

APPENDICES

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1. Member List of the Study Team

1-1 Basic Design Study

	Position	Name	Period	Organization
1	Leader	Ms. Shumon YOSHIARA	April 23 ~ 29, 2006	Health Team, Project Management Group II, Grant Aid Management Department, JICA
2	Technical Adviser	Dr. Kazuhiro KAKIMOTO	April 23 ~ 29, 2006	Bureau of International Cooperation International Medical Center of Japan Ministry of Health, Labor and Welfare
3	Project Manager/ Architectural Planner	Mr. Hiroyuki KOIKE	April 18 ~ May 12, 2006	Azusa Sekkei Co., Ltd.
4	Architectural Planner	Mr. Kazuhiko MURAMOTO	April 23 ~ May 9, 2006	Azusa Sekkei Co., Ltd.
5	Architectural and Facilities Planner	Mr. Yoshifumi HOSHIAI	April 18 ~ May 15, 2006	Azusa Sekkei Co., Ltd.
6	Facilities Planner	Mr. Teiji SAITO	April 20 ~ May 3, 2006	Azusa Sekkei Co., Ltd.
7	Construction and Cost Planner	Mr. Yasuhiko YANAGI	April 20 ~ May 10, 2006	Azusa Sekkei Co., Ltd.
8	Equipment Planner	Mr. Shigehito AKAGI	April 18 ~ May 15, 2006	International Total Engineering Corporation
9	Procurement/ Cost Estimation	Mr. Koichi OBAYASHI	April 20 ~ May 10, 2006	International Total Engineering Corporation
10	Equipment Planner II	Ms. Reiko SUMI	April 18 ~ May 9, 2006	International Total Engineering Corporation

1-2 Draft Report Explanation

	Position	Name	Period	Organization
1	Leader	Mr. Shumon YOSHIARA	February 24 ~ March 2, 2007	Health Team, Project Management Group II, Grant Aid Management Department, JICA
2	Project Manager/ Architectural Planner	Mr. Hiroyuki KOIKE	February 20 ~ March 6	Azusa Sekkei Co., Ltd.
3	Architectural & Construction Planner	Mr. Kazuyuki OHTSUBO	February 24 ~ March 10	Azusa Sekkei Co., Ltd.
4	Equipment Planner	Mr. Shigehito AKAGI	February 20 ~ March 6	International Total Engineering Corporation

2. Study schedule

2-1. Basic design study

From 18 April to 15 May 2006 (28 days)

No	Date	Time	Activity
1	4/18 (Tue)	10:50 19:25	Dep. Narita by NH953 Arrive Phnom Penh via Bangkok by TG 698
2	4/19 (Wed)	9:15 10:30	Courtesy call to JICA Cambodia office Courtesy call to Embassy of Japan
3	4/20 (Thu)	8:30 10:30 14:30 16:00	Courtesy call to Ministry of Health Submit Inception Report and Questionnaire Dep. Phnom Penh to Kampong Cham Meeting with Kampong Cham PHD Submit Inception Report and Questionnaire Observation of Kampong Cham Hospital
4	4/21 (Fri)	All day	Observation of Kampong Cham Hospital
5	4/22 (Sat)	All day	Observation of Kampong Cham Hospital
6	4/23 (Sun)	All day	Internal Meeting
7	4/24 (Mon)	8:00 14:00 16:00	Meeting with Director of Kampong Cham Hospital Official member arrive Kampong Cham Meeting with Director of Kampong Cham Hospital Meeting with Kampong Cham PHD
8	4/25 (Tue)	9:30 14:00 17:00	Observation of Tbong Khmun Hospital (CPA2) Courtesy call to Governor of Kampong Cham province Internal Meeting
9	4/26 (Wen)	10:00 14:00	Official member move to Phnom Penh Discussion on the Minutes of Discussions
10	4/27 (Thu)	All day	Discussion on the Minutes of Discussions
11	4/28 (Fri)	11:00	Signing Ceremony on the Minutes of Discussions Official member leaving Phnom Penh
12	4/29 (Sat)	All day	Filing documents, Observation of Kampong Cham Hospital Move to Phnom Penh (Mr. Hoshiai, Mr. Yanagi, Mr. Obayashi, Mr. Saito)
13	4/30 (Sun)	All day	Internal Meeting
14	5/1 (Mon)	All day	Internal Meeting
15	5/2 (Tue)	All day 14:00	Planning of facility, Cost survey Observation of the Japan Center Mr. Saito leaving Phnom Penh
16	5/3 (Wed)	All day	Planning of facility, Cost survey
17	5/4 (Thu)	8:30 14:00	Move to Kampong Cham (Mr. Koike, Mr. Muramoto, Mr. Hoshiai, Mr. Akagi, Ms. Sumi) Meeting with Director of Kampong Cham Hospital
18	5/5 (Fri)	11:00 PM	Meeting with Kampong Cham PHD Hearing with concerned
19	5/6 (Sat)	All day	Hearing at Kampong Cham Hospital Leaving to Bangkok (Mr. Yanagi, Mr. Obayashi)
20	5/7 (Sun)	8:00	Move to Phnom Penh (Mr. Koike, Mr. Muramoto, Mr. Hoshiai, Mr. Akagi, Ms. Sumi)
21	5/8 (Mon)	9:00 11:00	Discussion on memorandum with Ministry of Health Observation of the Maternal and Child health Center

		14:00 15:00 16:00	Observation of the Calmette Hospital Observation of the TMSC Observation of the National Tuberculosis Center Leaving Phnom Penh (Mr. Muramoto)
22	5/9 (Tue)	AM 14:00	Preparation of the Memorandum Signing on the Memorandum Leaving Phnom Penh (Ms. Sumi)
23	5/10 (Wen)	15:00	Report on JICA Office and Embassy Japan
24	5/11 (Thu)		Internal Meeting Leaving Phnom Penh (Mr. Koike)
25	5/12 (Fri)	AM PM	Move to Kampong Cham (Mr. Hoshiai and Akagi) Observation of Kampong Cham Hospital
26	5/13 (Sat)	All day	Observation of Kampong Cham Hospital
27	5/14 (Sun)		Move to Phnom Penh (Mr. Hoshiai, Mr. Akagi) Leaving Phnom Penh (Mr. Hoshiai, Mr. Akagi)
28	5/15 (Mon)		Arrived Narita (Mr. Hoshiai, Mr. Akagi)

2-2. Draft report Explanation

From 20 February to 5 March 2007

No	Date	Time	Activity
1	2/20 (Tue)	1050 1930	Dep. Narita by NH953 Arrive Phnom Penh via Bangkok by TG 698
2	2/21 (Wed)	8:30 10:00 10:30 PM	Courtesy call to JICA Fiji office Visit CPI Office Courtesy call to Ministry of Health and Submit Draft final report of B/D Internal Meeting
3	2/22 (Thu)	07:30 10:00 14:30	Move to Kampong Cham Courtesy call to Kampong Cham PHD and Submit Draft final report of B/D Courtesy call to Kampong Cham Hospital and Submit Draft final report of B/D
4	2/23 (Fri)	All Day	Meeting with Deputy Director of Kampong Cham Hospital
5	2/24 (Sat)	09:00 -17:00	Observation of Kampong Cham Hospital
6	2/25 (Sun)	10:00 PM	Leader and Mr. Otsubo arrive Kambong Cham Observation of Kampong Cham Hospital
7	2/26 (Mon)	08:00 10:00 14:00 16:00	Meeting with Kampong Cham PHD Meeting with Kampong Cham Hospital Observation of Kampong Cham Northing School Move to Phnom Penh
8	2/27 (Tue)	08:30 10:00 PM	Meeting with JICA Expert Discussion on the Minutes of Discussions Preparation of the Minutes of Discussions
9	2/28 (Wen)	09:00 10:30 13:00 16:00	Report on Secretary of State for Health Meeting with Deputy Director General for Health Survey of Construction Material Signing Ceremony on the Minutes of Discussions
10	3/01 (Thu)	08:30 11:00 14:00 16:00	Report on JICA Office Report on Embassy of Japan Hearing on local construction company Survey of Construction Material Leaving Phnom Penh (Leader)
11	3/02 (Fri)	9:00 14:00	Hearing on local construction company Survey of Construction Material

12	3/03 (Sat)	All day	Survey of Construction Material
13	3/04 (Sun)		Internal Meeting Filing document
14	3/05 (Mon)	9:00 11:00 2040	Hearing on local construction company Survey of Construction Material Leaving Phnom Penh by Tg 699 (Mr. Koike, Mr. Akagi) Leaving to Bangkok by TG699 (Mr. Otsubo)
15	3/06 (Tue)	07:35	Arrive Narita by NH916 (Mr. Koike, Mr. Akagi) Survey of Construction Material in Bangkok (Mr. Otsubo)
16	3/07 (Wed)	All day	Survey of Construction Material in Bangkok (Mr. Otsubo)
17	3/08 (Thu)	All day	Survey of Construction Material in Bangkok (Mr. Otsubo)
18	3/09 (Fri)	23:30	Survey of Construction Material in Bangkok (Mr. Otsubo) Leaving Bangkok by JL704 (Mr. Otsubo)
19	3/10 (Sat)	0715	Arrive Narita by JL704 (Mr. Otsubo)

3. List of Parties Concerned in the Recipient Country

Name	Status
Ministry of Health	
Prof. ENG HOUT	Secretary of State for Health
Dr. Chi Mean Hea	Deputy Director General for Health
Dr. SANN SARY	Director of Hospital Service Department
Dr. Sok Srun	Deputy Director, Department of Health Services
Dr. Keat Phuong	Director of Human Resource Department
Dr. OR Vandine	Director, Department of International Cooperation
Kampong Cham PHD	
Dr. Ngynoum Sim An	Director of Kampong Cham Health Department
Dr. Mao Men	Vice director RTC
Dr. Chea Sokha	Chief of operational District (OD) of Kampong Cham
Dr. Dirik Horemans	BTC Project Co-director
Mr. Tran chheng Krung	Chief of Technical Bureau PHD
Dr. Men Bunnan	Deputy Chief of PHD
Mr. Chan Bun Theng	Chief Accountant PHD
Mr. Sim Vantha	Deputy Chief Accountant PHD
Kampong Cham Hospital	
Dr. Meas Chea	Director
Dr. IN Se	Deputy Director
Dr. Lon Tripatrich	Deputy Director
Dr. Yin Sinat	Deputy Director
Dr. Mey Moniborin	Deputy Director /Pediatrician
Dr. Porn Try Patrich	Pediatrician
Mr. Nhem Thol	Chief of Referral Hospital and Technical X-ray

Tbong Khmun Hospital	
Dr. Say Heng	Chief of OD Tbong Khmun
Dr. Mam Toma	Deputy Chief of OD Tbong Khmun
Dr. Roth Putthika	Chief of Referral Hospital
Kampong Cham Province	
Mr. Hun Heng	Governor of Kampong Cham province
Ministry of Planning, National Institute of Statistics	
Mr. Khin Song	Deputy Director of General Statistics Department
Mr. Sim Ly	Bureau Chief of Price Index of General Statistics Department
Metrological Office	
Eng. Yea Voeum	Staff
Eng. Seng Sopha	Staff
Kampong Cham Water and Swage	
Eng. Preap Somala	Director
Eng. Va Somoak	Vice Director
ELECTRICITE DU CAMBODGE (EDC)	
Eng. Mao Huor	Director Electrical Engineer
Kampong Cham Public Works	
Eng. Thuch That	Chief of Kampong Cham District
Eng. Meng Sothavrak	Staff
Oxygen Supply Company	
Mr. Pooh Virum	Staff
Embassy of Japan	
Mr. Kazumi JIGAMI	Counselor
Mr. Tetsumi MURATA	Counselor
Mr. Junichi HOSHIKURA	Second Secretary
Ms. Emi MORIKAWA	Advisor / Economic & Social Affairs
JICA Cambodia Office	
Mr. Juro CHIKARAISHI	Resident Representative
Mr. Kazuhiro YONEDA	Resident representative
Mr. Hiroto MITSUGI	Deputy Resident Representative
Mr. Hiroyuki UKAI	Deputy Resident Representative
Ms. Shoko SATO	Project Formulation Advisor
Ms. Masayo TERAKADO	Assistant Resident Representative
Mr. Eiichiro HAYASHI	Aid Coordination Adviser
Mr. Shigetada KAYUMI	Senior Adviser (Infrastructure / Construction)
Mr. Takeshi MATSUO	Chief Advisor / Medical Equipment
Ms. Hiromi OHARA	Chief Advisor / Mother and child health care
Mr. Peong Vattana	Program Assistant

4. New Application from Cambodia Side

Modified Request (Facilities)

Clinical Building	
- ICU + Emergency (medical and surgical)	A
- Isolation ward (Septic tank)	A
- OT	A
- Gyn OB	A
- Surgical Ward	A
- Sterilisation	A

Imagery building	
- X ray	A
- ultrasound	A
- CT scan	A

Paraclinical building	B
- Lab (Renovation + Equipment required)	
- Blood Bank	
- Pharmacy	

Supporting Building	
- Meeting and Training Room	A
- Incinerator	A
- Administration office	A
- Standby generator	A
- Water supply tank/ tower	A
- Workshop	A

Consultation building (specialized consultation)	A
- Eye	
- ENT	
- odonto-stomatology	
- psychiatry	
- surgery	
- pediatric	

Mortuary and Autopsy	A
- 1 room for mortuary	
- 1 room for autopsy	

Main Building (Expected to accommodate 196 beds)	
- obstetric 40 beds	

- gyneco 20 beds
- Surgery 120 beds
- ICU 10 beds
- Emergency 6 beds
- Delivery rooms: 2 rooms separated; 1 room for 2 beds and 1 room for 1 bed
- Gynecological room: 2 rooms separated; 1 room for genecolgy and 1 room for smal, intervention on genecology
- Operation Theatre: 4 rooms (separated)

Kampong Cham, 21st April 2006
 Director of Kampong Cham RH



Dr. MEAS Chea,

List of Additional Request (Medical Equipment)

- I. Pediatric Ward
 - Phototherapy (violet light)
 - heater
 - pulse oxymeter
 - drop counts (infusion pump)
 - bilirubine meter
 - monitoring
 - hematocrit meter
 - electric syringe
 - nutrition pump
 - incubator
 - nebulizer
 - suction machine and its accessories
 - oxygen concentrator
 - resuscitator, pediatric
 - resuscitator, infant
- II. Emergency Ward (medical and surgical)
 - automatic respirator
 - laryngoscope box one set
 - oxygene concentrator
 - electric syringe
 - glucometer
 - pulse oxymeter
 - monitoring
 - Endotracheal Tube
 - mask ballon
 - suction machine and its accessories
 - defibrator
 - EKG unit
 - resuscitator, adult
- III. Imagery
 - ultrasound doppler
 - fibroscopy
- IV. Maternity
 - Doppler, fetal heart detector
 - Pump breast, manual
- V. OT
 - Stretcher, folding
 - Stretcher, wheel
 - Emergency trolley
 - Abdominal surgical set
 - Orthopedic surgical set
 - Cesarean section set

Kampong Cham, 21st April 2006
Director of Kampong Cham RH


Dr. MEAS Chea,

5. Minutes of Discussions of Basic Design Study

MINUTES OF DISCUSSIONS ON THE BASIC DESIGN STUDY ON THE PROJECT FOR IMPROVEMENT OF KAMPONG CHAM HOSPITAL IN KAMPONG CHAM PROVINCE

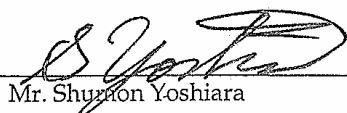
In response to a request from the Royal Government of Cambodia, the Government of Japan decided to conduct a Basic Design Study on THE PROJECT FOR IMPROVEMENT OF KAMPONG CHAM HOSPITAL IN KAMPONG CHAM PROVINCE (hereinafter referred to as "the Project") and entrusted the Study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to the Kingdom of Cambodia (hereinafter referred to as "the Cambodia") the Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Shumon Yoshiara, Team Director, Health Team, Project Management Group II, Grant Aid Management Department, JICA, and is scheduled to stay in the country from 18 April to 14 May 2006.

The Team held discussions with the officials concerned of the Royal Government of Cambodia and conducted a field survey at the study area.

In the course of discussions and field survey, both parties have confirmed the main items described on the attached sheets. The Team will proceed to further works and prepare the Basic Design Study Report.

Phnom Penh, 28 April 2006



Mr. Shumon Yoshiara
Leader
Basic Design Study Team
Japan International Cooperation
Agency



Prof. Eng Huot
Secretary of State for Health
Ministry of Health
Kingdom of Cambodia

ATTACHMENT

1 Objective of the Project

The objective of the Project is to improve the health and medical services provided by the Kampong Cham Hospital.

2 Project site

The site of the Project is the Kampong Cham Hospital, and area covered by the Hospital is shown in Annex-1.

3 Responsible and implementing agency

3-1 The responsible agency is the Ministry of Health, Kingdom of Cambodia.

3-2 The implementing agency is the Kampong Cham Provincial Health Department and the Kampong Cham Hospital.

3-3 Organization chart including above agencies is shown in Annex-2.

4 Items requested by the Royal Government of Cambodia

After discussions with the Team, the items described in 7-1 and Annex-3 (for Equipment) were finally requested by the Cambodian side. JICA will assess the appropriateness of the request and will recommend to the Government of Japan for approval.

5 Japan's Grant Aid Scheme

5-1 The Cambodian side understands the Japan's Grant Aid Scheme explained by the Team, as described in Annex-4 and 5.

5-2 The Cambodian side will take the necessary measures, as described in Annex-6, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.

6 Schedule of the Study

6-1 The consultants will proceed to further studies in Cambodia until 14 May 2006.

6-2 JICA will prepare the draft report in English and dispatch a mission team in order to explain its contents.

6-3 In case that the contents of the draft report is accepted in principle by the Royal Government of Cambodia, JICA will complete the final report of the Basic Design Study and send it to the Royal Government of Cambodia.

7 Other relevant issues

7-1 Both sides agreed that the maximum components of the facility plan and the medical equipment are prioritized as follows;

-1st Ob/Gy department & Surgical department

-2nd Operation Theater (including sterilization)

-3rd Emergency department

-4th Imagery department

Selection, scale and contents of the above components are to be decided based on the further analysis.

Ministry of Health, the Royal Government of Cambodia, agreed to provide X-ray shield to the existing X-ray room.

- 7-2 The Cambodian side agreed to provide sufficient number of staff for management and maintenance of the facilities and equipment provided by the Project.
- 7-3 The Cambodian side agreed to allocate the Kampong Cham Hospital necessary budget for management and maintenance cost such as salary, water and electricity charges for facilities, repairs, spare parts, reagents, consumables and periodical or annual maintenance contracts after delivery of the equipment provided by the Project.
- 7-4 The Cambodian side committed itself to complete the necessary undertakings prior to the commencement of the construction works.
- 7-5 Both sides confirmed that the detailed drawings and specifications of the facilities and equipment and other technical information shall not be released before the tender to be held in the implementation stage of the Project.

