

**MINUTES OF DISCUSSIONS  
ON PREPARATORY SURVEY  
ON THE PROJECT FOR UPGRADING OF LUSAKA HEALTH CENTERS TO DISTRICT  
HOSPITALS PHASE 2**

In response to a request from the Government of the Republic of Zambia (hereinafter referred to as "Zambia"), the Government of Japan decided to conduct a Preparatory Survey on the Project for Upgrading of Lusaka Health Centers to District Hospitals Phase 2 (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent the Preparatory Survey Team for the Outline Design (hereinafter referred to as "the Team") to Zambia, headed by Dr. Hiroshi Takenaka, Senior Advisor in Health, Human Development Department JICA, and is scheduled to stay in the country from 16<sup>th</sup> February to 11<sup>th</sup> March, 2016.

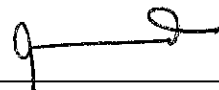
The Team held a series of discussions with the officials concerned from the Government of Zambia and conducted a field survey in the Project area. In the course of the discussions, both sides have confirmed the main items described in the attached sheets. The Team will proceed to conduct further works and prepare the Preparatory Survey Report.

Lusaka, 3<sup>rd</sup> March, 2016



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Dr. Hiroshi Takenaka  
Leader  
Preparatory Survey Team  
Japan International Cooperation Agency



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Mr. Davis Makasa Chimfwembe  
Acting Permanent Secretary  
Ministry of Health  
The Republic of Zambia

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to decongest higher level hospitals in Lusaka district to enable them focus on tertiary / 3<sup>rd</sup> level /national services through upgrading of three (3) Urban Health Centers in Lusaka District to first level district hospitals, thereby contributing to improvement on health service delivery in Lusaka district.

### 2. Title of the Preparatory Survey

Both sides confirmed the title of the Preparatory Survey as "the Preparatory Survey for the Project for Upgrading Lusaka Health Centres to District Hospitals Phase 2".

### 3. Project Sites

Both sides confirmed that the sites of the Project are in Lusaka District, Kanyama, Chipata and Chawama Health Centres, which is shown in Annex-1.

### 4. Executing Agency

The executing agency is Ministry of Health. The executing agency shall coordinate with all the relevant agencies to ensure smooth implementation of the Project and ensure that the Undertakings are taken by relevant agencies properly and on time. The organization charts are shown in Annex-2-2.

### 5. Items requested by the Government of Zambia

5-1. As a result of discussions, both sides confirmed that the items requested by the Government of Zambia are as shown in Annex-4 (facilities) and Annex-5 (equipment).

5-2. JICA will assess the appropriateness of the above requested items through the survey with following criteria and will report findings to the Government of Japan. The final components of the Project would be decided by the Government of Japan.

- Economic and Financial Viability
- Technical Feasibility
- Manageable and Administrative Competence of Organization Concerned
- Financial Allocation by Japanese side
- No duplication of similar support by Development Partners

### 6. Japan's Grant Aid Scheme

6-1. The Zambian side understands the Japanese Grant Scheme and its procedures as described in Annex-6, Annex-7 and Annex-8 and necessary measures to be taken by the Government of Zambia.

6-2. The Zambian side understands to take the necessary measures, as described in Annex-9, for smooth implementation of the Project, as a condition for the Japanese Grant to be implemented. The detailed contents of the Annex-9 will be worked out during the survey and shall be agreed no later than by the Explanation of the Draft Preparatory Survey Report.

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The contents of Annex-9 will be used to determine the following:

- A) The scope of the Project.
- B) The timing of the Project implementation.
- C) Timing and possibility of budget allocation.

Contents of Annex-9 will be updated as the Preparatory Survey progresses, and will finally be the Attachment to the Grant Agreement.

## 7. Schedule of the Study

- 7-1. The consultants will proceed to further studies in Zambia until 11<sup>th</sup> March, 2016.
- 7-2. JICA will prepare a draft Preparatory Survey Report in English and dispatch a mission to Zambia in order to explain its contents around September, 2016.
- 7-3. If the contents of the draft Preparatory Survey Report is accepted in principle and the Undertakings are fully agreed by the Zambian side, JICA will complete the final report in English and send it to Zambia around November, 2016.
- 7-4. The above schedule is tentative and subject to change.

## 8. Environmental and Social Considerations

- 8-1. The Zambian side confirmed to give due environmental and social considerations during implementation of the Project, and after completion of the Project, in accordance with the JICA Guidelines for Environmental and Social Considerations (April, 2010).
- 8-2. The Project is categorized as C because the Project is not located in a sensitive area, nor has it sensitive characteristics, nor falls it into sensitive sectors under the Guidelines, and its potential adverse impacts on the environment are not likely to be significant.
- 8-3. For projects that will result in involuntary resettlement, the Zambian side confirmed to prepare a Resettlement Action Plan (RAP)/Abbreviated Resettlement Action Plan (ARAP) and make it available to the public. In addition, the Zambian side confirmed to provide the affected people with sufficient compensation and/or support in accordance with RAP/ARAP, in a timely manner.

## 9. Other Relevant Issues

### 9-1. Location for the construction of the facilities

Both sides agreed on the location for the construction of the facilities as per Annex-1.

### 9-2. Staff allocation

The Zambian side agreed to ensure sufficient staff and budget for the operation and maintenance of the facilities and medical equipment provided. The staff recruitment should be basically carried out according to the standard establishment as per Annex-2-1 and the timeline of staff recruitment procedure as per Annex-2-3.



### 9-3. Demarcation with MDGi

Both sides confirmed that the facilities and equipment to be covered by the Project will be no duplication of with those to be covered by MDGi which are listed in Annex-3.

### 9-4. Approval procedure

Both sides confirmed major undertakings by both Zambian side and Japanese side as per Annex-9. Out of the listed undertakings of both sides, it should be noted that the Zambian side agreed to prepare the following approval documents by the deadlines described below.

- 1) (Chipata) Land use confirmation by PS to JICA (by 3<sup>rd</sup> March 2016)
- 2) (Kanyama) Agreement document with vacating staff house (Already obtained)
- 3) (Chawama) Land ownership confirmation from area member of parliament and Community's approval for use of land (by 4<sup>th</sup> March 2016)

Soon after the prospective area for construction stock yard of each project site is shown, the followings are required on around June, 2016;

- 4) Land use confirmation by the owner or community's approval for use of land

### 9-5. Scope of management guidance (Soft Component)

Both sides agreed necessity of management guidance (soft component), namely 1) Guidance on the importance of maintenance system, 2) Guidance on construction of maintenance system and improvement of management capacity, 3) Guidance on development and implementation of annual maintenance planning, and 4) Guidance on construction of medical waste and wastewater treatment system. Both sides confirmed that personnel who take up a post of medical equipment technologist in each of the target hospitals supported by medical equipment officers, facility engineers and focal point persons in infrastructure stationed at district and the higher levels is to participate in the above guidance. The medical equipment officers, facility engineers and focal point persons in infrastructure are also involved in the target participants.

### 9-6. Maintenance service of equipment

The project will provide maintenance service for general X-ray unit, ultrasound scanner and anesthetic machine. The total maintenance service period is three years. The maintenance service includes one-year warranty period after the handover of these equipment and contract of two-year on-call based service with local agent of manufacturers. The Zambian side will bear the costs of spare parts including procurement process necessary for repairing the above equipment.

### 9-7. Integration of Anti Retroviral Therapy (ART) services into Out-Patient Department (OPD)

The Zambian side expressed their needs for integrating ART and OPD functions. The Team took note that enough space to be provided in OPD to allow for integration of ART services





in each of the target hospitals as shown in Annex-4. Both sides confirmed that detailed layout of OPD would be determined and finally agreed with both sides when a next mission is sent in around September, 2016.

#### 9-8. Bed capacity

The Zambian side expressed their needs for adequate number of beds capacity to be 80 to 100 beds for the facility to qualify as 1<sup>st</sup> level hospital. The team took note of it and agreed to increase the number of beds in the target 3 hospitals.

#### 9-9. Tax exemption

The Zambian side shall take necessary measures to exempt Japanese nationals who will be engaged in the Project from all duties and related fiscal charges which may be imposed in Zambia with respect to import and local procurement of equipment and services supplied under the verified contract.

#### 9-10. Confidentiality of project design

Both sides confirmed that the detailed drawings and specifications of the facilities and equipment and other technical and financial information shall not be released before the tender to be held in the implementation stage of the Project.

