

## 1. Member List of the Survey Team

### Basic Design Survey (June 22 to July 10, 2003)

NAME	ROLE	INSTITUTION
Mr. Shinji TOTSUKA	Team Leader	Deputy Director Grant Aid Management Department, Japan International Cooperation Agency
Dr. Hiroshi OHARA	Technical Advisor	Senior Medical Officer, Bureau of International Cooperation, International Medical Center of Japan, Ministry of Health, Labour and Welfare
Mr. Masahiro IKAWA	Project Manager/ Architectural Planner	Nihon Sekkei, Inc.
Ms. Shiho SASADA	Health Sector Surveyor	Nihon Sekkei, Inc.
Mr. Hitoshi ITO	Architectural Designer	Nihon Sekkei, Inc.
Mr. Motohiro OKADA	Facility Planner	Nihon Sekkei, Inc.
Mr. Takashi YOZA	Equipment Planner	Medical Engineering & Planning Co. Ltd.
Mr. Kazunori SHIMIZU	Procurement and Cost Planner	Nihon Sekkei, Inc.
Mr. Kazunori KATO	Interpreter	Nihon Sekkei, Inc.
Mr. Akihiro TAKAGI	Facility Planner (Assistant)	Nihon Sekkei, Inc.
Mr. Sinichi SAKASHITA	Equipment Planner (Assistant)	Medical Engineering & Planning Co. Ltd.

### Explanation on Draft Report (September 28 to October 8, 2003)

NAME	ROLE	INSTITUTION
Mr. Shinji TOTSUKA	Team Leader	Deputy Director Grant Aid Management Department, Japan International Cooperation Agency
Dr. Hiroshi OHARA	Technical Advisor	Senior Medical Officer, Bureau of International Cooperation, International Medical Center of Japan, Ministry of Health, Labour and Welfare
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Mr. Akihiro TAKAGI	Facility Planner (Assistant)	Nihon Sekkei, Inc.

## 2. Survey Schedule

Basic Design Survey (June 22 to July 11, 2003)

1	6/22	Sun.		Narita Ho Chi Minh	Narita Bangkok Hanoi		Narita BKK Hanoi
2	6/23	Mon.		Ho Chi Minh Hanoi	Courtesy call to Embassy of Japan (EOJ)/JICA, MOH		
3	6/24	Tue.	Narita BKK Hanoi		Hanoi Hue Meeting with Hue Central Hospital (HCH)		Hanoi Hue
4	6/25	Wed.	EOJ/JICA, MOH Hanoi Hue		Meeting with HCH		
5	6/26	Thu.			Meeting with HCH		
6	6/27	Fri.			Meeting with HCH		
7	6/28	Sat.			Discussion with HCH, Discussion on Minutes		
8	6/29	Sun.		Hue Hanoi	Team Meeting	Narita Hanoi	Hue Hanoi
9	6/30	Mon.		Signing on Minutes, Report to EOJ/JICA Hanoi(23:35) Narita (Dr.Tada and Mr.Takemura)	Site Survey (HCH)	Hanoi Hue	
10	7/1	Tue.	Hanoi Phnom Penh		Hanoi Hue	Site Survey (HCH)	Hanoi Hue
11	7/2	Wed.			Site Survey (HCH)		
12	7/3	Thu.			Meeting with HCH		
13	7/4	Fri.			Hue Da Nang (by car) Da Nang Hospital etc.		
14	7/5	Sat.			Construction, Equipment Market Survey Da Nang Hue (by car)		
15	7/6	Sun.			Team Meeting	Market Survey	Meeting
16	7/7	Mon.			Meeting with HCH	Market Survey	Meeting
17	7/8	Tue.			Meeting with HCH (Signing on Technical Memorandum) Hue Hanoi		
18	7/9	Wed.			Report to JICA/EOJ	Market Survey	
19	7/10	Thu.			Market Survey Hanoi Bangkok		
20	7/11	Fri.			Narita		

Explanation on Draft Report (September 28 to October 8, 2003)