Annex-1: Project Site

Annex-2: Organization chart

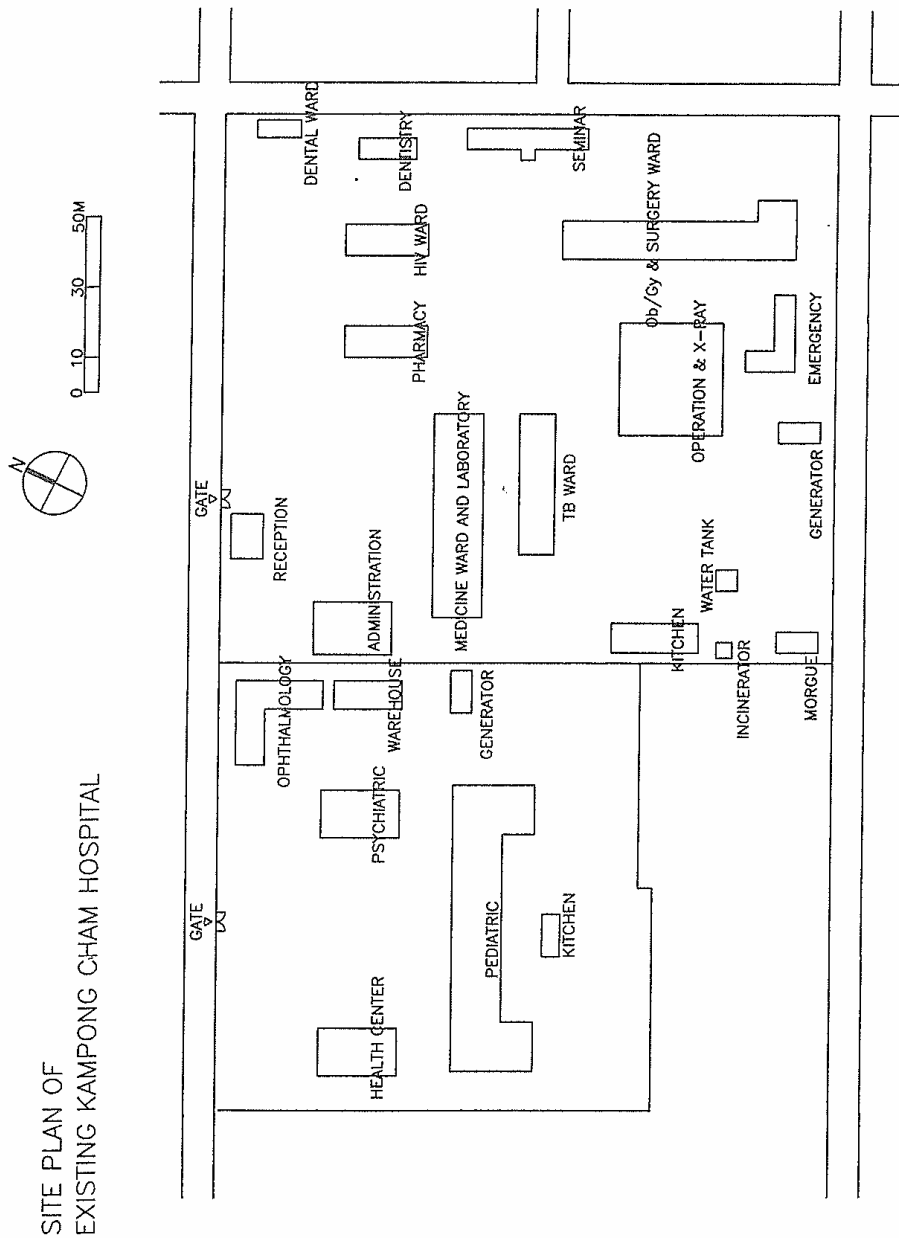
Annex-3: List of Requested Equipment

Annex-4: Japan's Grant Aid Scheme

Annex-5: Flow Chart of Japan Grant Aid Procedures

Annex-6: Major Undertakings to be taken by Each Government

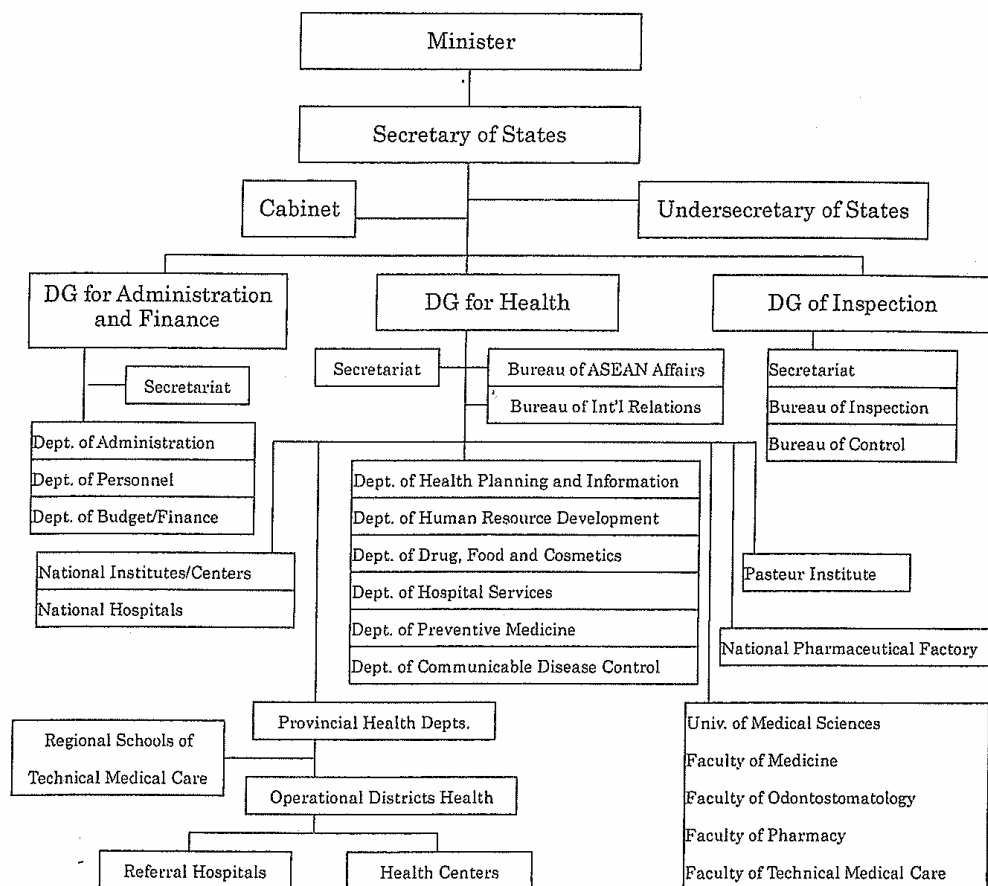
Annex-1: Project site



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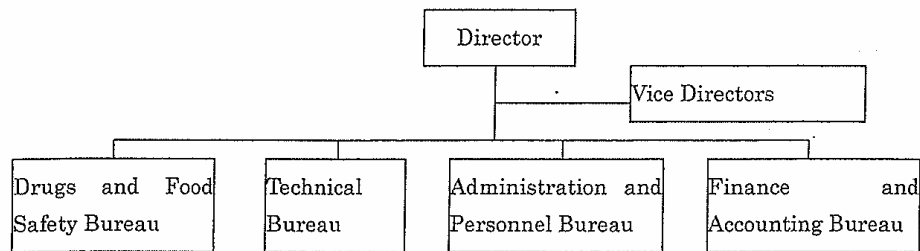
Annex-2: Organization chart of Responsible and Implementing Agency

1) Organization chart of the Ministry of Health

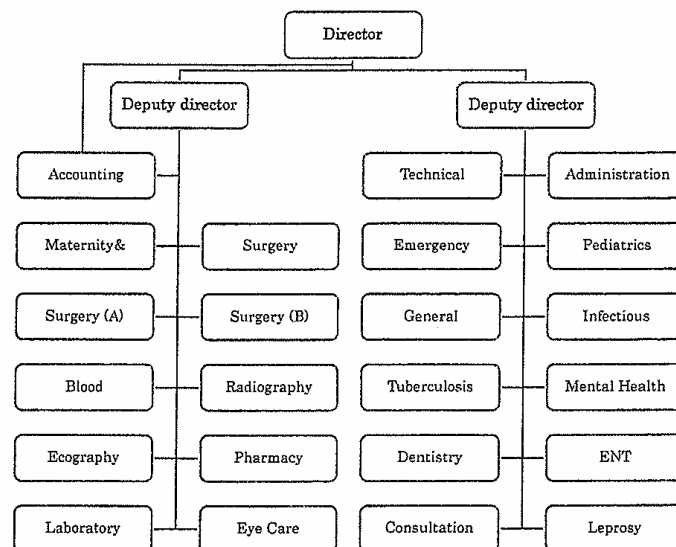


Annex-2: Organization chart of Responsible and Implementing Agency

2) Organization chart of the Provincial Health Department (PHD)



3) Organization chart of the Kampong Cham Hospital



ANNEX-3: List of Requested Equipment

List of Requested Equipment - 1

Building	Department	Item No.	Description
OBGY	Obstetric	1	Delivery Bed
OBGY	Obstetric	2	Operating Lamp, Ceiling type
OBGY	Obstetric	3	Fetal Monitor
OBGY	Obstetric	4	Vacuum Extractor
OBGY	Obstetric	5	Suction Unit
OBGY	Obstetric	6	Automatic Resuscitator
OBGY	Obstetric	7	Doppler, fetal heart detector
OBGY	Obstetric	8	Pump breast, manual
OBGY	Obstetric	9	X-Ray Film Illuminator
OBGY	Obstetric	10	Cesarean section set
OBGY	Obstetric	11	Labor Bed
OBGY	Obstetric	12	Weighing Scale, baby
OBGY	Obstetric	13	Dilatation & Curettage set
OBGY	Obstetric	14	Hand scrub unit
OBGY	Newborn	15	Infant Incubator
OBGY	Newborn	16	Neonatal Monitor
OBGY	Newborn	17	Infant Care Center
OBGY	Newborn	18	Infusion Pump
OBGY	Newborn	19	Suction Unit
OBGY	Newborn	20	Phototherapy (violet light)
OBGY	Newborn	21	Bilirubine meter
OBGY	Newborn	22	Resuscitator, infant
OBGY	Newborn	23	Cot
OBGY	Gynecology	24	Examination Table
OBGY	Gynecology	25	Gynecological Examining Table
OBGY	Gynecology	26	Gynecological Examining set
OBGY	Gynecology	27	X-Ray Film Illuminator
OBGY	Gynecology	28	Examination Light
OBGY	Gynecology	29	Doppler Fetus Detector
OBGY	Gynecology	30	Colposcope
OBGY	Gynecology	31	Coagulator for Cervical Lesion
OBGY	Gynecology	32	Suction Unit

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ANNEX-3: List of Requested Equipment

List of Requested Equipment - 2

Building	Department	Item No.	Description
OBGY	Gynecology	33	Automatic Resuscitator
OBGY	Gynecology	34	Resuscitator, Hand-driven
OBGY	Gynecology	35	Instrument Boiling Sterilizer, Desk Top
OBGY	Gynecology	36	Autoclave, Table top
OBGY	Gynecology	37	Oxygen concentrator
OBGY	Gynecology	38	Wheel Chair
OBGY	Gynecology	39	Caesarian Hysterectomy set
OBGY	Gynecology	40	Cervic reparation set
OBGY	Gynecology	41	Bed
Surgical	Surgical	42	Abdominal surgical set
Surgical	Surgical	43	Orthopedic surgical set
Surgical	Surgical	44	Suction Unit
Surgical	Surgical	45	Oxygen concentrator
Surgical	Surgical	46	Autoclave, Table top
Surgical	Surgical	47	X-Ray Film Illuminator
Surgical	Surgical	48	Bed
Surgical	Surgical	49	Automatic Resuscitator
Surgical	Surgical	50	Resuscitator, Hand-driven
Surgical	Surgical	51	Stretcher, wheel
Surgical	Surgical	52	Treatment Table
Surgical	Surgical	53	Vascular surgical set
Surgical	Surgical	54	Craniotomy Instrument set
Surgical	Surgical	55	Urology set
Surgical	Surgical	56	Amputation set
Surgical	Surgical	57	Extension continue traction set
Surgical	Surgical	58	Thoracic set
Imagery	Imagery	59	Examination Table
Imagery	Imagery	60	Ultrasound Apparatus, B/W
Imagery	Imagery	61	General Diagnostic X-Ray Unit
Imagery	Imagery	62	C-Arm Mobile X-Ray Unit for Surgical Unit
Imagery	Imagery	63	Mobile X-Ray Unit
Imagery	Imagery	64	Automatic X-Ray Film Processor

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ANNEX-8: List of Requested Equipment

List of Requested Equipment - 3

Building	Department	Item No.	Description
Imagery	Imagery	65	Ultrasound Doppler
Imagery	Imagery	66	Fiberscope
Imagery	Imagery	67	cystoscope
Imagery	Imagery	68	X-Ray Film Illuminator
Imagery	Imagery	69	Film drier
Imagery	Imagery	70	ECG unit
Operation	Operation	71	Universal Operating Table
Operation	Operation	72	Operating Table with Leg Traction Apparatus
Operation	Operation	73	Operating Lamp, Ceiling type
Operation	Operation	74	Anesthesia Apparatus with Ventilator
Operation	Operation	75	Anesthesia Instrument Table
Operation	Operation	76	Anesthetist's Revolving Stool
Operation	Operation	77	Electrosurgical Unit
Operation	Operation	78	Electric Suction Unit
Operation	Operation	79	Patient Monitor
Operation	Operation	80	Defibrillator
Operation	Operation	81	Stretcher, folding
Operation	Operation	82	Stretcher, wheel
Operation	Operation	83	Emergency trolley
Operation	Operation	84	X-Ray Film Illuminator
Operation	Operation	85	Light Operating, Emergency
Operation	Operation	86	Autoclave, Table top
Operation	Operation	87	Cart dressing/dispensing
Operation	Operation	88	Hand scrub unit
Operation	Sterilizing	89	Sterilizing Machine
Operation	Sterilizing	90	Work Table, Stainless steel
Emergency	Emergency	91	Automatic respirator
Emergency	Emergency	92	Laryngoscope box one set
Emergency	Emergency	93	Oxygen concentrator
Emergency	Emergency	94	Electric syringe
Emergency	Emergency	95	Glucosmeter
Emergency	Emergency	96	Pulse oxymeter

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ANNEX-3: List of Requested Equipment

List of Requested Equipment - 4

Building	Department	Item No.	Description
Emergency	Emergency	97	Patient Monitor
Emergency	Emergency	98	Endotracheal Tube
Emergency	Emergency	99	Mask balloon
Emergency	Emergency	100	Suction machine and its accessories
Emergency	Emergency	101	Defibrillator
Emergency	Emergency	102	ECG unit
Emergency	Emergency	103	Resuscitator, adult
Emergency	Emergency	104	Examination Table
Emergency	Emergency	105	Patient Revolving Stool
Emergency	Emergency	106	Electric Tourniquet
Emergency	Emergency	107	Infusion Pump
Emergency	Emergency	108	Electric Suction Unit
Emergency	Emergency	109	Oxygen Inhaler Apparatus
Emergency	Emergency	110	Sphygmomanometer, Floor Stand Type
Emergency	Emergency	111	Diagnostic Instrument Set
Emergency	Emergency	112	Instrument Boiling Sterilizer, Desk Top
Emergency	Emergency	113	Denudating set
Emergency	Emergency	114	ICU Bed
Emergency	Emergency	115	Examination Light
Emergency	Emergency	116	Stretcher, wheel
Emergency	Emergency	117	Autoclave, Table top

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Annex-4: Japan's Grant Aid Scheme

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedure
 - 1) Japan's Grant Aid Program is executed through the following procedures.

Application	(Request made by a recipient country)
Study	(Basic Design Study conducted by JICA)
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by Cabinet)
Determination of Implementation	(The Notes exchanged between the Governments of Japan and the recipient country)
 - 2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request. If necessary, JICA send a Preliminary Study Team to the recipient country to confirm the contents of the request.

Secondly, JICA conducts the study (Basic Design Study), using Japanese consulting firms.

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, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

2. Basic Design Study
 - 1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project"), is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:
 - a) Confirmation of the background, objectives and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation;

- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from the technical, social and economic points of view;
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project;
- d) Preparation of a basic design of the Project; and
- e) Estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even through they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

- 2) Selection of Consultants
For the smooth implementation of the Study, JICA uses a consulting firm selected through its own procedure (competitive proposal). The selected firm participates the Study and prepares a report based upon the terms of reference set by JICA.

At the beginning of implementation after the Exchange of Notes, for the services of the Detailed Design and Construction Supervision of the Project, JICA recommends the same consulting firm which participated in the Study to the recipient country, in order to maintain the technical consistency between the Basic Design and Detailed Design as well as to avoid any undue delay caused by the selection of a new consulting firm.

- 3. Japan's Grant Aid Scheme
 - 1) Exchange of Notes (E/N)
Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.
 - 2) "The period of the Grant" means the one fiscal year which the Cabinet approves the project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with consulting firms and contractors and final payment to them must be completed.
However, in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.
 - 3) Under the Grant, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

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

However, the prime contractors, namely consulting, contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

- 4) Necessity of "Verification"
The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability of Japanese taxpayers.
- 5) Undertakings required to the Government of the recipient country
 - a) To secure a lot of land necessary for the construction of the Project and to clear the site;
 - b) To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities outside the site;
 - c) To ensure prompt unloading and customs clearance at ports of disembarkation in the recipient country and internal transportation therein of the products purchased under the Grant Aid;
 - d) To exempt Japanese nationals from customs duties, internal taxes and fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts;
 - e) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work;
 - f) To ensure that the facilities constructed and products purchased under the Grant Aid be maintained and used properly and effectively for the Project; and
 - g) To bear all the expenses, other than those covered by the Grant Aid, necessary for the Project.
- 6) "Proper Use"
The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for operation and maintenance of them as well as to bear all the expenses other than those covered by the Grant Aid.
- 7) "Re-export"
The products purchased under the Grant Aid shall not be re-exported from the recipient country.
- 8) Banking Arrangement (B/A)
 - a) The Government of the recipient country or its designated authority should 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 the Government of the recipient country or its designated authority under the verified contracts.