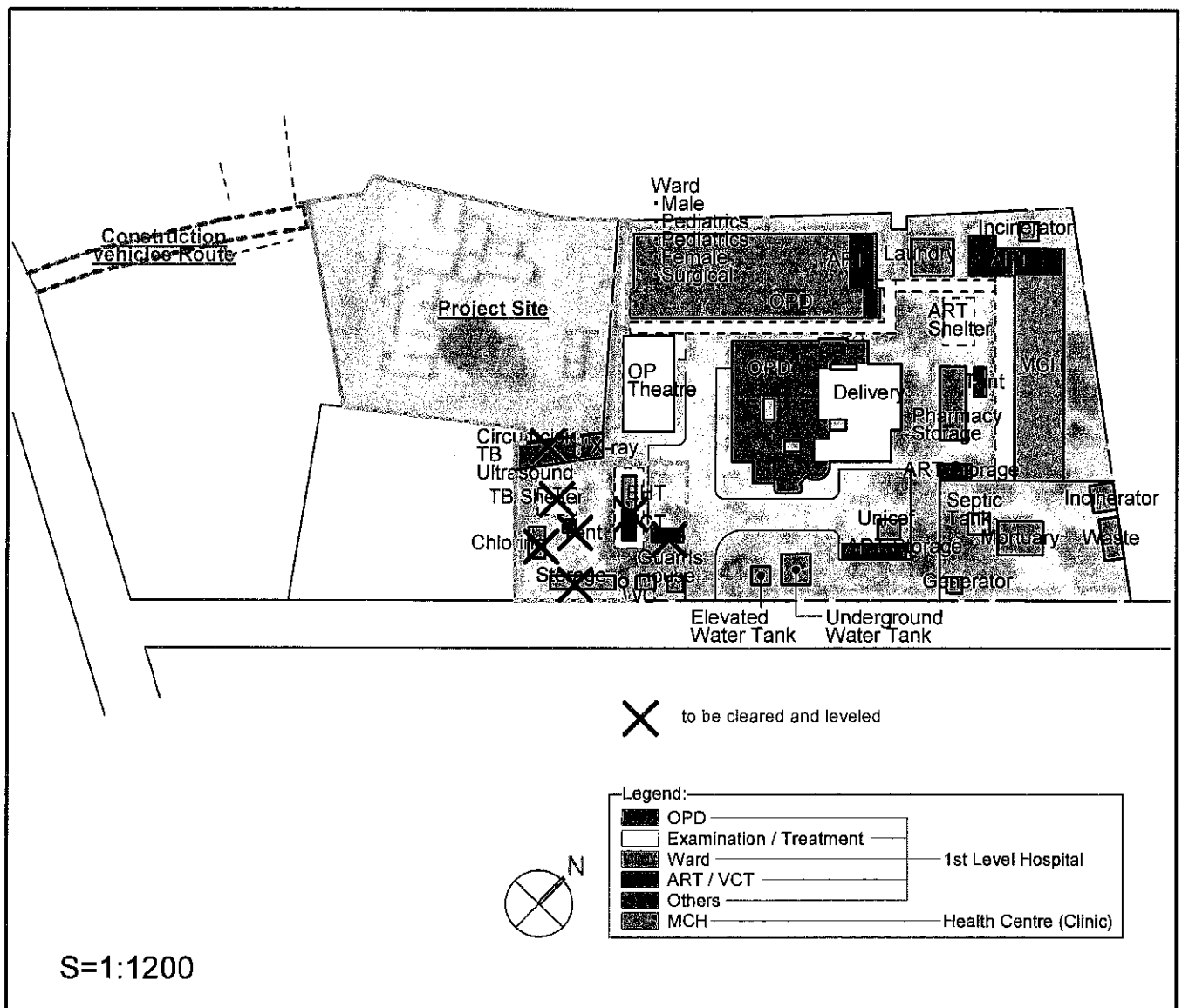
#### 9-11. Change of scope

Both sides confirmed that the scope of the project is subject to change in case of budget restrictions. Also, both sides agreed that change of scope shall be considered based on categorized priorities described in the list of facilities and equipment as shown in Annex-4 and Annex-5.

- Annex-1 Location Map of the Project Sites
- Annex-2-1 Standard Establishment for 1<sup>st</sup> Level Hospital
- Annex-2-2 Organization Structure of Ministry of Health
- Annex-2-3 Timeline of Staff Recruitment Procedure for the Target Hospitals
- Annex-3 Scope of Works by UNICEF (MDGi) and JICA for Chipata, Kanyama, and Chawama
- Annex-4 Facility List
- Annex-5 Equipment List
- Annex-6 Japanese Grant
- Annex-7 Flow Chart of Japanese Grant Procedures
- Annex-8 Financial Flow of Japanese Grant
- Annex-9 Major Undertakings to be taken by Each Government



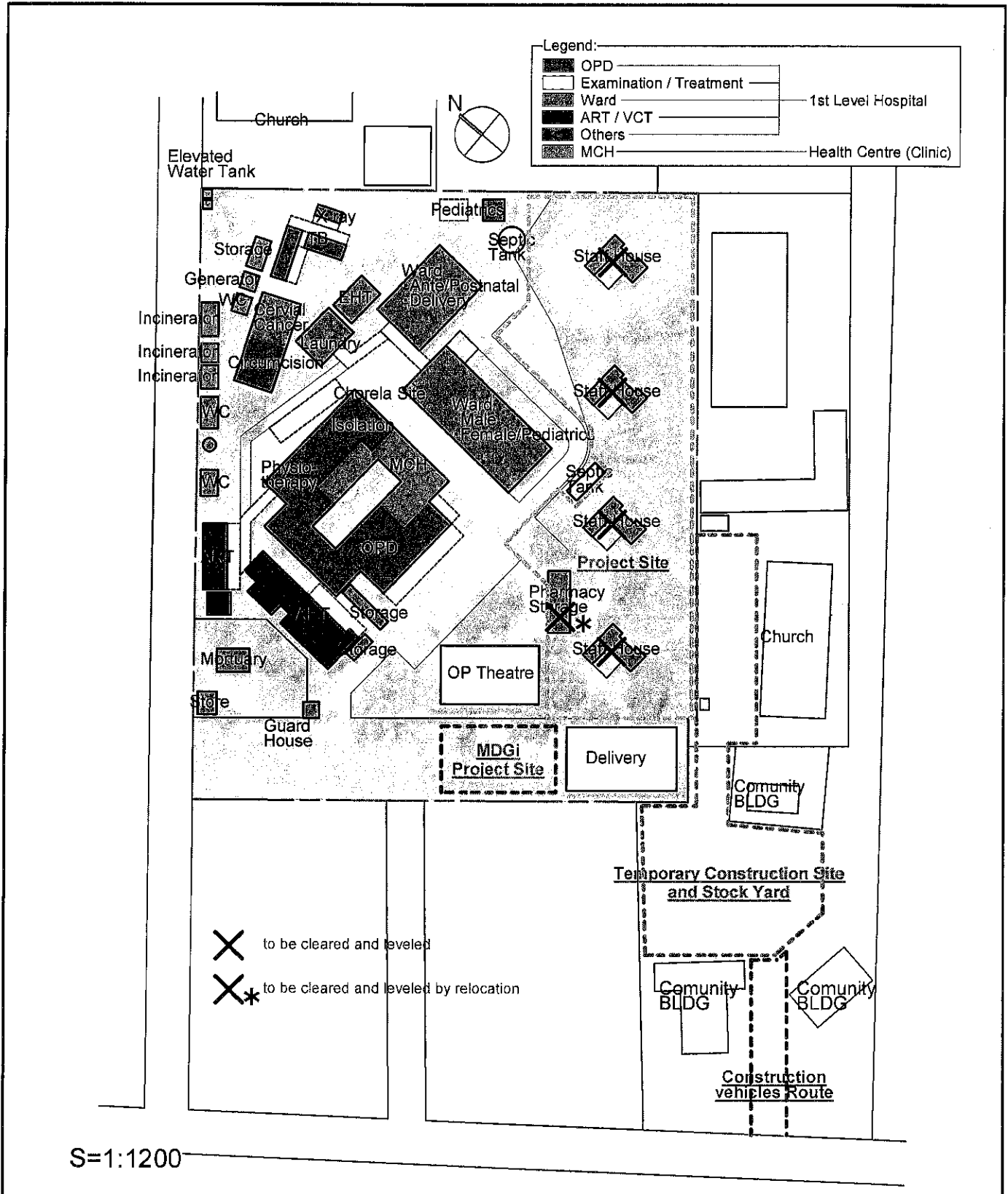
Location map of the Project Site : Chipata



