyzer	1	A
All Clinical depart.	Clinical Pathology	pH meter	3	C
All Clinical depart.	Clinical Pathology	Dispenser	10	C
All Clinical depart.	Clinical Pathology	Automatic pipette	10	C
All Clinical depart.	Clinical Pathology	Biohazard cabinet	1	B
All Clinical depart.	Clinical Pathology	Incubator	1	B
All Clinical depart.	Clinical Pathology	Blood gas analyzer	1	A
All Clinical depart.	Clinical Pathology	Tissue embedding machine	1	B
All Clinical depart.	Clinical Pathology	Cryostat	1	A
All Clinical depart.	Clinical Pathology	Automatic staining machine	1	C
All Clinical depart.	Radiology	Ultrasound scanner, color doper	1	B
All Clinical depart.	Radiology	X-ray fluoroscopic with bucky stand	1	A
All Clinical depart.	Radiology	Film processor	1	A
All Clinical depart.	Radiology	X-ray unit for simple tomography	1	B
All Clinical depart.	Radiology	X-ray unit for mammography	1	B
All Clinical depart.	Radiology	X-ray film viewer, 12 film	1	A
All Clinical depart.	Radiology	X-ray protective apron	4	A
All Clinical depart.	Radiology	X-ray protector for Thyroide	3	A
All Clinical depart.	Radiology	X-ray protective glove	3	A
All Clinical depart.	Radiology	X-ray protective glass	2	A
All Clinical depart.	Radiology	X-ray protective curtain, 50m2	3	A
All Clinical depart.	Physiotherapy	Short-wave machine	2	C
All Clinical depart.	Physiotherapy	Electrical stimulator	1	A
All Clinical depart.	Physiotherapy	Traction bed	1	A
All Clinical depart.	Physiotherapy	Muscle stimulator	1	B
All Clinical depart.	Physiotherapy	Bench	3	C
All Clinical depart.	Physiotherapy	Treatment bed	2	B
All Clinical depart.	Physiotherapy	Exercise table	1	A
Medicine	Medical Unit	Glucocemeter	4	A
Medicine	Medical Unit	Blood gas analyzer	1	A
Medicine	Medical Unit	Electrolyte Analyzer	1	A
Medicine	Medical Unit	Hemoglobin Analyzer	1	A
Medicine	Medical Unit	Analyzer for Urine(Keton bodies)	1	A
Medicine	Medical Unit	Ventilator with EndCO2, O2 Analyzer	4	A
Medicine	Medical Unit	Respirometer	4	A
Medicine	Medical Unit	Peak flow meter	4	A
Medicine	Medical Unit	Spirometer	1	A
Medicine	Medical Unit	Nebuliser	4	A
Medicine	Medical Unit	Patient monitor	8	A
Medicine	Medical Unit	External heart pacing equipment	2	A
Medicine	Medical Unit	Ergometer and monitor	1	A
Medicine	Medical Unit	Emergency Carl with resuscitation set	4	A
Medicine	Medical Unit	Defibrillator	1	A
Medicine	Medical Unit	Syringe pump	4	A
Medicine	Medical Unit	Suction unit	8	A
Medicine	Medical Unit	Disposable intercostal tube set	2	B
Medicine	Medical Unit	Vacuum pump for intercostal tube removal	2	B
Medicine	Medical Unit	Broncho fiberscope with biopsy for adult dia. 5mm, 90cm	1	B
Medicine	Medical Unit	Segslake tubes	4	B
Medicine	Medical Unit	Laryngoscope set, matchintosh(0-5)	4	B
Medicine	Medical Unit	Ophthalmoscope	4	B

ANNEX I-3

Equipment Additionally requested by the Government of Sri Lanka for Undergraduate Clinical Training at Colombo South Teaching Hospital

