

## **APPENDICES**

**[Appendices]**

- 1. Member list of the Study Team**
- 2. Study Schedule**
- 3. List of Parties Concerned in the Recipient Country**
- 4. Minutes of Discussions**

## 1. Member of the Study Team

Name	Role	Institution
Mr. Katsutoshi MIYAKAWA	Leader	Grant Aid Division Economic Cooperation Bureau, Ministry of Foreign Affairs
Dr. Takuya SUGIE	Technical Adviser	Executive Advisor of International Cooperation, Division of International Cooperation, Ministry of Health and Welfare
Mr. Takashi YOZA	Project Manager	Medical Engineering & Planning Co., Ltd.
Mr. Koichi MURAO	Equipment Planner	Medical Engineering & Planning Co., Ltd.
Mr. Shuzo ISHIKAWA	Facility Planner	Medical Engineering & Planning Co., Ltd.
Mr. Fumihiko FUJITA	Cost Planner	Medical Engineering & Planning Co., Ltd.

## 2. Study Schedule

No.	Date	Day	Schedule
1.	21 October	Sat.	Narita 11:00→Bangkok 15:30 (TG641) Study of Procurement
2.	22 October	Sun.	Bangkok 08:30→Yangon 09:20 (TG303) Meeting with JICA, Internal Meeting
3.	23 October	Mon.	09:00 Courtesy call to JICA 10:30 Courtesy call to Embassy of Japan 14:00 Courtesy call to International Division, Ministry of Health 15:30 Courtesy call to Department of Health, Ministry of Health
4.	24 October	Tue.	09:30 Meeting with Yangon General Hospital, Study for Existing Facility 14:00 Meeting with Yangon General Hospital, Study for Existing Facility
5.	25 October	Wed.	09:00 Meeting with Yangon General Hospital, Study for Existing Facility 11:00 Intermittent to JICA 17:00 Intermittent to Embassy of Japan
6.	26 October	Thu.	Internal Meeting
7.	27 October	Fri.	09:00 Meeting with Yangon General Hospital 15:00 Meeting with JICA 16:30 Meeting with Embassy of Japan
8.	28 October	Sat.	Internal Meeting
9.	29 October	Sun.	Internal Meeting
10.	30 October	Mon.	09:00 Visiting Central Women Hospital 10:30 Visiting Yangon Children Hospital 14:00 Visiting WHO 15:00 Visiting Institute of Nursing
11.	31 October	Tue.	09:00 Meeting with Yangon General Hospital, Study for Existing Facility 14:00 Meeting with Yangon General Hospital, Study for Existing Facility Cost Planner: Yangon 10:25→Bangkok 12:05 (TG304)
12.	1 November	Wed.	09:00 Meeting with Yangon General Hospital, Study for Existing Facility 14:00 Meeting with Yangon General Hospital, Study for Existing Facility Cost Planner Bangkok 11:20→Tokyo 19:00 (TG640)
13.	2 November	Thu.	09:00 Meeting with Yangon General Hospital, Study for Existing Facility 14:00 Meeting with Yangon General Hospital, Study for Existing Facility 15:00 Visiting Jivitadana Sangha Hospital
14.	3 November	Fri.	10:30 Visiting Muslim Free Hospital 15:00 Meeting with Yangon General Hospital