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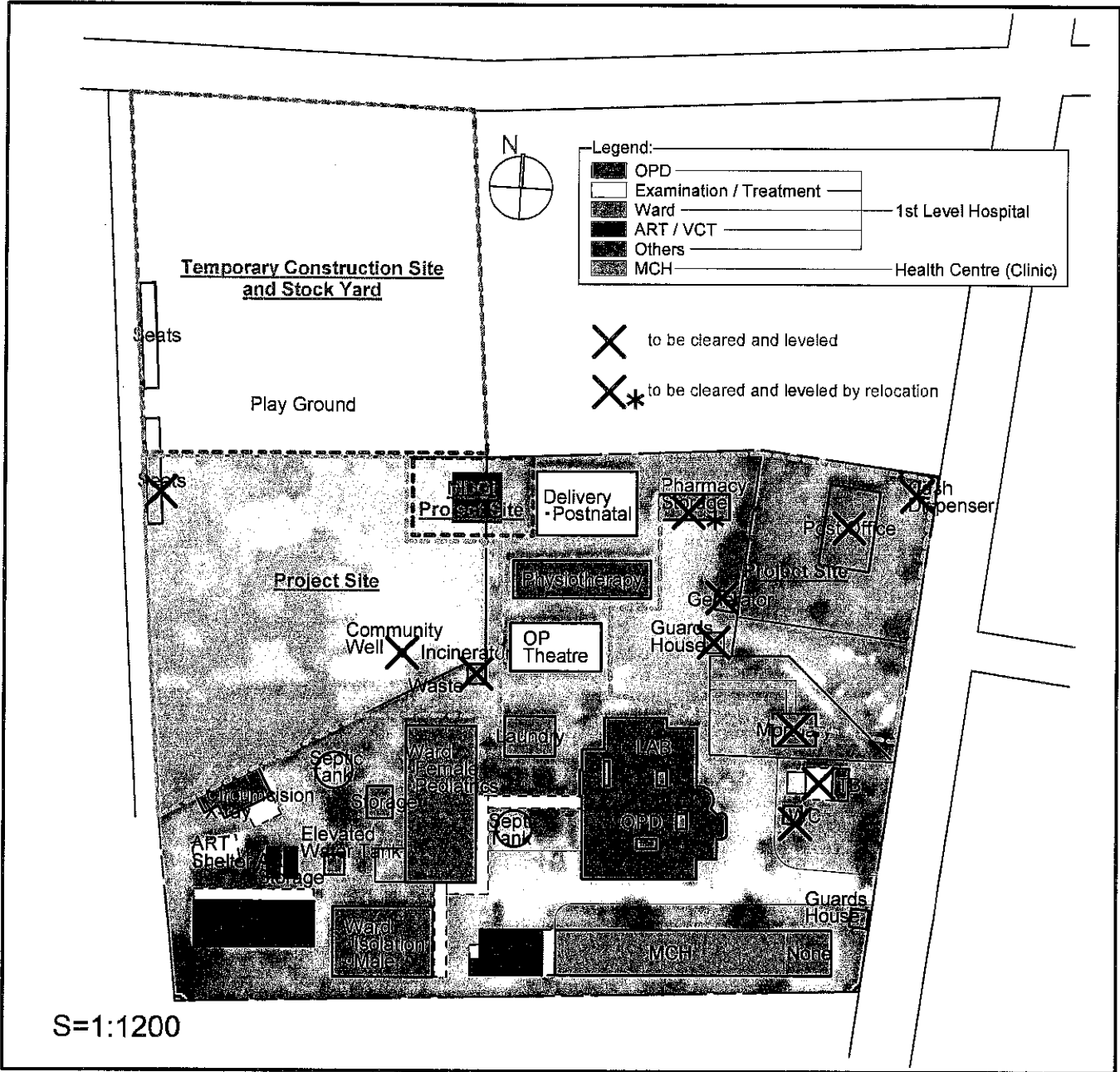
Location map of the Project Site : Kanyama



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Location map of the Project Site : Chawama



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Standard Establishment for 1<sup>st</sup> Level Hospital

	Occupation	Standard	Chipata 1st Level Hospital	Balance	Kanyama 1st Level Hospital	Balance	Chawama 1st Level Hospital	Balance
<b>Medical Staff</b>								
1	Medical Officer in Charge	1	1	0	0	1	0	1
2	General Medical Officer	3	0	3	3	0	1	2
3	Senior Residential Medical Officer	4	4	0	0	4	1	3
4	Medical Licentiate	3	0	3	0	3	0	3
5	Clinical Officer General	5	8	-3	9	-4	8	-3
6	Principle Clinical Officer	1	0	1	0	1	0	1
7	Pharmacy Technologist	2	2	0	5	-3	3	-1
8	Pharmacist	1	2	-1	0	1	1	0
9	Physiotherapist	1	0	1	2	-1	1	0
10	Physiotherapy Technologist	2	0	2	2	0	2	0
11	Radiographer	1	0	1	0	1	0	1
12	Radiography Technologist	2	1	1	0	2	0	2
13	Registered Nurse (Ophthalmic)	1	0	1	0	1	1	0
14	Laboratory Technologist	3	4	-1	4	-1	3	0
15	Nursing Officer	1	1	0	0	1	0	1
16	Nursing Sister	7	1	6	0	7	0	7
17	Registered Midwife	5	13	-8	7	-2	7	-2
18	Registered Nurse	18	10	8	11	7	17	1
19	Zambia Enrolled Midwife	7	10	-3	15	-8	12	-5
20	Zambia Enrolled Nurse	27	20	7	23	4	18	9
21	Registered Theatre Nurse	3	8	-5	0	3	2	1
22	Pharmacy Dispenser	0	1	-1	0	0	0	0
23	Theater Superintendent	2	0	2	0	2	0	2
24	Dental Surgeon	1	0	1	0	1	0	1
25	Dental Technologist	1	0	1	2	-1	0	1
26	Dental Therapist	2	2	0	0	2	2	0
27	Nutritionist	1	1	0	1	0	2	-1
28	Senior Clinical Officer (Anesthesia)	1	0	1	0	1	0	1
29	Clinical Officer (Anesthesia)	1	8	-7	0	1	0	1
30	Clinical Officer (Dermatology)	1	0	1	0	1	0	1
31	Clinical Officer (Psychiatry)	1	0	1	0	1	1	0
32	Clinical Officer (Ophthalmology)	1	0	1	0	1	1	0
33	Environmental Health Technologist	1	2	-1	2	-1	2	-1
	Certificate midwife *	0	3	-3	3	-3	0	0

\*Certificate midwife is not in the standard establishment

	Occupation	Standard	Chipata 1st Level Hospital	Balance	Kanyama 1st Level Hospital	Balance	Chawama 1st Level Hospital	Balance
<b>Administrative &amp; Support Staff</b>								
34	Assistant Human Resource Management Officer	1	0	1	0	1	0	1
35	Hospital Administrator	1	0	1	0	1	0	1
36	Medical Record Officer	1	0	1	0	1	0	1
37	Medical Equipment Technologist	2	0	2	0	2	0	2
38	Carpenter	2	0	2	0	2	0	2
39	Electrician	2	0	2	0	2	0	2
40	Refridgeration Technician	2	0	2	0	2	0	2
41	Catering Officer	1	0	1	0	1	0	1
42	Driver	2	0	2	0	2	0	2
44	Taylor	1	0	1	0	1	0	1
45	Telephone Operator	2	0	2	0	2	0	2
46	Typist	2	0	2	0	2	0	2
47	Office Orderly	2	0	2	0	2	0	2
48	Plumber	2	0	2	0	2	0	2
49	Purchasing & Supplies Officer	1	0	1	0	1	0	1
50	Purchasing & Supplies Assistant	2	0	2	0	2	0	2
51	Stores Clerk	2	0	2	0	2	0	2
52	Health Information Officer	1	0	1	0	1	0	1
53	Data Clerk	5	0	5	0	5	0	5
54	Medical Record Clerk	6	2	4	5	1	4	2
55	Revenue Collector	6	3	3	0	6	1	5
56	Psycho-social Counsellor	7	6	1	7	0	2	5
57	Darkroom Attendant	1	0	1	1	0	0	1
58	Dental Attendant	1	0	1	1	0	0	1
59	Laboratory Attendant	1	0	1	0	1	1	0
60	Station Handyman	4	3	1	1	3	1	3
61	Maid	4	9	-5	16	-12	10	-6
62	Cook	4	3	1	3	1	0	4
63	Laundryman	4	2	2	1	3	1	3
64	Porter	5	0	5	1	4	0	5
65	Mortury Attendant	3	5	-2	1	2	0	3
66	Waiter	2	0	2	2	0	0	2
67	Cleaner	6	1	5	1	5	1	5
68	Security Officer	1	0	1	0	1	0	1
69	Security Guard	9	6	3	9	0	5	4