Related Faculty		Description	Q'ty	Priority
Clinical Department	Destination			
Medicine	Medical Unit	Ambu bag for adult	4	B
Medicine	Medical Unit	Magit forceps	4	B
Medicine	Medical Unit	Water mattress	4	C
Medicine	Medical Unit	Microscope, binocular	2	B
Medicine	Medical emergency	Suction unit	1	B
Medicine	Medical emergency	Endo-tracheal tubes set	1	A
Medicine	Medical emergency	Ambu bag	1	A
Medicine	Medical emergency	Oxygen supply	1	C
Medicine	Medical emergency	Laryngoscope, matchintosh	1	A
Medicine	Medical emergency	ECG monitor with Defibrillator	1	A
Medicine	Medical emergency	Nebuliser	1	B
Medicine	Medical emergency	Peak flow meter	1	A
Medicine	Medical emergency	Weighing scale	1	B
Medicine	Medical emergency	Height scale	1	B
Medicine	Medical emergency	Ophthalmoscope	1	A
Medicine	Medical emergency	Diagnostic set	1	A
Surgery	Surgery Unit 1	Rigid cycloscope for adult	1	A
Surgery	Surgery Unit 1	Broncho fiberscope with biopsy for adult dia. 5mm, 90cm	1	A
Surgery	Surgery Unit 1	Examination lamp	2	B
Surgery	Surgery Unit 1	Sterilizer(boiling)	2	B
Surgery	Surgery Unit 1	Syringe pump	2	B
Surgery	Surgery Unit 1	Nebuliser	2	B
Surgery	Surgery Unit 1	Ultrasound apparatus, Doppler	1	C
Surgery	Surgery Unit 1	Suction unit	2	C
Surgery	Surgery Unit 1	Surgical instrument set for minor operation	2	A
Surgery	Surgery Unit 2	Examination lamp	2	C
Surgery	Surgery Unit 2	Sterilizer(boiling)	2	A
Surgery	Surgery Unit 2	Wheel chair	2	B
Surgery	Surgery Unit 2	Syringe pump	2	A
Surgery	Surgery Unit 2	Suction unit	2	A
Surgery	Surgery Unit 2	Nebuliser	2	C
Surgery	Surgery Unit 2	Refrigerator	2	C
Surgery	Surgery Unit 2	Surgical instrument set for minor operation	2	A
Obste & Gyne	Obste & Gyne	Ultrasound scanner	2	A
Obste & Gyne	Obste & Gyne	Vacuums extractor	2	A
Obste & Gyne	Obste & Gyne	Cardiotocographe	2	A
Obste & Gyne	Obste & Gyne	Defibrillator	1	B
Obste & Gyne	Obste & Gyne	Resusitation set for neonatal	1	A
Obste & Gyne	Obste & Gyne	Laparoscope, operative	1	B
Obste & Gyne	Obste & Gyne	Patient monitor	3	A
Obste & Gyne	Obste & Gyne	Infusion pump	4	A
Obste & Gyne	Obste & Gyne	Syringe pump	4	A
Obste & Gyne	Obste & Gyne	Fetal detector	3	A
Obste & Gyne	Obste & Gyne	Suction unit	4	A
Obste & Gyne	Obste & Gyne	Obste & gyne diagnostic set	6	A
Obste & Gyne	Obste & Gyne	Examination lamp	4	A
Obste & Gyne	Obste & Gyne	ECG	2	B
Obste & Gyne	Obste & Gyne	Glucocemeter	2	A
Obste & Gyne	Obste & Gyne	Ophthalmoscope	2	A
Obste & Gyne	Obste & Gyne	Transport incubator	2	A
Obste & Gyne	Obste & Gyne	Surgical instrument set for Vaginal delivery	2	A
Obste & Gyne	Obste & Gyne	Surgical instrument set for Hysterectomy	2	A
Obste & Gyne	Obste & Gyne	Surgical instrument set for Cesarean	2	A
Paediatrics	Paediatrics	Height scale	1	B
Paediatrics	Paediatrics	Weighing scale for child	1	A
Paediatrics	Paediatrics	Weighing scale for infant	1	A
Paediatrics	Paediatrics	Diagnostic set	1	C
Paediatrics	Paediatrics	Nebuliser	2	B
Paediatrics	Paediatrics	Infusion pump	1	A
Paediatrics	Paediatrics	Patient monitor	1	B
Paediatrics	Paediatrics	Pulse oxymeter	1	C
Paediatrics	Paediatrics	Liver biopsy set	1	C
Paediatrics	Paediatrics	Resusitation set for neonatal	1	A

