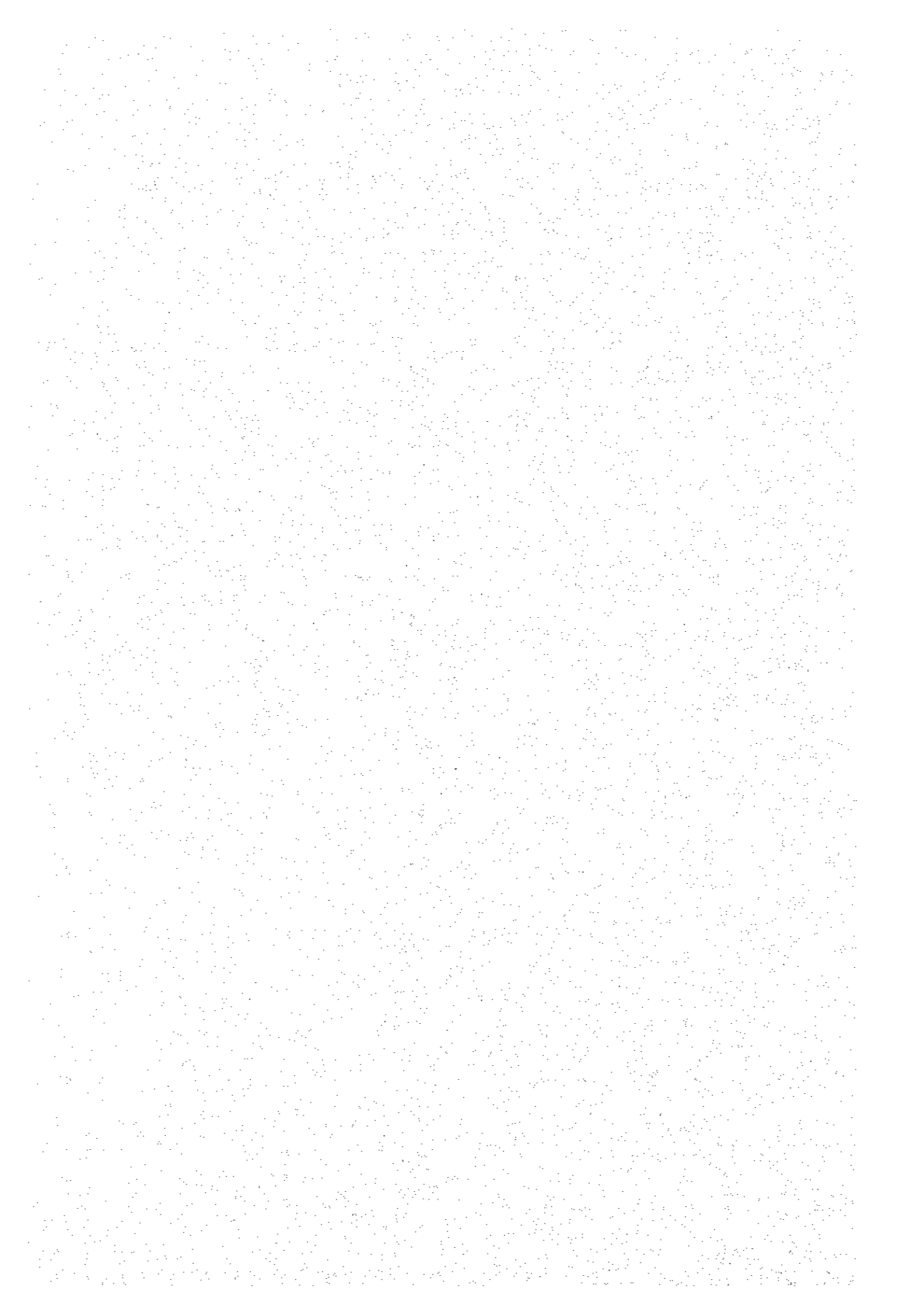


## APPENDICES



**1. Member List of the Survey Team**

**(1) Basic Design Study (April 8 - May 12, 1997)**

Mr. Shigeki ASAHI	Leader	Expert Service Division, Bureau of International Cooperation, International Medical Center of Japan
Mr. Hiroshi NAKAMURA	Coordinator	First Project Study Division Grant Aid Project Study, JICA
Mr. Fumio ARAI	Project Manager/ Architectural Planner	Yamashita Sekkei Inc.
Mr. Hiroshi NAITO	Hospital Management Planner/Operation and Maintenance Planner	International Techno Center Co., Ltd.
Mr. Norio ISHIOKA	Facility Planner	Yamashita Sekkei Inc.
Mr. Tamotsu NOZAKI	Equipment Planner/Operation and Maintenance Planner	International Techno Center Co., Ltd.
Mr. Yoshikazu SHIMADA	Cost and Procurement Planner	Yamashita Sekkei Inc.

**(2) Explanation of Draft Basic Design (July 26 - August 8, 1997)**

Mr. Yukio ABE	Leader	Osaka International Center, JICA
Ms. Youko KONISHI	Technical Advisor	Expert Service Division, Bureau of International Cooperation, International Medical Center of Japan
Mr. Fumio ARAI	Project Manager/ Architectural Planner	Yamashita Sekkei Inc.
Mr. Hiroshi NAITO	Hospital Management Planner/Operation and Maintenance Planner	International Techno Center Co., Ltd.
Mr. Tamotsu NOZAKI	Equipment Planner/Operation and Maintenance Planner	International Techno Center Co., Ltd.

## 2. Survey Schedule

### (1) Basic Design Study (April 8 - May 12, 1997)

No.	Date	Schedule
1	April 8 (Tue)	<ul style="list-style-type: none"> <li>• Lv. Tokyo (JL401) Arr. London (Dr. Asahi, Mr. Arai, Mr. Naito, Mr. Ishioka, Mr. Nozaki, Mr. Shimada)</li> </ul>
2	April 9 (Wed)	<ul style="list-style-type: none"> <li>• Lv. London</li> </ul>
3	April 10 (Thu)	<ul style="list-style-type: none"> <li>• Arr. Nairobi</li> <li>• Field Survey at Kenyatta</li> </ul>
4	April 11 (Fri)	<ul style="list-style-type: none"> <li>• Courtesy call on JICA Kenya office</li> <li>• Courtesy call and Discussion at Ministry of Health</li> <li>• Field Survey at Kenyatta Hospital</li> <li>• Hand out questionnaire</li> <li>• Lv. Nairobi (KQ624) Arr. Mombasa (Dr. Asahi, Mr. Arai, Mr. Naito, Mr. Ishioka, Mr. Nozaki, Mr. Shimada)</li> </ul>
5	April 12 (Sat)	<ul style="list-style-type: none"> <li>• Survey at CPGH</li> <li>• Meeting within the team</li> </ul>
6	April 13 (Sun)	<ul style="list-style-type: none"> <li>• Meeting within the team</li> <li>• Study on collected data</li> <li>• Arr. Mombasa (Mr. Nakamura)</li> </ul>
7	April 14 (Mon)	<ul style="list-style-type: none"> <li>• PCM workshop at CPGH</li> </ul>
8	April 15 (Tue)	<ul style="list-style-type: none"> <li>• PCM workshop at CPGH</li> <li>• Meeting on Minutes of Discussion</li> </ul>
9	April 16 (Wed)	<ul style="list-style-type: none"> <li>• Meeting at CPGH on Minutes of Discussion</li> <li>• Survey on facilities at CPGH</li> </ul>
10	April 17 (Thu)	<ul style="list-style-type: none"> <li>• Lv. Mombasa (KQ603) Arr. Nairobi (Dr. Asahi, Mr. Nakamura, Mr. Arai, Mr. Naito, Mr. Nozaki, Mr. Shimada)</li> <li>• Meeting at MOH on Minutes of Discussion</li> <li>• Signing Minutes of Discussion at MOH</li> <li>• Report to JICA Kenya office</li> </ul>
11	April 18 (Fri)	<ul style="list-style-type: none"> <li>• Report to Embassy of Japan</li> <li>• Meeting with MOW</li> <li>• Meeting within the team</li> </ul>
12	April 19 (Sat)	<ul style="list-style-type: none"> <li>• Meeting within the team</li> <li>• Lv. Nairobi (KQ624), Arr. Mombasa (Mr. Arai, Mr. Naito, Mr. Nozaki, Mr. Shimada)</li> <li>• Lv. Nairobi (AF481) (Dr. Asahi, Mr. Nakamura)</li> </ul>
13	April 20 (Sun)	<ul style="list-style-type: none"> <li>• Study on collected data</li> <li>• Meeting within the team</li> <li>• Arr. Paris, Lv. Paris (JL481) (Dr. Asahi, Mr. Nakamura)</li> </ul>
14	April 21 (Mon)	<ul style="list-style-type: none"> <li>• Survey at CPGH</li> <li>• Collecting data at Building Section of Town Hall</li> <li>• Meeting within the team</li> <li>• Arr. Tokyo (Dr. Asahi, Mr. Nakamura)</li> </ul>
15	April 22 (Tue)	<ul style="list-style-type: none"> <li>• Discussion and Survey at CPGH</li> <li>• Discussion on PDM within the team</li> </ul>
16	April 23 (Wed)	<ul style="list-style-type: none"> <li>• Visit Aga Khan Hospital</li> <li>• Discussion at CPGH</li> <li>• Survey at CPGH</li> <li>• Collectin and Study on questionnair</li> </ul>

No.	Date	Schedule
17	April 24 (Thu)	<ul style="list-style-type: none"> <li>• Discussion on PDM at CPGH</li> <li>• Correctin of PDM within the team</li> <li>• Collection and Study on questionnair</li> </ul>
18	April 25 (Fri)	<ul style="list-style-type: none"> <li>• Finalization of PDM at CPGH</li> <li>• Survey at CPGH</li> <li>• Lv. Mombasa (KQ643) Arr. Nairobi (Mr. Shimada)</li> </ul>
19	April 26 (Sat)	<ul style="list-style-type: none"> <li>• Study on collected data</li> <li>• Meeting within the team</li> <li>• Survey on construction market</li> </ul>
20	April 27 (Sun)	<ul style="list-style-type: none"> <li>• Study on collected data</li> <li>• Meeting within the team</li> <li>• Lv. Mombasa (KQ493) Arr. Nairobi (Mr. Naito, Mr. Ishioka)</li> <li>• Lv. Nairobi (LH581) (Mr. Naito, Mr. Ishioka, Mr. Shimada)</li> </ul>
21	April 28 (Mon)	<ul style="list-style-type: none"> <li>• Discussion and Survey at CPGH</li> <li>• Arr. Frankfurt Lv. Frankfurt (JL408) (Mr. Naito, Mr. Ishioka, Mr. Shimada)</li> </ul>
22	April 29 (Tue)	<ul style="list-style-type: none"> <li>• Discussion at CPGH</li> <li>• Arr. Tokyo (Mr. Naito, Mr. Ishioka, Mr. Shimada)</li> </ul>
23	April 30 (Wed)	<ul style="list-style-type: none"> <li>• Meeting at MOW</li> <li>• Discussion at CPGH, collectin of questionnair</li> </ul>
24	May 1 (Thu)	<ul style="list-style-type: none"> <li>• Study on collected data</li> <li>• Meeting within the team</li> <li>• Lv. Mombasa (KQ611) Arr. Nairobi (Mr. Nozaki)</li> <li>• Survey on equipment market</li> </ul>
25	May 2 (Fri)	<ul style="list-style-type: none"> <li>• Discussion at CPGH</li> <li>• Survey on construction market</li> <li>• Survey on equipment market</li> </ul>
26	May 3 (Sat)	<ul style="list-style-type: none"> <li>• Study on collected data</li> </ul>
27	May 4 (Sun)	<ul style="list-style-type: none"> <li>• Study on collected data</li> </ul>
28	May 5 (Mon)	<ul style="list-style-type: none"> <li>• Survey at CPGH</li> <li>• Survey on construction and equipment market</li> <li>• Collection at questionnair</li> </ul>
29	May 6 (Tue)	<ul style="list-style-type: none"> <li>• Discussin at CPGH</li> <li>• Collection of questionnair</li> <li>• Survey on construction and equipment market</li> </ul>
30	May 7 (Wed)	<ul style="list-style-type: none"> <li>• Discussion at CPGH</li> <li>• Survey on construction and equipment market</li> <li>• Collection of questionnair</li> </ul>
31	May 8 (Thu)	<ul style="list-style-type: none"> <li>• Lv. Mombasa (KQ611) Arr. Nairobi (Mr. Arai)</li> <li>• Survey on equipment market</li> </ul>
32	May 9 (Fri)	<ul style="list-style-type: none"> <li>• Report to JICA Kenya office</li> <li>• Survey on equipment market</li> </ul>
33	May 10 (Sat)	<ul style="list-style-type: none"> <li>• Study on collected data</li> <li>• Lv. Nairobi (LH581) (Mr. Arai, Mr. Nozaki)</li> </ul>
34	May 11 (Sun)	<ul style="list-style-type: none"> <li>• Arr. Frankfurt Lv. Frankfurt (JL408) (Mr. Arai, Mr. Nozaki)</li> </ul>
35	May 12 (Mon)	<ul style="list-style-type: none"> <li>• Arr. Tokyo (Mr. Arai, Mr. Nozaki)</li> </ul>

(2) Explanation of Draft Basic Design (July 26 - August 8, 1997)