1	9/28 Sun.	Narita (Bangkok) Hanoi	
2	9/29 Mon.	Courtesy call to Embassy of Japan (EOJ)/JICA, Ministry of Health (MOH) , Ministry of Planning and Investment (MPI)	
3	9/30 Tue.	Hanoi Hue Explanation of Draft Report to Hue Central Hospital (HCH)	
4	10/1 Wed.	HCH (Design Conditions, Architectural Plan, Facility Plan, Equipment Plan, Scope of Works)	
5	10/2 Thu.	HCH (Operation & Maintenance Plan, Personnel Plan, Schedule after E/N)	
6	10/3 Fri.	Draft of Minutes of Meetings	Market Survey)
7	10/4 Sat.	Discussion with HCH, Draft of Minutes of Meetings, Survey of Project Site	Market Survey)
8	10/5 Sun.	Hue Hanoi	
9	10/6 Mon.	Signing on Minutes of Meetings at MOH, Report to EOJ/JICA	Market Survey)
10	10/7 Tue.	Hanoi (Bangkok)	
11	10/8 Wed.	Narita	

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

#### 1. Viet Nam Side

##### 1-1. Ministry of Planning and Investment: MPI

Mr. Ho Minh Chien	Deputy Director, Department of Labor and Social - Culture Affairs
Mr. Tran Kim Nguyen	Senior Expert, Department of Labor and Social - Culture Affairs
Mr. Nguyen Xuan Tien	Department of International Economic Relation

##### 1-2. Ministry of Health: MOH

Tran Trong Hai MD. Ph. D	Director General, Department of International Cooperation
Tran Thi Giang Huong MD.	Deputy Director, Department of International Cooperation
Dr. Do Khang Chien	Deputy Director, Department of Therapy
Dr. Nguyen Minh Toan	Deputy Director, Department of Medical Equipment & Construction

##### 1-3. Institute of Meteorology and Hydrology Sub-Institute of Hydrometeorology of Thua Thien Hue

Ms. Dilong Lien Chan	Deputy Chief
Mr. Nguyen Lan Chan	Head of Precipitation Station
Mr. Nguyen Hui Hai	Head of Mid- and Long-term Precipitation Station
Mr. Le Thanh Hai	Head of Short-term Precipitation Station

##### 1-4. People's Committee of Thua Thien Hue Province

Mr. Nguyen Van Me	Chairman
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##### 1-5. Hue Central Hospital

Prof. Pham Nhu The	Director of HCH
Dr. Nguyen Ngoc Luyen	Vice Director of HCH
Nguyen Duy Thang MD. Ph.D.	Vice Director of HCH
Bui Duc Phu MD. Ph.D.	Vice Director of HCH
Dr. Van Cong Trong	General Planning Department
Mr. Hoang Ngoc Son	Directorial Secretariat & International Cooperation
Mr. Nguyen Trung	Construction Department
Mr. Hoang Xuan Thank	Equipment & Facility Department
Mr. Camh Lam	Security Department

1-6. Construction Bureau of Thua Thien Hue Province

Mr. Nguyen Van Cao	Director
Mr. Nguyen The Truyen	Vice Director
Mr. Nguyen Duc Thang	

1-7. Hue Medical School

Prof. Huynh Van Minh MD	Chief of Research & International Relations Department
Nguyen Van Tap MD. Ph.D.	Chief of Research & International Relations Department
Mr. Le Minh Dien	Chief of Foreign Language Department

1-8 Health Bureau of Thua Thien Hue Province

Dr. Nguyen Duc Hue	Director
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1-9 Hue City Hospital

Ks. Nguyen Quang Hien	Vice Director
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1-10 Thua Thien Hue Construction Company

Ks. Nguyen Thi Thuy Hoa	Director
Eng. Le Quy Dinh	Deputy Director

2. Japanese Side

2-1. Embassy of Japan

Takuya TAKIGAWA	Second Secretary
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2-2. JICA Vietnam Office

Fumio Kikuchi	Resident Representative
Masato Togawa	Senior Deputy Resident Representative
Yuki Hayashi	Deputy Resident Representative
Kazuyuki Kobayashi	Senior Project Formulation Advisor

2-3. Bach Mai Hospital Project for Functional Enhancement

Shuzo Kanagawa	Chief Advisor
Keiko Kawamura	Project Coordinator
Sachiko Miyoshi	Expert on Nursing Management
Masako Tanaka	Master of Health Sciences, Pharmacist

**MINUTES OF DISCUSSIONS  
ON THE BASIC DESIGN STUDY ON THE PROJECT FOR  
IMPROVEMENT OF FACILITIES OF THE HUE CENTRAL HOSPITAL  
IN THE SOCIALIST REPUBLIC OF VIET NAM**

In response to a request from the Government of the Socialist Republic of Viet Nam (hereinafter referred to as "Viet Nam"), the Government of Japan decided to conduct a Basic Design Study on the Project for Improvement of Facilities of the Hue Central Hospital (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA has sent the Basic Design Study Team (hereinafter referred to as "the Team") headed by Mr. Shozo Matsuura, Managing Director of Grant Aid Management Department, JICA and is scheduled to stay in Viet Nam from June 22 to July 10, 2003.