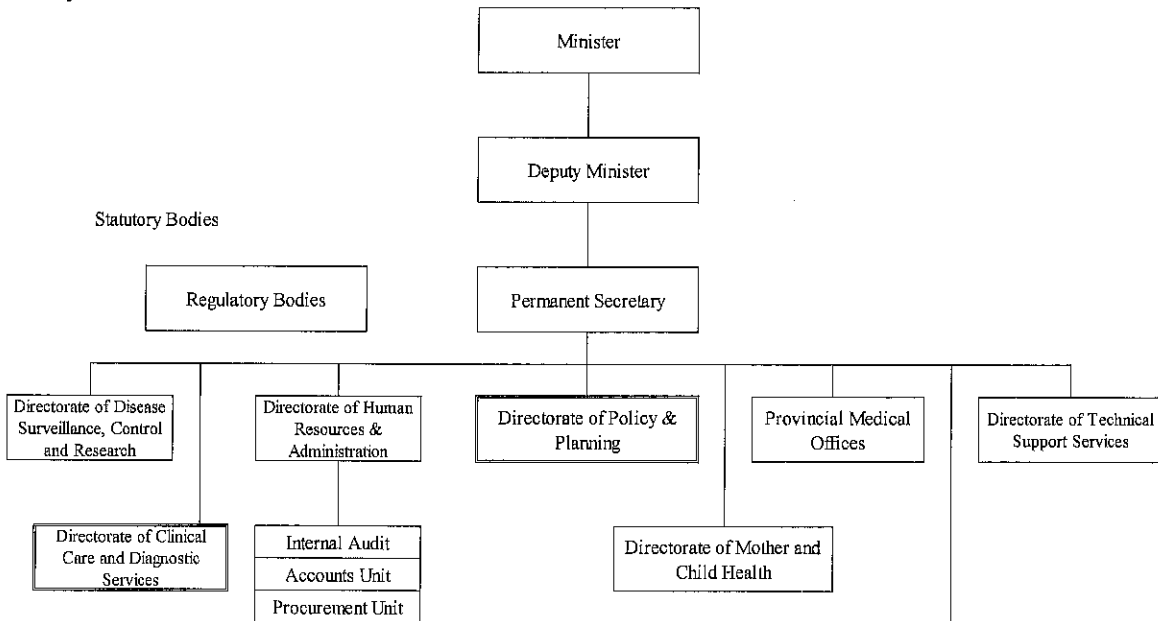
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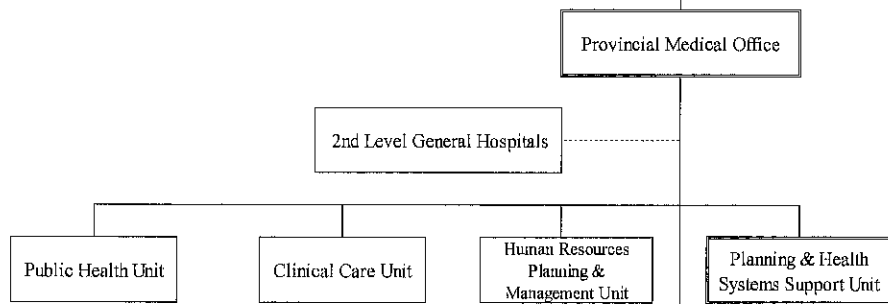
**Organization Structure of Ministry of Health**

**MINISTRY OF HEALTH: OVERALL STRUCTURE**

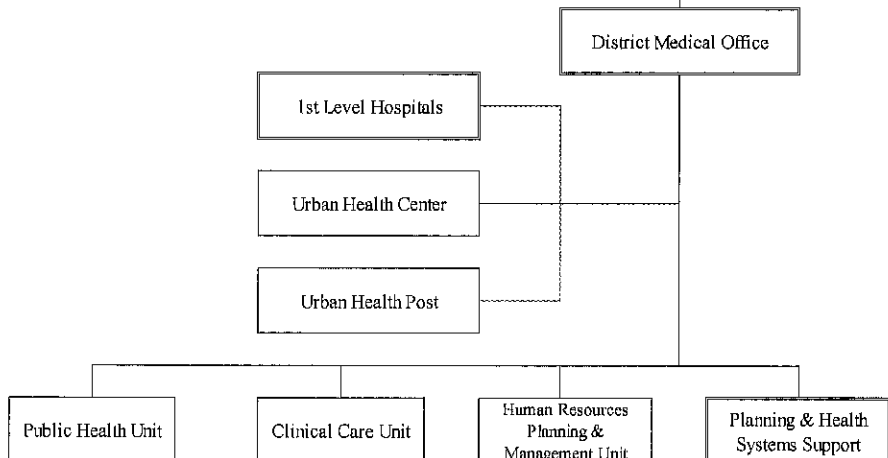
**Ministry of Health**



**Province**



**District**



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### Timeline of Staff Recruitment Procedure for the Target Hospitals

#### HUMAN RESOURCE PLANNING AND RECRUITMENT

Output/Activity	2016												2017												2018												2019						Responsible Organisation
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun															
<i>Construction</i>																																											
<i>Human Resource Planning &amp; Recruitment</i>																																											
<i>Medical Staff/Administrative staff</i>																																											
1. Request for establishment of necessary human resources for the target three health facilities (Chipata, Kanyama, and Chawama 1st level hospitals) to the Ministry of Health.																													Lusaka Provincial Medical Office														
2. Establishment approved by the Ministry of Health																													Ministry of Health (MoH) HQ														
3. Request the finance for human resources to the Ministry of Finance																													MoH HQ														
4. Funded with Treasury Authority from Ministry of Finance																													MoH HQ														
5. Recruitment																													MoH HQ														
6. Employment																													LPHO, MoH HQ, Public Service Management Division (PSMD), Public Service Commission (PSC)														

*Due*



## Scope of Works by UNICEF (MDGi) and JICA for Chipata, Kanyama, and Chawama

Facility Name	UNICEF (MDGi)	JICA
Chipata	<p>Minor rehabilitation of facilities related to the Mother and Child Health (MCH) services <u>excluding maternity ward (delivery, antenatal, and postnatal rooms)</u>. Other non-medical facilities and provision of equipment related to MCH services.</p> <p>[Tentative target]</p> <ul style="list-style-type: none"> <li>- Repair of ceiling and re-painting the wall</li> <li>- Water pump system</li> <li>- Reservoir</li> <li>- Centralized incinerator</li> <li>- Septic tank</li> <li>- Generator</li> <li>- Outside pavement</li> </ul>	<p>Construction and major rehabilitation of the facility and provision of medical equipment <u>including maternity ward (delivery, antenatal, and postnatal rooms)</u>, but excluding the other MCH services and non-medical part of the facilities.</p> <p>[Tentative target]</p> <ul style="list-style-type: none"> <li>- OPD</li> <li>- Operation Theatre</li> <li>- Maternity (delivery, antenatal, and postnatal rooms)</li> <li>- Surgical ward (post caesarian section)</li> <li>- Medical imaging</li> </ul>
Kanyama	<p>Completion of construction of maternity ward (delivery, antenatal, and postnatal rooms) and other MCH services</p>	<p>Construction and rehabilitation of medical facilities and provision of medical equipment excluding MCH services</p> <p>[Tentative target]</p> <ul style="list-style-type: none"> <li>- OPD</li> <li>- Operation Theatre</li> <li>- Surgical ward (post caesarian section)</li> <li>- Extra antenatal room and beds</li> <li>- Medical imaging</li> <li>- Physiotherapy</li> </ul>
Chawama	<p>Expansion or rehabilitation of maternity ward (delivery, antenatal, and postnatal rooms) and other MCH services</p>	<p>Construction and rehabilitation of medical facilities and provision of medical equipment excluding maternity ward and MCH services</p> <p>[Tentative target]</p> <ul style="list-style-type: none"> <li>- OPD</li> <li>- Operation Theatre</li> <li>- Surgical ward (post caesarian section)</li> <li>- Medical imaging</li> <li>- Physiotherapy</li> </ul>




■ Facility List

- Continued use of existing facilities is difficult (Ageing or Facilities built for non-hospital purposes)
- Facilities with expected direct benefit for improvement of first level medical services (No Health Centre Services)
- Overlapping of other donors
- Priority for facilities requiring advanced construction
- Scale of cooperation

	Requirement	Priority		
		Chipata	Kanyama	Chawama
OPD	Registry / Cashier	A	A	A
	Pharmacy			
	Medical Consultation			
	Dental clinic			
	Eye & ENT clinic			
Medical Service	Casualty	C	C	B
	Administration	B	B	B
	Conference	C	C	C
	Library	C	C	C
	Laboratory	B	B	C
Diagnostic Block	Medical imaging (X-ray, Ultrasound)	A	A	A
	Physiotherapy	C	B	B
	Delivery (incl. Ante/Post-natal ward)	A	C	C
Theater etc.	OP Theater	A	A	A
	CSSD (sterilization)	A	A	A
Ward	Surgical ward (Post-Cesarean section)	A	A	A
	Medical ward (M/F) Incl. Male Surgical ward	C	A	B
	Paediatric ward	C	C	C
	Isolation Ward	-	C	-
	Kitchen & Laundry	C	C	C
Supply	Mortuary	C	C	C
	Incinerator	C	C	C
	Water tank	A	A	A
Infrastructure	Septic tank	A	A	A
	Generator	A	A	A
	MCH	C	C	C
UHC Service	ART	A	A	A
	VCT	C	C	C

Priority A: High priority

Priority B: Middle priority (We need more analysis)