No.	Date	Schedule
1	July 26 (Sat)	<ul style="list-style-type: none"> <li>• Lv. Osaka (JL435) Arr. Paris(Mr. Abe), Lv. Tokyo (JL405), Arr. Paris (Ms. Konishi, Mr. Arai, Mr. Naito, Mr. Nozaki)</li> <li>• Meeting within the team</li> </ul>
2	July 27 (Sun)	<ul style="list-style-type: none"> <li>• Lv. Paris (AF980) Arr. Nairobi(Mr. Abe, Ms. Konishi, Mr. Arai, Mr. Naito, Mr. Nozaki)</li> </ul>
3	July 28 (Mon)	<ul style="list-style-type: none"> <li>• Courtesy call on JICA Kenya office</li> <li>• Discussion at JICA office</li> <li>• Lv. Nairobi (KQ624) Arr. Mombasa(Mr. Abe, Ms. Konishi, Mr. Arai, Mr. Naito, Mr. Nozaki)</li> </ul>
4	July 29 (Tue)	<ul style="list-style-type: none"> <li>• Courtesy call on CPGH and discussion in detail of the project</li> </ul>
5	July 30 (Wed)	<ul style="list-style-type: none"> <li>• Discussion at CPGH in detail of the project</li> <li>• Confirmation of the project site</li> </ul>
6	July 31 (Thu)	<ul style="list-style-type: none"> <li>• Discussion at CPGH in detail of the project</li> <li>• Confirmation of the present condition</li> </ul>
7	Aug. 1 (Fri)	<ul style="list-style-type: none"> <li>• Work within the team</li> <li>• Meeting at CPGH on Minutes of Discussion</li> </ul>
8	Aug. 2 (Sat)	<ul style="list-style-type: none"> <li>• Meeting within the team</li> <li>• Study collected data</li> </ul>
9	Aug. 3 (Sun)	<ul style="list-style-type: none"> <li>• Meeting within the team</li> <li>• Lv. Mombasa (KQ493) Arr. Nairobi (Mr. Abe, Ms. Konishi, Mr. Arai, Mr. Naito, Mr. Nozaki)</li> </ul>
10	Aug. 4 (Mon)	<ul style="list-style-type: none"> <li>• Discussion at MOH on Minutes of Discussion</li> </ul>
11	Aug. 5 (Tue)	<ul style="list-style-type: none"> <li>• Signing on Minutes of Discussion</li> <li>• Report to JICA office</li> <li>• Survey on construction market</li> </ul>
12	Aug. 6 (Wed)	<ul style="list-style-type: none"> <li>• Meeting within the team</li> <li>• Lv. Nairobi (BA2068) (Mr. Abe, Ms. Konishi, Mr. Arai, Mr. Naito, Mr. Nozaki)</li> </ul>
13	Aug. 7 (Thu)	<ul style="list-style-type: none"> <li>• Arr. London Lv. London (JL422) (JL402) (Mr. Abe, Ms. Konishi, Mr. Arai, Mr. Naito, Mr. Nozaki)</li> </ul>
14	Aug. 8 (Fri)	<ul style="list-style-type: none"> <li>• Arr. Osaka(Mr. Abe)</li> <li>• Arr. Tokyo (Ms. Konishi, Mr. Arai, Mr. Naito, Mr. Nozaki)</li> </ul>

### 3. List of Party Concerned in Kenya

#### Ministry of Health

Mr. Mohamed Kaityany	Permanent Secretary
Mr. John M. Nyamu	Head-Medical Engineering Service
Mr. Ibrahim M. Hussein	Under Secretary Head, Health Care Financing Secretariat

#### Kenyatta National Hospital

Dr. Julius S. Meme	Director
Dr. Nimrod J. M. Mwang'ombe	Neurosurgeon
Dr. Kyalo C. Musau	Neurosurgeon
Mr. Athanasius Gitari Herman	Biomedical Engineering
Mr. Nicodemus George Omambia	Hospital Engineer

#### Coast Provincial General Hospital

Dr. Esther Getambu	Chiref Administrator
Dr. J. W. O. Radol	Deputy Chief Administrator
Mr. J. K. Mwalli	Deputy Chief Health Administrative Officer
Ms. A. W. Thamu	Hospital Matron
Mr. S. S. M. Ndaka	Senior Hospital Administrative Officer
Dr. K. Jawa Baya	Deputy Chief Pharmacist
Ms. V. W. Kahiti	Matron, I/C Theatres/ICU
Ms. M. B. Chiriba	Matron, I/C Surg. Dept.
Ms. Thairu	Matron
Ms. Zainab Yusuf	Matron, I/C Maternity Unit
Mr. Jesai N. Mwanyumba	Sen. Med. Lab. Technologist
Dr. Mwaringa	E. N. T.
Dr. Mutodi C. S.	Consultant Physician
Mr. Mbaabu Majhiv	Maintenance Unit, Workshop I/C
Mr. Hussein A. Mwazumba	Public Health Technician
Dr. J. M. Othigo	Head of Dept. OB/GYN
Dr. Karega	Pediatrics Dept.
Mr. Romano Ouma Miswa	Orthopaedic Technology
Ms. Pascalina Omedo	Occupational Therapist
Dr. G. A. Maranya	Surgery/Theatre
Dr. Kombo	Surger/Theatre
Dr. Waweru	Ophthalmology
Dr. Muyodi	Dept. of Medicine
Dr. Nondi	X-ray Dept.
Dr. Randol	Dental Dept.
Dr. Mwangi	Dental Dept.
Mr. Isaac M. Nyamanga	Buildng Inspector, MOPW (CPGH)
Mr. Erasmos K. Bilu	Physiotherapist

Mr. Mbiti	Physiotherapy
Mr. Herbert Aseneka	Medical Records & Information Officer
Ms. Elizabeth Gachnjia	Secretary

The Mombasa Polytechnic

Mr. J. A. Mdigo	Depty Principal
Mr. Christopher M. Konosi	Head of Department, Medical Engineering

Municipal Council of Mombasa

Mr. Hamisi Omari Mboga	Deputy Town Clerk
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Coast Provincial Works

Mr. George O. Adidi	District Architect
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JICA Kenya Office

Mr. Minoru Tagami	Resident Reprmentative
Mr. Atsushi Matsumoto	Deputy Resident Representative
Mr. Ken Fujie	Health Field Officer

Embassy of Japan

Mr. Ryuji Uematsu	Second Secretary
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The Aga Khan Hospital

Mrs. Khushooda A. Shiriji	Assistant Administrator
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Pandya Memorial Hospital

Mrs. B. Okamu	Matron
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Mombasa Hospital

Mr. Abbas Nasser	General Manager
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4. Minutes of Discussion

**MINUTES OF DISCUSSIONS  
ON  
THE BASIC DESIGN STUDY  
ON  
THE PROJECT FOR REHABILITATION OF BUILDINGS AND  
EQUIPMENT OF COAST PROVINCIAL GENERAL HOSPITAL  
IN  
THE REPUBLIC OF KENYA**

In response to the request from the Government of Kenya, the government of Japan decided to conduct a Basic Design Study on the Project for the Rehabilitation of Buildings and Equipment of Coast Provincial General Hospital (hereinafter referred to as "the Project" ), and entrusted the study to the Japan International Cooperation Agency(JICA).

JICA sent to the Republic of Kenya a study team (hereinafter referred to as "the Team" ), which is headed by Dr.Shigeki ASAHI, International Medical Center of Japan, and is scheduled to stay in the country from April 10 to May 11, 1997.

The Team held discussions with officials concerned of the Government of Kenya and conducted field surveys of the hospitals concerned.

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

Nairobi, April 17, 1997

朝日英樹 英樹

Dr.Shigeki ASAHI  
Leader,  
Basic Design Study Team, JICA



Mr.M.Kaitany, Permanent Secretary,  
Ministry of Health



Mr.J.K.Kinyua  
Financial Secretary to Treasury

## ATTACHMENT

### 1. Objective

The objective of the Project is to improve medical functions and services of the Coast Provincial General Hospital through procurement of medical equipment, construction of its physical facilities and renovation of the facilities.

### 2. Project Site

Coast Provincial General Hospital (See Annex 1)

### 3. Responsible and Executing Organization.

(1) Responsible Agency     The Ministry of Health

(2) Executing Agency       The Ministry of Health

### 4. Items requested by the Government of Kenya.

(1) After discussions with the Team, the following items were finally requested by the Government of KENYA .

1) Procurement of Medical Equipment:

Details of items are listed in Annex 2

2) Renovation of the Buildings and Facilities:

Details of items are listed in Annex 3

However, the final items of the Project will be decided after further studies.

(2) Both parties have agreed upon the basic criteria for selection of equipment which is attached to Annex 4.

### 5. Japan's Grant Aid System

1) The Government of Kenya has understood the system of Japan's Grant Aid System as described in Annex 5.

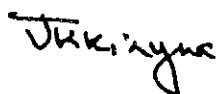
2) The Government of Kenya will take necessary measures, as described in Annex 6 for smooth implementation of the Project, on condition that the Grant Aid by the Government of Japan is extended to the Project.

### 6. Schedule of the Study

1) The consultants will proceed to further studies in the Republic of Kenya until May 10, 1997.

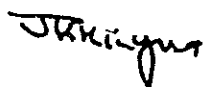
2) JICA will prepare a draft basic design report in English and dispatch a mission in order to explain its contents around July, 1997.

3) In case the contents of the draft report is accepted in principle by the Government of Kenya, JICA will complete the final report and send it to the Government of Kenya around October, 1997.



## 7. Other Relevant Issues

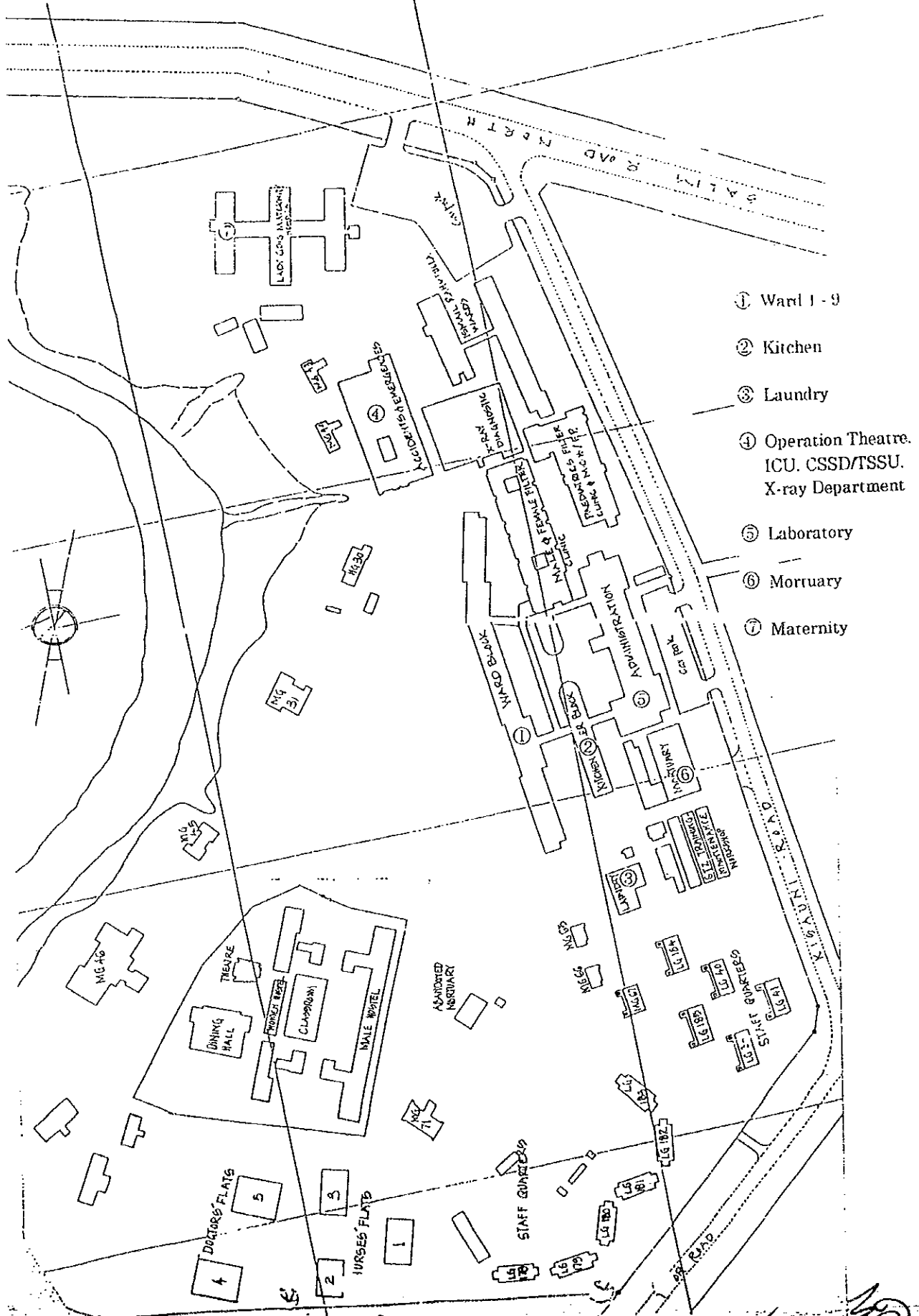
- (1) Both sides agreed that monitoring activities on the major items of the equipment provided in Grant Aid will be carried out by the Kenyan side in terms of their performance and utilization, and the data will be submitted in certain form to the Japanese side for the purpose of future evaluation and follow-up if necessary.  
(Details including monitoring format to be used will be discussed and determined in the Basic Design Study)
- (2) Kenyan side requested that training of its personnel for the operation and maintenance of the equipment provided either during installation at the site or in Japan as a Kenshuin.
- (3) Kenyan side explained that the Coast Provincial General Hospital (C.P.G.H.) will be a Pilot Hospital in the Autonomous and Decentralized Health Reform Program of the Ministry of Health.
- (4) Consensus workshop with participation approach was held at the C.P.G.H with the staffs of the C.P.G.H. and the member of the Team. Concept of the Project was reviewed and confirmed in the discussions. The result is summarized in Annex 7 with the identification of Goal, Project Purpose and Outputs.
- (5) At the Basic Design Study, Kenyan side strongly requested for renovation of the Maternity and the Mortuary.
- (6) In order to improve a function of maintenance and management of the building facilities of the CPGH, such as electrical, air ventilation, water supply and sewerage facilities, it is necessary to organize a permanent maintenance and management system which should be sustained by constant personnel training and recruitment and a firm management organization.
- (7) The Ministry of Health has expressed the following intentions;
  - i) that CPGH is expected to be autonomous institution in the next 5 years,
  - ii) that such autonomy will enable the hospital to set its own fee levels for services to increase financial sustainability,
  - iii) that efficiency and accountability will improve,
  - iv) that quality of health care will improve, and
  - v) that the hospital will make its own budget plans.