The Team held discussions with the officials concerned of the Government of Viet Nam and conducted a site survey at the study area.

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

Hanoi, June 30, 2003



Mr. Shozo Matsuura  
Leader  
Basic Design Study Team  
Japan International Cooperation Agency



Dr. Tran Trong Hai MD. PhD.  
Director  
Department of International Cooperation  
Ministry of Health  
The Socialist Republic of Viet Nam



Prof. Pham Nhu The MD. PhD.  
Director  
Hue Central Hospital  
Ministry of Health  
The Socialist Republic of Viet Nam

witnessed by



Dr. Duong Duc Ung  
Director General  
Foreign Economic Relations Department  
Ministry of Planning and Investment  
The Socialist Republic of Viet Nam

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to contribute for the improvement of the Hue Central Hospital, the top referral hospital with about 1,400 beds in the central region of Viet Nam, through (1)The centralization of examination units for effective operation, (2)The enhancement of the medical services.

### 2. Project Site

The site of the Project is the Hue Central Hospital, Hue City, Thua Thien-Hue Province.

### 3. Responsible and Implementing Agency

- 3-1. The Responsible Agency is the Ministry of Health.
- 3-2. The Implementing Agency is the Hue Central Hospital.

### 4. Items requested by the Government of Viet Nam

After discussions with the Team, the facility described in Annex-1 and the equipment plan described in Annex-2 was finally confirmed as request by the Vietnamese side. JICA will assess the appropriateness of the request and will recommend it to the Government of Japan for approval.

### 5. Previous Minutes of Discussions

Both sides reconfirmed the Japan's Grant Aid Scheme of previous Minutes of Discussions of the Preparatory Study signed by the both sides on 21<sup>st</sup> January, 2003.

### 6. Schedule of the Study

- 6-1. The consultants of the Team will proceed to further studies in Viet Nam until July 10, 2003.
- 6-2. JICA will prepare the draft report in English and dispatch a mission in order to explain and discuss on its contents around September, 2003.
- 6-3. In case that the contents of the report is accepted in principle by the Government of Viet Nam, JICA will complete the final report and send it to the Government of Viet Nam around January 2004.

### 7. Other relevant issues

- 7-1. The both sides confirmed the master plan of Hue Central Hospital as described in Annex-3 and the proposed construction site for the project.
- 7-2. The Vietnamese side understood that all requests would not be covered in this project because of budgetary constraints of Japanese side. The both sides

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confirmed that future extension of the facility should be taken into consideration. The Vietnamese side requested that the Japanese side make a basic design drawings of the targeted facility in accordance with the Vietnamese side's Master plan for the improvement of the hospital, and the team took note it.

7-3. The Vietnamese side agreed to secure and allocate the necessary budgets and personnel to operate and maintain the facility and the medical equipment to be supplied by the Grant Aid properly and effectively.

7-4. The both side confirmed the priority order of departments and/or functions to be included in the new facility.

1<sup>st</sup> priority: Central Examination Unit (including Operation Theater, ICU, Recovery Room, Laboratories and so on)

2<sup>nd</sup> priority: Outpatient Department and Emergency Department

3<sup>rd</sup> priority: Inpatient Ward

The Vietnamese side stressed that the necessity of total floor area more than 15,000 m<sup>2</sup> where could accommodate inpatient ward with 300 beds capacity and requested the Japanese side consider it if the budget permits.

7-5. Both sides agreed that the medical equipment would be further examined according to the selection criteria as listed in Annex-4.

7-6. The both sides confirmed that the Vietnamese side would prepare for the rooms for 'Direction Office of Healthcare Activity (DOHA)' by reallocation of the facilities after the completion of the project.