Priority C: low priority

## EQUIPMENT LIST (Final draft)

A: High priority  
B: Middle priority  
C: Low priority

## CHIPATA

No.	Items	Existing	MDGi	JICA Quantity	Priority	Note
<b>1. OPD</b>						
<i>1.1 Screening and consultation rooms</i>						
Add	Wheelchair	0		2	A	
Add	Stretcher	0		2	A	
3	Desk for Consulting staff	-		10	B	Quantity will be decided depends on construction plan.
4	Chair for Consulting staff	-		10	B	Quantity will be decided depends on construction plan.
5	Chair for patient	-		10	B	Quantity will be decided depends on construction plan.
6	Equipment Cabinet	-		10	B	Quantity will be decided depends on construction plan.
7	Wastebin with lid	-		10	B	Quantity will be decided depends on construction plan.
8	Examination couch, gynecological	0		1	A	
9	Examination couch without leg holders	-		5	A	
10	Bed-side screen	-		5	B	
11	Examination light	-		1	A	
12	Torch, medical, pen-sized	-		6	A	
13	Thermometer, digital	-		6	A	
14	Thermometer, mercury type	-		5	C	
15	Thermometer Jar	-		6	C	
16	Salter scale	-		1	A	
17	Weighing trousers	-		1	A	
18	Weighing scale, adult	1		2	A	Old
19	Stethoscope, binaural	-		5	A	
20	BP machine, adult	1		4	A	
21	BP machine, child	-		2	A	
22	Ear syringe	-		1	A	
23	Diagnostic set (otoscope and ophthalmoscope)	-		1	A	
24	Chart, vision-testing, Snellen type	-		1	A	
25	Patella hammer	-		1	A	
26	Vaginal speculum, small	-		3	A	
27	Vaginal speculum, medium	-		3	A	
28	Vaginal speculum, large	-		3	A	
29	Stethoscope, fetal, Pinard	-		1	C	
30	Drip stand	-		3	A	
31	Suction pump, foot-operated	-		1	C	
32	Suction pump, electric	-		1	A	
33	Ambu bag for adults (resuscitator)	-		1	A	
34	Ambu bag for children (resuscitator)	-		1	A	
35	Medicine trolley	-		3	A	
Add	Pulse oximeter, finger type	0		2	A	
Add	X-Ray film viewing box, table top	-		2	A	
Add	Diagnostic set for Eye and ENT	-		1	A	
<i>1.2 Dressing and injection rooms</i>						
36	Autoclave, electric, small	-		1	C	Refer to 5.3 Sterilization equipment
37	Autoclave, non-electric, small (39 liters)	-		1	C	
38	Sterilizing drum, small	-		2	C	
39	Timer, 60 min	-		1	C	
40	Indicator, TST control spot	-		1	C	
41	Drainage set	-		3	A	
42	Dressing set	-		3	A	
43	Suturing set	-		6	A	
44	Instrument tray, medium	-		3	A	
45	Bowl, lotion, small	-		3	C	
46	Bowl, lotion, medium	-		3	C	
47	Bowl, lotion, large	-		3	C	
30	Drip stand	-		3	A	
<b>2. Casualty</b>						
1	Wheelchair	-		1	A	
2	Stretcher	-		1	A	
48	Hospital bed, hospital model, two-sectioned, with mattress	-		3	A	

**CHIPATA**

No.	Items	Existing	MDGi	JICA Quantity	Priority	Note
49	Hospital bed bednet, treated	-		3	C	
50	Hospital bed cradle	-		1	A	
51	Bed-side screen	-		2	C	
52	Bed-side cabinet, hospital model	-		3	C	
53	Over-bed table	-		1	A	
54	Bed pan	-		1	A	
55	Urinal, male	-		1	A	
56	Sputum mug	-		1	C	
57	Drip stand	-		3	A	
58	Oxygen concentrator	-		1	A	
59	Suction pump, foot operated	-		1	A	
60	Suction pump, electric	-		1	C	
Add	Ambu Bag for Adults	-		1	A	
Add	Ambu Bag for Children	-		1	A	
Add	Diagnostic set	-		2	A	
Add	X-Ray film viewing box (negatoscope)	-		1	A	
<b>3. All wards, except maternity ward</b>						
<b>3.1. Nursing stations</b>						
61	Cupboard, lockable	-		1	C	
62	Desk	-		1	C	
63	Chair	-		4	C	
64	Equipment Cabinet	-		1	C	
65	Wastebin with lid	-		1	C	
<b>3.2 Wards</b>						
66	Hospital bed, hospital model, two-sectioned, with mattress	-		5	B	
67	Hospital bed bednet, treated	-		5	C	
68	Infant cot	-		2	C	
69	Infant cot bednet, treated	-		2	C	
70	Hospital bed back rest	-		1	C	
71	Hospital bed cradle	-		1	C	
72	Hospital bed elevator	-		1	C	
73	Traction frame	-		1	C	
74	Bed-side screen	-		1	C	
75	Bed-side cabinet, hospital model	-		5	C	
76	Over-bed table	-		5	C	
77	Bed pan	-		1	C	
78	Urinal, male	-		1	C	
79	Sputum mug	-		1	C	
80	Thermometer, digital	3		0	C	
81	Thermometer jar	-		5	C	
82	Weighing scale, adult	1		1	A	Old
83	Salter scale	-		1	B	
84	Weighing trowsers	-		1	B	
85	Stethoscope, binaural	-		1	A	
86	BP machine, adult	1		1	A	
87	BP machine, child	-		1	A	
88	Diagnostic set (otoscope and ophthalmoscope)	-		2	C	
89	Glucometer	-		2	A	
90	Rapid Diagnostic Test kits for malaria	-		1	C	
91	Trolley, medicine	-		1	A	
92	Autoclave, electric, small	-		1	C	
93	Sterilizing drum, small	-		1	C	
94	Timer, 60 min	-		1	C	
95	Indicator, TST control spot	-		1	C	
96	Instrument tray, medium	-		1	C	
97	Instrument tray, large	-		1	C	
98	Dressing tray, medium	-		1	A	
99	Dressing trolley	-		1	A	
100	Dressing set	-		1	A	
101	Bowl, lotion, small	-		2	C	
102	Bowl, lotion, medium	-		3	C	
103	Bowl, lotion, large	-		2	C	
104	Drip stand	-		3	A	
105	Oxygen concentrator	1		1	B	
106	Oxygen cylinder	-		1	C	
107	Suction pump, foot operated	-		1	C	

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Due

**CHIPATA**

No.	Items	Existing	MDGi	JICA Quantity	Priority	Note
108	Suction pump, electric	-		1	A	
Add	Pulse oximeter, finger type	-		2	A	
	<b>4. labour ward/maternity</b>					
	<i>4.1 Sister's office</i>					
109	Desk for Consulting staff	-		1	B	
110	Chair for Consulting staff	-		2	B	
111	Chair for patient	-		2	B	
112	Cupboard, lockable	-		1	B	
113	Wastebin with lid	-		1	B	
	<i>4.2 First stage room</i>					
114	Examination couch, gynecological	-		1	A	
115	Footstool, one-step	-		1	A	
116	Bed-side screen	-		1	C	
117	CTG machine	-	1	0	C	MDGi
118	Examination light	-	2	0	C	MDGi
119	Stethoscope, fetal, Pinard	-		2	A	
120	Fetal heart detector	1		2	C	MDGi
121	Vaginal speculum, small	-		2	A	
122	Vaginal speculum, medium	-		4	A	
123	Vaginal speculum, large	-		4	A	
124	RPR rotator	-		1	B	
	<i>4.3 Delivery room</i>					
125	Instrument cabinet	-		1	C	
126	Instrument trolley	-		2	C	
127	Delivery bed	4	6	0	C	MDGi
128	Drip stand	-		4	A	
129	Footstool, one-step	-		4	A	
130	Bed-side screen	-		1	C	
131	Operating stool, revolving	-		4	A	
132	Vaginal delivery/episiotomy set	-		5	A	
133	Kick-about bowl	-		2	B	
134	Manual vacuum aspiration (MVA) kit	-		5	A	
135	Vacuum extractor, manual	-		1	A	
136	Vacuum extractor, electrical	-		2	A	
137	Weighing scale, infant, beam type	-		1	A	
138	Wall clock	-		1	C	
139	Resuscitaire	1	1	0	C	MDGi
140	Neonatal incubator	5	1	0	C	MDGi, 3units are in OT
141	Suction pump, electric	-		2	A	
142	Suction pump, foot-operated	1	1	0	C	MDGi
Add	Fetal doppler	-	1	1	C	MDGi
Add	BP machine, adult	1		1	A	
Add	Transport Incubator	-		1	A	
	<i>4.4 Recovery room</i>					
143	Hospital bed, hospital model, two-sectioned, with mattress	-		2	C	
144	Infant cot with mattress	-		2	C	
145	Bed-side screen	-		1	C	
146	Bed-side cabinet, hospital model	-		2	C	
147	Over-bed table	-		2	C	
148	Bed pan	-		1	C	
149	Drip stand	-		1	C	
	<i>4.5 Postnatal ward</i>					
150	Hospital bed, hospital model, two-sectioned, with mattress	-		24	B	Quantity will be decided depends on construction plan. 16 for antepartum, 8 for postpartum
151	Bednet, long lasting insecticide treated, for hospital bed	-		10	C	
152	Infant cot with mattress	-		2	C	MDGi
153	Bednet, long lasting insecticide treated, for hospital cot	-		2	C	
154	Bed-side screen	-		2	C	
155	Bed-side cabinet, hospital model	-		10	C	
156	Over-bed table	-		10	C	
157	Bed pan	-		1	A	
158	Phototherapy machine	-		1	C	
159	Oxygen concentrator	1	1	0	C	MDGi
Add	Hospital bed, hospital model, two-sectioned, with mattress	6	7	12	B	MDGi
	<i>4.6 Maternity ward</i>					