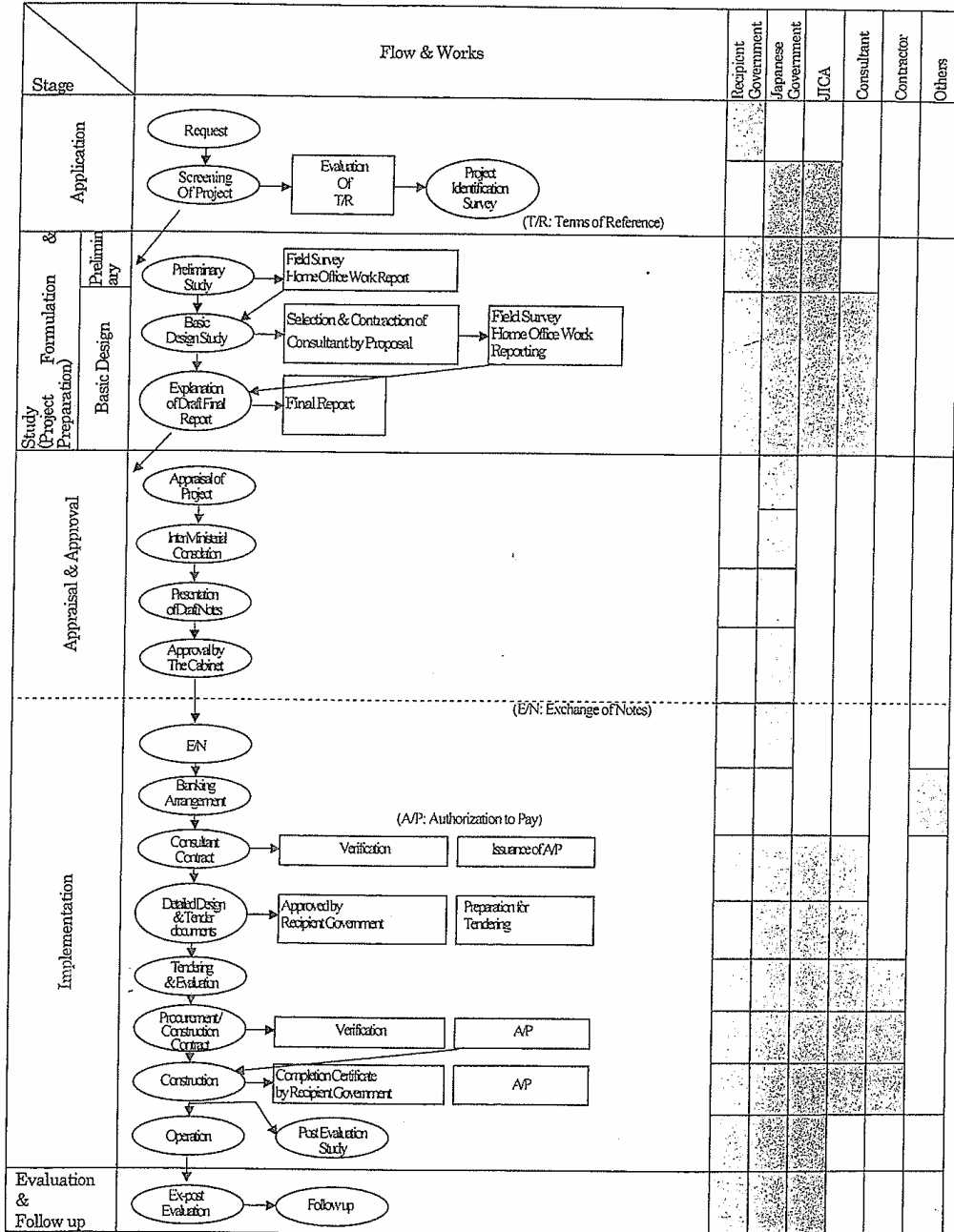
- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of recipient country or its designated authority.

- 9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commission to the Bank.

BY 16

Annex-5: Flow Chart of Japan's Grant Aid Procedures



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Annex-6: Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	To secure land		●
2	To clear, level and reclaim the site when needed		●
3	To construct gates and fences in and around the site		●
4	To construct the parking lot		●
5	To construct roads		
	1) Within the site	●	
	2) Outside the site		●
6	To construct the buildings	●	
7	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities		
	1) Electricity		
	a. The distributing line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The Main circuit breaker and transformer	●	
	2) Water Supply		
	a. The city water distribution main to the site		●
	b. The supply system within the site (receiving and elevated tanks)	●	
	3) Drainage		
	a. The city drainage main (for storm, sewer and others) to the site		●
	b. The drainage system (for toilet sewer, ordinary waste, storm drainage and others) within the site	●	
	4) Gas Supply		
	a. The city gas main to the site		●
	b. The gas supply system within the site	●	
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		●
	b. The MDF and the extension after the frame/panel	●	
	6) Furniture and Equipment		
	a. General furniture		●
	b. Project equipment	●	
8	To bear the following commissions to the Japanese foreign exchange bank for the banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
9	To ensure unloading and customs clearance at port of disembarkation in recipient country		
	1) Marine (Air) transportation of the products from Japan to the recipient country	●	
	2) Tax exemption and custom clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	●	
10	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.		●
11	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts.		●
12	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant		●
13	To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and installation of the equipment		●

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6. Memorandum of Basic Design Study

**MEMORANDUM
FOR
THE PROJECT FOR IMPROVEMENT OF KAMPONG CHAM HOSPITAL
IN KAMPONG CHAM PROVINCE,**

May 9th, 2006

Through talks between the Government of Cambodia, the Ministry of Health, and the Basic Design Study Team and the exchanged of Minutes on April 28th, 2006, both parties have confirmed the issues concerning the Project for Improvement of Kampong Cham Hospital in Kampong Cham Province as follows:

1. The Schedule of the Basic Design Study Team

- (1) The schedule of Mr. Hiroyuki Koike, Mr. Yoshifumi Hoshiai and Mr. Shigehito Akagi remains as mentioned in the Inception Report. Mr. Hiroyuki Koike is supposed to leave Cambodia on May 11th, 2006. Mr. Yoshifumi Hoshiai and Mr. Shigehito Akagi are supposed to leave Cambodia on May 14th. The other consultants have already left Cambodia to Japan.
- (2) After the Basic Design Study Team further studied and analyzed the received project data and information, they will visit Cambodia again for the explanation of the Draft Report of the Basic Design Study.

2. Project Concept

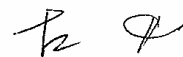
The objective of the Project is to improve the health and medical services of Kampong Cham Hospital by re-constructing old ramshackle and dangerous facilities, and by renewing old equipment that was exceeded their estimated service life.

The maximum contents of new building and equipment plan were proposed by the Basic Design Study Team and agreed on by Kampong Cham Hospital as follows:

1) Project Site

The project site shall be located at the east side of Kampong Cham Hospital. The existing buildings and facilities in the project site such as Pharmacy, HIV Ward, School building, Ob/Gy & Surgery Ward, Operation & X-Ray, electrical poles, drainpipes, underground obstetrics, and etc. shall be removed, cleared and leveled by the Cambodian side. The site shall be prepared with an extent necessary for the construction of new buildings.

The preparation date and range of the construction site is informed later according to the construction stage by the Team.



- a) The topographical survey started on April 25th, 2006 and completed the May 1st.
The data obtained will be analyzed in Japan.
- b) The load-bearing test will start after finalizing block plan.

2) Block Plan

The Consultants proposed two block plans to Kampong Cham Hospital and the basic idea were agreed on refer to Annex-1, -2.

3. Contents of Building Components

1) Obstetrics/Gynecology and Surgery Department:

a) Surgery:

Surgery Ward for Male, Surgery Ward for Female and children, Private Bed Room, Nurse Station, Treatment Room, Conference room, Staff Room, Store, Toilet and Shower, Day Room, etc.

b) Obstetrics/Gynecology:

Obstetrics Ward, Gynecology Ward, Private Bed Room, Delivery Room, Labor Room, Eclampsia Room, Nurse Station, Treatment Room, Ultrasound Room, Gynecological Counseling Room, Consultation Room for PMTCT (Ante-natal Care), Doctor Room for Men, Doctor Room for Female, Conference room, Staff Room, Store, Toilet and Shower, Day Room, etc.

2) Operation Theater:

Post-Operation Ward, ICU, Operation Room, Preparation Room, Store for Equipment, Staff Room for Male, Staff Room for Female, Doctor Room, Meeting Room, Office, Hand Washing Area, Oxygen Distribution Room, Store for Cleaning, Instrument Washing and Assembling Room, Sterilization Room, Sterilized Room, Linen Washing and Drying Room, Toilet and Shower, etc.

3) Emergency:

Reception/Nurse Station, Consultation Room, Minor Operation Room, Preparation Room, Sterilization Room, Utility Room, Observation Room, Doctor Room, Staff Room for Men, Staff Room for Female, Toilet and Shower, Store for Cleaning, etc.

4) Imaginary:

X-Ray Room, Ultrasound Room, Fiberscope Room, ECG Room, Dark Room, Radiologist Room, Reception, Equipment Store, Film Store, etc.

5) Technical Support Service:

Generator Room, Store, Work Shop, Electrical Room, Pump Room, Water Tank, Toilet, etc.

6) Building Structure

The structure of the new buildings will be determined by the Consultants after the analysis of data in Japan according to the building volume, usage and the condition of the construction site.

7) Mechanical/Electrical Component

Each mechanical and electrical component of the new buildings will be determined by the Consultants after the analysis of data in Japan.

The emergency generator and sewage treatment tank will not cover whole hospital but cover new building.

4. Equipment Plan

After discussions with the Team, the Cambodian side finally requested the items with priority for Equipment described in Annex-3.

5. Confirmation Item

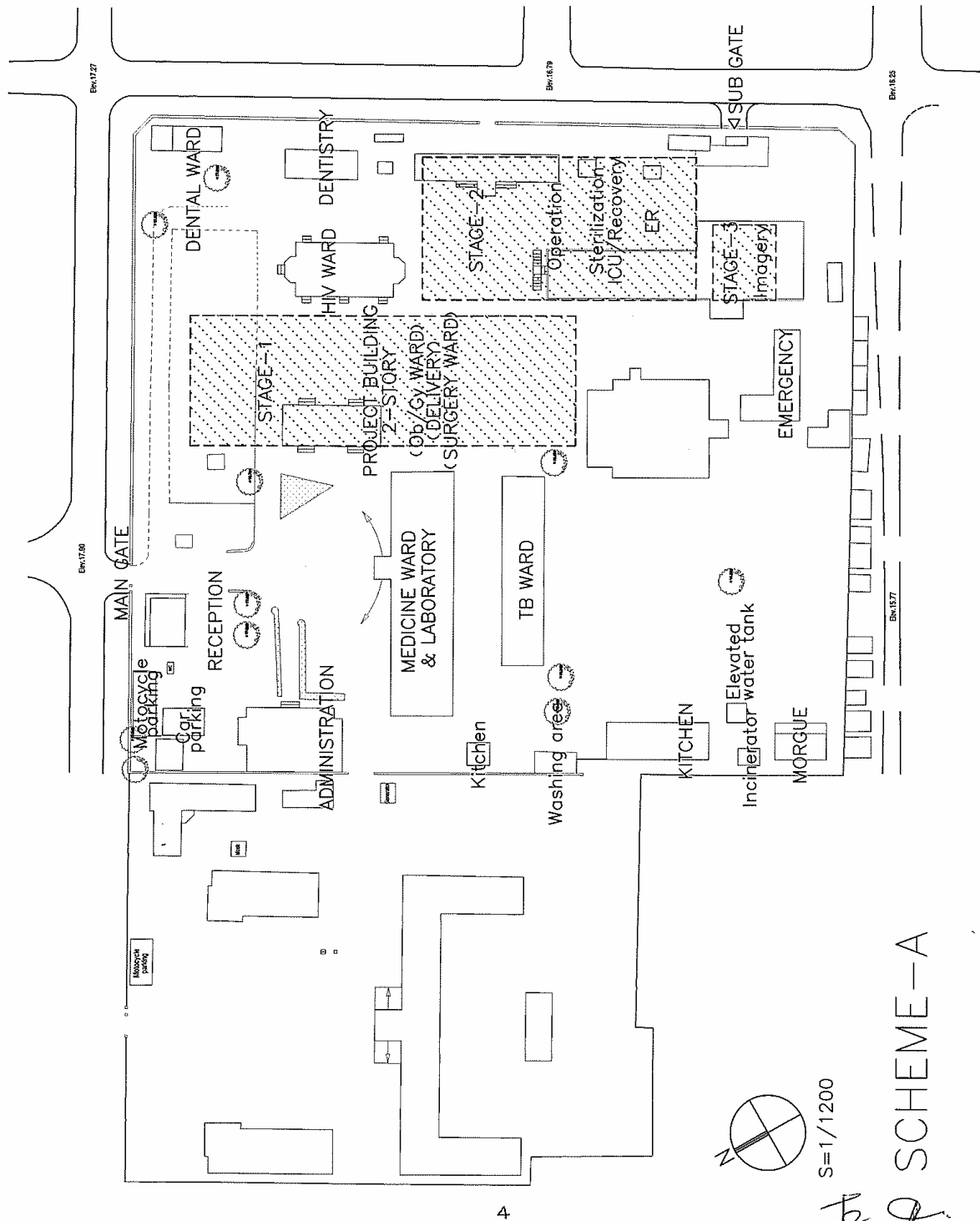
- (1) Priority of the project components is based on the Attachment 7-1 of the Minutes of Discussions on April 28th, 2006.
- (2) After the Basic Design Study Team analyzed the data of Kampong Cham Hospital, the Team will decide the block-plan, the project components, volume and contents, the number of rooms and number of equipments.
- (3) The Team recommended the Hospital to take necessary action for management of garbage disposal in the Hospital.



Mr. Hiroyuki Koike
Chief Consultant / Architect
Azusa Sekkei Co.,Ltd.



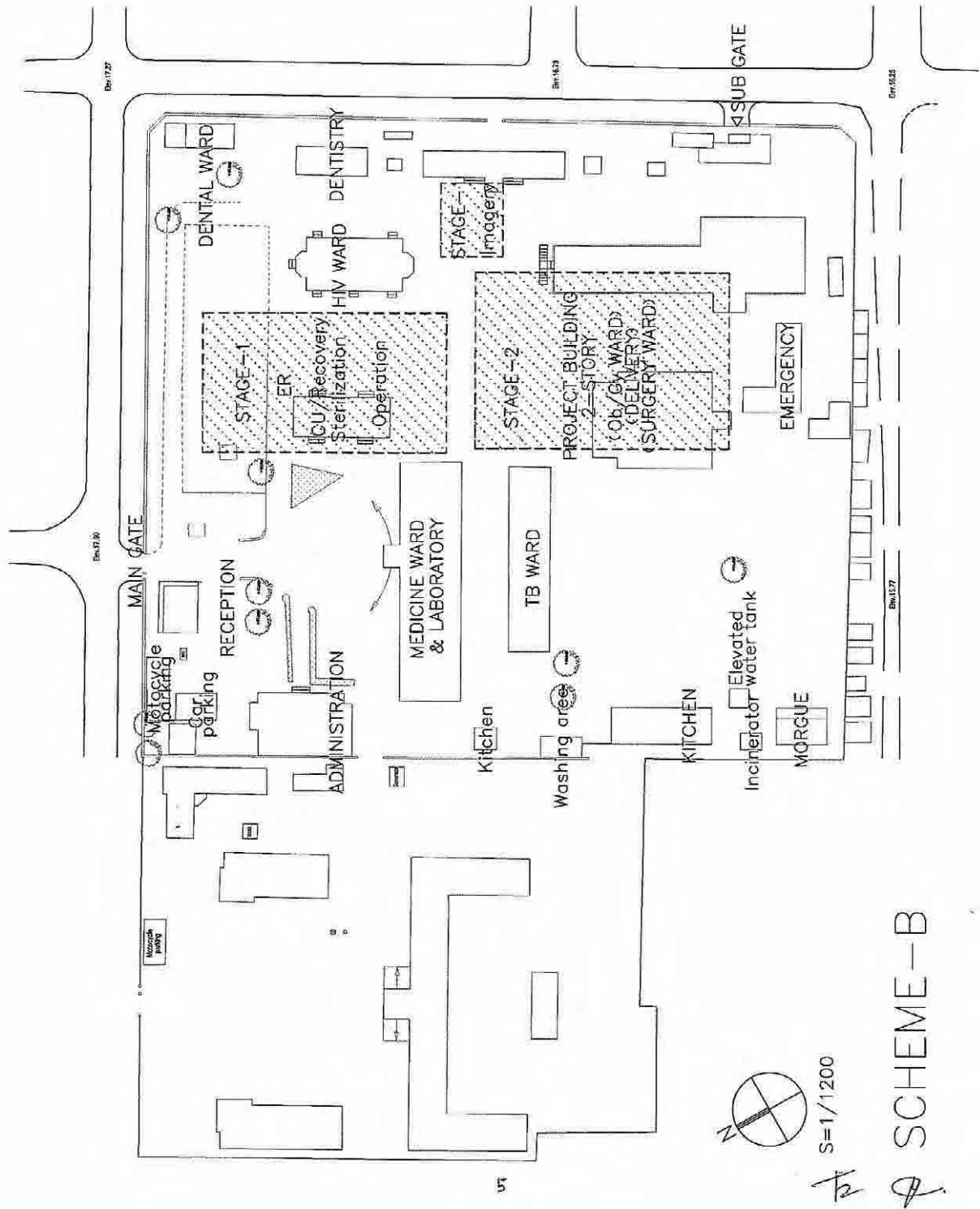
Dr. Meas Chea
Director of Kampong Cham Hospital
Ministry of Health
Kingdom of Cambodia



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SCHEME-A



List of Requested Equipment

Building	Department	Item No.	Description	Hospital's Priority
OBGY	Obstetric	1	Delivery Bed	A
OBGY	Obstetric	2	Operating Lamp, Ceiling type	A
OBGY	Obstetric	3	Fetal Monitor	A
OBGY	Obstetric	4	Vacuum Extractor	B
OBGY	Obstetric	5	Suction Unit	B
OBGY	Obstetric	6	Automatic Resuscitator	A
OBGY	Obstetric	7	Doppler, fetal heart detector	C
OBGY	Obstetric	8	Pump breast, manual	B
OBGY	Obstetric	9	X-Ray Film Illuminator	B
OBGY	Obstetric	10	Cesarean section set	A
OBGY	Obstetric	11	Labor Bed	B
OBGY	Obstetric	12	Weighing Scale, baby	B
OBGY	Obstetric	13	Dilatation & Curettage set	A
OBGY	Obstetric	14	Hand scrub unit	A
OBGY	Newborn	15	Infant Incubator	A
OBGY	Newborn	16	Neonatal Monitor	A
OBGY	Newborn	17	Infant Care Center	B
OBGY	Newborn	18	Infusion Pump	A
OBGY	Newborn	19	Suction Unit	B
OBGY	Newborn	20	Phototherapy (violet light)	A
OBGY	Newborn	21	Bilirubine meter	A
OBGY	Newborn	22	Resuscitator, infant	A
OBGY	Newborn	23	Cot	B
OBGY	Gynecology	24	Examination Table	A
OBGY	Gynecology	25	Gynecological Examining Table	B
OBGY	Gynecology	26	Gynecological Examining set	A
OBGY	Gynecology	27	X-Ray Film Illuminator	B
OBGY	Gynecology	28	Examination Light	A
OBGY	Gynecology	29	Doppler Fetus Detector	C
OBGY	Gynecology	30	Colposcope	B
OBGY	Gynecology	31	Coagulator for Cervical Lesion	A
OBGY	Gynecology	32	Suction Unit	B