7-7. The both sides agreed that the Japanese side would inform the Vietnamese side of the contents of the basic design through JICA Viet Nam Office prior to the dispatch of the Draft Report Explanation Team.

Annex-1: Requested functions of the facility

Annex-2: Equipment lists

Annex-3: Master plan (overall facility plan of the hospital)

Annex-4: Selection criteria of equipment

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Annex - 1 Requested functions of the facility

Central Examination Unit

- Imaging Department  
(General X-ray, Fluoroscopy etc.)
- Functional Examination  
(Ultra-sound, ECG, EEG, Spirometer, etc.)
- Endoscopy
- Laboratory  
(Pathology, Hematology, Biochemistry, Microbiology)
- Operation Theater
- ICU
- Recovery Room
- Sterilization Room for Operation Theater

Outpatient Department

- Out-patient Clinic  
(Internal Medicine, Surgery, Ophthalmology, ENT, Dental)
- Emergency Department

In-patient Ward

- Surgical Ward (Neuro Surgery etc.)

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## Annex-2 Equipment lists

Department	NO.	Equipment	Q'ty
Emergency Room	1	Operating Table (B)	1
Emergency Room	2	Operating Light (B)	1
Emergency Room	3	Defibrillator	2
Emergency Room	4	Ultrasound Scanner	1
Emergency Room	5	Ventilator	1
Emergency Room	7	ECG	2
Emergency Room	8	Blood Gas Analyzer	1
Emergency Room	10	Infusion Pump	5
Emergency Room	11	Minor Surgical Instrument Set	2
Emergency Room	13	Suction Unit	4
Emergency Room	14	Table Top Steam Sterilizer	2
Emergency Room	16	Ambulance Car	2
Surgery	7	Plaster Bandage Table	4
Dental Clinic	1	X-ray Unit for Dental	1
Dental Clinic	2	Automatic Film Processor	1
Dental Clinic	3	Dental Laboratory Engine	4
Dental Clinic	6	Centrifugal Casting Machine	1
Dental Clinic	7	Dental Instrument Set	1
Dental Clinic	8	Hydraulic Flask Press	1
Dental Clinic	9	Model Trimmer	1
Dental Clinic	10	Laboratory Micromoter	1
Dental Clinic	11	Laboratory Lathe	1
Dental Clinic	13	Boiling Sterilizer	1
Dental Clinic	15	Dental Chair Unit	15
Dental Clinic	16	Parallel Manometer	1
Dental Clinic	17	Full Automatic Computed Plastic Furnace	2
Dental Clinic	18	Amalgam Mixer	1
Dental Clinic	19	Treatment Vacuum Motor	1
Dental Clinic	20	Ultrasonic Scaler	1
Ophthalmology Clinic	1	Refracting Unit	1
Ophthalmology Clinic	4	Cryosurgery Unit	1
Ophthalmology Clinic	8	Coniolees	3
Ophthalmology Clinic	10	Trial Lens Set	5
Ophthalmology Clinic	15	Slit Lamp Microscope	3
Ophthalmology Clinic	16	Ophthalmoscope	3
Ophthalmology Clinic	17	Optometer	3
Ophthalmology Clinic	18	Perimeter	2
Ophthalmology Clinic	19	Ophthalmoscope	2
Ophthalmology Clinic	20	Lenameter	3
Ophthalmology Clinic	21	Fundus Camera	1
Ophthalmology Clinic	22	Keratometer	1
E.N.T. Clinic	1	ENT Treatment Unit	3
E.N.T. Clinic	2	ENT Treatment Chair	3
E.N.T. Clinic	3	Audiometer	2
E.N.T. Clinic	6	Nebulizer Unit	3
E.N.T. Clinic	8	Sinuscope	4
E.N.T. Clinic	9	Microscope for the ENT	1
E.N.T. Clinic	11	Stroboscope	2