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ANNEX I-3

Equipment Additionally requested by the Government of Sri Lanka
for Undergraduate Clinical Training at Colombo South Teaching Hospital

Related Faculty		Description	Q'ty	Priority
Clinical Department	Destination			
Paediatrics	Paediatrics	X-ray film viewer	1	C
Paediatrics	Paediatrics	Emergency Cart with resuscitation set	1	A
Paediatrics	Paediatrics	Syringe pump	1	B
Paediatrics	Paediatrics	Bone marrow biopsy set	1	C
Paediatrics	Paediatrics	Defibrillator for child and infant	1	B
Paediatrics	Paediatrics	Oxygen tent	2	A
Medicine	Dermatology	Cryosurgery unit	1	A
Medicine	Dermatology	UV hand lamp	1	A
Medicine	Dermatology	Punch biopsy set, metal	3	B
Medicine	Dermatology	Photochemotherapy system	1	C
Medicine	Neurology	EMG	1	B
Medicine	Neurology	EEG	1	A
Medicine	Neurology	Working frame	4	C
Medicine	Neurology	Diagnostic set	5	B
Medicine	Neurology	ICU bed	2	C
Medicine	Neurology	Water mattress	2	C
Medicine	Neurology	Bed side toilet	1	C
Medicine	Neurology	Glucocemeter	1	C
Medicine	Neurology	X-ray film viewer	1	B
Forensic Medicine	Forensic Medicine	Portable X-ray unit	1	A
Forensic Medicine	Forensic Medicine	Tissue processor	1	A
Forensic Medicine	Forensic Medicine	Tissue embedding machine	1	A
Forensic Medicine	Forensic Medicine	Microtome	1	A
Forensic Medicine	Forensic Medicine	Microtome knife sharpener	1	A
Forensic Medicine	Forensic Medicine	Water bath	1	A
Forensic Medicine	Forensic Medicine	Hot air sterilizer	1	A
Forensic Medicine	Forensic Medicine	Medical camera set	1	A
Forensic Medicine	Forensic Medicine	X-ray film viewer	1	A
Forensic Medicine	Forensic Medicine	UV hand lamp	1	A
Surgery	Maxillo facial	Dental unit	2	A
Surgery	Maxillo facial	Light cure unit	2	A
Surgery	Maxillo facial	Maxillo-facial plate fixing instrument set	1	A
Surgery	Maxillo facial	Dental drill set	1	A
Surgery	Maxillo facial	Dental scale remover	2	B
Surgery	Maxillo facial	Autoclave high speed	1	C
Surgery	Maxillo facial	Suction unit	1	C
Surgery	Maxillo facial	Surgical instrument for maxillo-facial	1	B
Surgery	Maxillo facial	Examination lamp	1	B

ANNEX II

Japan's Grant Aid

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ANNEX II

JAPAN'S GRANT AID PROGRAM

1. Japan's Grant Aid Procedures

- 1) The Japan's Grant Aid Program is executed by the following procedures.
 - **Application** (Request made by a recipient country)
 - **Study** (Preliminary Study / Basic Design Study conducted by JICA)
 - **Appraisal & Approval** (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)
 - **Determination of Implementation** (Exchange of Notes between the both Governments)
 - **Implementation** (Implementation of the Project)

- 2) Firstly, an application or a request for a project made by the recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to see whether or not it is suitable for Japan's Grant Aid. If the request is deemed suitable, the Government of Japan entrusts a study on the request to JICA (Japan International Cooperation Agency).

Secondly, JICA conducts the Study (Basic Design Study), using a Japanese consulting firm. If the background and objective of the requested project are not clear, a Preliminary Study is conducted prior to a Basic Design Study.

Thirdly, the Government of Japan appraises the Project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA and the results are then submitted to the Cabinet for approval.

Fourthly, the Project approved by the Cabinet becomes official when pledged by the Exchange of Notes signed by the both Governments.

Finally, on the implementation of the Project, JICA assists the recipient country in preparing contracts and so on.