List of Requested Equipment

Building	Department	Item No.	Description	Hospital's Priority
OBGY	Gynecology	33	Automatic Resuscitator	A
OBGY	Gynecology	34	Resuscitator, Hand-driven	A
OBGY	Gynecology	35	Instrument Boiling Sterilizer, Desk Top	A
OBGY	Gynecology	36	Autoclave, Table top	A
OBGY	Gynecology	37	Oxygen concentrator	A
OBGY	Gynecology	38	Wheel Chair	B
OBGY	Gynecology	39	Caesarian Hysterectomy set	A
OBGY	Gynecology	40	Cervic reparation set	A
OBGY	Gynecology	41	Bed	B
Surgical	Surgical	42	Abdominal surgical set	A
Surgical	Surgical	43	Orthopedic surgical set	A
Surgical	Surgical	44	Suction Unit	B
Surgical	Surgical	45	Oxygen concentrator	A
Surgical	Surgical	46	Autoclave, Table top	C
Surgical	Surgical	47	X-Ray Film Illuminator	C
Surgical	Surgical	48	Bed	A
Surgical	Surgical	49	Automatic Resuscitator	B
Surgical	Surgical	50	Resuscitator, Hand-driven	A
Surgical	Surgical	51	Stretcher, wheel	A
Surgical	Surgical	52	Treatment Table	A
Surgical	Surgical	53	Vascular surgical set	A
Surgical	Surgical	54	Craniotomy Instrument set	B
Surgical	Surgical	55	Urology set	A
Surgical -	Surgical	56	Amputation set	A
Surgical	Surgical	57	Extension continue traction set	B
Surgical	Surgical	58	Thoracic set	B
Imagery	Imagery	59	Examination Table	A
Imagery	Imagery	60	Ultrasound Apparatus, B/W	B
Imagery	Imagery	61	General Diagnostic X-Ray Unit	B
Imagery	Imagery	62	C-Arm Mobile X-Ray Unit for Surgical Unit	B
Imagery	Imagery	63	Mobile X-Ray Unit	A
Imagery	Imagery	64	Automatic X-Ray Film Processor	A

List of Requested Equipment

Building	Department	Item No.	Description	Hospital's Priority
Imagery	Imagery	65	Ultrasound Doppler	A
Imagery	Imagery	66	Fiberscope	A
Imagery	Imagery	67	cystoscope	A
Imagery	Imagery	68	X-Ray Film Illuminator	B
Imagery	Imagery	69	Film drier	B
Imagery	Imagery	70	ECG unit	A
Operation	Operation	71	Universal Operating Table	A
Operation	Operation	72	Operating Table with Leg Traction Apparatus	A
Operation	Operation	73	Operating Lamp, Ceiling type	A
Operation	Operation	74	Anesthesia Apparatus with Ventilator	A
Operation	Operation	75	Anesthesia Instrument Table	A
Operation	Operation	76	Anesthesist's Revolving Stool	A
Operation	Operation	77	Electrosurgical Unit	A
Operation	Operation	78	Electric Suction Unit	A
Operation	Operation	79	Patient Monitor	A
Operation	Operation	80	Defibrillator	A
Operation	Operation	81	Stretcher, folding	A
Operation	Operation	82	Stretcher, wheel	A
Operation	Operation	83	Emergency trolley	A
Operation	Operation	84	X-Ray Film Illuminator	B
Operation	Operation	85	Light Operating, Emergency	A
Operation	Operation	86	Autoclave, Table top	B
Operation	Operation	87	Cart dressing/dispensing	A
Operation	Operation	88	Hand scrub unit	A
Operation	Sterilizing	89	Sterilizing Machine	A
Operation	Sterilizing	90	Work Table, Stainless steel	A
Emergency	Emergency	91	Automatic respirator	A
Emergency	Emergency	92	Laryngoscope box one set	A
Emergency	Emergency	93	Oxygen concentrator	A
Emergency	Emergency	94	Electric syringe	A
Emergency	Emergency	95	Glucosmeter	A
Emergency	Emergency	96	Pulse oxymeter	A

List of Requested Equipment

Building	Department	Item No.	Description	Hospital's Priority
Emergency	Emergency	97	Patient Monitor	A
Emergency	Emergency	98	Endotracheal Tube	A
Emergency	Emergency	99	Mask balloon	A
Emergency	Emergency	100	Suction machine and its accessories	A
Emergency	Emergency	101	Defibrillator	A
Emergency	Emergency	102	ECG unit	A
Emergency	Emergency	103	Resuscitator, adult	A
Emergency	Emergency	104	Examination Table	A
Emergency	Emergency	105	Patient Revolving Stool	A
Emergency	Emergency	106	Electric Tourniquet	A
Emergency	Emergency	107	Infusion Pump	A
Emergency	Emergency	108	Electric Suction Unit	A
Emergency	Emergency	109	Oxygen Inhaler Apparatus	B
Emergency	Emergency	110	Sphygmomanometer, Floor Stand Type	A
Emergency	Emergency	111	Diagnostic Instrument Set	A
Emergency	Emergency	112	Instrument Boiling Sterilizer, Desk Top	B
Emergency	Emergency	113	Denudating set	A
Emergency	Emergency	114	ICU Bed	A
Emergency	Emergency	115	Examination Light	A
Emergency	Emergency	116	Stretcher, wheel	A
Emergency	Emergency	117	Autoclave, Table top	A

7. Minutes of Discussions of Draft Report Explanation

MINUTES OF DISCUSSIONS
ON EXPLANATION OF FINAL DRAFT REPORT
OF BASIC DESIGN STUDY FOR THE PROJECT
FOR IMPROVEMENT OF KAMPONG CHAM HOSPITAL
IN KAMPONG CHAM PROVINCE IN KINGDOM OF CAMBODIA

In April and May, 2006, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for Improvement of Kampong Cham Hospital in Kampong Cham Province (hereinafter referred to as "the Project") to the Kingdom of Cambodia represented by the Ministry of Health (hereinafter referred to as "Cambodia"), and through discussion, field survey, and technical examination of the study results in Japan, JICA prepared a draft final report of the study.

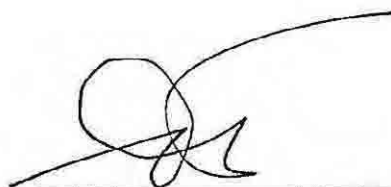
In order to explain and to consult the Cambodia side on the components of the draft final report, JICA sent to Cambodia the Draft Final Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Shumon Yoshiara, Team Director, Health Team, Project Management Group II, Grant Aid Management Department, from February 20 to March 5, 2007.

In the course of discussions and field survey, both parties have confirmed the main items described in the Attachment.

Phnom Penh, February 28, 2007



Mr. Shumon Yoshiara
Leader
Draft Report Explanation Team
Japan International Cooperation
Agency



Prof. Eng Huot
Secretary of State for Health
Ministry of Health
Kingdom of Cambodia

ATTACHMENT

1. Components of the Draft Final Report

The Royal Government of Cambodia agreed and accepted in principle the components of the draft final report explained by the Team.

2. Japan's Grant Aid scheme

The Cambodia side understands the Japan's Grant Aid Scheme and the necessary measures to be taken by the Royal Government of Cambodia as explained by the Team and described in Annex-4, Annex-5 and Annex-6 of the Minutes of Discussions signed by both parties on April 28, 2006.

3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to the Royal Government of Cambodia by the end of April, 2007.

4. Other relevant issues

4-1. Both sides agreed that the components of the Project and phase plan by attached Annex-1 and Annex-3.

4-2. The Cambodia side agrees to take necessary action before starting the construction for the followings;

- Confirming that the Director of Provincial Country Planning Urbanization and Construction Department of Kampong Cham Province will authorize the construction of Kampong Cham Hospital before starting the construction.

4-3. The Cambodia side agrees to demolish and remove or transfer the following items before the commencement of the construction by attached Annex-1 and Annex-2.

- Demolish Buildings

- Pharmacy building, Ob / Gy & Surgery Ward, Seminar building, Patient toilet

- Remove or transfer Obstacles

- Underground pipes and obstacles, overhead electric wire and utility poles, trees and other stand in the site

4-4. The Cambodia side agrees to provide sufficient number of staff for management and maintenance of the facilities and equipment provided by the Project.

4-5. The Cambodia side agrees to allocate the Kampong Cham Hospital necessary budget for management and maintenance cost such as salary, water and electricity charges for facilities, repairs, spare parts, reagents, consumables and periodical or annual maintenance contracts after delivery of the equipment provided by the Project.

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4-6. The Cambodia side requested following modification of the floor plan;

- Second floor of the surgery ward.
 - Change from 3-bed room (near treatment room) to Plaster room
 - Change from 1-bed room to 3-bed room
 - Change from 3-bed room (near conference room) to 4-bed room
 - Change from Day room (near nurse station) to Doctor room
- Ob / Gy ward.
 - Handicap WC near Delivery section delete and spread washing space.
 - Oxygen room transfers to under the staircase.
 - Entrance of Eclampsia room modify to corridor from preparation room

4-7. Both sides confirmed that the detailed drawings and specifications of the facilities and equipment and other technical information shall not be released before the tender to be held during the implementation of the Project.

Annex-1: Components of the request by the Cambodia side and Layout and Phase plan

Annex-2: Demolish Plan by phase

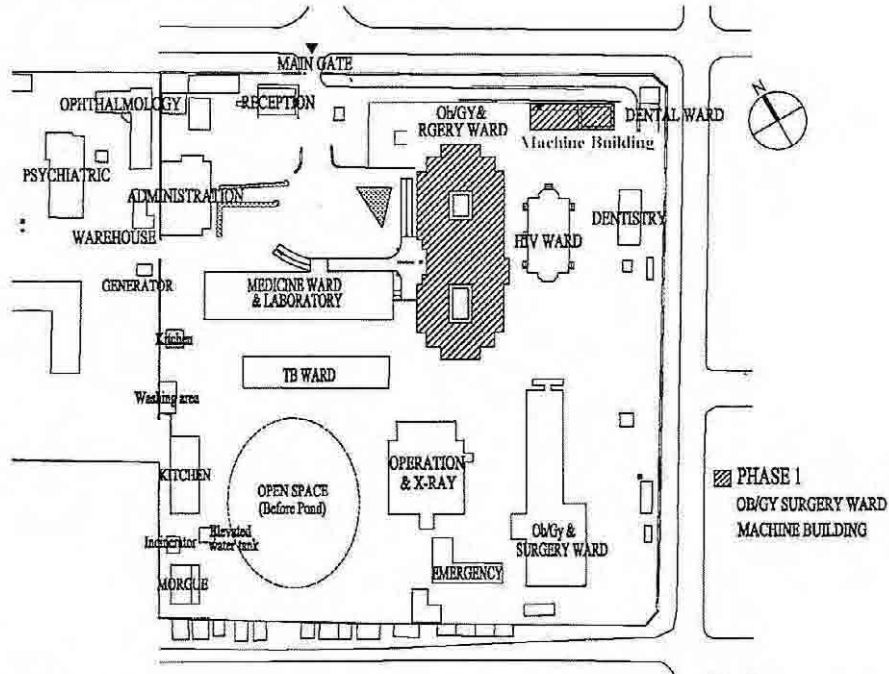
Annex-3: Final List of equipment requested by the Cambodia side

By J

Components of the request by the Cambodia side and Phase plan

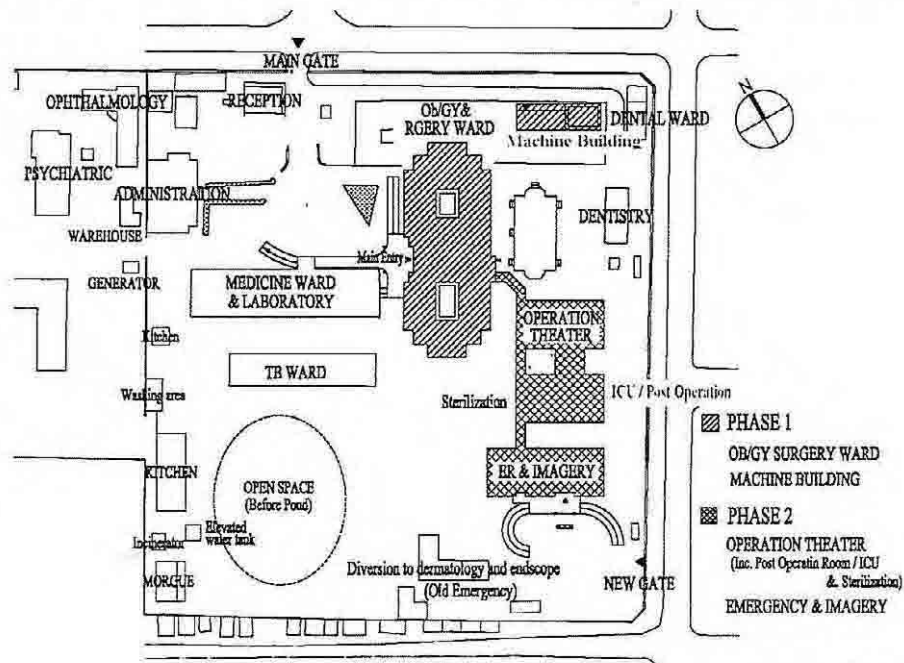
Phase I

Ob / Gy & Surgery Ward, Machine Building

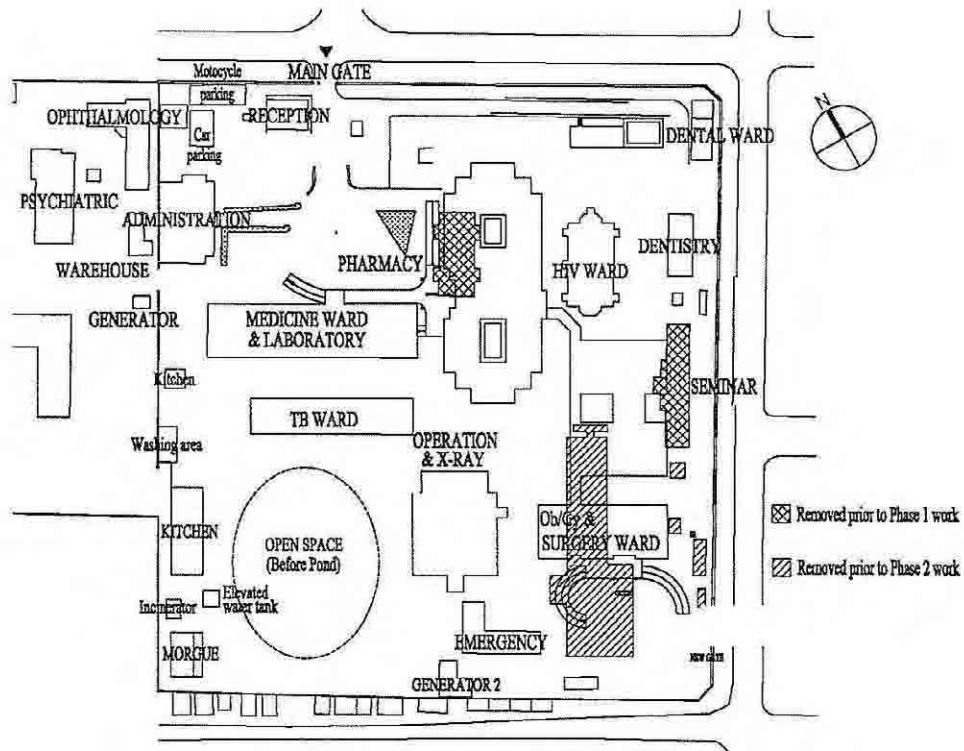


Phase II

Operation Theater (Inc. Post Operation/ICU, Sterilization), Emergency & Imagery Building



Demolish Plan



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Annex-3

Final List of equipment requested by the Cambodia side

Item No.	Description	Q'ty
1	Delivery Bed	2
2	Operating Lamp, mobile type	4
3	Vacuum Extractor	1
4	Suction Unit, Small	5
5	Doppler, Fetal Heart Detector	1
6	Pump breast, Manual	5
7	Labor Bed	2
8	Weighing Scale, Baby	2
9	Infant Incubator	2
10	Infant Care Center	1
11	Phototherapy (Violet light)	1
12	Bilirubin meter	1
13	Resuscitator, Infant	2
14	Baby Cot	2
15	Examination Table	10
16	Gynecological Examining Table	1
17	Gynecological Examining set	2
18	X-Ray Film Illuminator	15
19	Examination Light	5
20	Resuscitator, Hand-driven	5
21	Instrument Boiling Sterilizer, Desk Top	3
22	Autoclave, Table top	2
23	Wheel Chair	3
24	Bed	138
25	Ultrasound Apparatus for Obstetrics and Gynecology, B/W	1
26	Stretcher, wheel	5
27	General Diagnostic X-Ray Unit	1
28	C-Arm Mobile X-Ray Unit for Surgical Unit	1
29	Mobile X-Ray Unit	1
30	Automatic X-Ray Film Processor, Small	1
31	Ultrasound Doppler, Abdominal	1
32	ECG unit	2
33	Universal Operating Table	3
34	Operating Table with Leg Traction Apparatus	1
35	Operating Lamp, Ceiling type	3

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LIST OF REQUESTED FINAL EQUIPMENT

Item No.	Description	Q'ty
36	Anesthesia Apparatus with Ventilator	3
37	Anesthesia Instrument Table	3
38	Anesthesist's Revolving Stool	3
39	Electrosurgical Unit	3
40	Electric Suction Unit	5
41	Patient Monitor	7
42	Defibrillator	2
43	Emergency trolley	2
44	Cart dressing/dispensing	4
45	Infusion Pump	2
46	Cesarean section set	2
47	Dilatation & Curettage set	2
48	Caesarian Hysterectomy set	2
49	Cervic reparation set	2
50	Abdominal surgical set	2
51	Orthopedic surgical set	2
52	Vascular surgical set	2
53	Urology set	2
54	Amputation set	2
55	Extension continue traction set	2
56	Thoracic set	2
57	Laryngoscope box one set	4
58	Instruments cabinet	4
59	Sterilizing Machine	1
60	Work Table, Stainless steel	2
61	Pulse oxymeter	1
62	Patient Revolving Stool	1
63	Oxygen Inhaler Apparatus	13
64	Sphygmomanometer, Floor Stand Type	3
65	Diagnostic Instrument Set	2
66	Denudating set	1
67	Glucose meter	1
68	ICU Bed	8

By G

8. List of References / Documents Obtained

No	Document Name	Issued by	Issuance year
1	“Health Sector Strategic Plan 2003 – 2007” Summary	Ministry of Health	2002
2	“Health Sector Strategic Plan 2003 – 2007”	Ministry of Health	2002
3	“National Health Statistics” 2001, 2002, 2003	Ministry of Health	2002, 2003, 2004
4	Second Biennial Review of the Health Workforce Development Plan 1996-2005	Ministry of Health	2001
5	“Complementary Package of Activities: Building Brief – Referral Hospitals”	Ministry of Health	2003
6	“Complementary Package of Activities: Guidelines for the Referral Hospitals 2003-2007”	Ministry of Health	2003
7	“Medical Equipment Standard List for CPA3 Referral Hospital”	Ministry of Health	2004
8	“Medical Equipment Standard List for CPA2 Referral Hospital”	Ministry of Health	2004
9	“Medical Equipment Standard List for CPA1 Referral Hospital”	Ministry of Health	2004
10	ORC Macro “Cambodia Demographic and Health Survey 2000”	Ministry of Health, National Institute of Statistics	2001
11	“Project Administration Memorandum for the Loan to the Kingdom of Cambodia for the Health Sector Support Project”	Asian Development Bank	2003
12	“Cambodia Socio-Economic Survey 1999”	National Institute of Statistics	2000
13	Consumer Price Index, Phnom Penh	National Institute of Statistics	2007
14	Land Law	Ministry of Land Management, Urban Planning & Construction	2002
15	Sub-Decree on Air Pollution Control & Noise Disturbance	Ministry of Environment	2000
16	Basic Transportation Route to Cambodia from Thailand	Nissei Thai Co., Ltd.	2004
17	National Health Statistics 2003	Ministry of Health, Dept. of Planning and Health Information	2004
18	Integrated Supervision Checklist of Referral Hospital	Ministry of Health,	---

9. Result of Topographical and Geological Survey on the Project Site

1. INTRODUCTION

PISNOKA INTERNATIONAL CORPORATION is awarded to conduct plate load test for Kampong Cham hospital project by Azusa sekkei Co., Ltd.