The Project for Rehabilitation of Buildings and Equipment  
of  
Coast Provincial General Hospital in the Republic of Kenya



PROCUREMENT OF MEDICAL EQUIPMENT

## 1. Administration

Code	Department	Item	Equipment	Qty
1.1	Accounts	1	Computer with printer	1
		2	Typewriter	1

1.2	Personnel	1	Photocopier	1
		2	Computer with printer	1
		3	Typewriter	1
		4	Duplicating machine	1
		5	Electrical duplicating machine	1

1.3	Records	1	Computer with printer	1
		2	Photocopier	1
		3	Typewriter	1

1.4	Offices	1	Computer with printer	1
		2	Typewriter	1

1.5	NHIF	1	Photocopier	1
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## 2. Rehabilitation

Code	Department	Item	Equipment	Qty
3.0	Physiotherapy	1	Ultrasound unit	1
		2	Short-wave diathermy unit	1
		3	Ultraviolet lamp	1
		4	Hydrocollator unit for cold & hot therapy	1
		5	Tens unit	2
		6	IRR unit	1
		7	Wax bath	1
		8	Electrical traction machine	1
		9	Pulley system	1
		10	Rolling machine with body guard	1
		11	Wall bar unit	1
		12	Suspension unit complete set	1
		13	Wrist roller	1
		14	Pedal apparatus	1
		15	Muscle stimulator	1
		16	Wheel chair	2
		17	Rolling bed-ospinator	1
		18	Walker, adult and child	5
		19	Tripped walking	1
		20	Quadruped walking stick	2

3.1	Occupation	1	Hammock	3
		2	Sitting aid (adjustable seat/ chair)	3
		3	Kneel standing aid	2
		4	Box and T (standing aids)	2
		5	Roller with cover (big)	2
		6	Tricycle (various sizes)	3
		7	Push cart (various sizes)	3
		8	Tripped walking aid	1

Code	Department	Item	Equipment	Qty
		9	Refrigerator	1
		10	Orthoplast splitting material	2
		11	Goniometer (small)	2
		12	Goniometer (large)	2
		13	Pottery wheel machine	1
		14	Foot power loom	1
		15	Upright rug loom	1
		16	Wire twisting machine	1
		17	Foot treadle drilling machine	1
		18	Wheel chair	1
		19	Tripod walking aid	1
		20	Walking frame, adult and child	2

### 3. Wards

Code	Department	Item	Equipment	Qty
4.0	Ward: 1 - 9 & IRW	1	Bed, general	260
		2	Trolley, general purpose	10
		3	Trolley, medicine, lockable	10
		4	Diagnostic set	10
		5	Urinal	50
		6	Bed pan, stainless steel	50
		7	Sputum mug, stainless steel	90
		8	Vomitus bowl, stainless steel	20
		9	Basin, stainless steel	30
		10	Instrument table, stainless steel	30
		11	Spot light	10
		12	Wheel chair	20
		13	Stretcher	20
		14	Bed, orthopaedics	40
		15	Suction unit, electric	10
		16	Suction unit, foot	10
		17	Trolley, linen	10
		18	Trolley, food	10

4.1	Ward: 3 & 4 (Surgery)	1	Autoclave, table top	1
		2	Trolley, dressing	2

4.2	Ward: 7 (Orthopaedics)	1	Autoclave, table top	1
		2	Trolley, dressing	2
		3	Splint frame, Brawn	10
		4	Pulley	50
		5	Stainmans pin	20
		6	Stirup	20
		7	Stainmans pin introducer T function type	2
		8	Plaster spreader, stainless steel	4
		9	Stainmans pin introducer T function type	2

4.3	Ward: 10 (Paediatrics)	1	Weighing scale	2
		2	Potty, stainless steel	10
		3	Cot	40
		4	Bedpan washer	5

Code	Department	Item	Equipment	Qty
		5	Diagnostic set	2
		6	Sphygmomanometer	3
		7	Spot light	1

4.4	Ward: Maternity Unit	1	Delivery bed	10
		2	Weighing scale for baby	2
		3	Examination couch	2
		4	Bed pan	10
		5	Trolley, general purpose	4
		6	Trolley, medicine	2
		7	Wheel chair	2
		8	Suction unit	4
		9	Laryngoscope, adult	2
		10	Laryngoscope, paediatric	2
		11	Suction unit, foot	2
		12	Infant warmer	1
		13	Cusco speculum	5
		14	Delivery tray	10
		15	Kocher's hemostatic forceps	8
		16	Ambu bag, adult	2
		17	Ambu bag, paediatric	2
		18	Instrument Trolley	10
		19	Basin, stainless steel	10
		20	Vacuum extractor	2
		21	Sterilizing drum	5
		22	Autoclave, table top	2
		23	Diagnostic set	2
		24	Doppler fetus detector	3

4.5	Ward: Nursery	1	Incubator	5
		2	Infant warmer	3
		3	Ambu bag, neonatal	4
		4	Trolley, general purpose	2
		5	Phototherapy unit	2
		6	Suction unit	2

4.6	Ward: Gynaecology	1	Gynaecology examination couch	1
		2	Autoclave, table top	1
		3	Kick bucket	2
		4	Spot light	1
		5	Trolley, dressing	2
		6	Flip bin	1
		7	Bucket, stainless steel	2

4.7	Casualty	1	Stretcher	8
		2	Trolley, general purpose	5
		3	Bucket, stainless steel	10
		4	Suction unit	2
		5	Bin flip, stainless steel	3
		6	X-ray film viewer	2
		7	Diagnostic instrument set	2
		8	I.V. hanger rod	5

Code	Department	Item	Equipment	Qty
		9	Spot light	1
		10	Trolley, dressing	2
		11	Wheel chair	5
		12	Work table	1
		13	Bason, stainless steel	5
		14	Electric plaster saw	1
		15	Kick bucket	3
		16	Autoclave, table top	1
		17	Cupboard	1

#### 4. Laboratory

Code	Department	Item	Equipment	Qty
5.0	Laboratory	1	Hematology analyzer (Blood cell counter)	2
		2	Binocular microscope	4
		3	Research microscope with photographic attachment	1
		4	Blood gas analyzer	1
		5	Electrolyte analyzer	1
		6	Spectrophotometer	1
		7	Clinical chemistry analyzer	1
		8	pH meter	1
		9	Hemoglobin meter	2
		10	Air conditioner	5
		11	Glucose analyzer	2
		12	Food blender (glass bottles)	1
		13	Refrigerator	4
		14	Blood bank refrigerator	1
		15	Centrifuge, table top	2
		16	Gas cooler, 2 burner	1
		17	Autoclave, table top	1
		18	Analytical balance	2
		19	Hot air oven (large)	1
		20	Incubator	1
		21	Deioniser	1
		22	HIV machine (complete 3 systems)	1
		23	Microplate shaker	1
		24	Magnifier reader	1
		25	Colony counter	1
		26	Automatic tissue processor	1
		27	Water bath for tissue floating	1
		28	Rotary microtome	1
		29	Water bath	1
		30	Wax embedding station	1
		31	Automatic knife sharpener	1
		32	Freezing microtome	1
		33	Histology/ cytology automatic staining machine	1
		34	HB/Protein electrophoresis apparatus	1

5.1	Mortuary	1	Autopsy light	2
		2	Autopsy table	2
		3	Body trolley (ordinary)	5
		4	Complete post mortem set	4



Code	Department	Item	Equipment	Qty
		5	Cranial saw	2
		6	Embalming machine	2
		7	Standard weighing scale	2

#### 5. Pharmacy

Code	Department	Item	Equipment	Qty
6.0	Pharmacy	1	Electric balance	2
		2	Heavy duty weighing machine	1
		3	Mixer	1
		4	Filter press (light duty)	1
		5	Filter press (heavy duty)	1
		6	Filling machine (high speed)	1
		7	Filling machine (low speed)	1
		8	Filling machine (small volume)	1
		9	Capping machine	1
		10	Autoclave, table top	2
		11	Water distiller	2
		12	Laminar flow	1
		13	Refrigerator	1
		14	Mixer / blender	2
		15	Homogenizer	1
		16	Filing machine for ointment and cream	2
		17	Suction pump	2

#### 6. Operation Theatre

Code	Department	Item	Equipment	Qty
7.0	Major Operation	1	Anaesthetic machine with ventilator	5
	Theatre	2	Anaesthetic trolley with two drawer	5
		3	Autoclave, table top	5
		4	Cholecystectomy set	2
		5	Craniotomy set	1
		6	Cystoscope	1
		7	Defibrillator	2
		8	Electrosurgical unit	5
		9	Horseshoe shaped head rest	5
		10	I.V. hanger rod	10
		11	Instrument cabinet	5
		12	Kick bucket	10
		13	Laparotomy set	2
		14	Laparoscopy set	1
		15	Mastectomy set	1
		16	Mayo instrument table	7
		17	Nephrectomy set	1
		18	Operating instrument set (Adult)	5
		19	Operating instrument set (Paediatric)	2
		20	Operating light	5
		21	Operating table	5
		22	Patient monitor	5

Code	Department	Item	Equipment	Qty
		23	Prostatectomy set	1
		24	Pulse oximeter	5
		25	Spot light	5
		26	Stretcher	10
		27	Suction unit	5
		28	Suction unit, foot	2
		29	Surgeon's foot stool	5
		30	Surgeon's stool	5
		31	Thyroidectomy set	2
		32	Trolley, dressing	7
		33	Trolley, gown	5
		34	Trolley, suture	7
		35	Vascular & stripping of vircose vein	1
		36	Wash basin stand. single	10
		37	General thoracic set	1

7.1	Major Operation	1	Dental disimpaction set	1
	Theatre	2	Dental fracture set	1
	(Dental & ENT)	3	Dental orthodontic set	1
		4	Dental reconstructive set	1
		5	Mandible set	1
		6	Postnasal space set	1
		7	Tonsillectomy set	1
		8	Tracheotomy set	1

7.2	Major Operation	1	Amputation set	2
	Theatre	2	AO orthopaedic set	2
	(Orthopedics)	3	Bone plating and screw tray	3
		4	Bone wiring set	1
		5	Pneumatic drill and drill bit	1
		6	External fixation set	2
		7	General bone instrument set	2
		8	Kuntsher nail set	2
		9	Orthopaedic operating table	1
		10	Plaster saw (small and big)	2
		11	Plaster shear	2
		12	Trolley, plaster	1
		13	Pneumatic tourniquet	2
		14	Screwing and plating set	2
		15	Skull traction set	2
		16	Steinmans pin set	2
		17	Tendon set	1
		18	Vesco virginal fistula set	2

7.3	Obstetric Surgery	1	Maternity theatre caesarean set	3
		2	Hysterectomy set	2
		3	Evacuation set	1
		4	Decaripitation set	1
		5	Dillation and currettage set	1
		6	Abdominal hysterectomy set	1
		7	Wertheimes hysterectomy set	1
		8	Vaginal hysterectomy set	1

Code	Department	Item	Equipment	Qty
7.4	Minor Operation	1	Anaesthesia machine	3
	Theatre	2	Anaesthetic trolley with two drawer	3
		3	Autoclave, table top	6
		4	Defibrillator	1
		5	Electrocardiograph, 1-ch	1
		6	Electrosurgical unit	1
		7	I.V. hanger rod	10
		8	Instrument cabinet	3
		9	Operating instrument set (Adult)	1
		10	Operating instrument set (Paediatric)	1
		11	Kick bucket	3
		12	Mayo instrument table	3
		13	Operating light	3
		14	Operating table	3
		15	Paediatric instrument set	1
		16	Patient monitor	3
		17	Pulse oximeter	3
		18	Resuscitator	2
		19	Spot light	3
		20	Stethoscope	6
		21	Stretcher	2
		22	Suction unit, electric	3
		23	Suction unit, foot	3
		24	Surgeon's foot stool	3
		25	Surgeon's stool	3
		26	Trolley, dressing	3
		27	Trolley, gown	3
		28	Trolley, instruments	3
		29	Wash basin stand, double	3
		30	Wash basin stand, single	3
		31	X-ray film viewer	3

7.5	ICU	1	All purpose trolley	6
		2	Autoclave, table top	1
		3	Bed	6
		4	I.V. hanger rod	12
		5	Electrocardiograph	1
		6	Incubator (infant warmer)	1
		7	Infusion pump	6
		8	Instruments trolley	1
		9	Medical refrigerator	1
		10	Patient monitor	6
		11	Portable light	6
		12	Portable X-ray machine	1
		13	Resuscitation trolley with defibrillator	1
		14	Suction unit	6
		15	Ventilator	4

7.6	CSSD	1	Autoclave, large	2
		2	Collecting delivery trolley	4
		3	Container delivery trolley	4
		4	CSSD service trolley	4