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Paul

**CHIPATA**

No.	Items	Existing	MDGi	JICA Quantity	Priority	Note
Add	<i>Hospital Bed</i>	-		10	A	Quantity will be decided depends on construction plan.
161	Vaginal speculum, small	-		1	A	
162	Vaginal speculum, medium	-		2	A	
163	Vaginal speculum, large	-		2	A	
164	Thermometer, digital	-		2	A	
165	Thermometer jar	-		2	C	
166	Weighing scale, infant, beam type	-	1	0	C	MDGi
167	Stethoscope, binaural	-		2	A	
168	BP machine, adult	-		2	A	
169	Glucometer	-		1	A	
170	Rapid Diagnostic Test kits for malaria	-		1	C	
171	Medicine trolley	-		2	A	
172	Autoclave, electric, medium	1		1	C	Refer to 5.3 Sterilization equipment
173	Sterilizing drum, small	-		2	C	Refer to 5.3 Sterilization equipment
174	Sterilizing drum, medium	-		2	C	Refer to 5.3 Sterilization equipment
175	Timer, 60 min	-		1	C	
176	Indicator, TST control spot	-		1	C	
177	Instrument tray, medium	-		1	C	
178	Instrument tray, large	-		1	C	
179	Dressing tray, medium	-		1	A	
180	Dressing trolley	-		1	A	
181	Dressing set	-		2	A	
182	Bowl, lotion, small	-		2	C	
183	Bowl, lotion, medium	-		2	C	
184	Bowl, lotion, large	-		2	C	
185	Drip stand	-		6	A	
Add	<i>Bed-side cabinet, hospital model</i>	-		24	B	
Add	<i>Infant cot with mattress</i>	-	1	4	B	MDGi
	<b>5. Operating theatre</b>					
	<b>5.1 theatre equipment</b>					
186	Ambu bag for adults (resuscitator)	-		1	A	
187	Ambu bag for children (resuscitator)	-		1	A	
188	Anesthetic machine	2		1	B	1 unit is old
189	Bowl, lotion, large	-		6	C	
190	BP machine, adult	-		2	A	
191	Bucket, stainless steel with cover	-		4	A	
192	Electro surgical unit	1		1	A	
193	Dangerous drugs, cabinet	-		1	C	
194	Defibrillator	1		1	B	
195	Dressing tray, large	-		3	C	
196	Dressing tray, medium	-		2	C	
197	Dressing tray, small	-		1	C	
198	Dressing trolley	-		1	C	
199	Drip stand	-		2	A	
200	Ear syringe	-		1	C	
201	Footstool, one-step	-		2	A	
202	Instrument cabinet	-		1	C	
203	Instrument tray, large	-		16	C	
204	Instrument trolley	-		2	C	
205	Kick-about bowl	-		6	C	
206	Laryngoscope set	-		2	A	
207	Mayo table	-		2	A	
208	Neonatal resuscitaire	-		1	C	MDGi, refer to 140
209	Operating stools, revolving	-		2	A	
210	Operating table	2	1	1	C	MDGi
211	Operating-room light, fixed, ceiling mounted	1		1	A	
212	Operating-room light, portable, with stand	1		1	A	
213	Oxygen concentrator	2		2	A	
214	Oxygen cylinder	-		8	C	
215	Patient trolley	-		2	A	
216	Pulse oximeter, separate	-	1	1	B	MDGi
217	Recovery bed	-		2	A	
218	Stand, single bowl	-		4	C	
219	Stetoscope, binaural	-		4	A	
220	Suction pump, electric	3		2	C	
221	Ventilator	-		1	C	
222	Vital signs monitor, portable	2		2	A	

**CHIPATA**

No.	Items	Existing	MDGi	JICA Quantity	Priority	Note
223	Wall clock	-		1	C	
224	X-Ray film viewing box (negatoscope)	-		1	A	
Add	Medicine refrigerator	-		1	A	
	<b>5.2 Theatre instrument sets</b>					
225	Set, amputation	-		3	A	
226	Set, bilateral tubal ligation	-		3	A	
227	Set, caesarian section	-		6	A	
228	Set, decapitation	-		3	C	
Add	Set, Hysterectomy	0		1	A	
229	Set, dilatation and curetage Set (D+C set)	-		3	A	
230	Set, general	-		3	C	
231	Set, laparotomy	-		3	A	
232	Set, minor surgery	-		3	A	
	<b>5.3 Sterilization equipment</b>					
233	Autoclave, electric, 400 liters	-		1	A	
234	Bed pan washer	-		1	A	
235	Sterilizing drum, large	-		4	A	
236	Sterilizing drum, medium	-		4	A	
237	Ultrasonic cleaner	-		1	C	
	<b>6. Dental unit</b>					
238	Bench top autoclave	0		1	A	
239	Dental amalgamator	0		1	C	
240	Dental chair	0		1	A	
241	Dental compressor	0		1	A	
242	Dental film processor or developer	0		1	A	
243	Dental instrument cabinet	0		1	A	
244	Dental instrument set	0		3	A	
245	Dental Instrument tray	0		2	C	
246	Dental light	0		1	C	
247	Dental light curing unit	0		1	A	
248	Dental treatment trolley	0		1	A	
249	Dental treatment unit	0		1	A	
250	Dental x-ray unit	0		1	A	
251	Dentist stool	0		1	A	
252	Ultrasonic dental scaler	0		1	A	
Add	Lead apron	0		1	A	
	<b>7. Pharmacy</b>					
253	20 ml medicine cup	-		2	A	
254	Drug cabinet, lockable	-		1	A	
255	Graduated glass measure	-		2	A	
256	Mixer	-		1	A	
257	Mortar and pestle	-		2	A	
258	Pharmacy balance	-		1	A	
259	Pharmacy heavy duty trolley	-		1	A	
260	Pharmacy refrigerator	-		1	A	
261	Tablet and capsule counter	-		1	A	
262	Tablet counting tray	-		1	A	
263	Vaccine refrigerator	-		1	B	
264	Water distiller	-		1	A	
265	Water filter	-		1	C	
	<b>8. Laboratory</b>					
266	Anaerobic jar	-		1	B	
267	Analytical balance	-		1	A	
268	Autoclave for laboratory, medium	-		1	A	
269	Binocular microscope	2		1	C	
270	Blood bank refrigerator	-		1	A	
271	Bunsen burner	-		1	C	
272	CD4 counting machine	1		1	C	
273	Centrifuge, small	1		1	C	
274	Chemistry analyzer	1		1	C	
275	Differential counter	-		1	B	
276	Flammable liquid cabinet	-		1	B	
277	Hematology analyzer	2		1	C	
278	Hot air oven	-		1	B	
279	Hot plate, controlled temperature	-		1	A	
280	Laboratory incubator, medium	-		1	A	
281	Laboratory refrigerator/freezer	-		2	A	
282	Microhaematocrit centrifuge	-		1	A	

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**CHIPATA**

No.	Items	Existing	MDGI	JICA Quantity	Priority	Note
283	Micropipettes, automated	-		1	A	
284	pH meter	-		1	A	
285	Roller/mixer	-		1	B	
286	RPR rotator	-		1	B	
287	Spirit lamp	-		2	B	
288	Timer	-		2	A	
289	Voltex for CD4 counting	-		1	C	
290	Water bath	-		1	A	
291	Water distiller	1		1	A	Old
<b>9. Radiology department</b>						
292	Actinic marker	-		1	A	
293	Film processor, automatic	-		1	A	
294	Darkroom safety light holder	-		2	C	
295	Dryer for manual film processor	-		1	C	
296	Electrolyte Silver Recovery Kit	-		1	C	
297	Film hanger (set of five sizes)	-		4	C	
298	HSG kit	-		1	C	
299	Lead apron	-		1	A	
300	Lead gloves	-		1	C	
301	Film processor, manual	-		1	C	
302	Protective lead shield or screen	-		1	C	
303	Quality assurance kit	-		1	C	
304	Ultrasound scanner with printer	1		1	A	Old
305	X-ray film stationery grid	-		1	B	
306	X-Ray film viewing box (negatoscope)	-		1	A	
307	X-Ray loading bench (Film hopper)	-		1	A	High priority of MOH
308	X-ray unit, fixed	-		1	A	
309	X-ray unit, mobile	-		1	A	High priority of MOH
Add	Portable ultrasound scanner for Gynecology	-		1	A	
<b>10. Mortuary</b>						
310	20 liter bucket	-		1	C	
311	Autopsy saw	-		1	C	
312	Autopsy set	-		1	C	
313	Autopsy table	-		1	C	
314	Mortuary fridge/unit (4 trays)	-		1	C	
315	Mortuary trolley	-		1	C	
316	Organ table	-		1	C	
317	Spring balance	-		1	C	
<b>11. Ambulance</b>						
318	Ambulance	-		1	C	
<b>12. Maintenance</b>						
319	Maintenance Set	0		1	A	Includes Oxygen analyzer, ECG simulator