Statistic plate load test is use to evaluate the bearing capacity soil for foundation construction of building and to verify the soil exploration result. The statistic plate load test is one of the most reliable methods for obtaining bearing capacity at the field. For this project the size of plate diameter is 300 mm, the size of plate area is 0.071 m² and 2 locations in the proposed building area is selected.

2. Equipment Arrangement

- The bearing test plate is attached to a hydraulic jack.
- 3 dial gages are attached to the jack for measuring settlement of the bearing plate.
- A unit truck is used as load cell applying on the jack.

3. Testing Procedure

The incremental pressure of 5.625ton/sq.m is applied and kept for every 30mn.

4. Field records and graphical presentation of the result

Bearing pressure and settlement are recorded for every 5mn for each load increment for a period of 30mn. Load settlement curves are presented in charts as attached herewith.

5. Valuation

6.1 Modulus of soil reaction, kv, will be calculated.

$$K_v = (\triangle p) / (\triangle s)$$

$\triangle p$: Area of load (kgf/cm²)

$\triangle s$: Settlement for $\triangle p$ (cm)

SETTELMENT GRAPHIC

Client : Azusa sekkei Co., Ltd.
File Number : 1645 / M / 2006
Date of Testing : June , 15 , 2006
Site Location : Kampong Cham Hospital
Subject : Plate Bearing test (A)
Test By : Men bunny

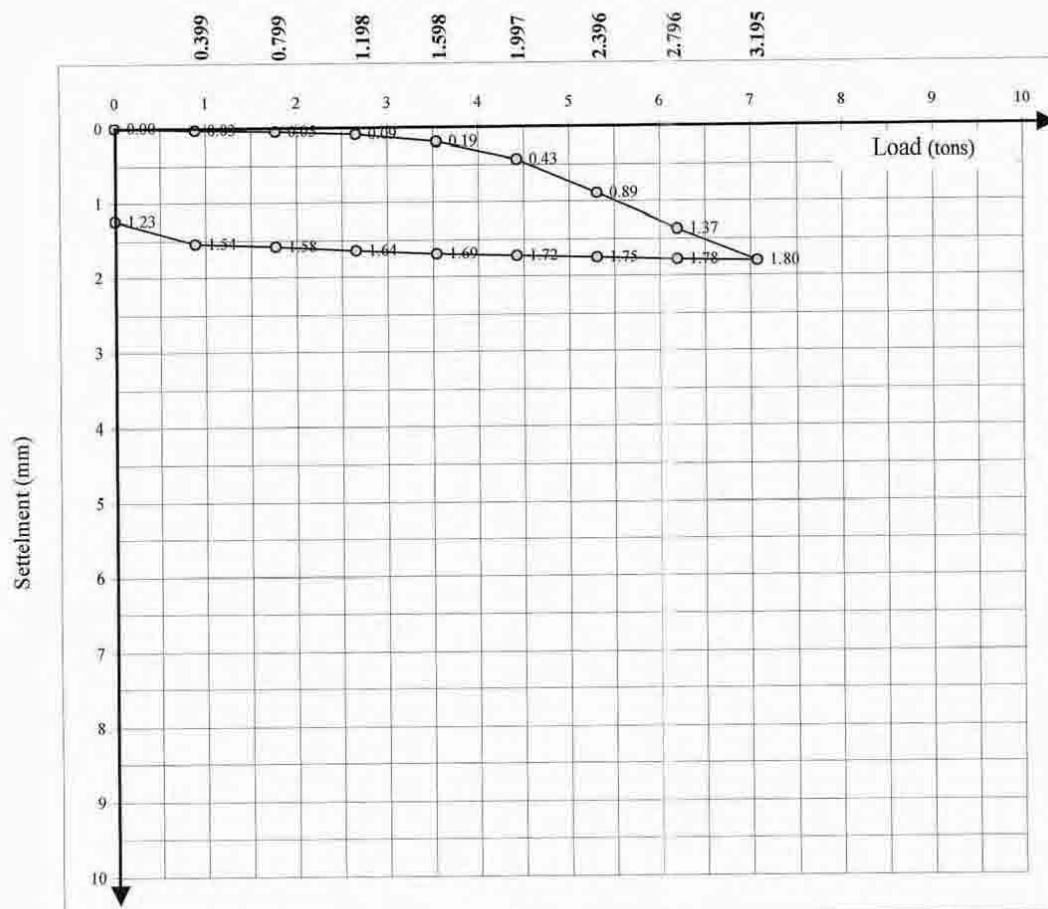


Plate Diameter $D = 300\text{mm}$

Plate Area $A = 0.071\text{m}^2$

The General Director of Laboratory .,



PLATE BEARING TEST

Client : Azusa sekkei Co., Ltd.
File Number : 1645 / M / 2006
Date of Testing : June , 15 , 2006
Site Location : Kampong Cham Hospital
Subject : Plate Bearing test (A)
Test By : Men bunny

N°	Load (Ton/m ²)	Field Used Load (Ton)	Time Interval (minute)	Dial Reading (0.01mm)			Average (0.01mm)	Settlement (mm)	Remarks
				1	2	3			
1	5.625	0.399	0	3	3	3	3	0.03	
			1min	3	4	3	3	0.03	
			2min	3	4	3	3	0.03	
			5min	3	4	3	3	0.03	
			10min	3	4	3	3	0.03	
			15min	3	4	3	3	0.03	
			20min	3	4	3	3	0.03	
			25min	3	4	3	3	0.03	
			30min	3	4	3	3	0.03	
2	11.250	0.799	0	3	6	5	5	0.05	
			1min	4	6	5	5	0.05	
			2min	5	6	5	5	0.05	
			5min	5	6	5	5	0.05	
			10min	5	6	5	5	0.05	
			15min	5	6	5	5	0.05	
			20min	5	6	5	5	0.05	
			25min	5	6	5	5	0.05	
			30min	5	6	5	5	0.05	
3	16.875	1.198	0	8	10	9	9	0.09	
			1min	8	10	9	9	0.09	
			2min	8	11	9	9	0.09	
			5min	8	11	9	9	0.09	
			10min	8	11	9	9	0.09	
			15min	8	11	9	9	0.09	
			20min	8	11	9	9	0.09	
			25min	8	11	9	9	0.09	
			30min	8	11	9	9	0.09	
4	22.500	1.598	0	13	18	17	16	0.16	
			1min	15	19	18	17	0.17	
			2min	15	20	18	18	0.18	
			5min	15	20	18	18	0.18	
			10min	16	20	19	18	0.18	
			15min	16	20	19	18	0.18	
			20min	16	21	19	19	0.19	
			25min	16	21	19	19	0.19	
			30min	16	21	19	19	0.19	

A

5	28.125	1.997	0	25	30	29	28	0.28	
			1min	29	35	35	33	0.33	
			2min	33	40	38	37	0.37	
			5min	35	41	39	38	0.38	
			10min	36	43	40	40	0.40	
			15min	37	44	41	41	0.41	
			20min	38	45	44	42	0.42	
			25min	38	46	44	43	0.43	
			30min	39	46	45	43	0.43	
6	33.750	2.396	0	56	74	75	68	0.68	
			1min	60	77	75	71	0.71	
			2min	63	79	77	73	0.73	
			5min	68	81	78	76	0.76	
			10min	80	90	88	86	0.86	
			15min	83	92	90	88	0.88	
			20min	83	92	90	88	0.88	
			25min	83	92	91	89	0.89	
			30min	83	92	91	89	0.89	
7	39.375	2.796	0	108	120	120	116	1.16	
			1min	114	126	126	122	1.22	
			2min	119	129	128	125	1.25	
			5min	122	133	136	130	1.30	
			10min	125	135	138	133	1.33	
			15min	126	136	139	134	1.34	
			20min	127	138	141	135	1.35	
			25min	128	139	142	136	1.36	
			30min	130	140	142	137	1.37	
8	45.000	3.195	0	155	168	170	164	1.64	
			1min	165	180	182	176	1.76	
			2min	165	180	182	176	1.76	
			5min	166	181	185	177	1.77	
			10min	170	184	186	180	1.80	
			15min	170	184	186	180	1.80	
			20min	170	184	186	180	1.80	
			25min	170	184	186	180	1.80	
			30min	170	184	186	180	1.80	
7	39.375	2.796	0	169	183	185	179	1.79	
			5min	168	182	184	178	1.78	Keep 5min
6	33.750	2.396	0	165	181	182	176	1.76	
			5min	164	180	181	175	1.75	Keep 5min
5	28.125	1.997	0	162	178	179	173	1.73	
			5min	161	177	178	172	1.72	Keep 5min
4	22.500	1.598	0	159	175	176	170	1.70	
			5min	158	173	175	169	1.69	Keep 5min
3	16.875	1.198	0	154	169	172	165	1.65	
			5min	153	168	171	164	1.64	Keep 5min
2	11.250	0.799	0	149	163	165	159	1.59	
			5min	148	162	164	158	1.58	Keep 5min
1	5.625	1.592	0	146	157	161	155	1.55	
			5min	145	156	160	154	1.54	Keep 5min
	0.000	0.000	0	118	130	138	129	1.29	
			5min	115	121	132	123	1.23	Keep 5min

SETTELMENT GRAPHIC

Client : Azusa sekkei Co., Ltd.
File Number : 1645 / M / 2006
Date of Testing : June , 15 , 2006
Site Location : Kampong Cham Hospital
Subject : Plate Bearing test (B)
Test By : Men bunny

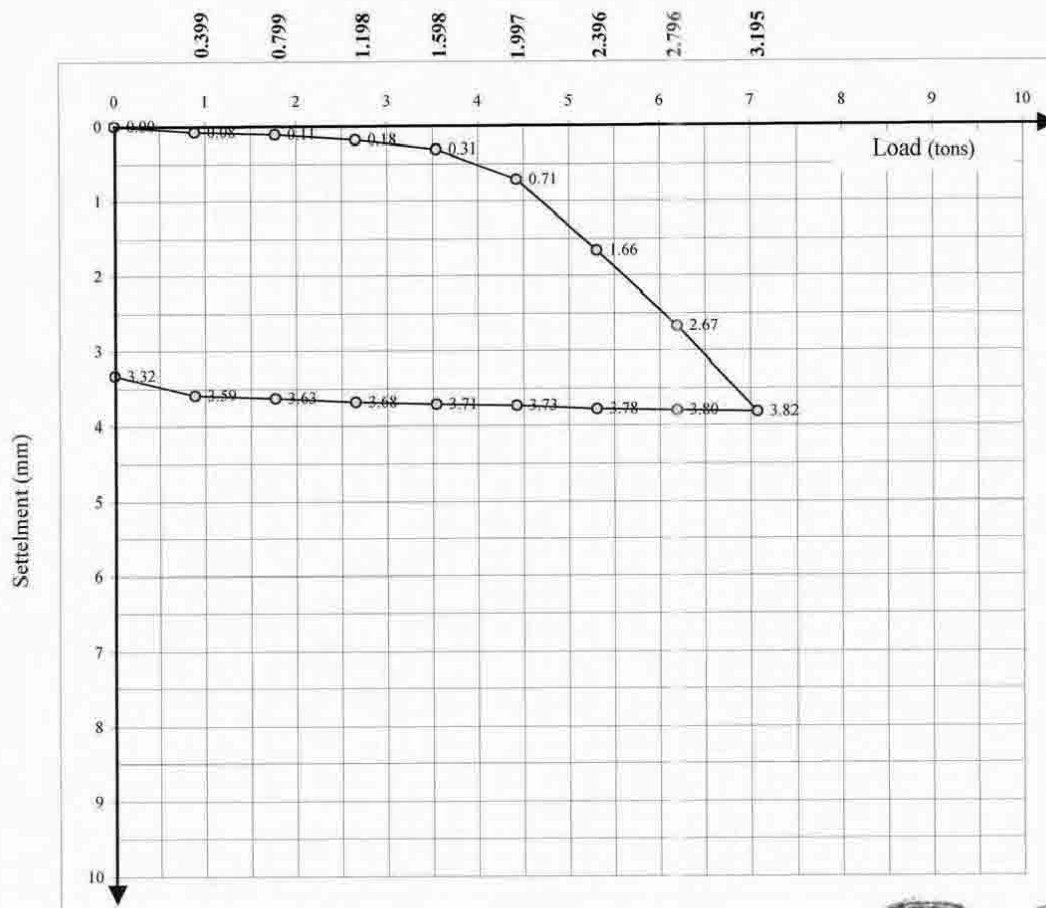


Plate Diameter $D = 300\text{mm}$
Plate Area $A = 0.071\text{m}^2$

The General Director of Laboratory .,



PLATE BEARING TEST

Client : Azusa sekkei Co., Ltd.
File Number : 1645 / M / 2006
Date of Testing : June , 15 , 2006
Site Location : Kampong Cham Hospital
Subject : Plate Bearing test (B)
Test By : Men bunny

N°	Load (Ton/m ²)	Field Used Load (Ton)	Time Interval (minute)	Dial Reading (0.01mm)			Average (0.01mm)	Settlement (mm)	Remarks
				1	2	3			
1	5.625	0.399	0	8	6	9	8	0.08	
			1min	8	6	9	8	0.08	
			2min	8	6	9	8	0.08	
			5min	8	6	9	8	0.08	
			10min	8	6	9	8	0.08	
			15min	8	6	9	8	0.08	
			20min	8	6	9	8	0.08	
			25min	8	6	9	8	0.08	
			30min	8	6	9	8	0.08	
2	11.250	0.799	0	12	8	12	11	0.11	
			1min	12	8	12	11	0.11	
			2min	12	9	13	11	0.11	
			5min	12	9	13	11	0.11	
			10min	12	9	13	11	0.11	
			15min	12	9	13	11	0.11	
			20min	12	9	13	11	0.11	
			25min	12	9	13	11	0.11	
			30min	12	9	13	11	0.11	
3	16.875	1.198	0	18	14	18	17	0.17	
			1min	19	14	19	17	0.17	
			2min	19	14	19	17	0.17	
			5min	20	15	20	18	0.18	
			10min	20	15	20	18	0.18	
			15min	20	15	20	18	0.18	
			20min	20	15	20	18	0.18	
			25min	20	15	20	18	0.18	
			30min	20	15	20	18	0.18	
4	22.500	1.598	0	27	21	24	24	0.24	
			1min	30	23	25	26	0.26	
			2min	31	23	25	26	0.26	
			5min	32	24	26	27	0.27	
			10min	34	25	27	29	0.29	
			15min	35	25	28	29	0.29	
			20min	35	26	28	30	0.30	
			25min	36	27	29	31	0.31	
			30min	36	27	29	31	0.31	



B

5	28.125	1.997	0	48	38	38	41	0.41	
			1min	62	48	47	52	0.52	
			2min	66	52	51	56	0.56	
			5min	73	57	56	62	0.62	
			10min	77	62	61	67	0.67	
			15min	78	63	62	68	0.68	
			20min	80	64	63	69	0.69	
			25min	80	65	64	70	0.70	
			30min	81	66	65	71	0.71	
6	33.750	2.396	0	98	85	86	90	0.90	
			1min	118	97	98	104	1.04	
			2min	125	113	114	117	1.17	
			5min	130	120	122	124	1.24	
			10min	139	129	131	133	1.33	
			15min	156	145	146	149	1.49	
			20min	163	149	152	155	1.55	
			25min	171	156	159	162	1.62	
			30min	175	161	163	166	1.66	
7	39.375	2.796	0	190	178	180	183	1.83	
			1min	207	197	200	201	2.01	
			2min	218	207	209	211	2.11	
			5min	223	215	216	218	2.18	
			10min	260	247	248	252	2.52	
			15min	267	254	255	259	2.59	
			20min	272	258	259	263	2.63	
			25min	275	260	262	266	2.66	
			30min	276	262	263	267	2.67	
8	45.000	3.195	0	287	280	281	283	2.83	
			1min	309	300	300	303	3.03	
			2min	323	316	315	318	3.18	
			5min	346	340	339	342	3.42	
			10min	358	353	350	354	3.54	
			15min	371	366	368	368	3.68	
			20min	381	375	374	377	3.77	
			25min	385	379	377	380	3.80	
			30min	387	381	379	382	3.82	
7	39.375	2.796	0	386	380	378	381	3.81	
			5min	385	379	377	380	3.80	Keep 5min
6	33.750	2.396	0	384	378	375	379	3.79	
			5min	383	376	374	378	3.78	Keep 5min
5	28.125	1.997	0	381	374	368	374	3.74	
			5min	380	373	367	373	3.73	Keep 5min
4	22.500	1.598	0	378	371	366	372	3.72	
			5min	377	370	365	371	3.71	Keep 5min
3	16.875	1.198	0	375	368	364	369	3.69	
			5min	374	367	363	368	3.68	Keep 5min
2	11.250	0.799	0	371	362	360	364	3.64	
			5min	370	361	359	363	3.63	Keep 5min
1	5.625	1.592	0	367	357	356	360	3.60	
			5min	366	356	355	359	3.59	Keep 5min
	0.000	0.000	0	338	355	330	341	3.41	
			5min	335	332	328	332	3.32	Keep 5min