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Code	Department	Item	Equipment	Qty
		5	Drier	2
		6	Glove washing and drying machine	1
		7	BD dressing pack set	50
		8	Lumber puncture tray	4
		9	Catheterization tray	6
		10	Stitching tray	20
		11	Bone narrow tray	2
		12	Abdominal tapping tray	1
		13	Bladder irrigation tray	2
		14	Tracheotomy tray	1
		15	Blood exchange tray	1
		16	Cut down tray	4
		17	Stomach washout tray	2
		18	Rectal washout tray	2
		19	Vaginal examination tray	20
		20	Incision and drainage tray	20
		21	Liver biopsy set	1
		22	Chest aspiration set	2
		23	Emergency delivery set	2
		24	Episiotomy set	30
		25	Intercostal drainage set	10
		26	Intubation set	10
		27	Dilatation and curratage set	5

#### 7. Out-Patient Department

Code	Department	Item	Equipment	Qty
8.0	Dental	1	Complete dental chair system	4
		2	Dental autoclave (large, small)	2
		3	Portable dental suction machine	2
		4	Dental compressor machine- air- cooled	4
		5	Dental suction machine for dental chair unit	4
		6	Air conditioner	2
		7	Dental instrument cabinet (movable)	5
		8	Camera with zoom lens -scientific	1
		9	Portable scalar machine	1
		10	Portable motor with high and lower speed hand piece	1
		11	Straight handpiece -surgical	2
		12	Portable dental X-ray machine	1
		13	X-ray protection apron	1
		14	Conservative instrument - assorted	10
		15	Surgical instrument - assorted	1
		16	Dental mirror	50
		17	Instrument cabinet -lockable	2
		18	Ceramic machine	1
		19	Portable acrylic trimming motors with cord	4
		20	Acrylic trimming hand piece	4
		21	Oxygen-acetlene gas kit	1
		22	Manual casting machine	1
		23	Pressure cold curing machine	1
		24	Welding equipment with eye protector	1

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Code	Department	Item	Equipment	Qty
		25	Vacuum mixing machine	1

8.1	ENT	1	Complete consultant ENT examination table	2
		2	Antral wash-out set (Trocher. cannula, Higgison syringe)	2
		3	Head mirror	3
		4	Nasal cavitory set	6
		5	Alligator - forceps	5
		6	Nasal speculum	5
		7	Jobson horne probe	5
		8	Wax hook/ currette	5
		9	Aural syringe	2
		10	Audiometer (pure stone + speech)	1
		11	Tympanometer	1
		12	Operating microscope	1
		13	Bronchoscope- complete with fibre lighting (Infant. Child. Adult)	1
		14	Laryngoscope- complete with lighting (paeditric & adult)	1
		15	Oesphagosscopes -complete with lighting (paediatric & adult)	1
		16	Electric drill and set of burr	1
		17	Sinus endoscope (complete with lighting)	1
		18	Head light with light source	2
		19	Tympanoplasty set	2

8.2	Eye	1	Monocular (indirect ophthalmoscope heine)	1
		2	Goldman perimeter for visualised assessment	1
		3	Slit lamp	1
		4	Streak retinoscope with bar	1
		5	Trial lens set	1
		6	Trial frame	1
		7	Operating light	1
		8	Cataract operating set (surgical instruments)	1
		9	Eye lid and conjunctiva set (surgical instrument)	1
		10	Basic and emergency set	1
		11	Ultrasound A/B scan	1
		12	Bipolar diatheramy	1
		13	Autoclave	1
		14	Wall chart	1
		15	Direct ophthalmoscope	1
		16	Refrigerator	1

8.3	Paediatric Unit	1	Mercurial thermometer	5
		2	Diagnostic set	3
		3	Paediatric stethoscope	5
		4	Suction unit	2
		5	Autoclave, table top	1
		6	Baby weighing scale	1
		7	Potty, stainless stell	20
		8	Trolley, treatment	3
		9	Bedpan washer	1
		10	Oxygen flowmeter with humidifier	2
		11	Jacson lees resuscitator	1
		12	Weighing scale	1

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8. X-Ray Department

Code	Department	Item	Equipment	Qty
9.0	X-ray	1	General X-ray unit	1
		2	Ultrasound unit (general)	1
		3	Ultrasound unit (obstetric)	1
		4	Mobile X-ray unit	1
		5	Automatic processor	1
		6	Manual processor	1
		7	Dental film processor	1
		8	Cassette and Screen, 35 x 43 cm	5
		9	Cassette and Screen, 35 x 35 cm	5
		10	Cassette and Screen, 30 x 15 cm	5
		11	Cassette and Screen, 24 x 30 cm	15
		12	Cassette and Screen, 24 x 18 cm	5
		13	Gridded cassette with screen	3
		14	Curved cassette with screen	2
		15	Stationery grids-sizes, 35x43cm	5
		16	Stationery grids-sizes, 24x30cm	3
		17	Automatic side marker	5
		18	Actinic light marker	1
		19	Pelvimetry ruler	2
		20	Vertical bucky	2
		21	Lead/rubber glove	3
		22	Lead/rubber apron	3
		23	Rare earth screen	3
		24	Film hopper	2
		25	Enema can and set	2
		26	Pneumocolon and accessory tubing	2
		27	Victoria ring (enema)	2

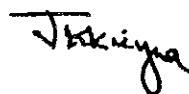
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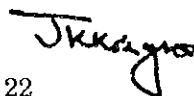
RENOVATION OF THE BUILDINGS AND FACILITIES

First Priority	Renovation of the lavatories and shower rooms of Ward 1 to 9
Second Priority	Construction of the Laundry
Third Priority	Renovation of the Air ventilation of the Operation Theater, ICU, Central Sterilizing Supply Department (CSSD)/Theatre Sterilizing Supply Unit (TSSU),and X-ray Department
Fourth Priority	Construction of the Kitchen
Fifth Priority	Renovation of the Laboratories
Sixth Priority	Installation of the Oxygen Plant



## Basic Criteria for Selection of Equipment

- 1) Equipment which will be included in the Project
  - (a) Equipment which is effectively applied to many patients
  - (b) Equipment which is utilized for basic medical care
  - (c) Equipment which is utilized with ordinary and already established technique
  - (d) Equipment whose operation and maintenance cost is affordable by the Kenyan side
  - (e) Existing equipment which is outdated
  - (f) Equipment which is required to maintain and improve the medical services of the hospital
  - (g) Equipment which is utilized within the present manpower resources
  
- 2) Equipment which will be excluded from the Project
  - (a) Equipment whose object is for advanced research activities
  - (b) Equipment whose maintenance is troublesome technically and financially
  - (c) Equipment which is possible to purchase locally by the hospital finance





NECESSARY MEASURES TO BE TAKEN  
BY THE REPUBLIC OF KENYA

1. to provide data and information necessary for the Project,
2. to secure the site for the Project,
3. to clear, level and reclaim the site prior to commencement of the Project,
4. to undertake incidental outdoor works such as gardening, fencing, gates and exterior lightning in and around the site,
5. to provide facilities for distribution of electricity, water supply, telephone, drainage, sewerage and other incidental facilities to the site,
  - (1) electricity distributing line to the site
  - (2) city water distribution main to the site
  - (3) drainage city main to the site
  - (4) telephone trunk line and the main distribution panel of building
  - (5) general furniture such as carpets, curtains, tables, chairs and others
6. to bear commissions to the Japanese foreign exchange bank for its banking service based upon the Banking Arrangement (B/A), namely the advertising commission of the Authorization to Pay (A/P) and payment commission,
7. to ensure prompt unloading, tax exemption, customs clearance at the port of disembarkation in Republic of Kenya and prompt internal transportation therein of the materials and equipment for the Project purchased under the Grant Aid,
8. to exempt Japanese juridical and physical nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Kenya with respect to the supply of the products and services under the verified contracts,
9. 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 Kenya and stay therein for the performance of their work,
10. to provide necessary permissions, licenses and other authorizations for implementing the Project, if necessary,
11. to assign appropriate budget and teaching and administrative staff members for proper and effective operation and maintenance of equipment procured under the Grant Aid,
12. to maintain and use properly and effectively the facilities constructed and the equipment procured under the Project, and
13. to bear all the expenses, other than those to be borne by the Japan's Grant Aid within the scope of the Project



## JAPAN'S GRANT AID PROGRAM

### 1. Japan's Grant Aid Procedures

(1) The Japan's Grant Aid Program is executed by the following procedures.

**Application** (Request made by a recipient country)

**Study** (Preliminary Study / Basic Design Study conducted by JICA)

**Appraisal & Approval** (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)

**Determination of Implementation** (Exchange of Notes between the both Governments)

**Implementation** (Implementation of the Project)

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

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

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

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

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

### 2. Contents of the Study

(1) Contents of the Study

The purpose of the Study (Preliminary Study/Basic Design Study) conducted

on a project requested by JICA is to provide a basic document necessary for appraisal of the project by the Japanese Government. The contents of the Study are as follows:

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

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

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

## (2) Selecting (a) Consulting Firm(s)

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

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

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

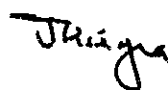
A Preliminary Study is conducted during the second step of a project formulation & preparation as mentioned above.

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

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

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

## 3. Japan's Grant Aid Scheme



(1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non reimbursable funds needed to procure facilities, equipment and services for economic and social development of the country under the following principles in accordance with relevant laws and regulations of Japan. The Grant Aid is not in a form of donation or such.

(2) Exchange of Notes (E/N)

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

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

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

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

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

(5) Necessity of the "Verification"

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

(6) Undertakings required to the Government of the recipient country

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

- a) to secure land necessary for the sites of the project and to clear and level the land prior to commencement of the construction work,
- b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,

- c) to secure buildings prior to the installation work in case the Project is providing equipment,
- d) to ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,
- e) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,
- f) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) Proper Use

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

(8) Re-export

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

(9) Banking Arrangement (B/A)

- a) The Government of the recipient country or its designated authority shall open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank" ). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by Government of the recipient country or its designated authority under the contracts verified.
- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay issued by the Government of the recipient country or its designated authority.

**The Project for Rehabilitation of Buildings and Equipment  
of  
Coast Provincial General Hospital in the Republic of Kenya**

## Overall Goal

Being able to provide proper health care services as a provincial general hospital

## Project Purpose

To improve secondary medical health care in the Coast Provincial General Hospital

## Outputs

**Medical Equipment**

Necessary medical equipment to achieve the project purpose is provided.

**Buildings and facilities**

## 1. Ward 1 - 9

- 1) Conditions of toilets and shower rooms are improved.

## 2. Laundry

- 1) Adequate work space and laundry equipment for laundry activities are provided.
- 2) Activity flow is regulated so as not to mix dirty and clean laundry.

## 3. Operation Theatre , ICU, CSSD/TSSU, and X-ray Department

- 1) Air ventilation is improved.

## 4. Kitchen

- 1) Adequate work space and environment, food storage and kitchen equipment are provided.
- 2) Activity flows of staff and food are improved.

## 5. Laboratory

- 1) Work environment is improved.
- 2) Security of equipment is improved.

## 6. Oxygen Plant

- 1) Necessary amount of oxygen is provided economically .

## 7. Mortuary

- 1) Storage capacity is increased.
- 2) Ventilation is improved.

## 8. Maternity

- 1) Function of the department is improved.

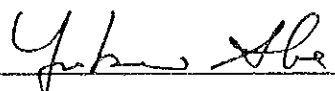
**MINUTES OF DISCUSSIONS  
ON  
THE BASIC DESIGN STUDY  
ON  
THE PROJECT FOR REHABILITATION OF BUILDINGS AND  
EQUIPMENT OF COAST PROVINCIAL GENERAL HOSPITAL  
IN  
THE REPUBLIC OF KENYA  
( CONSULTATION ON DRAFT REPORT )**

In April 1997, the Japan International Cooperation Agency (JICA) dispatched a Basic Design Study team on the Project for Rehabilitation of Buildings and Equipment of Coast Provincial General Hospital in the Republic of Kenya (hereinafter referred to as "the Project"), and through discussions, field survey, and technical examination of the results in Japan, has prepared the draft report of the study.

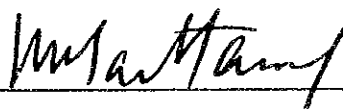
In order to explain and to consult the Kenyan side on the components of the draft report, JICA sent to Kenya a study team, which is headed by Mr. Yukio ABE , General Affairs Division, OSAKA International Centre, JICA and is scheduled to stay in the country from July 28 to August 6, 1997.

As a result of discussions, both parties have confirmed the main items described on the attached sheets.

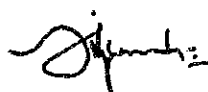
Nairobi, August 5, 1997



Mr. Yukio ABE  
Leader,  
Basic Design Study Team, JICA



Mr. M. Kaittany, Permanent Secretary,  
Ministry of Health



Mr. J. K. Kinyua  
Financial Secretary to Treasury

## ATTACHMENT

### 1. Components of the draft report

The Government of Kenya has in principal agreed and accepted the components of the draft report proposed by the Team.

### 2. Items requested by the Government of Kenya.

After discussions with the Team, the following items were finally requested by the Government of KENYA .

- 1) Procurement of Medical Equipment:  
Details of items are listed in Annex 1
- 2) Renovation of the Buildings and Facilities:  
Details of items are listed in Annex 2

However, the final items of the Project will be decided after further studies.

### 3. Concept of the Project

The result of the discussions between Kenyan side and Japanese side, the outline of the Project was concluded and the necessary activities of both sides for the Project are indicated in the attached sheets (Annex 5) in order to attain the goal of the Project. And at the same time, the maximum efforts by both sides to achieve the purpose of the Project are confirmed to carry out.

### 4. Japan's Grant Aid System

- 1) The Government of Kenya has understood the system of Japan's Grant Aid System as described in Annex 3.
- 2) The Government of Kenya will take necessary measures, as described in Annex 4 for smooth implementation of the Project, on condition that the Grant Aid by the Government of Japan is extended to the Project.

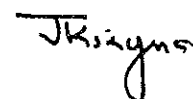
### 5. Presentation of the final report

JICA will make the final report in accordance with the confirmed items and send it to the Government of Kenya around December, 1997.