## EQUIPMENT LIST (Final draft)

A: High priority  
B: Middle priority  
C: Low priority

### KANYAMA

No.	Items	Existing	MDGI	JICA Quantit y	Priority	Note
<b>1. OPD</b>						
<i>1.1 Screening and consultation rooms</i>						
Add	Wheelchair	0		2	A	
Add	Stretcher	0		2	A	
3	Desk for Consulting staff	-		5	B	Quantity will be decided depends on construction plan.
4	Chair for Consulting staff	-		5	B	Quantity will be decided depends on construction plan.
5	Chair for patient	-		5	B	Quantity will be decided depends on construction plan.
6	Equipment Cabinet	-		5	B	Quantity will be decided depends on construction plan.
7	Wastebin with lid	-		5	B	Quantity will be decided depends on construction plan.
8	Examination couch, gynecological	0		1	A	
9	Examination couch without leg holders	0		5	A	
10	Bed-side screen	0		5	B	
11	Examination light	0		1	A	
12	Torch, medical, pen-sized	0		6	A	
13	Thermometer, digital	-		6	A	
14	Thermometer, mercury type	0		5	C	
15	Thermometer Jar	0		6	C	
16	Salter scale	1		1	A	Old
17	Weighing trousers	1		1	A	Old
18	Weighing scale, adult	0		2	A	
19	Stethoscope, binaural	-		5	A	
20	BP machine, adult	-		5	A	
21	BP machine, child	-		2	A	
22	Ear syringe	0		1	A	
23	Diagnostic set (otoscope and ophthalmoscope)	0		1	C	
24	Chart, vision-testing, Snellen type	0		1	A	
25	Patella hammer	0		1	A	
26	Vaginal speculum, small	-		2	A	
27	Vaginal speculum, medium	-		2	A	
28	Vaginal speculum, large	-		2	A	
29	Stethoscope, fetal, Pinard	2		1	C	
31	Suction pump, foot-operated	0		1	C	
32	Suction pump, electric	0		1	A	
33	Ambu bag for adults (resuscitator)	0		1	A	
34	Ambu bag for children (resuscitator)	0		1	A	
35	Medicine trolley	0		3	A	
Add	Pulse oximeter, finger type	0		2	A	
Add	Medicine refrigerator	0		1	B	
Add	X-Ray film viewing box, table top	0		2	A	
Add	Diagnostic set for Eye and ENT	0		1	A	
<i>1.2 Dressing and injection rooms</i>						
36	Autoclave, electric, small	0		1	C	Refer to 5.3 Sterilization equipment
37	Autoclave, non-electric, small (39 liters)	0		1	C	
38	Sterilizing drum, small	0		2	C	
39	Timer, 60 min	0		1	C	
40	Indicator, TST control spot	0		1	C	
41	Drainage set	0		3	A	
42	Dressing set	0		3	A	
43	Suturing set	0		3	A	
44	Instrument tray, medium	0		3	A	
45	Bowl, lotion, small	0		3	C	
46	Bowl, lotion, medium	0		3	C	
47	Bowl, lotion, large	0		3	C	
30	Drip stand	0		3	A	
Add	Treatment table	1		1	A	Old
<b>2. Casualty</b>						
1	Wheelchair	0		2	A	
2	Stretcher	0		2	A	

**KANYAMA**

No.	Items	Existing	MDGI	JICA Quantit y	Priority	Note
48	Hospital bed, hospital model, two-sectioned, with mattress	0		3	A	
49	Hospital bed bednet, treated	0		3	C	
50	Hospital bed cradle	0		1	A	
51	Bed-side screen	0		2	C	
52	Bed-side cabinet, hospital model	0		3	C	
53	Over-bed table	0		1	A	
54	Bed pan	0		1	A	
55	Urinal, male	0		1	A	
56	Sputum mug	0		1	C	
57	Drip stand	0		3	A	
58	Oxygen concentrator	0		2	A	
59	Suction pump, foot operated	0		1	C	
60	Suction pump, electric	0		1	A	
Add	Ambu Bag for Adults	0		1	A	
Add	Ambu Bag for Children	0		1	A	
Add	Diagnostic set	0		2	A	
Add	X-Ray film viewing box (negatoscope)	0		1	A	
	<b>3. All wards, except maternity ward</b>					
	<b>3.1. Nursing stations</b>					
61	Cupboard, lockable	-		1	B	
62	Desk	-		1	B	
63	Chair	-		4	B	
64	Equipment Cabinet	-		1	B	
65	Wastebin with lid	-		1	B	
	<b>3.2. Wards</b>					
66	Hospital bed, hospital model, two-sectioned, with mattress	-		36	A	Quantity will be decided depends on construction plan.
67	Hospital bed bednet, treated	-		5	C	
68	Infant cot	-		2	C	
69	Infant cot bednet, treated	-		2	C	
70	Hospital bed back rest	-		1	C	
71	Hospital bed cradle	-		4	A	
72	Hospital bed elevator	-		1	B	
73	Traction frame	-		1	C	
74	Bed-side screen	-		1	C	
75	Bed-side cabinet, hospital model	-		5	C	
76	Over-bed table	-		5	C	
77	Bed pan	-		1	C	
78	Urinal, male	-		1	C	
79	Sputum mug	-		1	C	
80	Thermometer, digital	-		2	A	
81	Thermometer jar	-		2	C	
82	Weighing scale, adult	-		1	A	
83	Salter scale	1		1	C	
84	Weighing trousers	1		1	C	
85	Stethoscope, binaural	-		2	A	
86	BP machine, adult	1		2	A	Old
87	BP machine, child	0		2	A	
88	Diagnostic set (otoscope and ophthalmoscope)	-		2	C	
89	Glucometer	0		2	A	
90	Rapid Diagnostic Test kits for malaria	-		1	C	
91	Trolley, medicine	-		2	A	
92	Autoclave, electric, small	0		1	C	Refer to 5.3 Sterilization equipment
93	Sterilizing drum, small	0		1	C	
94	Timer, 60 min	-		1	C	
95	Indicator, TST control spot	-		1	C	
96	Instrument tray, medium	-		1	C	
97	Instrument tray, large	-		1	C	
98	Dressing tray, medium	-		2	C	
99	Dressing trolley	-		2	C	
100	Dressing set	-		2	C	
101	Bowl, lotion, small	-		2	C	

**KANYAMA**

No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
102	Bowl, lotion, medium	-		3	C	
103	Bowl, lotion, large	-		2	C	
104	Drip stand	-		6	A	
105	Oxygen concentrator	1		2	A	Old
106	Oxygen cylinder	-		1	C	
107	Suction pump, foot operated	0		1	A	
108	Suction pump, electric	0		1	C	
Add	Pulse oximeter, finger type	0		2	A	
	<b>4. labour ward/maternity</b>					
	<i>4.1 Sister' office</i>					
109	Desk for Consulting staff	-		1	C	
110	Chair for Consulting staff	-		2	C	
111	Chair for patient	-		2	C	
112	Cupboard, lockable	-		1	C	
113	Wastebin with lid	-		1	C	
	<b>4.2 First stage room 2</b>					
114	Examination couch, gynecological	0		1	C	
115	Footstool, one-step	0		1	C	
116	Bed-side screen	0		1	C	
117	CTG machine	-	1	0	C	MDGi
118	Examination light	-	1	0	C	MDGi
119	Stethoscope, fetal, Pinard	2		2	A	Old
120	Fetal heart detector	-	1	0	C	MDGi
121	Vaginal speculum, small	-		2	B	Old
122	Vaginal speculum, medium	-		4	B	Old
123	Vaginal speculum, large	-		4	B	Old
124	RPR rotator	0		1	C	
Add	Hospital Bed	-		20	A	Quantity will be decided depends on construction plan.
	<b>4.3 Delivery room</b>					
125	Instrument cabinet	-		1	C	MDGi
126	Instrument trolley	-		2	C	MDGi
127	Delivery bed	4	8	0	C	MDGi
128	Drip stand	-		4	C	MDGi
129	Footstool, one-step	-		4	C	MDGi
130	Bed-side screen	-	6	0	C	MDGi
131	Operating stool, revolving	-		4	C	MDGi
132	Vaginal delivery /episiotomy set	-		8	C	MDGi
133	Kick-about bowl	-		2	C	MDGi
134	Manual vacuum aspiration (MVA) kit	-		5	C	MDGi
135	Vacuum extractor, manual	-		1	C	MDGi
136	Vacuum extractor, electrical	-		1	C	MDGi
137	Weighing scale, infant, beam type	-		1	C	MDGi
138	Wall clock	-		1	C	MDGi
139	Resuscitaire (Infant warmer)	1	1	0	C	MDGi
140	Neonatal incubator	1	2	0	C	MDGi
141	Suction pump, electric	-		1	C	MDGi
142	Suction pump, foot-operated	-	1	0	C	MDGi
Add	Fetal doppler	-		1	C	MDGi
Add	BP machine, adult	-		1	C	MDGi
	<b>4.4 Recovery room</b>					
143	Hospital bed, hospital model, two-sectioned, with mattress	-		2	C	
144	Infant cot with mattress	-		2	C	
145	Bed-side screen	-		1	C	
146	Bed-side cabinet, hospital model	-		2	C	
147	Over-bed table	-		2	C	
148	Bed pan	-		1	C	
149	Drip stand	-		1	C	
	<b>4.5 Postnatal ward</b>					
150	Hospital bed, hospital model, two-sectioned, with mattress	-		10	C	
151	Bednet, long lasting insecticide treated, for hospital bed	-		10	C	
152	Infant cot with mattress	-		2	C	