Equipment and other tools for plat load test



Protection work for raining



Top view of soil condition of pit A



Side view of soil condition of pit A



Side view of soil condition of old pit B



Back fill work for old pit B





Plat load test of pit A In progress



Plat load test of new pit B In progress



Data collection activities

Attached Document

Attached-1 Examination of Requested Equipment

Attached-2 Equipment Delivery List

Attached-3 Outline of Main Equipment

Attached-4 Equipment List

Attached-5 Operation and Maintenance Fee for the Equipment

Attached-1 Examination of Requested Equipment

Examination of Requested Equipment-01

Request			Project				Condition										Qty	Remarks
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.	(Project) Description	Category	Priority	①	②	③	④	⑤	⑥	⑦		
OBGY	Obstetric	1	Delivery Bed	Ob/Gy Ward	Obstetrics	1	Delivery Bed	A	B	O	O	O	O	O	O	O	2	2 Angle adjustment is broken.
OBGY	Obstetric	2	Operating Lamp, Ceiling type	Ob/Gy Ward	Obstetrics	2	Operating Lamp, Mobile Type	A	B	O	O	O	O	O	O	O	1	2 Needed to be mobile type. Renamed
OBGY	Obstetric	3	Fetal Monitor				Deleted	A	A	O	x	x	O	O	O	x	-	Deleted because labor festinants medicine is not used.
OBGY	Obstetric	4	Vacuum Extractor	Ob/Gy Ward	Obstetrics	3	Vacuum Extractor	B	B	O	O	O	O	O	O	O	1	1 Renewal because it is too damaged(deterioration).
OBGY	Obstetric	5	Suction Unit	Ob/Gy Ward	Obstetrics	4	Suction Unit, Small Type	B	B	O	O	O	O	O	O	O	1	1 Renewal because it is too damaged(deterioration). Renamed.
OBGY	Obstetric	6	Automatic Resuscitator				Deleted	A	A	O	O	O	O	x	x	x	-	Deleted because small oxygen cylinder will be used.
OBGY	Obstetric	7	Doppler, fetal heart detector	Ob/Gy Ward	Obstetrics	5	Doppler, Fetal Heart Detector	C	B	O	O	O	O	O	O	O	1	1 Frequently broken Needed for renewal because of it is deteriorate.
OBGY	Obstetric	8	Pump breast, manual	Ob/Gy Ward	Obstetrics	6	Pump Breast, Manual	B	A	O	O	O	O	O	O	O	-	5 Necessary for postpartum care.
OBGY	Obstetric	9	X-Ray Film Illuminator				Deleted	B	A	x	x	O	O	O	O	x	-	Deleted because no need in obstetrics department.
OBGY	Obstetric	10	Cesarean section set	Planning to the operation department														Managed in operation department as it is used in operation room.
OBGY	Obstetric	11	Labor Bed	Ob/Gy Ward	Obstetrics	7	Labor Bed	B	B	O	O	O	O	O	O	O	5	2 Existing wooden-made equipment is dangerous as its legs are rotted. Steel-made bed has some burrs, problem in processing accuracy.
OBGY	Obstetric	12	Weighing Scale, baby	Ob/Gy Ward	Obstetrics	8	Weighing Scale, Baby	B	B	O	O	O	O	O	O	O	1	2 Renewal because it is too damaged(deterioration).
OBGY	Obstetric	13	Dilatation & Curettage set	Planning to the operation department														Managed in operation department as it is used in operation room.
OBGY	Obstetric	14	Hand scrub unit	Included in construction side														Included in construction side as incidental equipment.
OBGY	Newborn	15	Infant Incubator	Ob/Gy Ward	Newborn	9	Infant Incubator	A	A	O	O	O	O	O	O	O	-	2 Necessary for low-birth-weight newborn.
OBGY	Newborn	16	Neonatal Monitor				Deleted	A	A	O	O	x	O	O	O	x	-	Deleted because there is no co-medical staff who can read vital signs.
OBGY	Newborn	17	Infant Care Center	Ob/Gy Ward	Newborn	10	Infant Care Center	B	A	O	O	O	O	O	O	O	-	1 Dangerous because currently used electric light bulb for heater.

Examination of Requested Equipment-02

Request				Project				Category		Condition										Q'ty	Remarks
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.	(Project) Description	Priority		①	②	③	④	⑤	⑥	⑦	Existing Q'ty	Good	Breakdown	Doesn't work	
OBGY	Gynecology	24	Examination Table	Ob/Gy Ward	Obstetrics	15	Examination Table	A	A	O	O	O	O	O	O	O	-	-	-	1	Department of Obstetrics and Gynecology will be divided into 2 section, so basic necessary equipment needs to be set in both department.
OBGY	Gynecology	26	Gynecological Examining set	Ob/Gy Ward	Obstetrics	17	Gynecological Examining Set	A	B	O	O	O	O	O	O	O	1	1	1	1	Department of Obstetrics and Gynecology will be divided into 3 section, so basic necessary equipment needs to be set in both department.
OBGY	Gynecology	27	X-Ray Film Illuminator	Ob/Gy Ward	Obstetrics	18	X-Ray Film Illuminator	B	A	O	O	O	O	O	O	O	-	-	-	1	Department of Obstetrics and Gynecology will be divided into 4 section, so basic necessary equipment needs to be set in both department.
OBGY	Gynecology	28	Examination Light	Ob/Gy Ward	Obstetrics	19	Examination Light	A	B	O	O	O	O	O	O	O	1	1	1	1	Department of Obstetrics and Gynecology will be divided into 5 section, so basic necessary equipment needs to be set in both department.
Emergency	Emergency	109	Oxygen Inhaler Apparatus	Ob/Gy Ward	Obstetrics	63	Oxygen Inhaler Apparatus, Wall manifold mounted type	B	A	O	O	O	O	O	O	O	-	-	-	2	Manifold and wall mounted type Renamed
OBGY	Newborn	18	Infusion Pump			Deleted				A	A	O	O	O	O	x	-	-	-	-	Deleted because there is no staff in ward who can use it.
OBGY	Newborn	19	Suction Unit			Deleted				B	B	O	O	O	O	x	1	1	1	-	Deleted because it can be used together with obstetric department.
OBGY	Newborn	20	Phototherapy (violet light)	Ob/Gy Ward	Newborn	11	Phototherapy (violet light)	A	A	O	O	O	O	O	O	O	-	-	-	1	Necessary for newborn jaundice treatment.
OBGY	Newborn	21	Bilirubin meter	Ob/Gy Ward	Newborn	12	Bilirubin Meter	A	A	O	O	O	O	O	O	O	-	-	-	1	Necessary for newborn jaundice examination.
OBGY	Newborn	22	Resuscitator, infant	Ob/Gy Ward	Newborn	13	Resuscitator, Infant	A	A	O	O	O	O	O	O	O	-	-	-	2	Needed for resuscitation.
OBGY	Newborn	23	Cot	Ob/Gy Ward	Newborn	14	Baby Cot	B	A	O	O	O	O	O	O	O	-	-	-	2	Infant bed. Renamed.
OBGY	Gynecology	24	Examination Table	Ob/Gy Ward	Gynecology	15	Examination Table	A	A	O	O	O	O	O	O	O	-	-	-	2	Will be put in ultrasound room and prevention room of mother to child transmission.
OBGY	Gynecology	25	Gynecological Examining Table	Ob/Gy Ward	Gynecology	16	Gynecological Examining Table	B	A	O	O	O	O	O	O	O	-	-	-	1	Commonly used with delivery table.
OBGY	Gynecology	26	Gynecological Examining set	Ob/Gy Ward	Gynecology	17	Gynecological Examining Set	A	B	O	O	O	O	O	O	O	1	1	1	1	Basic forceps and instruments
OBGY	Gynecology	27	X-Ray Film Illuminator	Ob/Gy Ward	Gynecology	18	X-Ray Film Illuminator	B	A	O	O	O	O	O	O	O	-	-	-	1	Basic equipment necessary for treatment
OBGY	Gynecology	28	Examination Light	Ob/Gy Ward	Gynecology	19	Examination Light	A	B	O	O	O	O	O	O	O	1	1	1	1	Renewal because it is too damaged(deterioration).
OBGY	Gynecology	29	Doppler Fetus Detector			Deleted				C	A	O	O	O	O	x	-	-	-	-	Deleted because it is planned in obstetrics department

Examination of Requested Equipment-03

Request			Project				Condition																	Remarks
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.	(Project) Description	Priority	Category	①	②	③	④	⑤	⑥	⑦	Existing Q'ty	Good	Breakdown	Doesn't work				
OBGY	Gynecology	30	Colposcope			Deleted		B	B	O	x	O	O	O	O	x	1	1			-	Procured by the hospital.		
OBGY	Gynecology	31	Coagulator for Cervical Lesion			Deleted		A	B	O	x	O	O	O	O	x	1	1			-	Procured by the hospital.		
OBGY	Gynecology	32	Suction Unit			Deleted		B	B	O	x	O	O	O	O	x	1	1			-	Deleted. Existing equipment can be used.		
OBGY	Gynecology	33	Automatic Resuscitator			Deleted		A	A	O	O	O	O	x	O	x	-	-	-	-	-	Deleted because small oxygen cylinder will be used.Manual operation		
OBGY	Gynecology	34	Resuscitator, Hand-driven	Ob/Gy Ward	Gynecology	20	Resuscitator, Hand-driven	A	B	O	O	O	O	O	O	O	1	1			1	Rubber parts are cracked because it is too deteriorate.		
OBGY	Gynecology	35	Instrument Boiling Sterilizer, Desk Top	Ob/Gy Ward	Gynecology	21	Instrument Boiling Sterilizer, Desk Top	A	A	O	O	O	O	O	O	O	-	-	-	-	1	Needed for sterilization of small steel object for diagnosis		
OBGY	Gynecology	36	Autoclave, Table top			Deleted		A	A	O	O	O	x	O	O	x	-	-	-	-	-	Deleted because sterilized instrument is supposed to be supplied from central sterilization in future plan.		
OBGY	Gynecology	37	Oxygen concentrator			Deleted		A	A	x	x	O	O	O	O	x	-	-	-	-	-	Deleted because there is no patient with chronic respiratory disorder.		
OBGY	Gynecology	38	Wheel Chair	Ob/Gy Ward	Gynecology	23	Wheel Chair	B	A	O	O	O	O	O	O	O	-	-	-	-	1	Necessary for the patient who has difficulty walking.		
OBGY	Gynecology	39	Caesarian Hysterectomy set	Managed in operation department as it is used in operation room.																				
OBGY	Gynecology	40	Cervic repairation set	Managed in operation department as it is used in operation room.																				
OBGY	Gynecology	41	Bed	Ob/Gy Ward	Gynecology	24	Bed	B	B	O	O	O	O	O	O	O	O	34	34		32	Existing wooded-made equipment is dangerous as its legs are rotted. Steel-made bed has some burrs, problem in processing accuracy.		
Imagery	Imagery	60	Ultrasound Apparatus, B/W	Ob/Gy Ward	Gynecology	25	Ultrasound Apparatus for Obstetrics and Gynecology, B/W	B	B	O	O	O	O	O	O	O	O	1	1		1	As existing equipment is old, it is needed to be changed for diagnosis process and observation for infant. Renamed.		
Surgical	Surgical	42	Abdominal surgical set	Managed in operation department as it is used in operation room.																				
Surgical	Surgical	43	Orthopedic surgical set	Managed in operation department as it is used in operation room.																				
Surgical	Surgical	44	Suction Unit	Surgery Ward	Surgery	4	Suction Unit, Small Type	B	B	O	O	O	O	O	O	O	O	2	2		2	Renewal because it is too damaged(deterioration). Renamed.		
Surgical	Surgical	45	Oxygen concentrator			Deleted		A	A	x	x	O	O	O	O	x	-	-	-	-	-	Deleted because there is no patient with chronic respiratory disorder.		

Examination of Requested Equipment-04

Request			Project			Condition																	Remarks	
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.	(Project) Description	Priority	Category	①	②	③	④	⑤	⑥	⑦	Existing Q'ty	Good	Breakdown	Doesn't work				
Surgical	Surgical	46	Autoclave, Table top				Deleted	C	A	O	x	O	O	O	O	O	x	-	-	-	Deleted because boiling sterilizer will be used.			
Surgical	Surgical	47	X-Ray Film Illuminator	Surgery Ward	Surgery	18	X-Ray Film Illuminator	C	B	O	O	O	O	O	O	O	O	1	-	-	5 Wall mounted type			
Surgical	Surgical	48	Bed	Surgery Ward	Surgery	24	Bed	A	B	O	O	O	O	O	O	O	O	78	78	-	Existing wooded-made equipment is dangerous as its legs are rotted. Steel-made bed has some burrs, problem in processing accuracy.			
Surgical	Surgical	49	Automatic Resuscitator				Deleted	B	A	O	x	O	O	O	O	O	x	-	-	-	Deleted because it must be manual type.			
Surgical	Surgical	50	Resuscitator, Hand-driven	Surgery Ward	Surgery	20	Resuscitator, Hand-driven	A	B	O	O	O	O	O	O	O	O	2	2	-	2 Rubber parts are cracked because it is too deteriorate.			
Surgical	Surgical	51	Stretcher, wheel	Surgery Ward	Surgery	26	Stretcher, Wheel	A	B	O	O	O	O	O	O	O	O	1	1	-	2 Dangerous as currently carrying patient by wooden plate.			
Surgical	Surgical	52	Treatment Table	Surgery Ward	Surgery	15	Treatment Table	A	A	O	O	O	O	O	O	O	O	-	-	-	3 Basic specification			
Surgical	Surgical	53	Vascular surgical set	Planning to the operation department				Managed in operation department as it is used in operation room.																
Surgical	Surgical	54	Craniotomy Instrument set				Deleted	B	A	O	x	x	O	O	O	O	x	-	-	-	Deleted because there is no specialist in cerebral surgery.			
Surgical	Surgical	55	Urology set	Planning to the operation department				Managed in operation department as it is used in operation room.																
Surgical	Surgical	56	Amputation set	Planning to the operation department				Managed in operation department as it is used in operation room.																
Surgical	Surgical	57	Extension continue traction set	Planning to the operation department				Managed in operation department as it is used in operation room.																
Surgical	Surgical	58	Thoracic set	Planning to the operation department				Managed in operation department as it is used in operation room.																
OBGY	Gynecology	35	Instrument Boiling Sterilizer, Desk Top	Surgery Ward	Surgery	21	Instrument Boiling Sterilizer, Desk Top	A	A	O	O	O	O	O	O	O	O	-	-	-	2 Needed for sterilization of small steel object for diagnosis			
OBGY	Gynecology	38	Wheel Chair	Surgery Ward	Surgery	23	Wheel Chair	B	A	O	O	O	O	O	O	O	O	-	-	-	1 Necessary for the patient who has difficulty walking.			
Imagery	Imagery	59	Examination Table	Imagery	Imagery	15	Examination Table	A	A	O	O	O	O	O	O	O	O	-	-	-	2 Needed for ECG and ultrasound examination.			
Imagery	Imagery	60	Ultrasound Apparatus, B/W	Planning to the Ob/Gy ward				It should be managed under Department of Ob/Gy because it is used in Gy																

Examination of Requested Equipment-05

Request			Project				Priority	Category	①	②	③	④	⑤	⑥	⑦	Condition				Remarks	
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.										(Project) Description	Existing Q'ty	Good	Breakdown		Doesn't work
Imagery	Imagery	61	General Diagnostic X-Ray Unit	Imagery	Imagery	27	General Diagnostic X-Ray Unit	B	B	O	O	O	O	O	O	O	1	1	Frequently broken. Needed for renewal because of it is old.		
Imagery	Imagery	62	C-Arm Mobile X-Ray Unit for Surgical Unit	Imagery	Imagery	28	C-Arm Mobile X-Ray Unit for Surgical Unit	B	B	O	O	O	O	O	O	O	2	1	1	Frequently broken. Needed for renewal because of it is deteriorate. It must be set at operation room,managed at Imaging department.	
Imagery	Imagery	63	Mobile X-Ray Unit	Imagery	Imagery	29	Mobile X-Ray Unit	A	B	O	O	O	O	O	O	O	2	1	1	Used in operation room or ward. Renewal because angle adjustment function is broken and deteriorate.	
Imagery	Imagery	64	Automatic X-Ray Film Processor	Imagery	Imagery	30	Automatic X-Ray Film Processor, Small type	A	B	O	O	O	O	O	O	O	3		3	Dark room type Renamed	
Imagery	Imagery	65	Ultrasound Doppler	Imagery	Imagery	31	Ultrasound Apparatus for General Abdominal	A	B	O	O	O	O	O	O	O	1		1	Deleted for doppler system because no heart disease specialist. Renamed.	
Imagery	Imagery	66	Fiberscope	Deleted				A	B	O	O	O	x	O	x	x	2		2	Not have been used before. Deleted because there is no specialist.	
Imagery	Imagery	67	cystoscope	Deleted				A	A	O	O	x	O	O	O	x	-		-	Deleted because they do not have any track record for the endoscopic operation.	
Imagery	Imagery	68	X-Ray Film Illuminator	Imagery	Imagery	18	X-Ray Film Illuminator	B	B	O	O	O	O	O	O	O	2		1	1	2 Wall mounted type
Imagery	Imagery	69	Film drier	Deleted				B	A	O	x	O	O	O	O	O	x	-		-	Deleted because included in function of automatic development machine.
Imagery	Imagery	70	ECG unit	Imagery	Imagery	32	ECG Unit	A	B	O	O	O	O	O	O	O	1		1	1	Renewal because it is too damaged(deterioration).
Operation	Operation	71	Universal Operating Table	Operation	Operation	33	Universal Operating Table	A	B	O	O	O	O	O	O	O	2		2	2	Renewal because it is too damaged(deterioration).
Operation	Operation	72	Operating Table with Leg Traction Apparatus	Operation	Operation	34	Operating Table with Leg Traction Apparatus	A	B	O	O	O	O	O	O	O	1		1	1	Renewal because it is too damaged(deterioration).
Operation	Operation	73	Operating Lamp, Ceiling type	Operation	Operation	35	Operating Lamp, Ceiling type	A	B	O	O	O	O	O	O	O	2		2	3	Renewal because it is too damaged(deterioration).
Operation	Operation	74	Anesthesia Apparatus with Ventilator	Operation	Operation	36	Anesthesia Apparatus with Ventilator	A	B	O	O	O	O	O	O	O	2		2	3	Renewal because it is too damaged(deterioration).
Operation	Operation	75	Anesthesia Instrument Table	Operation	Operation	37	Anesthesia Instrument Table	A	B	O	O	O	O	O	O	O	2		2	3	Made of Stainless steel
Operation	Operation	76	Anesthetist's Revolving Stool	Operation	Operation	38	Anesthetist's Revolving Stool	A	B	O	O	O	O	O	O	O	2		2	3	As existing equipment is wooded-made,which is not suitable for operation room,it needed to be changed to stainless type
Operation	Operation	77	Electrosurgical Unit	Operation	Operation	39	Electrosurgical Unit	A	B	O	O	O	O	O	O	O	2		2	3	Renewal because it is too damaged(deterioration).