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## Annex-2 Equipment lists

Department	NO.	Equipment	Q'ty
E.N.T. Clinic	13	Exam and Treat Instrument Set	3
Operation Theater	1	C-arm X-ray Unit	1
Operation Theater	2	Universal Operating Table	8
Operation Theater	3	Orthopedic Operating Table	2
Operation Theater	4	Operating Light	8
Operation Theater	6	Electro Surgical Unit	8
Operation Theater	7	Patient Monitor	8
Operation Theater	8	Anesthesia Apparatus with ventilator	8
Operation Theater	10	Infant Ventilator	3
Operation Theater	11	Operating Microscope	3
Operation Theater	13	Defibrillator	8
Operation Theater	14	Cryosurgery Unit	4
Operation Theater	15	ECG 12ch	8
Operation Theater	16	Operating Instrument Set, in which,	
Operation Theater	17	• Digestive Instrument Set	2
Operation Theater	18	• Orthopedic Instrument Set	2
Operation Theater	19	• Neurosurgery Instrument Set	2
Operation Theater	20	• Urology Instrument Set	2
Operation Theater	21	• Pediatric Surgery Instrument Set	2
Operation Theater	22	• Micro Surgery Instrument Set	2
Operation Theater	23	• Thoracic Surgery Instrument Set	2
Operation Theater	24	• General Surgery Instrument Set	2
Operation Theater	25	Small Operating Instrument Set	12
Operation Theater	26	Surgical Scrub Station for 8 O.R.	8
Operation Theater	27	Blood Gas Analyzer	1
Operation Theater	29	Suction Unit	10
Ophthalmology Clinic	6	Ophthalmic YAG Laser System	1
Ophthalmology Clinic	7	Argon Laser Photocoagulator	1
Imaging	1	CT Scanner Multi Slice	1
Imaging	2	Fluoroscopic X-ray TV System	2
Imaging	3	General X-ray System	4
Imaging	4	Angiographic X-ray System	1
Imaging	5	Mobile X-ray Unit	2
Imaging	6	Automatic Film Processor	4
Imaging	8	Cassette Pass Box	4
Imaging	10	Color Doppler Ultrasound	3
Imaging	11	Color Ultrasound (3 Transducers)	3
Sterilization Room	1	High Pressure Steam Sterilizer	4
Sterilization Room	2	Ultrasonic Cleaner	1
Sterilization Room	3	Tube Washer	1
Sterilization Room	4	Jet Washer	1
Sterilization Room	9	Low Pressure Steam Sterilizer	1
Functional Examination*	1	Broncho Fiberscope	2
Endoscopy	2	Colono Fiberscope	1
Endoscopy	3	Gastrointestinal Fiberscope	2
Endoscopy	6	Endoscope CCD Camera System	1
Endoscopy	9	Endoscope Cabinet	1
Endoscopy	10	Spirometer	1

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## Annex-2 Equipment lists

Department	NO.	Equipment	Q'ty
Endoscopy	11	Echo Cardingraph 2D	2
Endoscopy	12	ECG 6 Channels	2
Endoscopy	13	ECG 2 Channels	3
Endoscopy	14	ECG 1 Channels	10
Endoscopy + Function Examination	15	EEG	1
Endoscopy	16	Electromyograph	1
Pathology	2	Rotary Microtome	1
Pathology	4	Automatic Tissue Processor	2
Pathology	6	Automatic Slide Stainer	1
Pathology	8	Slide Warmer	3
Pathology	9	Fluorescent Microscope	2
Pathology	11	Stereoscopic Microtome	2
Pathology	13	Electronic Balance	3
Hematology(Routine Exam)	8	Refrigerated Centrifuge	2
Hematology(Routine Exam)	9	Autoclave	2
Hematology(Routine Exam)	10	Incubator	2
Hematology(Routine Exam)	11	Water Distillation Apparatus	1
Hematology(Routine Exam)	12	Water Purifier	1
Hematology(Routine Exam)	15	Drying Oven	2
Biochemistry	1	Water Distillation Apparatus	2
Biochemistry	2	Deep Freezer	1
Biochemistry	3	Drying Oven	5
Biochemistry	9	Automatic Biochemical Analyzer	1
Biochemistry	11	Automatic Osmometer	1
Microbiology	2	Safety Cabinet	1
Microbiology	4	High Pressure Steam Sterilizer	1
Microbiology	5	Automatic Micropipette Set	1
Microbiology	6	Vertical Sterilizer	2
Microbiology	8	Water Distillation Apparatus	2
Microbiology	9	Hot Air Sterilizer	3
Microbiology	11	Table Top Centrifuge	3
Microbiology	12	Electronic Balance	4
Microbiology	13	Water Bath	3
Pharmacy	1	Vertical Autoclave	3
Pharmacy	2	Hot Air Sterilizer	1
Pharmacy	5	Precision Balance	4
Pharmacy	6	Water Distillation Apparatus	1
ICU	1	Central Monitor	1
ICU	2	Patient Monitor	18
ICU	3	Pace Maker	2
ICU	4	Defibrillator	2
ICU	5	ECO	3
ICU	7	Ventilator	10
ICU	8	Pulse Oximeter	10
ICU	9	Infusion Pump	5
ICU	10	Syringe Pump	4
ICU	11	Ultrasonic Nebulizer	4
ICU	14	Autoclave, Table-top	4