6. Other Relevant Issues

- 1) Kenyan side shall clear the site for new maternity building in the project to demolish the existing maternity kitchen, laundry and garage buildings, and to remove trees before the commencement of construction work. (The time will be specified by the consultant)
- 2) Kenyan side shall demolish existing main laundry during the construction of new kitchen laundry building. (The time will be specified by the consultant)
- 3) Kenyan side shall clean the walls and floors of the mortuary building before the commencement of the renovation work.
- 4) A leasing contract for liquid oxygen between CPGH and BOC Gas shall be concluded before the commencement of oxygen piping work. (The time will be specified by the consultant)



## PROCUREMENT OF MEDICAL EQUIPMENT

## 1. Administration

Code	Department	Item	Equipment	Qty
1.1	Account	1	Computer with printer	1
		2	Typewriter	1
1.2	Personnel	1	Photocopier	1
		2	Computer with printer	1
		3	Typewriter	1
		4	Electrical duplicating machine	1
1.3	Records	1	Computer with printer	1
		2	Photocopier	1
		3	Typewriter	1
1.4	Office	1	Computer with printer	1
		2	Typewriter	1
1.5	NHIF	1	Photocopier	1

## 2. Rehabilitation

Code	Department	Item	Equipment	Qty
2.0	Physiotherapy	1	Ultrasound unit	2
		2	Short wave diathermy	2
		3	Hydrocollator unit for cold & hot therapy	1
		4	Tens unit	1
		5	IRR unit	1
		6	Wax bath	1
		7	Electrical traction machine	1
		8	Pulley system	1
		9	Rowing machine with body guard	1
		10	Wall bar unit	1
		11	Suspension unit complete set	1
		12	Wrist roller	1
		13	Pedal apparatus	1
		14	Muscle stimulator	1
		15	Wheel chair	2
		16	Walking frame, adult & child	5
		17	Trippod walking stick	3
		18	Quadripod walking stick	3
2.1	Occupational Therapy	1	Hammock	3
		2	Sitting aid for child (adjustable seat/chair)	2
		3	Kneel standing aid for child	2
		4	Box and T(standing aid)	2

Code	Department	Item	Equipment	Q'ty
		5	Roller with cover(big & medium)	2
		6	Tricycle	3
		7	Push cart	3
		8	Walking aid for child	1
		9	Refrigerator	1
		10	Goniometer(small)	2
		11	Goniometer(large)	2
		12	Pottery wheel machine, manual	1
		13	Foot power loom	1
		14	Uplight rug loom	1
		15	Wire twisting machine	1
		16	Foot treadal drilling machine	1
		17	Wheel chair for adult	1
		18	Walking aid for adult	1
		19	Walking aid without caster, for adult and child	2

### 3. Wards

Code	Department	Item	Equipment	Q'ty
3.0	Ward: 1-9	1	Bed, general	260
		2	Trolley, general purpose	10
		3	Trolley, medicine lockable	10
		4	Diagnostic set	10
		5	Urinal	50
		6	Bed pan, stainless steel	50
		7	Sputum mug, stainless steel	90
		8	Vomitus bowl, stainless steel	20
		9	Basin, stainless steel	30
		10	Instrument table, stainless steel	30
		11	Spot light	10
		12	Wheel chair	20
		13	Stretcher	20
		14	Bed, orthopaedic	40
		15	Suction unit, electric	10
		16	Suction unit, foot	10
		17	Trolley, linen	12
		18	Trolley, food	12
3.1	Ward: 3 & 4 Surgery	1	Autoclave, table top	2
		2	Trolley, dressing	2
3.2	Ward: 7 Orthopaedic	1	Autoclave, table top	1
		2	Trolley, dressing	2
		3	Splint frame, Thomas	25
		4	Pulley	50

Code	Department	Item	Equipment	Qty
		5	Steinmans pin	20
		6	Stirrup	20
		7	Steinmans pin introducer T function type	2
		8	Plaster spreader, stainless steel	4
		9	Steinmans pin introducer T function type	2

3.3	Ward: 10 Paediatric	1	Weighing scale	3
		2	Pot with handle	15
		3	Cot	40
		4	Diagnostic set	2
		5	Sphygmomanometer	3
		6	Spot light	2

3.4	Ward: Maternity unit	1	Delivery bed	24
		2	Weighing scale for adult	2
		3	Examination couch	6
		4	Bedpan	10
		5	Trolley, general purpose	4
		6	Trolley, medicine	4
		7	Wheel chair	2
		8	Suction unit	4
		9	Laryngoscope, adult	2
		10	Laryngoscope, paediatric	3
		11	Suction unit, foot	2
		12	Infant warmer	1
		13	Cusco speculum	5
		14	Delivery tray	10
		15	Kocher's hemostatic forceps	8
		16	Ambu bag, adult	2
		17	Ambu bag, paediatric	2
		18	Instrument trolley	10
		19	Basin, stainless steel	10
		20	Vacuum extractor	2
		21	Sterilizing drum	5
		22	Autoclave, table top	1
		23	Diagnostic set	1
		24	Doppler fetus detector	3
		25	Bed	30

3.5	Ward: Nursery	1	Incubator	5
		2	Infant warmer	3
		3	Ambu bag, naeonatal	4
		4	Trolley, general purpose	2
		5	Phototherapy unit	2
		6	Suction unit	2

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Code	Department	Item	Equipment	Qty
3.6	Ward: Gynaecology	1	Gynaecology examination couch	2
		2	Autoclave, table top	1
		3	Kick bucket	2
		4	Spot light	2
		5	Trolley, dressing	2
		6	Flip bin	1
		7	Bucket, stainless steel	2

3.7	Casualty	1	Stretcher	6
		2	Trolley, general purpose	5
		3	Bucket, stainless steel	10
		4	Suction unit	2
		5	Flip bin	3
		6	X-ray film viewer	2
		7	Diagnostic instrument set	2
		8	I.V. hanger rod	5
		9	Spot light	1
		10	Trolley, dressing	2
		11	Wheel chair	5
		12	Work table	1
		13	Basin, stainless steel	5
		14	Electric plaster saw	1
		15	Kick bucket	3
		16	Autoclave, table top	1
		17	Cupboard	1

#### 4. Laboratory

Code	Department	Item	Equipment	Qty
4.0	Laboratry	1	Hematology analyzer(Blood cell counter)	2
		2	Binocular microscope	4
		3	Research microscope with photographic attachment	1
		4	Blood gas analyzer	1
		5	Electrolyte analyzer	1
		6	Spectrophotometer	2
		7	pH meter	1
		8	Hemoglobin meter	2
		9	Glucose analyzer	2
		10	Food blender(glass bottles)	1
		11	Refrigerator	4
		12	Blood bank refrigerator	1
		13	Centrifuge, table top	2
		14	Autoclave, table top	1
		15	Analytical balance	2
		16	Hot air oven(large)	1

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Code	Department	Item	Equipment	Qty
		17	Incubator	1
		18	HIV machine(Incubator/Washer/Reader)	1
		19	Microplate shaker	1
		20	Colony counter	1
		21	Automatic tissue processor	1
		22	Water bath for tissue floating	1
		23	Rotary microtome	1
		24	Water bath	1
		25	Wax embedding station	1
		26	Automatic knife sharpner	1
		27	Histology/cytology automatic staining machine	1
		28	HB/Protein electrophoresis apparatus	1

4.1	Mortuary	1	Autopsy light	3
		2	Autopsy table	3
		3	Body trolley (Ordinary)	5
		4	Complete post mortem set	3
		5	Cranial saw	2
		6	Embalming machine	1
		7	Weighing scale for organs	2

#### 5. Pharmacy

Code	Department	Item	Equipment	Qty
5.0	Pharmacy	1	Electronic balance	2
		2	Heavy duty weighing machine	1
		3	Mixer	1
		4	Filter press(heavy duty)	1
		5	Filling machine(low speed)	1
		6	Filling machine(small volume)	1
		7	Capping machine	1
		8	Autoclave, table top	1
		9	Water distiller	2
		10	Refrigerator	1
		11	Mixer/blender	2
		12	Homogenizer	1
		13	Filling machine for ointment and cream	1
		14	Suction pump	2

#### 6. Operating theatre

Code	Department	Item	Equipment	Qty
6.0	Major operating theatre	1	Anaesthetic machine with ventilator	6
		2	Anaesthetic trolley with two drawer	6
		3	Autoclave, table top	6

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Code	Department	Item	Equipment	Q'ty
		4	Cholecystectomy set	2
		5	Craniotomy set	1
		6	Endoscopic urological set	1
		7	Defibrillator	2
		8	Electrosurgical unit	6
		9	Horseshoe shaped head rest	2
		10	I.V. hanger rod	10
		11	Instrument cabinet	6
		12	Kick bucket	12
		13	Laparotomy set	2
		14	Laparoscope set	1
		15	Mastectomy set	1
		16	Mayo instrument table	7
		17	Nephrectomy set	1
		18	Operating instrument set(adult)	5
		19	Operating instrument set(pediatric)	2
		20	Operating light	6
		21	Operating table	6
		22	Patient monitor	6
		23	Prostatectomy set	1
		24	Pulse oximeter	6
		25	Spot light	2
		26	Stretcher	10
		27	Suction unit	6
		28	Suction unit, foot	2
		29	Surgeon's foot steps	4
		30	Surgeon's stool	9
		31	Thyroidectomy set	2
		32	Trolley, dressing	7
		33	Trolley, gown	5
		34	Trolley, suture	7
		35	Vascular & stripping of varicose vein	1
		36	Wash basin stand, single	10
		37	General thoracic set	1
		39	Scrub unit, for two persons	2

6.1	Major operating theatre (Dental & ENT)	1	Dental fracture set	1
		2	Mandible set	1
		3	Postnasal space set	1
		4	Tonsillectomy set	1
		5	Tracheotomy set	1

6.2	Major operating theatre (Orthopaedic)	1	Amputation set	2
		2	AO orthopedic set	1
		3	Bone plating & screw tray	2

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Code	Department	Item	Equipment	Q'ty
		4	Bone wiring set	1
		5	Pneumatic drill & drill bit	1
		6	External fixation set	2
		7	General bone instrument set	2
		8	Kuntsher nail set	2
		9	Orthopedic operating table	1
		10	Plaster saw(small & big)	2
		11	Plaster shear	2
		12	Trolley, plaster	1
		13	Pneumatic tourniquet	2
		14	Skull traction set	2
		15	Steinmans pin set	2
		16	Tendon set	1
		17	Vesico vaginal fistula set	2

6.3	Obstetric Surgery	1	Maternity theatre caesarean set	3
		2	Hysterectomy set	2
		3	Evacuation set	1
		4	Decapitation set	1
		5	Dilation & Curettage set	1
		6	Abdominal hysterectomy set	1
		7	Wertheimes hysterectomy set	1
		8	Vaginal hysterectomy set	1

6.4	Minor operation theatre	1	Anaesthetic machine	2
		2	Anaesthetic trolley with two drawer	2
		3	Autoclave, table top	2
		4	Defibrillator	1
		5	Electrocardiograph, 1-ch	1
		6	Electrosurgical unit	1
		7	I.V. hanger rod	4
		8	Instrument cabinet	2
		9	Operating instrument set(adult)	1
		10	Operating instrument set(pediatric)	1
		11	Kick bucket	4
		12	Mayo instrument table	2
		13	Operating light	2
		14	Operating table	2
		15	Pediatric instrument set	1
		16	Patient monitor	2
		17	Pulse oximeter	2
		18	Resuscitator	2
		19	Spot light	2
		20	Stethoscope	2
		21	Stretcher	2

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Code	Department	Item	Equipment	Qty
		22	Suction unit	2
		23	Suction unit, foot	2
		24	Surgeon's foot step	2
		25	Surgeon's stool	4
		26	Trolley, dressing	2
		27	Trolley, gown	2
		28	Trolley, instrument	2
		29	Wash basin stand, double	2
		30	Wash basin stand, single	2
		31	X-ray film viewer	2

6.5	ICU	1	All purpose trolley	4
		2	Autoclave, table top	1
		3	Bed	4
		4	I.V. hanger rod	12
		5	Electrocardiograph	1
		6	Incubator(Infant warmer)	1
		7	Infusion pump	6
		8	Trolley, instrument	1
		9	Refrigerator	3
		10	Patient monitor	6
		11	Spot light	6
		12	Portable X-ray machine	1
		13	Resuscitation trolley with defibrillator	1
		14	Suction unit	6
		15	Ventilator	4

6.6	CSSD	1	Autoclave, large	2
		2	Collecting delivery trolley	4
		3	Container delivery trolley	4
		4	CSSD service trolley	4
		5	Drier	2
		6	Glove washing and drying machine	1
		7	Basic dressing pack set	40
		8	Lumbar puncture tray	4
		9	Catheterization tray	6
		10	Stitching tray	20
		11	Bone marrow tray	2
		12	Abdominal tapping tray	1
		13	Bladder irrigation tray	2
		14	Tracheotomy tray	1
		15	Blood exchange tray	1
		16	Cut down tray	4
		17	Stomach washout tray	2
		18	Rectal washout tray	2

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Code	Department	Item	Equipment	Qty
		19	Vaginal examination tray	15
		20	Incision and drainage tray	15
		21	Liver biopsy set	1
		22	Chest aspiration set	2
		23	Emergency delivery set	2
		24	Episiotomy set	30
		25	Intercostal drainage set	10
		26	Intubation set	10
		27	Dilatation and curetage set	5