No.	Date	Day	Schedule
15.	4 November	Sat.	Internal Meeting Leader: Narita 11:00→Yangon 18:50 (TG641/ TG305)
16.	5 November	Sun.	Internal Meeting Technical Advisor: Narita 11:00→Yangon 18:50 (TG641/TG305)
17.	6 November	Mon.	09:00 Courtesy call to JICA 10:30 Courtesy call to Embassy of Japan 11:45 Courtesy call to Ministry of National Planning and Economic Development 14:00 Courtesy call to Ministry of Health 15:40 Courtesy call to International Division, Ministry of Health
18.	7 November	Tue.	09:30 Visiting Yangon General Hospital 13:00 Meeting with Department of Health, Ministry of Health
19.	8 November	Wed.	09:30 Discussions for Minutes 14:00 Site Survey
20.	9 November	Thu.	09:30 Signing Minutes 10:30 Report to JICA 11:30 Report to Embassy of Japan Facility Planner: Yangon 10:25→Bangkok 12:05 (TG304)
21.	10 November	Fri.	Leader/Technical Advisor: Yangon 19:50→ Bangkok 21:30 (TG306) Facility Planner: Bangkok 11:20→Narita 19:00 (TG640)
22.	11 November	Sat.	Internal Meeting Leader/Technical Advisor: Bangkok 11:20→Narita 19:00 (TG640)
23.	12 November	Sun.	Internal Meeting
24.	13 November	Mon.	Discussion with Yangon General Hospital for specification of Equipment
25.	14 November	Tue.	Discussion with Yangon General Hospital for specification of Equipment
26.	15 November	Wed.	Discussion with Yangon General Hospital for specification of Equipment
27.	16 November	Thu.	Discussion with Yangon General Hospital for specification of Equipment, Discussion with Department of Health, Ministry of Health
28.	17 November	Fri.	9:00 Report to JICA 10:30 Report to Embassy of Japan
29.	18 November	Sat.	Project Manager/ Equipment Planner: Yangon 10:25→Bangkok 12:05 (TG304) Study for Procurement
30.	19 November	Sun.	Project Manager/ Equipment Planner: Bangkok 11:20→Narita 19:00 (TG640)

### 3. List of Parties Concerned in the Recipient Country

#### ① Party of the Government of Myanmar

- Ministry of National Planning and Economic Development
  - Mr. Soe Lin, Director General, Foreign Economic Relation Department
  - Ms. Myo New, Director, Foreign Economic Relation Department
- Ministry of Health
  - Maj.-Gen. Ket Sein, Minister
  - Prof. Dr. Kyaw Myint, Deputy Minister
  - Dr. Wan Maung, Director General, Department of Health
  - Dr. Maung Maung Wint, Director General, Department of Medical Science
  - Dr. Paing Soe, Director General, Department of Medical Research
  - Dr. Hle Pe, Deputy Director General, Department of Health
  - Dr. Tin Win Maung, Director, Medical Care, Department of Health
  - Dr. Pe Thet Htoon, Director, International Health Division
  - Dr. Myint Thaug, Deputy Director, Central Medical Store Depot (CMSD)
  - Dr. Tin Min, Deputy Director, Medical Care, Department of Health
  - Dr. Sas San Win, Assistant Director, Medical Care, Department of Health
  - Dr. Kyaw Htay, Assistant Director, Finance, Department of Health
- Yangon General Hospital
  - Dr. Taik Wan, Medical Superintendent
  - Dr. Myo Than, Deputy Medical Superintendent
  - Dr. Khin Than Nwe, Assistant Medical Superintendent
  - Dr. Kyaw Shee, Assistant Medical Superintendent
  - Dr. Soc Lwin, Assistant Medical Superintendent
  - Dr. Myint Kyu, Prof., Head of Radiology Department
  - Dr. Khin San Tin, Prof., Head of Pathology Department
  - Dr. Zeyar Htun, Prof., Pathology Department
  - Dr. Tin Myint, Prof., Head of Anaesthesia Department
  - Dr. Soe Hlaing, Lecturer/Consultant Radiologist
  - Mr. Maung Maung, Civil Engineer
  - Mr. Thaug Aye, Electrical Engineer
  - Ms. Khin Mama, Electronics Engineer
  - Mr. Aung Thu, Electronics Engineer
- New Yangon General Hospital
  - Dr. Aung Htut, Medical Superintendent
  - Dr. Myo Than, Deputy Medical Superintendent
  - Dr. Khin Than Sein, Deputy Medical Superintendent
  - Dr. Khin Soe Soe Kyu, Assistant Medical Superintendent
  - Dr. Han Win, Lecturer/Consultant Sergeant
  - Dr. Yi Yi Lwin, Consultant Radiologist
  - Dr. Ohnmar Myint, Lecturer/Consultant Pathologist
  - Ms. Tin Shwe, Matron
- Central Women Hospital
  - Dr. Shwe Oh, Medical Superintendent
  - Dr. San San Hlaing, Deputy Medical Superintendent
  - Dr. Kyin Kin, Consultant/Lecturer Anesthesiologist