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A

B

## Annex-2 Equipment lists

Department	NO.	Equipment	Q'ty
Recovery Room	2	Suction Unit	5
Recovery Room	3	Infant Incubator	2
Recovery Room	5	Electric Suction Unit	5
Recovery Room	9	Ventilator	10
Recovery Room	10	Monitor	30
Recovery Room	11	Defibrillator	2
Recovery Room	12	Syringe Pump	30
Recovery Room	13	Infusion Pump	10
Recovery Room	14	Nebulizer	10
Recovery Room	15	Infant Ventilator	2
Hospital Bed	7	• Recovery Bed	30
Hospital Bed	8	• ICU Bed	30
Pediatric	4	Infant Incubator	4
Pediatric	5	Phototherapy Unit	4
Pediatric	6	Neonatal Monitor	2
Pediatric	8	Oxygen Monitor	4
Pediatric	12	Bilirubin Analyzer	2
NICU	3	Infant Ventilator	2
NICU	5	Patient Monitor	
NICU	6	Syringe Pump	4
Gynecology-Obstetric (New born)	1	Infant Incubator	4
Gynecology-Obstetric (New born)	3	Phototherapy Unit	2
Gynecology-Obstetric (New born)	4	Portable Suction Unit	4
Gynecology-Obstetric (New born)	5	Infant monitor	2
Gynecology-Obstetric (New born)	7	Infusion Pump	4
Gynecology-Obstetric (New born)	8	Bilirubin Analyzer	1
Gynecology-Obstetric (Delivery room)	11	Doppler Echo Sounder	2
Gynecology-Obstetric (Delivery room)	12	CTO Monitor	2
Gynecology-Obstetric (Delivery room)	13	Laryngoscope for Infant	3
Gynecology-Obstetric (Delivery room)	14	Ambu bag	3
Gynecology-Obstetric (Delivery room)	15	Infant Warmer	2
Gynecology-Obstetric (Delivery room)	16	Delivery Instrument set	1
Gynecology-Obstetric (Delivery room)	17	Vacuum Extractor	2
Gynecology-Obstetric (Delivery room)	18	Delivery Table	5
Gynecology-Obstetric (Delivery room)	19	Neonatal PH meter	1
Gynecology-Obstetric (Consultation)	20	Colposcope	1
Gynecology-Obstetric (Consultation)	21	Colour Ultrasound Apparatus	1
Gynecology-Obstetric (Consultation)	22	CTO Monitor	1
Gynecology-Obstetric (Consultation)	23	Portable Echo Machine	1