2. Contents of the Study

1) Contents of the Study

The purpose of the Study (Preliminary Study/Basic Design Study) conducted on a project requested by JICA is to provide a basic document necessary for appraisal of the project by the Japanese Government. The contents of the Study are as follows:

- a) to confirm background, objectives, benefits of the project and also institutional capacity of agencies concerned of the recipient country necessary for project implementation,
- b) to evaluate appropriateness of the Project for the Grant Aid Scheme from a technical, social and economical point of view,
- c) to confirm items agreed on by the both parties concerning a basic concept of the project,
- d) to prepare a basic design of the project,
- e) to estimate cost involved in the project.

Final project components are subject to approval by the Government of Japan and therefore may differ from an original request.

Implementing the project, the Government of Japan requests the recipient country to take necessary measures involved which are itemized on Exchange of Notes.

2) Selecting (a) Consulting Firm(s)

For smooth implementation of the study, JICA uses (a) consulting firm(s) registered. JICA selects (a) firm(s) through proposals submitted by firms which are interested. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference made by JICA.

The consulting firm(s) used for the study is(are) recommended by JICA to a recipient country after Exchange of Notes, in order to maintain technical consistency and also to avoid possible undue delay in implementation caused if a new selection process is repeated.

3) Status of a Preliminary Study in the Grant Aid Program

A Preliminary Study is conducted during the second step of a project formulation & preparation as mentioned above.

A result of the study will be utilized in Japan to decide if the Project is to be suitable for a Basic Design Study.

Based on the result of the Basic Design Study, the Government would proceed to the stage of decision making process (appraisal and approval).

It is important to notice that at the stage of Preliminary Study, no commitment is made by the Japanese side concerning the realization of the Project in the scheme of Grant Aid Program.

3. Japan's Grant Aid Scheme

1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non reimbursable funds needed to procure facilities, equipment and services for economic and social

development of the country under the following principles in accordance with relevant laws and regulations of Japan. The Grant Aid is not in a form of donation or such.

2) Exchange of Notes (E/N)

The Japan's Grant Aid is extended in accordance with the Exchange of Notes by both Governments, in which the objectives of the Project, period of execution, conditions and amount of the Grant etc. are confirmed.

3) "The period of the Grant Aid" means one Japanese fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedure such as Exchange of Notes, concluding a contract with (a) consulting firm(s) and (a) contractor(s) and a final payment to them must be completed.

4) Under the Grant, in principle, products and services of origins of Japan or the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant may be used for the purchase of products or services of a third country origin.

However the prime contractors, namely, consulting, contractor and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons.)

5) Necessity of the "Verification"

The Government of the recipient country or its designated authority will conclude into contracts in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. The "Verification" is deemed necessary to secure accountability to Japanese tax payers.

6) Undertakings required to the Government of the recipient country

In the implementation of the Grant Aid, the recipient country is required to undertake necessary measures such as the following:

a) to secure land necessary for the sites of the project and to clear and level the land prior to commencement of the construction work,

b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,

c) to secure buildings prior to the installation work in case the Project is providing equipment,

d) to ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased

under the Grant Aid,

e) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,

f) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

7) Proper Use

The recipient country is required to maintain and use facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for their operation and maintenance as well as to bear all expenses other than those to be borne by the Grant Aid.

8) "Re-export"

The products purchased under the Grant Aid shall not be re-exported from the recipient country.

9) Banking Arrangement (B/A)

a) The Government of the recipient country or its designated authority shall open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by Government of the recipient country or its designated authority under the contracts verified.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay issued by the Government of the recipient country or its designated authority.