- Yangon Children Hospital  
Dr. Mya Thein, Medical Superintendent
- Institute of Nursing  
Prof. Maung Maung, Head of Mental Health Department  
Prof. Kathy Lone, Head of Family Health Department  
Ms. Khin Thansein, Registrar
- Jividadana Sangha Hospital  
Dr. Hla Shwe, Medical Superintendent
- Muslim Free Hospital  
Mr. Moosa A. Madha, President  
Dr. Shoaib M. Madha, Vice President and Medical Officer  
Mr. I. M. D. Baggia, Vice President  
Mr. Ayoob. C. Lulat, Treasurer  
Mr. A. R. Y. Manjra, General Secretary  
Mr. Abdul Hai H. Umer, Joint General Secretary
- WHO  
Dr. Agostino Borra, Representative

② Party of the Government of Japan

- Embassy of Japan in Myanmar
 

Naoki ITO	Counselor
Yasuyuki NISHIO	Second Secretary
Kazuhiro FURUKAWA	Second Secretary
- JICA Myanmar Office
 

Toshimichi AOKI	Resident Representative of JICA
Takahisa FURUICHI	Assistant Resident Representative of JICA
Migusa SHIMAOKA	Project Formulation Advisor
Maung Maung Than	Programme Officer

**MINUTES OF DISCUSSIONS ON BASIC DESIGN STUDY ON  
THE PROJECT FOR IMPROVEMENT OF MEDICAL EQUIPMENT  
FOR YANGON GENERAL HOSPITAL  
IN THE UNION OF MYANMAR**

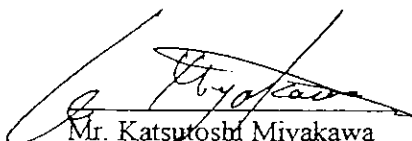
In response to a request of the Government of the Union of Myanmar (hereinafter referred to as "Myanmar"), the Government of Japan decided to conduct a Basic Design Study on the Project for Improvement of Medical Equipment for Yangon General Hospital in the Union of Myanmar (hereinafter referred to as "the Project"), and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

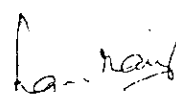
JICA sent to Myanmar a study team, which is headed by Mr. Katsutoshi Miyakawa, Grant Aid Division, Ministry of Foreign Affairs, from October 22<sup>nd</sup> to November 18<sup>th</sup>.

The team held discussions with the officials concerned of the Government of Myanmar and conducted field surveys at the study area.

In the course of discussions and field surveys, 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.

Yangon, November 9<sup>th</sup>, 2000

  
Mr. Katsutoshi Miyakawa  
Leader  
Basic Design Study Team  
Japan International Cooperation  
Agency

  
\_\_\_\_\_  
Dr. Wann Maung  
Director General  
Department of Health  
Ministry of Health  
Government of the Union of Myanmar



## ATTACHMENT

### 1. Objectives of the Project

The objective of the Project is to strengthen the function of the Emergency Receiving Center and Out Patient Department in Yangon General Hospital through provision of medical equipment.

### 2. Project Sites

The site of the Project is the Emergency Receiving Center and Out Patient Department in Yangon General Hospital.

### 3. Responsible Ministry and Executing Agency

3-1. Responsible Ministry is the Ministry of Health.

3-2. Executing Agency is the Department of Health and Yangon General Hospital.

### 4. Items requested by the Myanmar side

After the discussions with the team, the items described in Annex-1 are finally requested by the Government of Myanmar. JICA has assessed the appropriateness of the request and will recommend to the Government of Japan for approval. The equipment will be selected by the criteria attached as Annex-2.

### 5. Japan's Grant Aid System

5-1. The Government of Myanmar understands the Japan's Grant Aid Scheme explained by the Team, as described in Annex-3.

5-2. The Government of Myanmar side will take necessary measures, as described in Annex-4, for smooth implementation of the Project, as a condition for the Grant Aid to be implemented.

### 6. Schedule of the Study

6-1. The consultants will proceed to further studies in Myanmar until November 18, 2000.

6-2. JICA will complete the final report and send it to the Government of Myanmar around March 2001.

### 7. Other relevant issues

7-1. The Ministry of Health and the Yangon General Hospital will allocate the necessary budget and personnel for execution of the Project.

7-2. The Ministry of Health has ensured necessary measures for operation and maintenance cost of medical equipment in Annex-5, which may be supplied by Japan's Grant Aid.

7-3. The Ministry of Health and the Yangon General Hospital has ensured the completion of the renovation works by the beginning of February, 2001 for the room of CT scanner and X-ray, and the end of February, 2001 for other room as the drawing of the renovation plan in Annex-6. The Ministry of Health shall submit the monthly progress report of the renovation work to JICA Myanmar office.