Examination of Requested Equipment-06

Request				Project				Category	Priority	Condition							Q'ty	Remarks		
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.	(Project) Description			①	②	③	④	⑤	⑥	⑦			Existing Q'ty	Good
Operation	Operation	78	Electric Suction Unit	Operation	Operation	40	Electric Suction Unit, Mobile T	A	B	O	O	O	O	O	O	2	2		3	Renewal because it is too damaged(deterioration).
Operation	Operation	79	Patient Monitor	Operation	Operation	41	Patient Monitor	A	B	O	O	O	O	O	O	2	2		3	Renewal because it is too damaged(deterioration).
Operation	Operation	80	Defibrillator	Operation	Operation	42	Defibrillator	A	A	O	O	O	O	O	O	-	-	-	1	Needed for cardiac arrest patient to resuscitate.
Operation	Operation	81	Stretcher, folding			Deleted		A	A	O	x	O	O	O	O	x	-	-	-	Deleted because stretcher is used.
Operation	Operation	82	Stretcher, wheel	Operation	Operation	28	Stretcher, Wheel	A	B	O	O	O	O	O	O	1	1		1	Renewal because it is too damaged(deterioration).
Operation	Operation	83	Emergency trolley	Operation	Operation	43	Emergency Trolley	A	A	O	O	O	O	O	O	-	-	-	1	Needed for cardiac arrest patient to resuscitate.
Operation	Operation	84	X-Ray Film Illuminator	Operation	Operation	18	X-Ray Film Illuminator	B	B	O	O	O	O	O	O	1	1		4	Renewal because it is too damaged(deterioration).
Operation	Operation	85	Light Operating, Emergency	Operation	Operation	2	Light Operating, Emergency	A	B	O	O	O	O	O	O	1	1			Used for operation which needs illumination intensity such as plastic surgery.
Operation	Operation	86	Autoclave, Table top	Operation	Operation	22	Autoclave, Table top	B	A	O	O	O	O	O	O	-	-	-	1	Used for urgent sterilization.
Operation	Operation	87	Cart dressing/dispensing	Operation	Operation	44	Cart dressing/dispensing	A	B	O	O	O	O	O	O	1	1		3	Need to be stainless steel possible to be sterilized by alcohol
Operation	Operation	88	Hand scrub unit			Deleted		A	B	O	O	O	O	O	O	x	2	2	-	Included in construction side as incidental equipment
OBGY	Newborn	18	Infusion Pump	Operation	Operation	45	Infusion Pump	A	B	O	O	O	O	O	O	2	2		2	Needed for renewal because it is frequently broken.
OBGY	Obstetric	10	Cesarean section set	Operation	Operation	46	Cesarean Section Set	A	B	O	O	O	O	O	O	1	1		2	It cannot be polished because it is too deteriorate
OBGY	Obstetric	13	Dilatation & Curettage set	Operation	Operation	47	Dilatation & Curettage Set	A	B	O	O	O	O	O	O	1	1		2	Instrument set for obstetrical and gynecological operations
OBGY	Gynecology	39	Caesarian Hysterectomy set	Operation	Operation	48	Caesarian Hysterectomy Set	A	B	O	O	O	O	O	O	1	1		2	Instrument set for operations
OBGY	Gynecology	40	Cervic reparation set	Operation	Operation	49	Cervic Reparation Set	A	B	O	O	O	O	O	O	1	1		2	Instrument set for operations
Surgical	Surgical	42	Abdominal surgical set	Operation	Operation	50	Abdominal Surgical Set	A	B	O	O	O	O	O	O	3	3		2	Instrument set for operations

Examination of Requested Equipment-07

Request			Project				Priority	Category	①	②	③	④	⑤	⑥	⑦	Condition				Q'ty	Remarks	
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.										(Project) Description	Existing	Good	Breakdown			Doesn't work
Surgical	Surgical	43	Orthopedic surgical set	Operation	Operation	51	Orthopedic Surgical Set	A	B	O	O	O	O	O	O	O	1		1	2	Instrument set for operations	
Surgical	Surgical	53	Vascular surgical set	Operation	Operation	52	Vascular Surgical set	A	B	O	O	O	O	O	O	O	1		1	2	Instrument set for operations	
Surgical	Surgical	55	Urology set	Operation	Operation	53	Urology set	A	B	O	O	O	O	O	O	O	1		1	2	Instrument set for operations	
Surgical	Surgical	56	Amputation set	Operation	Operation	54	Amputation Set	A	B	O	O	O	O	O	O	O	1		1	2	Instrument set for operations	
Surgical	Surgical	57	Extension continue traction set	Operation	Operation	55	Extension Continue Traction Set	B	B	O	O	O	O	O	O	O	1		1	2	Instrument set for operations	
Surgical	Surgical	58	Thoracic set	Operation	Operation	56	Thoracic Set	B	B	O	O	O	O	O	O	O	1		1	2	Instrument set for operations	
Emergency	Emergency	92	Laryngoscope box one set	Operation	Operation	57	Laryngoscope Set	A	B	O	O	O	O	O	O	O	1		1	2	Needed for intuiation, Renamed	
				Operation	Operation	58	Instrument Cabinet	B	B	O	O	O	O	O	O	O	2		2	3	Not the target equipment, but it is needed as operational function	
Operation	Sterilizing	89	Sterilizing Machine	Sterilization	Sterilization	59	Sterilizing Machine	A	B	O	O	O	O	O	O	O	3	1	2	1	Specification should be decided in consideration of the volume.	
Operation	Sterilizing	90	Work Table, Stainless steel	Sterilization	Sterilization	60	Work Table	A	B	O	O	O	O	O	O	O	1		1	2	Made of Stainless steel. Renamed.	
Emergency	Emergency	91	Automatic respirator	Deleted				A	B	x	x	O	O	O	O	x	1		1	-	Deleted, No necessity in Emergency.	
Emergency	Emergency	92	Laryngoscope box one set	Emergency	Emergency	57	Laryngoscope Set	A	B	O	O	O	O	O	O	O	1		1	1	Needed for intuiation, Renamed	
Emergency	Emergency	93	Oxygen concentrator	Deleted				A	B	x	x	O	O	O	O	x	1		1	-	Deleted. Oxygen inhalator and manifold will be used.	
Emergency	Emergency	94	Electric syringe			Deleted		A	A	x	x	O	O	O	O	x	-	-	-	-	Deleted, No necessity in Emergency.	
Emergency	Emergency	95	Glucose meter	Deleted				A	A	x	x	O	O	O	O	x	-	-	-	-	Deleted, No necessity in Emergency.	
Emergency	Emergency	96	Pulse oxymeter	Emergency	Emergency	61	Pulse Oxymeter	A	B	O	O	O	O	O	O	O	2		2	1	Basic medical equipment	
Emergency	Emergency	97	Patient Monitor	Deleted				A	A	x	x	O	O	O	O	x	-	-	-	-	-	Deleted, No necessity in Emergency.

Examination of Requested Equipment-08

Request				Project				Condition										Remarks			
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.	(Project) Description	Priority	Category	①	②	③	④	⑤	⑥	⑦	Existing Q'ty		Good	Breakdown	Doesn't work
Emergency	Emergency	98	Endotracheal Tube			Deleted		A	B	O	O	O	O	O	O	x	-	-	-	-	Disposable product
Emergency	Emergency	99	Mask balloon			Deleted		A	B	O	O	O	O	O	O	x	-	-	-	-	Disposable product
Emergency	Emergency	100	Suction machine and its accessories	Emergency	Emergency	4	Suction Unit, Small Type	A	B	O	O	O	O	O	O	O	1	1	1	1	Renewal because it is too damaged(deterioration). Renamed.
Emergency	Emergency	101	Defibrillator	Emergency	Emergency	42	Defibrillator	A	A	O	O	O	O	O	O	O	-	-	-	-	1 Needed for cardiac arrest patient.
Emergency	Emergency	102	ECG unit	Emergency	Emergency	32	ECG Unit	A	A	O	O	O	O	O	O	O	-	-	-	-	1 Needed for emergency patient's examinations.
Emergency	Emergency	103	Resuscitator, adult	Emergency	Emergency	20	Resuscitator, Hand-driven	A	A	O	O	O	O	O	O	O	-	-	-	-	For adult, manual operation. Renamed.
Emergency	Emergency	104	Examination Table	Emergency	Emergency	15	Examination Table	A	B	O	O	O	O	O	O	O	6	6	6	2	Existing equipment is dangerous as it uses broken stretcher.
Emergency	Emergency	105	Patient Revolving Stool	Emergency	Emergency	62	Patient Revolving Stool	A	A	O	O	O	O	O	O	O	-	-	-	-	1 Needed for emergency patient's examinations.
Emergency	Emergency	106	Electric Tourniquet			Deleted		A	A	O	x	O	O	O	O	O	x	-	-	-	Not the target equipment in CPA3
Emergency	Emergency	107	Infusion Pump			Deleted		A	A	x	x	O	O	O	O	O	x	-	-	-	Deleted, No necessity in Emergency.
Emergency	Emergency	108	Electric Suction Unit	Emergency	Emergency	40	Electric Suction Unit, Mobile Type	A	B	O	O	O	O	O	O	O	1	1	1	1	Renewal because it is too damaged(deterioration). Renamed.
Emergency	Emergency	109	Oxygen Inhaler Apparatus	Emergency	Emergency	63	Oxygen Inhaler Apparatus, Wall manifold mounted type	B	A	O	O	O	O	O	O	O	1	1	1	5	Manifold and wall mounted type Renamed
Emergency	Emergency	110	Sphygmomanometer, Floor Stand Type	Emergency	Emergency	64	Sphygmomanometer, Floor Stand Type	A	B	O	O	O	O	O	O	O	1	1	1	2	Existing equipment is mobile type.
Emergency	Emergency	111	Diagnostic Instrument Set	Emergency	Emergency	65	Diagnostic Instrument Set	A	A	O	O	O	O	O	O	O	-	-	-	-	1 Basic equipment necessary for diagnosis
Emergency	Emergency	112	Instrument Boiling Sterilizer, Desk Top			Deleted		B	A	O	O	O	O	O	O	O	x	-	-	-	Autoclave, desktop.
Emergency	Emergency	113	Denudating set	Emergency	Emergency	66	Denudating Set	A	A	O	O	O	O	O	O	O	-	-	-	-	1 Needed to cut off cloth of emergency patient.
Emergency	Emergency	114	ICU Bed	Emergency	Emergency	24	Bed	A	B	O	O	O	O	O	O	O	12	12	12	6	Existing, wooded-made equipment is dangerous as its legs are rotted. Steel-made bed has some burrs, problem in processing accuracy. Renamed.

Examination of Requested Equipment-09

Request			Project				Category	Priority	Condition							Q'ty	Remarks
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.			(Project) Description	Existing Q'ty	Good	Breakdown	Doesn't work				
Emergency	Emergency	115	Examination Light	Emergency	Emergency	19	Examination Light	A	B	O	O	O	O	O	1	2	Renewal because it is too damaged(deterioration).
Emergency	Emergency	116	Stretcher, wheel	Emergency	Emergency	28	Stretcher, Wheel	A	B	O	O	O	O	O	6	1	Renewal because it is too damaged(deterioration).
Emergency	Emergency	117	Autoclave, Table top	Emergency	Emergency	22	Autoclave, Table top	A	A	O	O	O	O	O	-	1	It is used for the emergency time like nighttime
Surgical	Surgical	47	X-Ray Film Illuminator	Emergency	Emergency	18	X-Ray Film Illuminator	C	A	O	O	O	O	O	-	2	Wall mounted type
Operation	Operation	83	Emergency trolley	Emergency	Emergency	43	Emergency Trolley	A	A	O	O	O	O	O	-	1	Needed for cardiac arrest patient to resuscitate.
Operation	Operation	87	Cart dressing/dispensing	Emergency	Emergency	44	Cart dressing/dispensing	A	A	O	O	O	O	O	-	1	Need to be stainless steel possible to be sterilized by alcohol
Operation	Operation	71	Universal Operating Table	Emergency	Emergency	33	Universal Operating Table	A	A	O	O	O	O	O	-	1	Used for minor surgery.
Operation	Operation	85	Light Operating, Emergency	Emergency	Emergency	2	Operating Lamp, Mobile Type	A	A	O	O	O	O	O	-	1	Used for minor surgery. Renamed.
OBGY	Gynecology	38	Wheel Chair	Emergency	Emergency	23	Wheel Chair	B	A	O	O	O	O	O	-	1	Necessary for the patient who has difficulty walking.
				Emergency	Emergency	58	Instrument Cabinet	A	A	O	O	O	O	O	-	1	Not the target equipment, but it is needed as operational function.
Emergency	Emergency	91	Automatic respirator	Deleted				A	B	O	x	O	O	O	x	1	Deleted because it is not used currently.
Emergency	Emergency	92	Laryngoscope box one set	ICU/POR	ICU/POR	57	Laryngoscope Set	A	A	O	O	O	O	O	-	1	Needed for intuation, Renamed
Emergency	Emergency	93	Oxygen concentrator	Deleted				A	B	O	O	O	O	O	x	1	Deleted. Oxygen inhalator and manifold will be used.
Emergency	Emergency	94	Electric syringe	Deleted				A	A	O	x	O	O	O	O	-	Deleted because there is no staff in ward who can use it.
Emergency	Emergency	95	Glucose meter	ICU/POR	ICU/POR	67	Glucose Meter	A	A	O	O	O	O	O	-	1	Needed for regular control of blood sugar .
Emergency	Emergency	96	Pulse oxymeter	Deleted				A	B	O	O	O	O	O	x	2	Patient monitor can be used
Emergency	Emergency	97	Patient Monitor	ICU/POR	ICU/POR	41	Patient Monitor	A	A	O	O	O	O	O	-	4	Necessary to monitor patient vital sign continuously

Examination of Requested Equipment-10

Request			Project				Category	Priority								Condition				Q'ty	Remarks
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.			(Project) Description	①	②	③	④	⑤	⑥	⑦	Existing Q'ty	Good	Breakdown		
Emergency	Emergency	98	Endotracheal Tube				Deleted	A	B	O	O	O	O	O	x	-	-	-	-	Disposable product	
Emergency	Emergency	99	Mask balloon				Deleted	A	B	O	O	O	O	O	x	-	-	-	-	Disposable product	
Emergency	Emergency	100	Suction machine and its accessories	ICU/POR	ICU/POR	4	Suction Unit, Small Type	A	B	O	O	O	O	O	O	1	1	1	1	Renewal because it is too damaged(deterioration). Renamed.	
Emergency	Emergency	101	Defibrillator				Deleted	A	A	O	O	O	O	O	x	-	-	-	-	Equipment arranged in operation room will be used.	
Emergency	Emergency	102	ECG unit				Deleted	A	A	O	x	O	O	O	x	-	-	-	-	Patient monitor can be used	
Emergency	Emergency	103	Resuscitator, adult	ICU/POR	ICU/POR	20	Resuscitator, Hand-driven	A	A	O	O	O	O	O	O	-	-	-	-	For adult, manual operation. Renamed.	
Emergency	Emergency	104	Examination Table				Deleted	A	B	x	x	O	O	O	x	6	6	6	-	Deleted, Lower priority from necessity in ICU	
Emergency	Emergency	105	Patient Revolving Stool				Deleted	A	A	x	x	O	O	O	x	-	-	-	-	Deleted, Lower priority from necessity in ICU	
Emergency	Emergency	106	Electric Tourniquet				Deleted	A	A	x	x	O	O	O	x	-	-	-	-	Deleted, Lower priority from necessity in ICU	
Emergency	Emergency	107	Infusion Pump				Deleted	A	A	O	x	O	O	O	x	-	-	-	-	Deleted because there is no staff in ward who can use it.	
Emergency	Emergency	108	Electric Suction Unit	ICU/POR	ICU/POR	40	Electric Suction Unit, Mobile Type	A	B	O	O	O	O	O	O	1	1	1	1	Renewal because it is too damaged(deterioration). Renamed.	
Emergency	Emergency	109	Oxygen Inhaler Apparatus	ICU/POR	ICU/POR	63	Oxygen Inhaler Apparatus, Wall manifold mounted type	B	B	O	O	O	O	O	O	1	1	1	6	Manifold and wall mounted type Renamed	
Emergency	Emergency	110	Sphygmomanometer, Floor Stand Type	ICU/POR	ICU/POR	64	Sphygmomanometer, Floor Stand Type	A	B	O	O	O	O	O	O	1	1	1	1	Basic equipment necessary for treatment	
Emergency	Emergency	111	Diagnostic Instrument Set	ICU/POR	ICU/POR	65	Diagnostic Instrument Set	A	A	O	O	O	O	O	O	-	-	-	1	Basic equipment necessary for diagnosis	
Emergency	Emergency	112	Instrument Boiling Sterilizer, Desk Top				Deleted	B	A	O	x	O	O	O	O	x	-	-	-	Deleted, Lower priority from necessity in ICU	
Emergency	Emergency	113	Denudating set				Deleted	A	A	x	x	O	O	O	O	x	-	-	-	Deleted, Lower priority from necessity in ICU	
Emergency	Emergency	114	ICU Bed	ICU/POR	ICU/POR	68	ICU Bed	A	B	O	O	O	O	O	O	12	12	12	8	Basic specification	

Examination of Requested Equipment-11

Request				Project				Priority		Category		①	②	③	④	⑤	⑥	⑦	Condition				Q'ty	Remarks
(Request) Building	(Request) Department	Minutes No.	(Request) Description	(Project) Building	(Project) Department	Item No.	(Project) Description													Existing Q'ty	Good	Breakdown	Doesn't work	
Emergency	Emergency	115	Examination Light	ICU/POR	ICU/POR	19	Examination Light	A	B	O	O	O	O	O	O	O	O	O	1				1	Renewal because it is too damaged(deterioration).
Emergency	Emergency	116	Stretcher, wheel	ICU/POR	ICU/POR	28	Stretcher, Wheel	A	B	O	O	O	O	O	O	O	O	O	6	6			1	Renewal because it is too damaged(deterioration).
Emergency	Emergency	117	Autoclave, Table top	Deleted				A	A	O	x	O	O	O	O	O	O	x	-	-	-	-	-	Deleted, Lower priority from necessity in ICU