ANNEX III

Necessary measures to be taken by the Sri Lanka side

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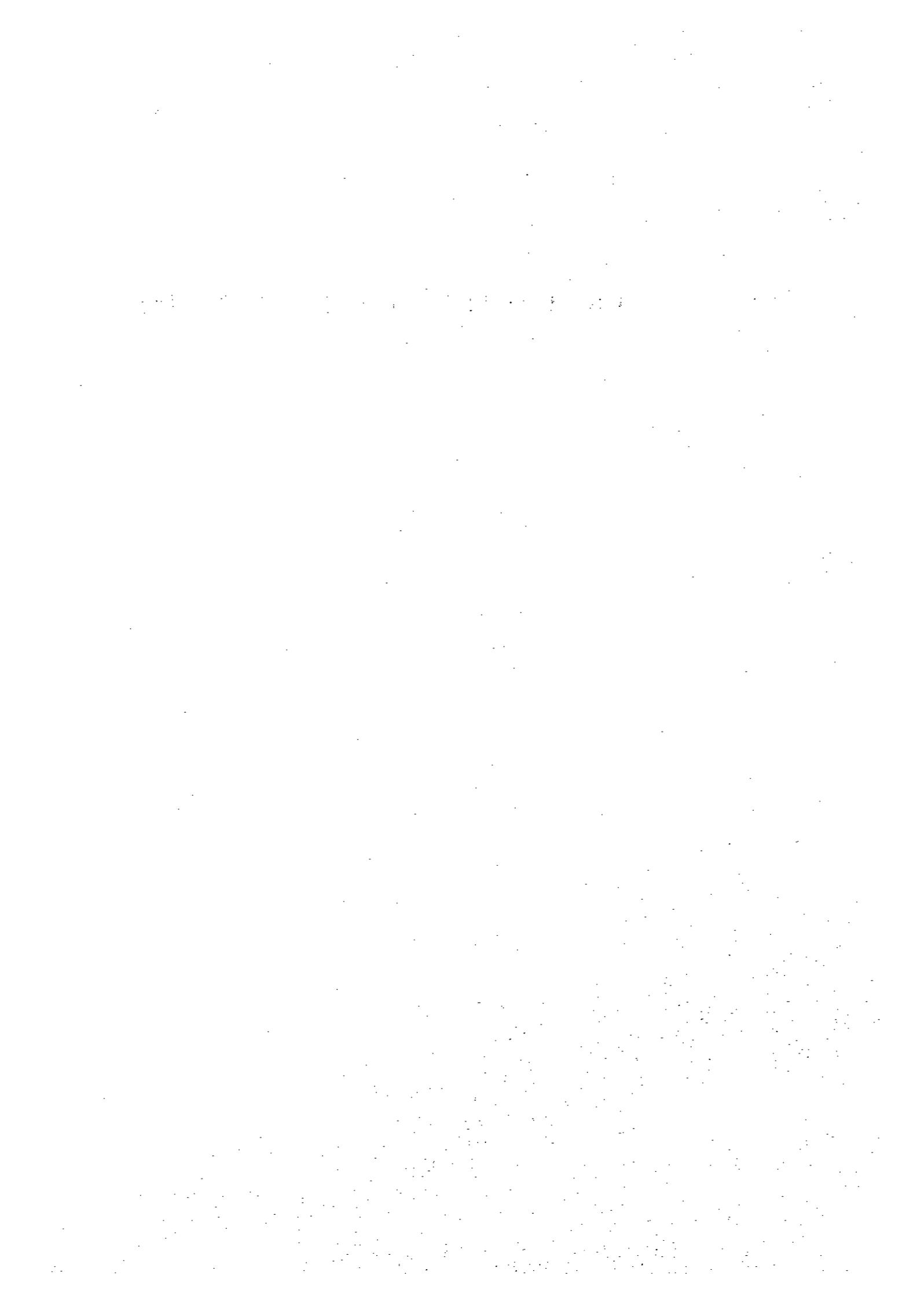
ANNEX III