7-4. For the sake of the technical transfer on Health Administration, the Myanmar side understood that another official request on technical cooperation should be submitted through diplomatic channels such as the Embassy of Japan and/or the JICA Office.

Annex-1 Equipment List

Annex-2 Criteria for Selection of Equipment

Annex-3 Japan's Grant Aid System

Annex-4 Necessary Measures to be taken by Each Government

Annex-5 Calculation table of Operation and Maintenance cost of Medical Equipment

Annex-6 Drawing of renovation plan

## List of Requested Equipment

Annex-1

Sr. No.	Code No.	Room	Equipment	Q'ty
1	3	Treat. & First Aid	Suction unit A	4
2	7	Treat. & First Aid	Defibrillator	1
3	10	Treat. & First Aid	ECG	1
4	1	High dependency	Patient monitor	3
5	3	High dependency	Suction unit A	1
6	8	High dependency	Ventilator	2
7	21	High dependency	ICU Bed	5
8	9	High dependency	Ventilator (Portable)	1
9	1	Operation Theater	Patient monitor	3
10	4	Operation Theater	Suction unit B	3
11	5	Operation Theater	Scrub unit, wall mount type	2
12	6	Operation Theater	Operation table	3
13	7	Operation Theater	Defibrillator	1
14	12	Operation Theater	Electrosurgical unit	3
15	13	Operation Theater	Anesthesia apparatus with ventilator	3
16	15	Operation Theater	Operation light, ceiling type	3
17	2	Operation Theater	Instrument set for surgery	9
18	4	Minor Ope. Theater	Suction unit B	1
19	6	Minor Ope. Theater	Operation table	2
20	14	Minor Ope. Theater	Operation light, stand type	1
21	2	Minor Ope. Theater	Instrument set for minor surgery	3
22	16	Operation Theater	High pressure steam sterilizer, table top	1
23	11	Ultrasound exam.	Ultrasound diagnosis apparatus	1
24	18	X-ray room	CT scanner	1
25	19	X-ray room	General X-ray unit with accessories	2
26	20	Dark room	Manual processing tank	1
27	17	Emergency OPD Lab.	Automatic Chemical Analyzer	1
28	22	General use	Electrical system	1

## Criteria for Selection of Equipment

### 1. Criteria for giving high priority

- Equipment that is to be replaced for existing old/deteriorated equipment
- Equipment that is to be a supplement for the equipment lacking distinctly in its quantity
- Equipment that is required for basic hospital treatment/diagnosis.
- Equipment that is easy to operate and maintain
- Equipment that may give much benefit/effect to hospital
- Equipment that highly cost-effective
- Equipment that is proven for its medical usefulness (necessity)
- Equipment that can be operated by hospital's current technical capabilities.
- Equipment that can be operated/maintained by hospital staff
- Equipment that matches with hospital's social position/function (referral system, local needs)
- Equipment that can be expected to be useful with other donor's assistance

### 2. Criteria for giving low priority

- Equipment that required expensive operation/maintenance cost
- Equipment that has limited benefit/effect to hospital
- Equipment that is lowly cost-effective
- Equipment that is not for treatment/diagnosis use, but for academic research purposes
- Equipment that can be substituted with simple ones
- Equipment that may cause environmental pollution by its medical waste etc.
- Equipment that is not proven for its medical usefulness (necessity)
- Equipment that is for personal usage by hospital staffs (not medical use)
- Equipment that has more than minimum required quantity (inefficient, repetitive equipment)
- Equipment that is difficult to locally procure its spare parts and consumables
- Equipment that cannot be operated by hospital's current technical capability
- Equipment that seems to be difficult to operate/maintained by present hospital's staff
- Equipment that does not match with hospital's social position/function (referral system, local needs)
- Equipment that requires large scope of infrastructure work (water, electricity supply, drain, etc.) for its installation
- Equipment that can be substituted by efficient usage of existing equipment

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*[Signature]*

## Japan's Grant Aid System

### 1. Grant Aid Procedures

(1) The 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 the Cabinet)
Determination of Implementation	(Exchange of Notes between the Government of Japan and the recipient country)
Implementation	(Implementation of the Project)

(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 Japan's Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

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 Japanese Government. The contents of the Study are as follows:

- 1) Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- 2) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- 3) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- 4) Preparation of a basic design of the Project
- 5) 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 though 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 smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA select (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency.