Category A = New Equipment, B = Replacement

①=Purpose ②=Necessity ③=Technique ④=Organization of operation ⑤=Organization of maintenance ⑥=Operation and Maintenance fee ⑦=Judgment

Equipment Delivery List-01

AD-12

Equipment Delivery List-02

Item No.	Description (Project)	Term I	Term II	Total Q'ty	Obstetrics/Gynecological Ward	Surgery Ward 1	Surgery Ward 2	Surgery Ward 3	Operation	ICU	Sterilization	Imaging	Emergency
					PMTCT Room	Conference Room	Staff Room	Bed room (8bed)	Conference Room	Preparation Room	Sterile Processing Room	Ultrasound Room	Nurse Station
25	Ultrasound Apparatus for Obstetrics and Gynecology, BW	1	0	1	Ultrasound Room	Treatment Room	Treatment Room	Bed room (4bed)	Equipment Storage	ICU(2 Bed)	Clean Storage	ECG Room	Observation Room (6 bed)
26	Stretcher, wheel	2	3	5	Obstetrics Consultation	Nurse Station	Plaster Room	Bed room (8bed)	Operation Room 3	Post-Operation Room(6 Bed)	Equipment Storage	Dark Room	Minor Operation Room
27	General Diagnostic X-Ray Unit	0	1	1	Gynecologic Consultation	Bed room (1bed)	Bed room (3bed)	Bed room (8bed)	Operation Room 2		1	Control Room	Consultation/Treatment Room
28	C-Arm Mobile X-Ray Unit for Surgical Unit	0	1	1	Bed room (1 bed)	Bed room (3bed)	Bed room (8bed)	Bed room (8bed)	Operation Room 1			X-ray Room	Hall
29	Mobile X-Ray Unit	0	1	1	Bed room (4 bed)	Bed room (8bed)	Bed room (8bed)	Bed room (8bed)					
30	Automatic X-Ray Film Processor, Small	0	1	1	Bed room (8 bed)	Bed room (8bed)	Bed room (8bed)	Bed room (8bed)					
31	Ultrasound Apparatus for General Abdominal	0	1	1	Bed room (8 bed)	Conference Room	Bed room (8bed)	Bed room (8bed)					
32	ECG unit	0	2	2	Nurse Station	Treatment Room	Bed room (8bed)	Bed room (8bed)					
33	Universal Operating Table	0	3	3	Delivery Room(2 bed)			Bed room (8bed)					
34	Operating Table with Leg Traction Apparatus	0	1	1	Esclampsia Room			Bed room (8bed)					
35	Operating Lamp, Ceiling type	0	3	3	Labour Room			Bed room (8bed)					
36	Anesthesia Apparatus with Ventilator	0	3	3				Bed room (8bed)					
37	Anesthesia Instrument Table	0	3	3				Bed room (8bed)					
38	Anesthetist's Revolving Stool	0	3	3				Bed room (8bed)					
39	Electrosurgical Unit	0	3	3				Bed room (8bed)					
40	Electric Suction Unit, Mobile Type	0	5	5				Bed room (8bed)					
41	Patient Monitor	0	7	7				Bed room (8bed)					
42	Defibrillator	0	2	2				Bed room (8bed)					
43	Emergency Trolley	0	2	2				Bed room (8bed)					
44	Cart Dressing/Dispensing	0	4	4				Bed room (8bed)					
45	Infusion Pump	0	2	2				Bed room (8bed)					
46	Cesarean Section Set	0	2	2				Bed room (8bed)					
47	Dilatation & Curettage Set	0	2	2				Bed room (8bed)					
48	Caesarian Hysterectomy Set	0	2	2				Bed room (8bed)					

Equipment Delivery List-03

[illegible]

Attached-3 Outline of Main Equipment

Outline of Main Equipment

Item No.	Descriptions	Main specifications or components	Grade	Q'ty	Purpose Appropriateness of equipment grade
24	Bed	1. 2Crank type 2. 4casters (2 casters with brake) 3. 900mm(W) x 2000mm(L), Allowance $\pm$ 10%	Middle	138	For inpatient observation.
25	Ultrasound Apparatus for Obstetrics and Gynecology, B/W	1. Probe:Convex 2. Image mode:B and M mode 3. Monitor size:9 inch or more 4. Printer:Black/white	Middle	1	For ultrasound diagnosis inside the body in Gynecology department. Mainly used for fetus observation.
27	General Diagnostic X-Ray Unit	1. Component:X-ray tube,Bucky table, Bucky wall stand, Console panel 2. Tube voltage:Max. 100kV or more 3. Tube current:Max. 200mA or more	Middle	1	For general radiographic diagnosis such as bone fracture, abdomen and tuberculosis.
28	C-Arm Mobile X-Ray Unit for Surgical Unit	1. Monitor:2 monitors 2. Tube voltage:Max. 110kV or more 3. Tube current:Max. 16mA or more 4. Image Intensifier:6 inches or more	Middle	1	For fluoroscopy diagnosis in operation room.(Orthopedic surgery, Urology)
29	Mobile X-Ray Unit	1. Tube voltage:Max. 125kV or more 2. Tube current:Max. 160mA or more	Middle	1	For emergency and/or brief radiographic diagnosis for un-walk able patients.
31	Ultrasound Apparatus for General Abdominal	1. Probe : Convex, Linear,Transvaginal 2. Image mode:B and M mode 3. Image size:12 inch or more 4. Printer:Black/white	Middle	1	For ultrasound diagnosis, mainly for abdominal examination.
34	Operating Table with Leg Traction Apparatus	1. Operating Table:Hydraulic oil pump by manual 2. Table size:1900(L)x500(W)mm, Allowance $\pm$ 10% 3. Traction device:Lower limb	Middle	1	For positioning patients suitably at various operations to adjust radiographic examination.
38	Anesthesia Apparatus with Ventilator	1. Anesthesia Apparatus 1) Anesthesia circuit:Closed type 2) O2 flow meter range:Max. 10 liter/min. or more 3) Vaporizer:Halothane 2. Ventilator 1) Ventilation method:Electrically driven	Middle	3	For anesthesia and ventilation to the patients, who is absence of spontaneous respiration during operations.
41	Patient Monitor	1. Parameter : ECG, Respiration, SpO2, NIBP, Temperature 2. Heart rate range:Min. 30bpm or less, Max. 250bpm or more 3. SpO2 measuring range:Min. 50% or less, Max. 100%	Middle	7	For continuous monitoring and measuring patient's vital sign in operation room and ICU.
51	Orthopedic Surgical Set	1. Material : Stainless steel 2. Component : 60items	Middle	2	Stainless steel instrument set for orthopedic surgical operations.
59	Sterilizing Machine	1. Single door type 2. Sterilizing temperature:Max. 132°C(at surgical instruments) 3. Chamber capacity:160 liters or more 4. Built in electric boiler unit 5. Water softener unit	Middle	1	For sterilization of various surgical instruments and linens, giving high pressure in chamber.

Attached-4 Equipment List

Equipment List-01

Item No.	Description	Q'ty			Country of Origin	Procured from	Agent Required for	
		Term I	Term II	Total			Consumable /Reagent/ Parts Supply	Maintenance
1	Delivery Bed	2	0	2	Japan	Japan		
2	Operating Lamp, Mobile Type	2	2	4	Japan	Japan	○	○
3	Vacuum Extractor	1	0	1	Japan	Japan	○	○
4	Suction Unit, Small Type	3	2	5	Japan	Japan	○	○
5	Doppler, Fetal Heart Detector	1	0	1	Japan	Japan	○	○
6	Pump Breast, Manual	5	0	5	Japan	Japan		
7	Labor Bed	2	0	2	Thailand	Cambodia		
8	Weighing Scale, Baby	2	0	2	Germany	Japan		
9	Infant Incubator	2	0	2	Japan	Japan	○	○
10	Infant Care Center	1	0	1	Japan	Japan	○	○
11	Phototherapy (violet light)	1	0	1	Japan	Japan	○	○
12	Bilirubin Meter	1	0	1	USA	Japan	○	○
13	Resuscitator, Infant	2	0	2	Japan	Japan		
14	Baby Cot	2	0	2	Japan	Japan		
15	Examination Table	6	4	10	Japan	Japan		
16	Gynecological Examining Table	1	0	1	Japan	Japan		
17	Gynecological Examining Set	2	0	2	Japan	Japan		
18	X-Ray Film Illuminator	7	8	15	Japan	Japan	○	
19	Examination Light	2	3	5	Japan	Japan	○	
20	Resuscitator, Hand-driven	3	2	5	Japan	Japan		
21	Instrument Boiling Sterilizer, Desk Top	3	0	3	Japan	Japan	○	
22	Autoclave, Table Top	0	2	2	Japan	Japan	○	○
23	Wheel Chair	2	1	3	Japan	Japan		
24	Bed	132	6	138	Thailand	Cambodia		
25	Ultrasound Apparatus for Obstetrics and Gynecology, B/W	1	0	1	Japan	Japan	○	○
26	Stretcher, Wheel	2	3	5	Japan	Japan		
27	General Diagnostic X-Ray Unit	0	1	1	Spain	Thailand	○	○
28	C-Arm Mobile X-Ray Unit for Surgical Unit	0	1	1	Japan	Japan	○	○
29	Mobile X-Ray Unit	0	1	1	Japan	Japan	○	○

Equipment List-02

Item No.	Description	Q'ty			Country of Origin	Procured from	Agent Required for	
		Term I	Term II	Total			Consumable /Reagent/ Parts Supply	Maintenance
30	Automatic X-Ray Film Processor, Small	0	1	1	Japan	Japan	○	○
31	Ultrasound Apparatus for General Abdominal	0	1	1	Japan	Japan	○	○
32	ECG Unit	0	2	2	Italy	Cambodia	○	○
33	Universal Operating Table	0	3	3	Japan	Japan		
34	Operating Table with Leg Traction Apparatus	0	1	1	Japan	Japan		
35	Operating Lamp, Ceiling Type	0	3	3	Japan	Japan	○	○
36	Anesthesia Apparatus with Ventilator	0	3	3	Japan	Japan	○	○
37	Anesthesia Instrument Table	0	3	3	Japan	Japan		
38	Anesthetists Revolving Stool	0	3	3	Japan	Japan		
39	Electrosurgical Unit	0	3	3	Japan	Japan	○	○
40	Electric Suction Unit, Mobile Type	0	5	5	Japan	Japan	○	○
41	Patient Monitor	0	7	7	Japan	Japan	○	○
42	Defibrillator	0	2	2	Spain	Cambodia	○	○
43	Emergency Trolley	0	2	2	Japan	Japan		
44	Cart Dressing/Dispensing	0	4	4	Japan	Japan		
45	Infusion Pump	0	2	2	Japan	Japan	○	○
46	Cesarean Section Set	0	2	2	Japan	Japan		
47	Dilatation & Curettage Set	0	2	2	Japan	Japan		
48	Caesarian Hysterectomy Set	0	2	2	Japan	Japan		
49	Cervix Reparation Set	0	2	2	Japan	Japan		
50	Abdominal Surgical Set	0	2	2	Japan	Japan		
51	Orthopedic Surgical Set	0	2	2	Japan	Japan		
52	Vascular Surgical Set	0	2	2	Japan	Japan		
53	Urology Set	0	2	2	Japan	Japan		
54	Amputation Set	0	2	2	Japan	Japan		
55	Extension Continue Traction Set	0	2	2	Japan	Japan		
56	Thoracic Set	0	2	2	Japan	Japan		
57	Laryngoscope Set	0	4	4	Japan	Japan	○	
58	Instrument Cabinet	0	4	4	Japan	Japan		

Equipment List-03

Item No.	Description	Q'ty			Country of Origin	Procured from	Agent Required for	
		Term I	Term II	Total			Consumable /Reagent/ Parts Supply	Maintenance
59	Sterilizing Machine	0	1	1	Japan	Japan	○	○
60	Work Table	0	2	2	Japan	Japan		
61	Pulse Oximeter	0	1	1	Japan	Japan	○	○
62	Patient Revolving Stool	0	1	1	Japan	Japan		
63	Oxygen Inhaler Apparatus, Wall Manifold Mounted Type	2	11	13	Japan	Japan	○	
64	Sphygmomanometer, Floor Stand Type	0	3	3	Japan	Japan	○	
65	Diagnostic Instrument Set	0	2	2	Germany	Japan	○	
66	Denudating Set	0	1	1	Japan	Japan		
67	Glucose Meter	0	1	1	USA	Japan	○	
68	ICU Bed	0	8	8	Thailand	Cambodia		

Attached-5 Operation and Maintenance Fee for the Equipment

Operation and Maintenance Fee for the Equipment-01

(unit: Thousand Riel)									
Item No.	Description	Q'ty	Consumables / Parts	Packing Unit	Q'ty Estimation	Q'ty	Unit Price	Unit Price/ 1Equipment	Total
2	Operating Lamp, Mobile Type	4						960	3,840
			Lamp	pc.	Lamp life=1000hours/lamp. 3hours/dayx240days+1000hoursx 8lamps=5.76pcs.	6	160	960	
5	Doppler, Fetal Heart Detector	1						165	165
			Gel	250ml/pc.	1patient/dayx5ml/patientx 240days=1200ml 1200ml÷250ml=4.8pcs.	5	33	165	
9	Infant Incubator	2						594	1,188
			Air filter	5pcs/set	1pc/2monthsx12months÷ 5pcs/set=1.2sets	2	267	534	
			Iris access port cover	5pcs/set	1set/year	1	60	60	
11	Phototherapy (violet light)	1						159	159
			UV Lamp	pc.	Lamp life=2000hours. 4hours/dayx240days=960hours 2000hours÷960hours=2.08pcs	3	53	159	
19	Examination Light	5						20	100
			Lamp	pc.	2pcs./year	2	10	20	
25	Ultrasound Apparatus for Obstetrics and Gynecology, B/W	1						2,072	2,072
			Gel	250ml/pc.	5patients/dayx5ml/patientx 240days=6000ml 6000ml÷250ml=24pcs	24	50	1,200	
			Recording paper	30m/roll	5patients/dayx0.2m/patientx 240days=240m 240m÷30m/roll=8rolls	8	109	872	
27	General Diagnostic X-Ray Unit	1						63,984	63,984
			Film	100pcs./box	10patients/dayx2pcs./patientx 240days=4800pcs. 4800pcs.÷100pcs./box=48boxes	48	1,333	63,984	
28	C-Arm Mobile X-Ray Unit for Surgical Unit	1						6,665	6,665
			Film	100pcs./box	1patient/dayx2pcs./patientx 240days=480pcs. 480pcs.÷100pcs./box=4.8boxes	5	1,333	6,665	
29	Mobile X-Ray Unit	1						3,999	3,999
			Film	100pcs./box	1patient/dayx1pc/patientx 240days=240pcs. 240pcs.÷100pcs./box=2.4boxes	3	1,333	3,999	
30	Automatic X-Ray Film Processor, Small type	1						6,023	6,023
			Developer	19L/pc.	15Lx2times/monthx12months=360L 360L÷19L=18.9pcs	19	200	3,800	
			Fixer	19L/pc.	15Lx2times/monthx12months=360L 360L÷19L=18.9pcs.	19	117	2,223	
31	Ultrasound Apparatus for General Abdominal	1						2,072	2,072
			Gel	250ml/pc.	5patients/dayx5ml/patientx 240days=6000ml 6000ml÷250ml=24pcs.	24	50	1,200	
			Recording paper	30m/roll	5patients/dayx0.2m/patientx 240days=240m 240m÷30m/roll=8rolls	8	109	872	
32	ECG Unit	2						2,003	4,006
			Gel	100g/pc.	5patients/dayx5g/patientx 240days=6000g 6000g÷100g=60pcs.	60	18	1,080	
			Recording paper	30m/roll	5patients/dayx1m/patientx 240days=1200m 1200m÷30m=40rolls	40	15	600	
			Chest electrode set	6pcs./set	1set/year	1	150	150	
			Limb electrode set	4pcs./set	1set/year	1	173	173	

Operation and Maintenance Fee for the Equipment-02

(unit: Thousand Riel)									
Item No.	Description	Q'ty	Consumables / Parts	Packing Unit	Q'ty Estimation	Q'ty	Unit Price	Unit Price/ 1Equipment	Total
35	Operating Lamp, Ceiling type	3						960	2,880
			Lamp	pc.	Lamp life=1000hours/lamp. 3hours/dayx240days÷1000hoursx 8lamps=5.76pcs.	6	160	960	
36	Anesthesia Apparatus with Ventilator	3						10,440	31,320
			Patient circuit	1set	2sets/year	2	300	600	
			Bacteria filter	pc.	12pcs./year	12	80	960	
			CO2 absorbent tablet	1L/box	4patients/dayx0.25L/patientx 240day=240L 240L÷1L=240pcs.	240	37	8,880	
39	Electrosurgical Unit	3						1,334	4,002
			Electrode	set	2sets/year	2	667	1,334	
41	Patient Monitor	7						3,240	22,680
			Disposable electrode	150pcs./box	1patient/dayx3pcs./patientx 240days=720pcs. 720pcs.÷150pcs./box=4.8boxes	5	600	3,000	
			Recording paper	30m/roll	1patient/dayx2m/patientx 240days=480m 480m÷30m=16rolls	16	15	240	
42	Defibrillator	2						408	816
			Gel	100g/pc.	0.5patient/dayx20g/patientx 240days=2400g 2400g÷100g=24pcs.	24	17	408	
45	Infusion Pump	2						216	432
			Infusion tube	100pcs./box	0.5patient/dayx1pc./patientx 240day=120pcs. 120pcs.÷100pcs./box=1.2boxes	2	108	216	
59	Sterilizing Machine	1						1,916	1,916
			Filter	1pc.	1pc./2months	6	93	558	
			Ion exchange resin	1pc.	2times/year	2	63	126	
			Salt	10kg/pc.	3kg/weekx52weeks=156kg 156kg÷10kg=15.6pcs.	16	77	1,232	
63	Oxygen Inhaler Apparatus, Wall manifold mounted type	13						200	2,600
			Cannula	100pcs./box	0.5patient/dayx1pc./patientx 240days=120pcs. 120pcs.÷100pcs./box=1.2boxes	2	100	200	
67	Glucose Meter	1						6,216	6,216
			Needle	25pcs./box	3patients/dayx2times/patientx 240days=1440pcs. 1400pcs.÷25pcs./box=56boxes	56	21	1,176	
			Test disc	25times/pc.	3patients/dayx2times/patientx 240days=1440times 1400times÷25times/box=56boxes	56	90	5,040	
							Total (Riel)		167,135

The amount of the renewal machine parts is 106,109 thousands riel and the amount of the new machine parts in the above 61,026 thousands riel.