7. Out-Patient department

Code	Department	Item	Equipment	Qty
7.0	Dental	1	Complete dental chair system	4
		2	Dental autoclave(large, small)	2
		3	Portable dental suction machine	2
		4	Dental compressor machine-air-cooled	4
		5	Dental suction machine for dental chair unit	4
		6	Dental instrument cabinet(movable)	5
		7	Camera with zoom lens-scientific	1
		8	Ultrasonic scaler	1
		9	Micromotor unit, portable	1
		10	Straight handpiece, for micromotor unit	2
		11	Portable dental X-ray machine	1
		12	X-ray protection apron	1
		13	Conservative instrument-assorted	10
		14	Surgical instrument-assorted	2
		15	Dental mirror	50
		16	Instrument cabinet-lockable	2
		17	Porcelain furnace	1
		18	Micromotor	4
		19	Handpiece for micromotor	1
		20	Hot air curing bath	1
		21	High frequency casting machine	1
		22	Resin curing machine	1
		23	Model trimer	1
		24	Vacuum mixing machine	1

7.1	ENT	1	Complete consultant ENT examination table	2
		2	Antral wash-out set(trocher,cannula,higginson syringe)	2
		3	Head mirror	5
		4	Nasal cavity set	3
		5	Alligator-forceps	5
		6	Nasal speculum	5
		7	Jobson home probe	5

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Code	Department	Item	Equipment	Q'ty
		8	Wax hook/curette	5
		9	Aural syringe	3
		10	Audiometer(pure+speech)	1
		11	Tympanometer	1
		12	Operating microscope	1
		13	Bronchoscope-complete with fiber lighting(infant,child,adult)	1
		14	Laryngoscope- complete with lighting(Pediatric,adult)	1
		15	Esophagoscope- complete with lighting(Pediatric,adult)	1
		16	Electric drill and set of bur	1
		17	Sinus endoscope(complete with lighting)	1
		18	Head light with light source	2
		19	Tympanoplasty set	2

7.2	Eye	1	Monocular(indirect ophthalmoscope)	1
		2	Goldman perimeter for visualised assessment	1
		3	Slit lamp	1
		4	Streak retinoscope with bar	1
		5	Trial lense set	1
		6	Trial frame	1
		7	Operating light	1
		8	Cataract operating set(surgical instrument)	1
		9	Eye lid and conjunctiva set(surgical instrument)	1
		10	Basic and emergency set	1
		11	Bipolar diathermy	1
		12	Autoclave	1
		13	Wall chart	1
		14	Binocular loupe	1

7.3	Paediatric unit	2	Diagnostic set	3
		3	Paediatric stethoscope	5
		4	Suction unit	2
		5	Autoclave, table top	1
		6	Weighing scale for baby	1
		7	Pot with handle	20
		8	Trolley, treatment	3
		9	Oxygen flowmeter with humidfier	2
		10	Jacson lees resuscitator	1
		11	Weighing scale for paediatric	1

#### 8. X-ray Department

Code	Department	Item	Equipment	Q'ty
8.0	X-ray	1	General X-ray unit	1
		2	Ultrasound unit(General)	1
		3	Ultrasound unit(Obstetric)	1

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Code	Department	Item	Equipment	Q'ty
		4	Mobile X-ray unit	1
		5	Automatic processor	1
		6	Manual processor	1
		7	Dental film processor	1
		8	Cassette and screen, 35 x 43 cm	5
		9	Cassette and screen, 35 x 35 cm	5
		10	Cassette and screen, 30 x 15 cm	5
		11	Cassette and screen, 24 x 30 cm	15
		12	Cassette and screen, 24 x 18 cm	5
		13	Grided cassette with screen	3
		14	Curved cassette with screen	2
		15	Stationary grids-sizes, 35 x 43 cm	5
		16	Stationary grids-sizes, 24 x 30 cm	3
		17	Automatic side marker	5
		18	Actinic light	1
		19	Pelvimetry ruler	2
		20	Vertical bucky stand	2
		21	Lead/rubber glove	3
		22	Lead/rubber apron	3
		23	Rare earths screen	3
		24	Film hopper	2
		25	Enema can and set	2
		26	Pneumocolon and accessory tubing	2
		27	Victoria ring(enema)	2

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**RENOVATION OF THE BUILDINGS AND FACILITIES**

- |                  |   |
|------------------|---|
| First Priority   | Construction of the Building for Maternity  |
| Second Priority  | Renovation of the Mortuary  |
| Third Priority   | Renovation of the lavatories and shower rooms of Ward 1 to 9  |
| Fourth Priority  | Construction of the Laundry and the Kitchen   |
| Fifth Priority   | Renovation of the Air Ventilation / Air Conditioning of the Operation Theater, ICU, Central Sterilizing Supply Department (CSSD) / Theatre Sterilizing Supply Unit (TSSU), and X-ray Department |
| Sixth Priority   | Renovation of the Laboratories  |
| Seventh Priority | Installation of the piping for the Oxygen   |

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## JAPAN'S GRANT AID SYSTEM

### 1. Japan's Grant Aid Procedures

- (1) The Japan's Grant Aid Program is executed by the following procedures.

**Application** (Request made by a recipient country)

**Study** (Preliminary Study / Basic Design Study conducted by JICA)

**Appraisal & Approval** (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)

**Determination of Implementation** (Exchange of Notes between the both Governments)

**Implementation** (Implementation of the Project)

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

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

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

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

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

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## 2. Contents of the Study

### (1) Contents of the Study

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

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

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

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

### (2) Selecting (a) Consulting Firm(s)

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

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

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

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

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

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

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

### 3. Japan's Grant Aid Scheme

(1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non reimbursable funds needed to procure facilities, equipment and services for economic and social development of the country under the following principles in accordance with relevant laws and regulations of Japan. The Grant Aid is not in a form of donation or such.

(2) Exchange of Notes (E/N)

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

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

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

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

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

(5) Necessity of the "Verification"

The Government of the recipient country or its designated authority will conclude into contracts in Japanese yen with Japanese nationals. Those



contracts shall be verified by the Government of Japan. The "Verification" is deemed necessary to secure accountability to Japanese tax payers.

(6) Undertakings required to the Government of the recipient country  
In the implementation of the Grant Aid, the recipient country is required to undertake necessary measures such as the following:

- a) to secure land necessary for the sites of the project and to clear and level the land prior to commencement of the construction work,
- b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,
- c) to secure buildings prior to the installation work in case the Project is providing equipment,
- d) to ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,
- e) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,
- f) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) Proper Use

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

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(8) Re-export

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

(9) Banking Arrangement (B/A)

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

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

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**NECESSARY MEASURES TO BE TAKEN  
BY THE REPUBLIC OF KENYA**

1. to provide data and information necessary for the Project,
2. to secure the site for the Project,
3. to clear, level and reclaim the site prior to commencement of the Project,
4. to undertake incidental outdoor works such as gardening, fencing, gates and exterior lightning in and around the site,
5. to provide facilities for distribution of electricity, water supply, telephone, drainage, sewerage and other incidental facilities to the site,
  - (1) electricity distributing line to the site
  - (2) city water distribution main to the site
  - (3) drainage city main to the site
  - (4) telephone trunk line and the main distribution panel of building
  - (5) general furniture such as carpets, curtains, tables, chairs and others
6. to bear commissions to the Japanese foreign exchange bank for its banking service based upon the Banking Arrangement (B/A), namely the advertising commission of the Authorization to Pay (A/P) and payment commission,
7. to ensure prompt unloading, tax exemption, customs clearance at the port of disembarkation in Republic of Kenya and prompt internal transportation therein of the materials and equipment for the Project purchased under the Grant Aid,
8. to exempt Japanese juridical and physical nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Kenya with respect to the supply of the products and services under the verified contracts,
9. 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 Kenya and stay therein for the performance of their work,
10. to provide necessary permissions, licenses and other authorizations for implementing the Project, if necessary,
11. to assign appropriate budget and teaching and administrative staff members for proper and effective operation and maintenance of equipment procured under the Grant Aid,

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12. to maintain and use properly and effectively the facilities constructed and the equipment procured under the Project, and
13. to bear all the expenses, other than those to be borne by the Japan's Grant Aid within the scope of the Project

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**The Project for Rehabilitation of Buildings and Equipment  
of  
Coast Provincial General Hospital in the Republic of Kenya**

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p><b>Overall Goal:</b> People within the catchment area of the Coast Provincial General Hospital (CPGH) receive proper health care services up to secondary level at the CPGH at anytime.</p>	<p>Sustainability of the hospital increases. Good reputation of the hospital is attained.</p>	<p>Financial record</p>	<p>Operation of the CPGH becomes sustainable. The CPGH becomes autonomous institution.</p>
<p><b>Project Purpose:</b> It becomes possible that the people in the catchment area of the CPGH receive secondary medical care at the CPGH.</p>	<p>Number of ICU patient increases. Number of clear diagnosis record increases. Cases of equipment failure lessens. Treatment of complex cases increases. Number of referred out cases decreases. Average days of stay decrease.</p>	<p>Medical record Number of diagnosis record Maintenance record</p>	<p>Primary health care at dispensaries, health centres and district hospitals is provided. Medical services fees are collected according to CPGH charges.</p>
<p><b>Outputs:</b></p> <p>1. (1) Necessary medical equipment to achieve the project purpose is provided. (2) Conditions of toilets and shower rooms are improved. (3) 1) Adequate work space and laundry equipment for laundry activities are provided. 2) Activity flow is regulated so as not to mix dirty and clean laundry. (4) Air ventilation/air conditioning is improved at Operation Theatre, ICU, CSSD/TSSU and X-ray Dept. (5) 1) Adequate work space and environment, food storage and kitchen equipment are provided. 2) Activity flows of staff and food are improved. (6) 1) Work environment is improved. 2) Security of laboratories is improved. (7) Necessary amount of oxygen is provided economically. (8) 1) Storage capacity is increased. 2) Ventilation is improved. (9) Function of the Maternity department is improved.</p> <p>2. (1) Maintenance and Management System (MMS) of the facility and medical equipment is established by CPGH and MOH (manpower and budget are secured). (2) People in the catchment area acknowledge the CPGH as a secondary medical care facility. (3) The vision (long term and short term) in order to achieve the project purpose is shared and realized by every staff of the CPGH. (4) The steering committee and problem solving group (PSG) are established and actively playing the roles to enhance the capabilities of each department and the CPGH.</p>	<p>1. (1) Number and variety of X-ray taken increase. (1) Number, variety, reliability and accuracy of Lab. tests increase. (1),(4) Number, variety and safety of operation increase. (2) Living conditions of the wards are improved. (3) Capacity of laundry increases. (2),(3),(5) Condition of hygiene is improved. (5) Number of portions of meals served increases. (7) Health care cost decreases. (8) Number of neighbors' and public complaints about odor of mortuary is reduced. (9) Duration of postnatal stay increases. (9) Number of mortality rate decreases on both mother and child.</p> <p>2. (1) Adequate number of staff and budget for MMS are provided. (1) Procurement system for timely purchase of consumables and parts is established. (1) Technical training of the maintenance staff regularly takes place. (2) More people are treated and saved at the ICU, neonatal/premature baby ward. (2) Secondary level operations are carried out. (3) The hospital staff become more motivated to improve services. (4) Problems are solved on the spot. (3),(4) Productivity is increased.</p>	<p>1. (1),(4),(9) Medical record (1) Number of lab. test record (1),(2),(3),(5),(7). (8)-(1),(9) Accounting record (6) Number of complaints</p> <p>2. (1) Organization chart (1) Accounting record (1) Maintenance record (2) Medical record (2)(3) News paper/reputation (3) Annual questionnaire (to be taken place) regarding visions and opinions to improve the CPGH (4) Activity report</p>	<p>The equipment and buildings and facilities included in this project are correctly used and fully utilized. Budget for operation, management and maintenance of the CPGH is secured. Necessary manpower for operation, management and maintenance is secured. Maintenance department/section is enhanced to look after buildings and facilities. Continuous training of staff takes place to ensure the standard for secondary medical care.</p> <p>The health policy of Kenya will not be changed.</p>

<p>Activities:</p> <p>1. Japan side</p> <p>(1) Medical Equipment: Install medical equipment necessary for providing secondary medical care.</p> <p>(2) Ward 1-9: Improve conditions of toilets and shower rooms.</p> <p>(3) Laundry: 1) Provide adequate work space and laundry equipment for laundry activities. 2) Separate activity flows of dirty and clean laundry.</p> <p>(4) Operation Theatre, ICU, CSSD/TSSU and X-ray Dept.: Install ventilation fans/air conditioning.</p> <p>(5) Kitchen: 1) Provide adequate work space and environment for food storage and kitchen equipment. 2) Improve activity flows of staff and food.</p> <p>(6) Laboratories: 1) Install ventilation fans and replace counter tops. 2) Install security grills on windows.</p> <p>7) Install an oxygen plant.</p> <p>(8) Mortuary: 1) Add more refrigerators for storing bodies. 2) Construct ventilation duct and install ventilation fan.</p> <p>(9) Maternity Dept.: Renovate the maternity dept.</p> <p>2. Kenya side</p> <p>(1) Plan a MMS for the CPGH</p> <p>1) Consider financial possibility of contracting out the maintenance of medical equipment of CPGH.</p> <p>2) Secure budget for necessary consumables and spare parts and make a procurement plan in advance.</p> <p>3) MMS for the CPGH is discussed in detail (manpower, budget, etc.) among MOH, CPGH, Mombassa Polytechnic and KNH.</p> <p>4) The maintenance department makes a maintenance plan for building facility as well as medical equipment.</p> <p>(2) Strengthen secondary health care service.</p> <p>(3) The Chief Administrator and core members of the CPGH make visions (long term and short term) for achieving the project purpose and an action plan to realize the vision.</p> <p>(4) The CPGH forms a steering committee and PSG in each department to identify problems/obstacles, discuss how to solve the problems and act on it.</p>	<p>Inputs:</p> <p>Japan:</p> <p>Renovation of buildings and facilities</p> <p>Provision of medical equipment</p> <p>Kenya:</p> <p>Tax exemption and customs clearance of the products at the port of disembarkation</p> <p>All the expenses, other than those to be borne by the Grant, necessary for the project</p> <p>Manpower (doctors, nurses, paramedical staff, administrative staff, maintenance technicians/engineers, etc.)</p>	<p>Procurement of equipment and renovation of the buildings and facilities are carried out timely.</p> <p>The core staff will not be transferred to other institutes/department frequently. In case the present staff is relocated, all the necessary information regarding the visions shall be transferred to the new staff.</p> <p>Pre-conditions:</p> <p>Management and maintenance of buildings and facilities and equipment are possible.</p> <p>Hospital staff is motivated to improve the present conditions.</p>
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### Detailed Action Plan for CPGH

In order to attain the output written in the Narrative Summary in work out sheet. Kenya side shall be carrying out the following action plan:

1. Chief Administrator makes a visit to each department of the hospital monthly to know the problems.
2. Medical statistical records shall be taken daily and reported to the section manager.
3. Attendance records of the employees shall be made daily.
4. A morning meeting shall be held before starting daily activities.
5. The numbers of inventory shall be counted and recorded monthly and measure taken to ensure security of the equipment.
6. The staff shall be confirmed their responsibility regularly.
7. Cleaning of the facilities and putting the equipment in order daily.
8. Tools for equipment maintenance shall be provided.
9. Training of the maintenance personnel shall be planned monthly.
10. Maintenance contract with equipment agent shall be done.
11. A report of a failure equipment shall be made to HMU when it occurred.
12. All equipment shall be stored in proper place and checked it daily.
13. Purchase plan of consumable and equipment parts shall be made monthly.
14. Follow the maintenance manual for the facility prepared by the contractor and medical equipment prepared by the supplier (sample of check-sheet shall be attached).