3. Japan's Grant Aid Scheme

(1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the 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. The Grant Aid is not supplied through the donation of materials or such.

(2) 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.

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

However in case of delays in delivery, installation or construction due to unforeseen factors such as whether, 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.

(4) Under the Grant Aid, 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 constructing 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.)

(5) Necessity of the "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 to Japanese taxpayers.

(6) Undertaking required of the Government of the Recipient Country.

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

- 1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- 2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- 3) To secure buildings prior to the procurement in case the installation of the equipment.
- 4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- 5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- 6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.
- 7) "Proper Use"  
The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.
- 8) "Re-Export"  
The products purchased under the Grant should not be re-exported from the recipient country.
- 9) Banking Arrangements (B/A)
  - a) The Government of the recipient country or its designated authority should open an account in the name of Government of the recipient country in a 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 issued by the Government of the recipient country or its designated authority.



Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Myanmar
1	To bear the following commission to a bank of Japan for the banking services based upon B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
2	To ensure prompt unloading and customs clearance at port of disembarkation in Myanmar		
	1) Marine (Air) transportation of the products from Japan to Myanmar	●	
	2) Tax exemption (including internal tax) and custom clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the Project site	●	
3	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.		●
4	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.		●
5	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid.		●
6	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for the transportation and installation of the equipment.		●




Calculation table of Operation and Maintenance Cost of Medical Equipment

Sr. No.	Code No.	Equipment	Qty	Spare parts	Consumable material	Unit price (Kyata)	Unit	Unit price (US\$)	Unit	Needs/Year	Unit	Total amount/year (Kyata)	Total amount/year (US\$)
2	7	Defibrillator	1		Recording paper			200	/box (10pc)	1	box		200
			1		Gel			50	/paste	1	paste		50
3	10	ECG	1		Electrode			300	/box (1000pc)	10	box		3,000
4	1	Patient monitor	1		Recording paper			200	/box (10pc)	12	box		2,400
			1		Electrode			300	/box (1000pc)	2	box		600
6	8	Ventilator	1		Recording paper			200	/box (10pc)	5	box		1,000
			2		Patient circuit			200	/pc	10	pc		4,000
8	9	Ventilator (Portable)	2		Bacteria filter			50	/pc	100	pc		10,000
			1		Patient circuit			200	/pc	10	pc		2,000
11	5	Scrub unit, wall mount type	1		Bacteria filter			50	/pc	100	pc		5,000
			1		Ultraviolet lamp			200	/pc	2	pc		400
14	12	Electrosurgical unit	1	Holder	Water filter			30	/pc	50	pc		1,500
15	13	Anaesthesia apparatus with ventilator	1		Saline			50	/pc	5	pc		250
			1		Medical gas	4,000	/Cylinder (100L)	20	/pack	100	pack		2,000
			1		Isopfluran	32,000	/bottle			125	Cyl.	500,000	0
			1		Halothan	12,000	/bottle			200	bottle	6,400,000	0
16	15	Operation light, ceiling type	1		Patient circuit			200	/pc	10	pc		2,000
20	14	Operation light, stand type	3		Halogen lamp			50	/pc	36	pc		5,400
23	11	Ultrasound diagnostic apparatus	1		Halogen lamp			50	/pc	12	pc		600
			1		Gel			50	/paste	125	paste		6,250
24	18	CT scanner	1	Convex Probe				10,000	/pc	0	pc		3,000
			1	Linear Probe				10,000	/pc	0	pc		3,000
			1	X-ray tube				40,000	/pc	1	pc		20,000
25	19	General X-ray unit with accessories	1	Service contract	Laser film			750	/film	4,000	film	3,000,000	0
			2	X-ray tube	X-ray film	2,000,000	/Year	15,000	/pc	1	Year	2,000,000	0
			1		X-ray film	20,000	/box (100films)			250	box	50,000	0
26	20	Manual Processing tank	2	Service contract	Fixer & Developer	8,000	/Year			1	Year	16,000	0
27	17	Automatic Chemistry Analyzer	1		Packing set	5,000	/100films			25,500	films	1,275,000	
			1		Reagent	11,000,000	/year	500	/set	2	set		1,000
28	18	Electrical system	1		Diesel gas	200	/L			100	L	11,000,000	0
			1		Oil filter	20,000	/pc			4	pc	80,000	0
										Total		26,261,000	72,650