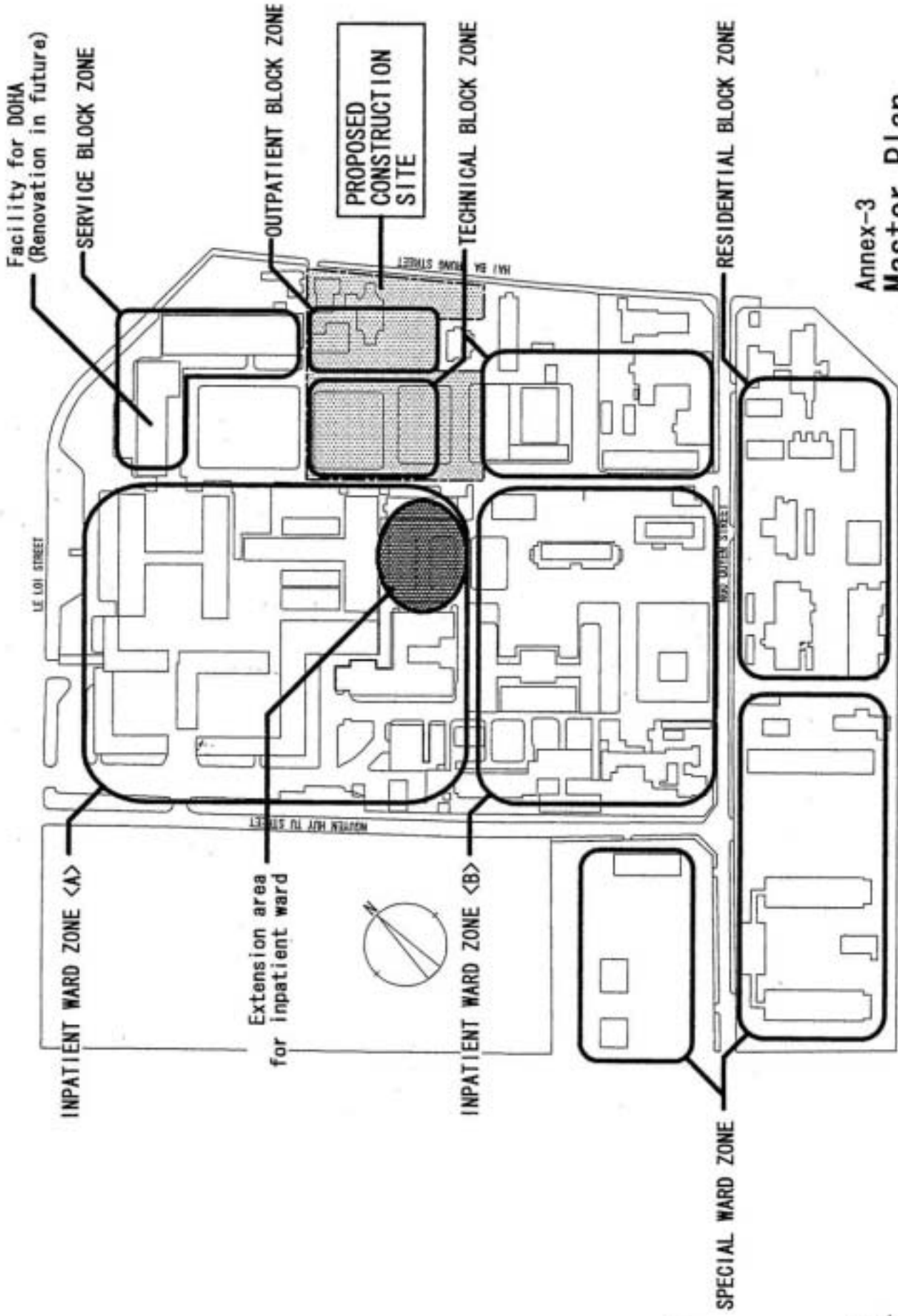
Priority A : Essential Equipment

B : Shall be continued further studied

C : Better if it is available





Annex-3

**Master Plan**

(Overall facility plan of the hospital)

Planning of Medical Equipment shall be designed based on following Basic Criteria for Selecting the Equipment.

1. Criteria for giving High priority

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

2. Criteria for giving Low priority

- (1) Equipment that required high operation and maintenance cost.
- (2) Equipment that has limited benefit/effect to hospital.
- (3) Equipment that is lowly cost-effective.
- (4) Equipment that is not for treatment / diagnosis use, but for academic research purpose.
- (5) Equipment that can be substituted with a simple ones.
- (6) Equipment that may cause environmental pollution by its medical waste etc.
- (7) Equipment that is not proven for its medical usefulness (necessity).
- (8) Equipment that is for personal usage by hospital staff (not medical use).
- (9) Equipment that has than minimum required quantity (inefficient, repetitive equipment).
- (10) Equipment that is difficult to locally procure its spare parts and consumables.
- (11) Equipment that cannot be operated by hospital's current technical capability.
- (12) Equipment that seem to be difficult to operate / maintained by present hospital's staff.
- (13) Equipment that does not match with hospital's social position / function (referral system, local needs).
- (14) Equipment that requires large scope of infrastructure work (water, electricity supply, drain, etc.) for its installation.
- (15) Equipment that can be substituted by efficient usage of existing equipment.
- (16) The item, which is not considered as Medical Equipment.
- (17) The item, which can be purchased by the Recipient side.

Criteria when International Standard Exists

Standard of WHO (ex. X-ray equipment, etc) is applicable on case by case basis.

*Shubh 12/11/2024 T.R.*