NECESSARY MEASURES TO BE TAKEN BY THE SRI LANKA SIDE

1. Construction of facilities
 - Family Practice Centre
 - Animal House
 - University Professorial Unit, Colombo South Teaching Hospital
 - New Medical Faculty Buildings (Stage 2)
 - Relocation cost of the Departments accommodated at the Central Library to Stage 2 Building
 - Renovation cost of the facilities of the Faculty of Medical Sciences, the University of Sri Jayewardenepura.
2. Work related to installation of equipment
 - Relocation or removal of existing equipment
 - Securing equipment carry-in route
 - Spaces for the installation locations
 - Facility preparation work required for the installation of equipment (electrical Wiring to the installation sites, water supply and waste water piping, outlets and exhaust vents).
3. To provide necessary reference data and information required for the execution of the project.
4. To conduct the "Banking arrangements (B/A)" with an authorised foreign exchange bank in Japan and to pay commission fee related to the "Authorisation to Pay (A/P)".
5. To ensure prompt customs clearance and internal transportation in Sri Lanka of the equipment procured under the Grant.
6. To exempt Japanese nationals and third countries' staffs customs duties, internal taxes and other fiscal levies which may be imposed in Sri Lanka with respect to the supply of the equipment and services under the verified contracts.
7. To accord Japanese nationals and third countries' staffs whose services may be required in connection with the supply of the equipment and services under the verified contracts such facilities as may be necessary for their entry into Sri Lanka and stay therein for the performance of their entry into Sri Lanka and stay therein for the performance of their work.
8. To issue all the required permits and licenses for implementation of this project in conformance to the law of Sri Lanka.

9. To allocate the appropriate budgets and provide appropriate manpower to ensure the current and effective use of the equipment procured to carry out this project and to ensure that they are well maintained.
10. To ensure that the equipment procured under the Grant be maintained and used properly and effectively for the execution of the Project.
11. To bear all the expenses, other than those covered by the Grant, necessary for the execution of the Project.

13. 「PCMサマリー、第1回、第2回」



第1回 PCMサマリー

The Project for the Improvement of Equipment for the Faculty of Medical Sciences, the University of Sri Jayewardenepura Narrative Summary

(Workshop 10 Oct., 1996, Moderator Mr. HANDA,
Co-moderator, Ms. ISHIZAWA)

GOAL (the project purpose is to be aimed for)

To improve and sustain the improved quality of health personnel produced by the University of Sri Jayewardenepura.



PROJECT PURPOSE (the project is intended to accomplish)

Internationally standardized medical/paramedical training is provided to all students of Faculty of Medical Sciences of University of Sri Jayewardenepura.