Note 1 Quantity of the equipment :

O/M cost based on the number of patient is counted as "1"

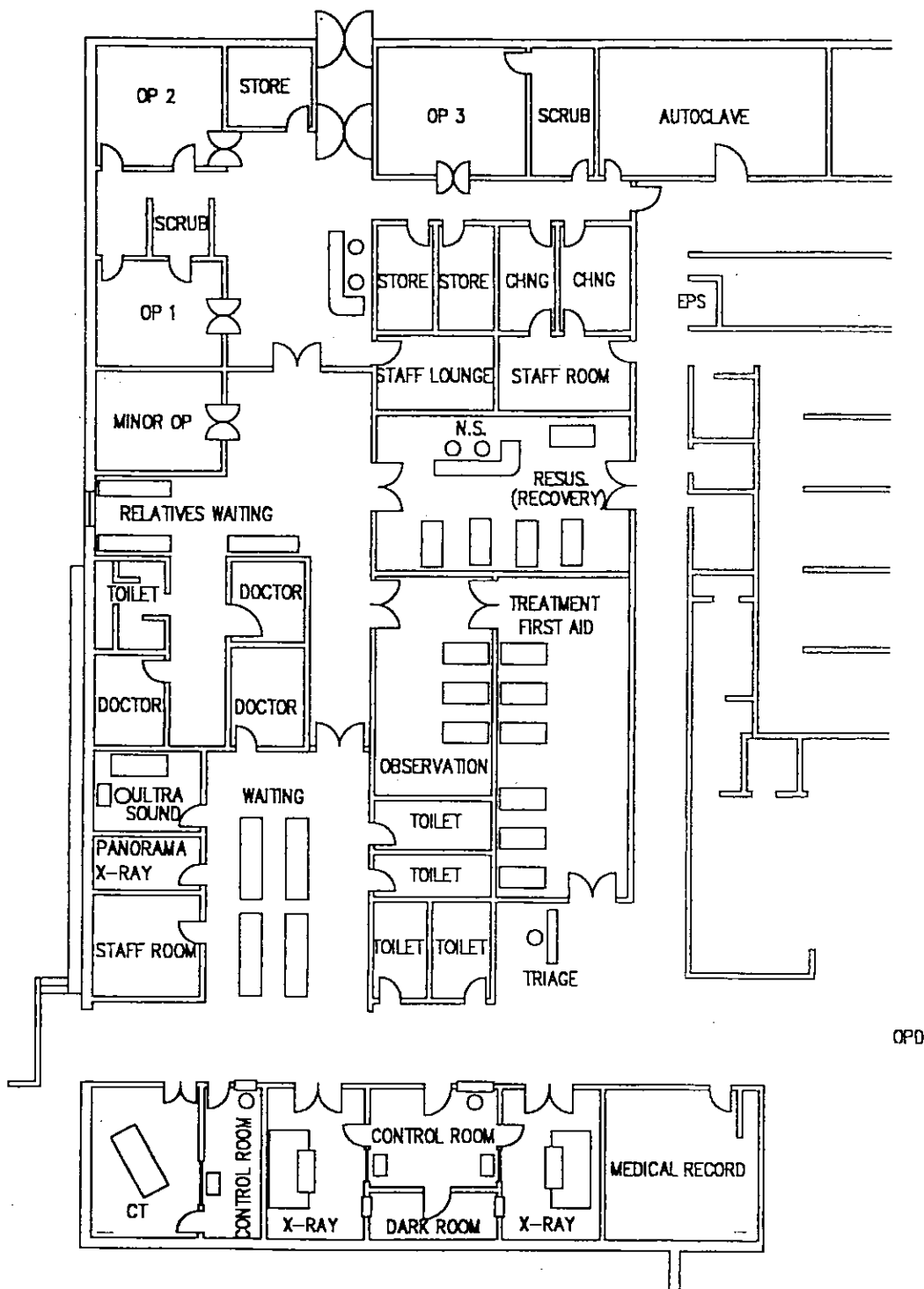
O/M cost based on the number of equipment is counted as "Planned quantity"

Note 2 Unit price shall be confirmed by the estimation from the agent of manufacturer



RENOVATION PLAN

EMERGENCY RECEIVING CENTER AND OPD, YANGON GENERAL HOSPITAL



OPD

*Handwritten signature and initials*