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MAINTENANCE ACTIVITIES AND FREQUENCY

Activity	Activities																					
	Dust/Clean		Inspect		Check		Examine		Lubricate		Adjust		Tighten screws		Other							
	D	W	1	3	6	1	2	3	1	3	6	1	2	3	1	3	6	1	2	3	5	Year/s
Recommended Frequency	D	W	1	3	6	1	2	3	1	3	6	1	2	3	1	3	6	1	2	3	5	Year/s
Item	D	W	1	3	6	1	2	3	1	3	6	1	2	3	1	3	6	1	2	3	5	Year/s
I																						
Terrazzo																						
Mosaic tile																						
Concrete/Mortar																						
Acrylic Textured Paint on cement																						
Emulsion Paint on cement mortar																						
Cement Paint on cement mortar																						
Ceramic tile																						
Wooden partition																						
Steel partition																						
Aluminum partition																						
Aluminum window (pivoted, awning, jalousie)																						
Aluminum window (sliding, single/double hung)																						
Steel window																						
Door frame																						
Door leaf																						
Door hinges																						
Locks																						
Door closer																						
Roof drain																						
Commode, Wash basin																						

*Uksign*



# Maintenance Sheet for the Equipment - 1

Name of Equipment	Date	Cleaning		Operation	Manual Service (Maintenance)		Circuit Diagram	Record of Repair (Contents)	Name of Operators
		Daily	Routine						
ex.) <b>Ultrasound Scanner</b> Name of Manufacturer: Model Number: 1) Year of Installation: [ 1991 ] 2) Service Contract with Agent: [ None ] 3) Serial Number: [ ]		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		X	Change of Probe	AAA

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*JK. Rayner*

## Maintenance Sheet for the Equipment -2

Name of Equipment	Requested date by user	Date of order	Date of receive	Contents (Spare Parts, Consumables, Reagents)	Q'ty	Name of Operators
ex.) Ultrasound Scanner				Printing paper, 5 pcs./box	2 boxes	AAA
Manufacturer:				Gel, 150g	2 tubes	
Model Number:						
1) Year of Installation:						
[ 1991 ]						
2) Service Contract:						
[ None ]						
3) Serial Number:						
[ ]						

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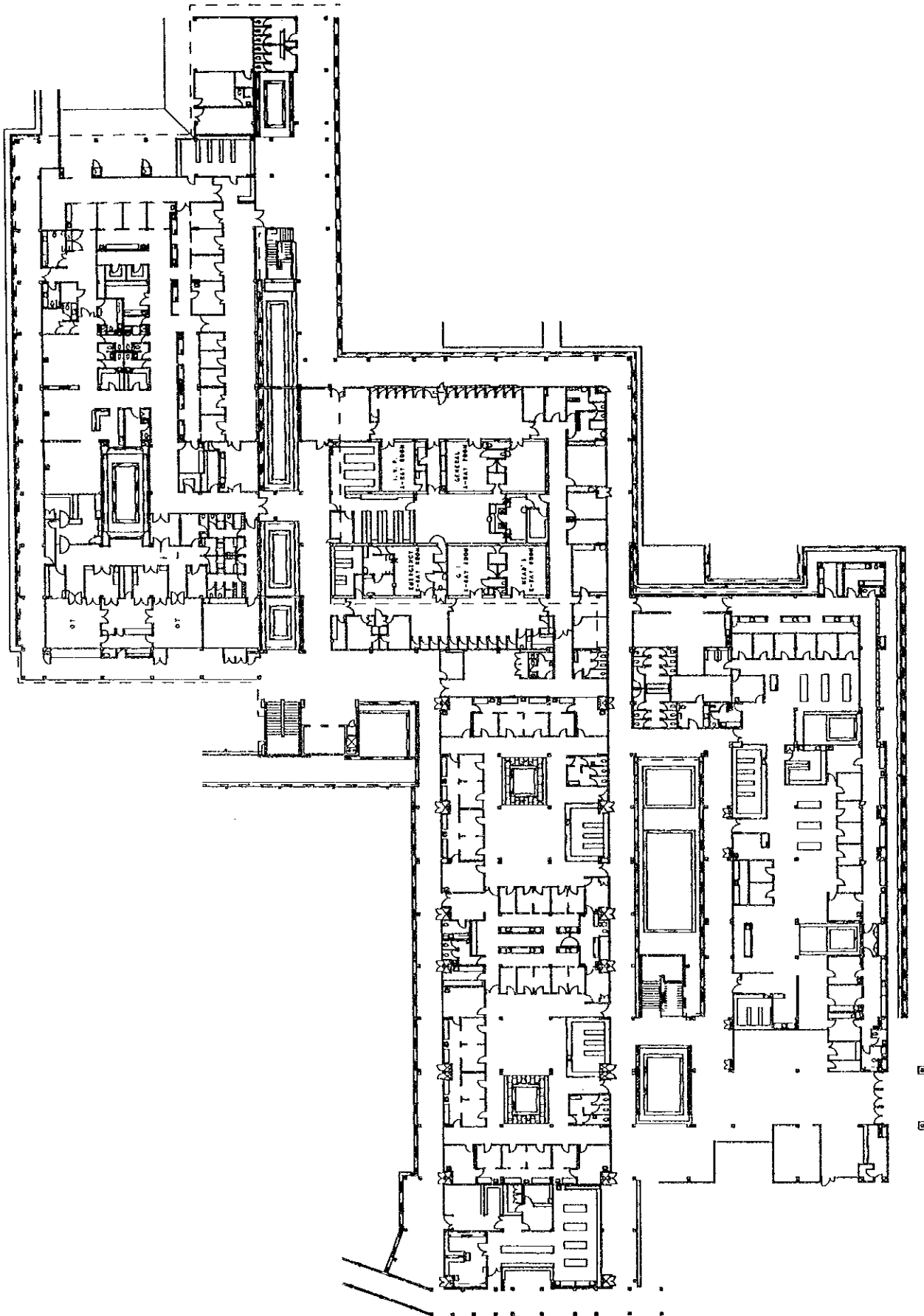
5. ESTIMATED COST TO BE BORNE BY KENYA

The works to be carried out by the Government of Kenya and their costs are as listed below.

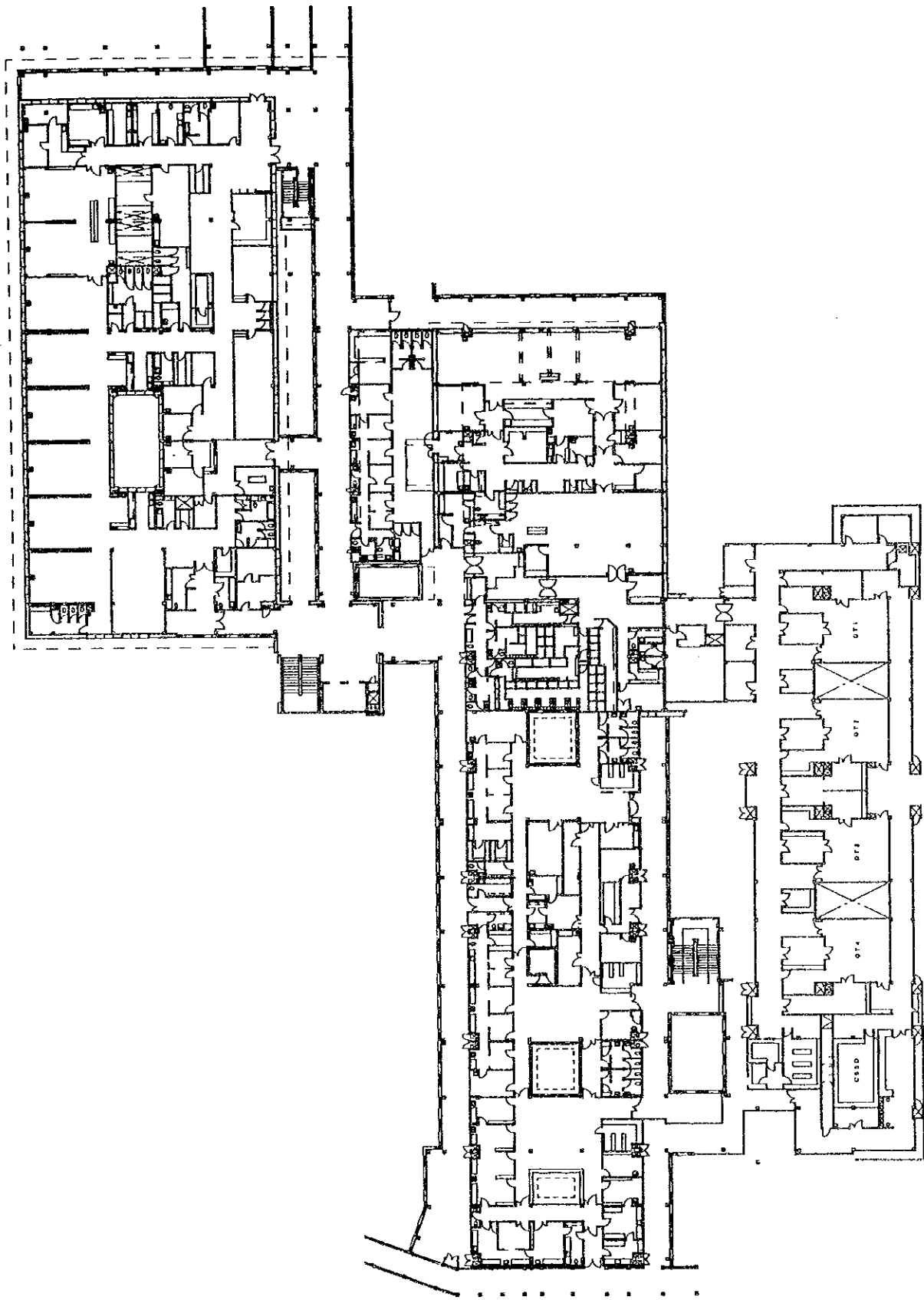
1. Demolition of Old Kitchen Building at Maternity(100m <sup>2</sup> ) .....	450,000 Kshs
2. Demolition of Old Laundry Building at Maternity(80m <sup>2</sup> ).....	360,000 Kshs
3. Demolition of Old Garage Building at Maternity(50m <sup>2</sup> ).....	225,000 Kshs
4. Site preparation for Maternity Building.....	30,000 Kshs
5. Cleaning of Interior Wall, Floor and Ceiling at Mortuary Building.....	400,000 Kshs
6. Furniture, fittings.....	500,000 Kshs
7. Curtains.....	350,000 Kshs
<hr/>	
Total	2,3150,000 Kshs

When it is expected that the Kenya project implementing organization will have to pay customs duties and the consumption tax to be imposed in relation to the works whose costs are to be borne by the Government of Japan, the budgetary appropriations for it are to be made in addition to the above-mentioned total.