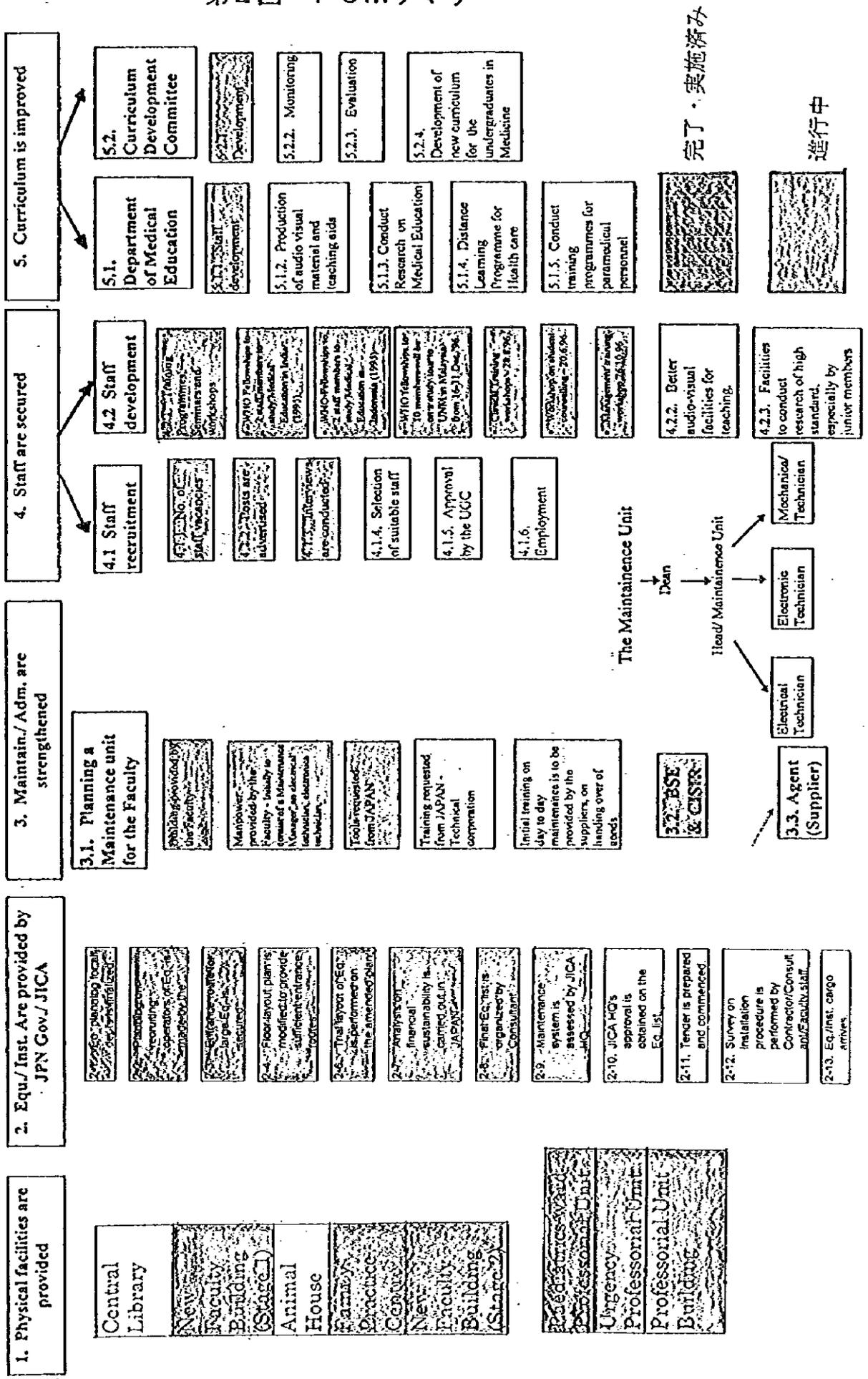


OUTPUTS (the project aims to achieve)

- ① Physical facilities for all departments is provided by University of Sri Jayewardenepura (USJW)
 - * 1. Department of Anatomy
 2. Department of Physiology
 3. Department of Biochemistry
 4. Department of Pathology
 5. Department of Microbiology
 6. Department of Parasitology
 7. Department of Pharmacology
 8. Department of Forensic Medicine
 9. Department of Family Medicine and Community Medicine
 10. Department of Medicine
 11. Department of Surgery
 12. Department of Paediatrics
 13. Department of Obstetrics and Gynaecology
 14. Department of Psychiatry
 15. Department of Medical Education and Health Sciences
- ② Modern facilities (equipment/instruments) for teaching, teaching-related research and clinical activities are provided by Japanese Government / JICA.
 - * medical and paramedical undergraduate trainings.
- ③ Maintenance and administrative functions of the Faculty of Medical Sciences (FMS), USJW are strengthened further in order to meet the requirement of newly introducing equipment / instruments.
- ④ Academic, non-academic staff are secured enough to carry out the teaching, teaching-related research and clinical activities under the improved condition of physical facilities, facility.
- ⑤ Improvement of curriculum and teaching methods is further advanced in order to meet the requirement of the Project.

第2回 PCMサマリー

Medical/ Paramedical training of international standards is provided to all students of the Faculty of medical Sciences of Univ. Sri Jayewardenepura



14. 参考資料リスト

1 4 参考資料リスト

- (1) NIHS 活動内容説明書、 NIHS
- (2) NIHS 看護教育課程、 NIHS
- (3) スリ・ランカ国における教育及び訓練分野調査最終草案報告書、
アジア開発銀行、 May 1989
- (4) スリ・ランカ国 国家保健計画大統領特別作業部会 大統領特別作業部会、
7/7/1992
- (5) スリ・ランカ国保健年報、 保健省、 1994
- (6) スリ・ランカ国における教育及び訓練方針に関わる調査報告書、 世界銀行、
27/7/1994
- (7) 公共投資報告書 1995-1999、 大蔵・計画・民族問題国家統合省 国家計画局、
April 1995
- (8) スリ・ランカ国における教育者育成設備評価報告書、 世界銀行、 10/5/1996
- (9) スリ・ジャヤワルダナプラ大学医学部図書館・ステージⅠ・ステージⅡ建築図面
- (10) スリ・ジャヤワルダナプラ大学医学部
家族医療実習センター・実験動物学舎建築・設備図面

JICA