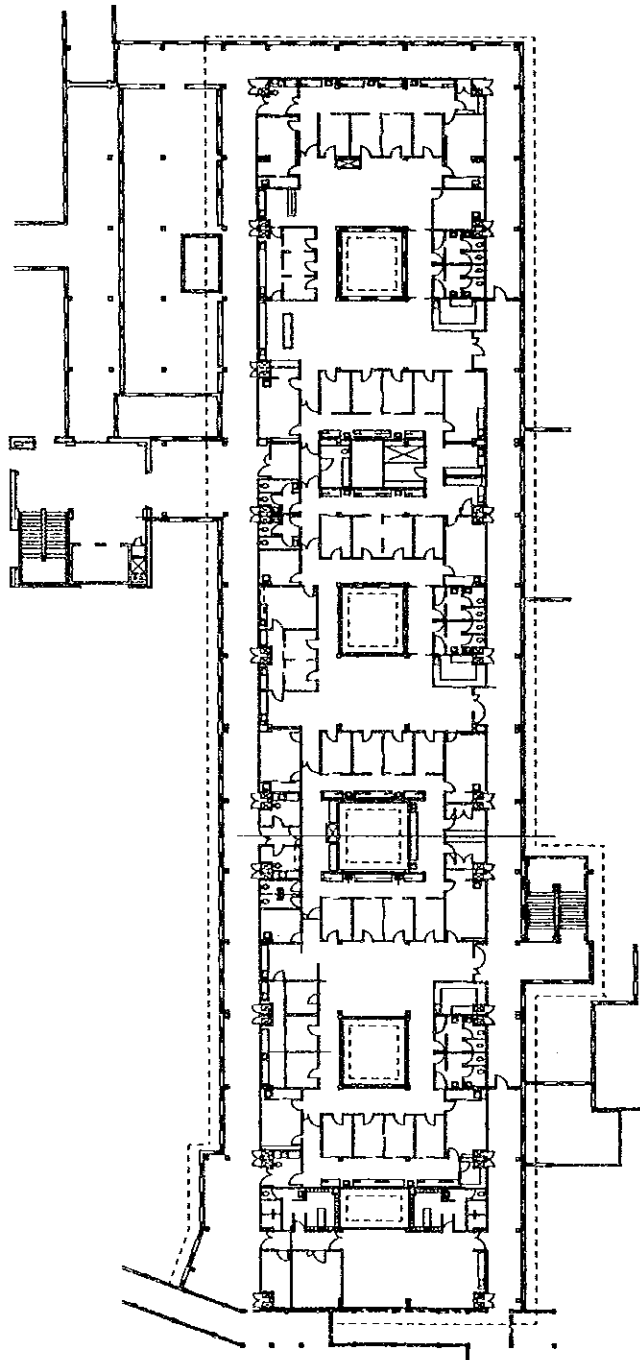
6. Other Relevant Data



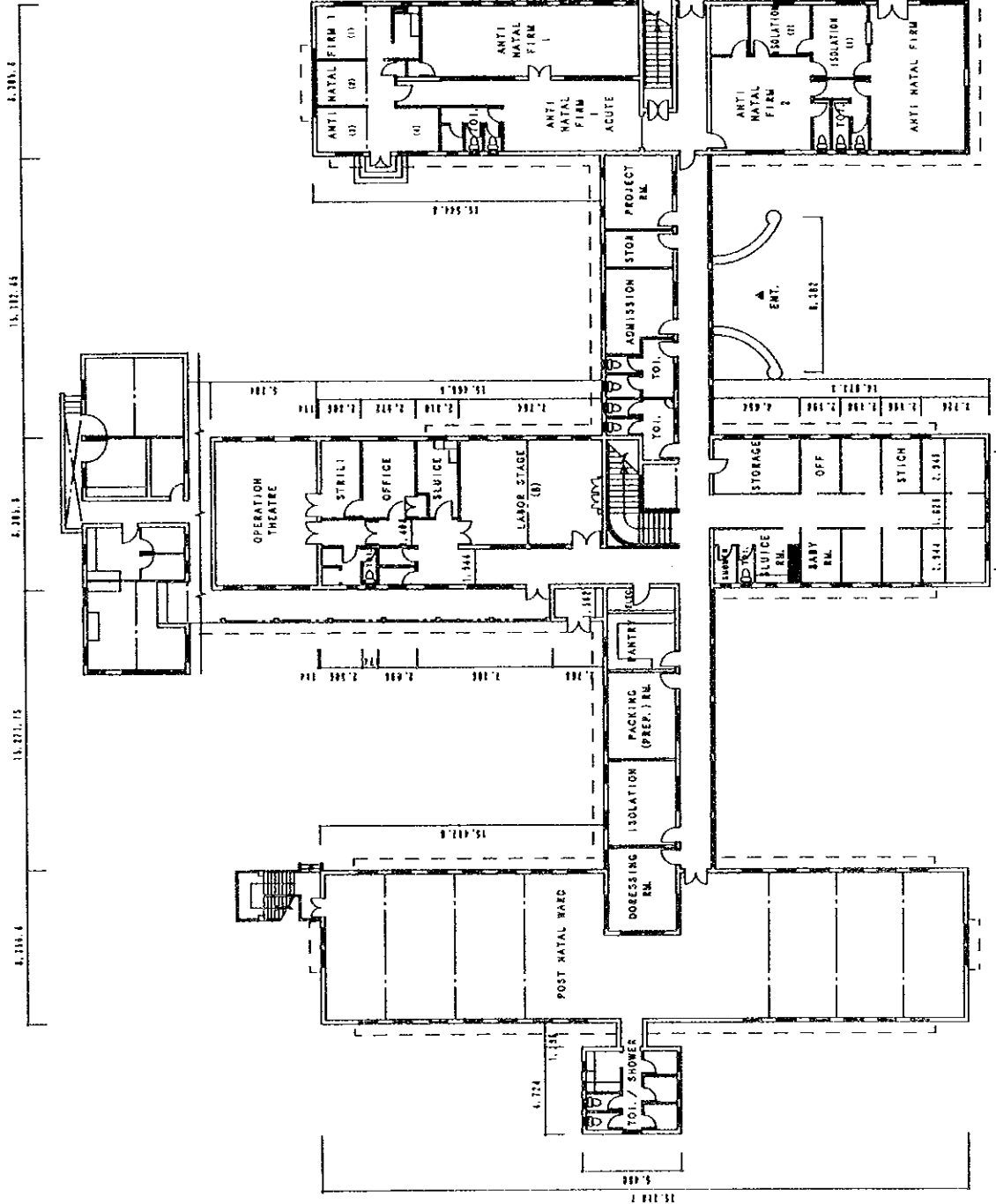
THE PROJECT FOR REHABILITATION OF COAST PROVINCIAL GENERAL HOSPITAL. EXISTING MAIN BLDGS. GF PLAN



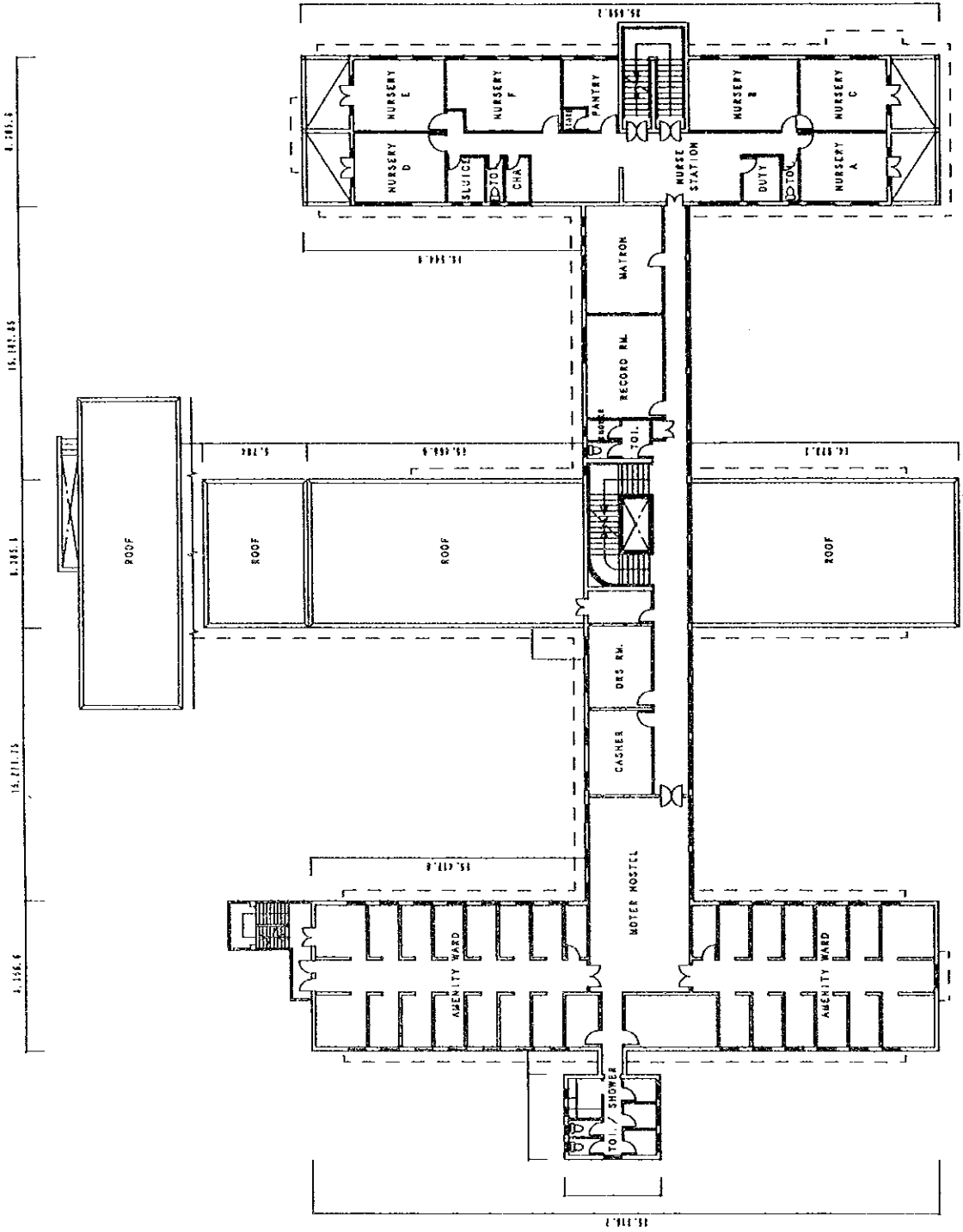
THE PROJECT FOR REHABILITATION OF COAST PROVINCIAL GENERAL HOSPITAL EXISTING MAIN BLDGS. 1F PLAN



THE PROJECT FOR REHABILITATION OF COAST PROVINCIAL GENERAL HOSPITAL EXISTING MAIN BLDGS. 2F PLAN



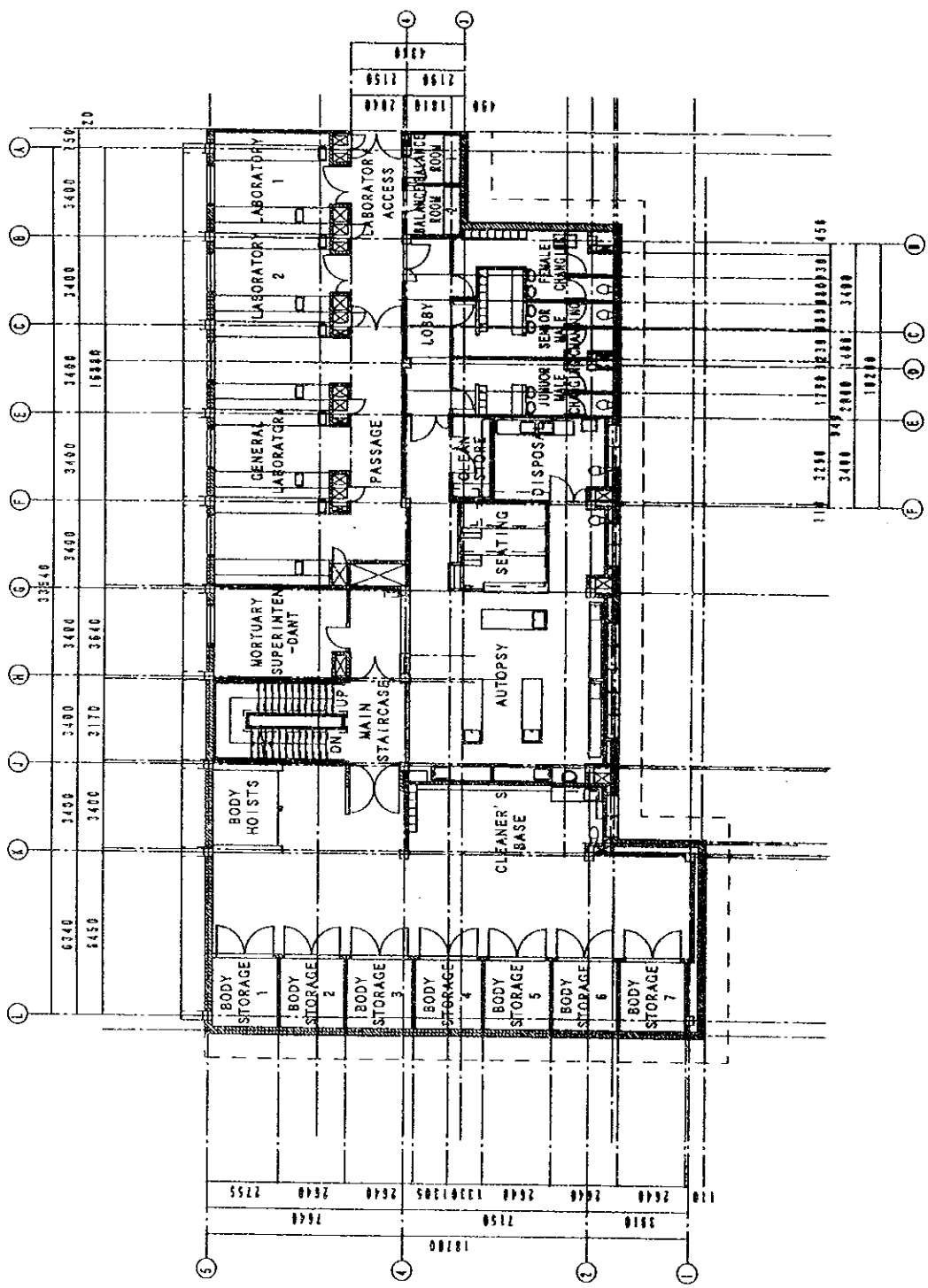
THE PROJECT FOR REHABILITATION OF COAST PROVINCIAL GENERAL HOSPITAL EXISTING MATERNITY BLDG. 1F PLAN



THE PROJECT FOR REHABILITATION OF COAST PROVINCIAL GENERAL HOSPITAL EXISTING MATERNITY BLDG. 2F PLAN







THE PROJECT FOR REHABILITATION OF COAST PROVINCIAL GENERAL HOSPITAL EXISTING MORTUARY BLDG. 2F PLAN







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