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No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
153	Bednet, long lasting insecticide treated, for hospital cot	-		2	C	
154	Bed-side screen	-		2	C	
155	Bed-side cabinet, hospital model	-		10	C	
156	Over-bed table	-		10	C	
157	Bed pan	-		1	C	
158	Phototherapy machine	-	1	0	C	MDGi
159	Oxygen concentrator	-	1	0	C	MDGi
160	Oxygen cylinder	-		4	C	
<b>4.6 Maternity ward</b>						
161	Vaginal speculum, small	-		1	A	
162	Vaginal speculum, medium	-		2	A	
163	Vaginal speculum, large	-		2	A	
164	Thermometer, digital	-		2	A	
165	Thermometer jar	-		2	C	
166	Weighing scale, infant, beam type	-		1	A	
167	Stethoscope, binaural	-		4	A	
168	BP machine, adult	-		2	A	
169	Glucometer	-		2	A	
170	Rapid Diagnostic Test kits for malaria	-		1	C	
171	Medicine trolley	-		2	A	
172	Autoclave, electric, medium	-		1	C	Refer to 5.3 Sterilization equipment
173	Sterilizing drum, small	-		2	C	
174	Sterilizing drum, medium	-		2	C	
175	Timer, 60 min	-		1	C	
176	Indicator, TST control spot	-		1	C	
177	Instrument tray, medium	-		1	C	
178	Instrument tray, large	-		1	C	
179	Dressing tray, medium	-		2	A	
180	Dressing trolley	-		2	A	
181	Dressing set	-		2	A	
182	Bowl, lotion, small	-		2	C	
183	Bowl, lotion, medium	-		2	C	
184	Bowl, lotion, large	-		2	C	
185	Drip stand	-		8	A	
Add	Hospital bed,(meet conform) hospital model, two-sectioned, with mattress	-		12	B	Quantity will be decided depends on construction plan.
Add	Bed-side cabinet, hospital model	-		12	B	Quantity will be decided depends on construction plan.
Add	Infant cot with mattress	-		5	B	Quantity will be decided depends on construction plan.
<b>5. Operating theatre</b>						
<b>5.1 theatre equipment</b>						
186	Ambu bag for adults (resuscitator)	0		1	A	
187	Ambu bag for children (resuscitator)	0		1	A	
188	Anesthetic machine	2		1	B	1 unit is old
189	Bowl, lotion, large	-		6	C	
190	BP machine, adult	-		2	A	
191	Bucket, stainless steel with cover	-		4	A	
192	Electro surgical unit	1		1	A	Old
193	Dangerous drugs, cabinet	0		1	C	
194	Defibrillator	1		1	C	
195	Dressing tray, large	-		3	C	
196	Dressing tray, medium	-		2	C	
197	Dressing tray, small	-		1	C	
198	Dressing trolley	-		1	C	
199	Drip stand	2		2	A	Old
200	Ear syringe	-		1	C	
201	Footstool, one-step	-		2	A	
202	Instrument cabinet	-		1	C	
203	Instrument tray, large	-		16	C	
204	Instrument trolley	-		2	C	
205	Kick-about bowl	0		6	C	
206	Laryngoscope set	-		2	A	
207	Mayo table	-		2	A	
208	Neonatal resuscitair	1		1	A	1 unit is old
209	Operating stools, revolving	0		2	A	

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No.	Items	Existing	MDGI	JICA Quantit y	Priority	Note
210	Operating table	1	1	0	C	MDGi
211	Operating-room light, fixed, ceiling mounted	1		2	A	1 unit is old
212	Operating-room light, portable, with stand	1		2	A	1 unit is old
213	Oxygen concentrator	0		3	A	
214	Oxygen cylinder	-		8	C	Out of scope
215	Patient trolley	1		2	A	Old
216	Pulse oximeter, separate	0		2	A	
217	Recovery bed	0		2	A	
218	Stand, single bowl	0		4	C	
219	Stetoscope, binaural	4		4	A	Old
220	Suction pump, electric	2		2	C	
221	Ventilator	0		1	C	
222	Vital signs monitor, portable	1		2	A	1 unit is old
223	Wall clock	0		1	C	
224	X-Ray film viewing box (negatoscope)	0		1	A	
Add	Medicine refrigerator	1		1	A	Old
	<b>5.2 Theatre instrument sets</b>					
225	Set, amputation	-		3	A	
226	Set, bilateral tubal ligation	-		3	A	
227	Set, caesarian section	-		6	A	Old
228	Set, decapitation	-		3	C	
229	Set, dilatation and curetage Set (D+C set)	-		3	A	
230	Set, general	-		3	C	
231	Set, laparotomy	-		3	A	
232	Set, minor surgery	-		3	A	
	<b>5.3 Sterilization equipment</b>					
233	Autoclave, electric, 400 liters	1		1	A	Old
234	Bed pan washer	0		1	A	
235	Sterilizing drum, large	-		4	A	
236	Sterilizing drum, medium	-		4	A	
237	Ultrasonic cleaner	0		1	C	
	<b>6. Dental unit</b>					
238	Bench top autoclave	1		1	A	Old
239	Dental amalgamator	0		1	C	
240	Dental chair	1		1	A	Old
241	Dental compressor	1		1	A	Old
242	Dental film processor or developer	1		1	A	Old
243	Dental instrument cabinet	0		1	A	
244	Dental instrument set	-		3	A	Old
245	Dental Instrument tray	0		2	C	
246	Dental light	0		1	C	Include in Dental chair
247	Dental light curing unit	0		1	A	
248	Dental treatment trolley	0		1	A	
249	Dental treatment unit	0		1	B	
250	Dental x-ray unit	1		1	A	Old
251	Dentist stool	0		1	A	
252	Ultrasonic dental scaler	0		1	A	
Add	Lead apron	0		1	A	
	<b>7. Pharmacy</b>					
253	20 ml medicine cup	-		1	A	
254	Drug cabinet, lockable	-		1	A	
255	Graduated glass measure	-		1	A	
256	Mixer	-		1	A	
257	Mortar and pestle	-		2	B	
258	Pharmacy balance	-		1	A	
259	Pharmacy heavy duty trolley	-		1	A	
260	Pharmacy refrigerator	-		1	A	
261	Tablet and capsule counter	-		1	A	
262	Tablet counting tray	-		1	A	
263	Vaccine refrigerator	-		1	B	
264	Water distiller	-		1	A	
265	Water filter	-		1	C	

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No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
<b>8. Laboratory</b>						
266	Anaerobic jar	-		1	B	
267	Analytical balance	-		1	A	
268	Autoclave for laboratory, medium	0		1	A	
269	Binocular microscope	-		1	A	
270	Blood bank refrigerator	0		1	A	
271	Bunsen burner	-		1	C	
272	CD4 counting machine	1		1	C	
273	Centrifuge, small	1		1	A	Old
274	Chemistry analyzer	1		1	C	
275	Differential counter	-		1	A	
276	Flammable liquid cabinet	-		1	A	
277	Hematology analyzer	1		1	C	
278	Hot air oven	-		1	A	
279	Hot plate, controlled temperature	-		1	A	
280	Laboratory incubator, medium	1		1	A	Old
281	Laboratory refrigerator/freezer	-		2	A	
282	Microhaematocrit centrifuge	0		1	A	
283	Micropipettes, automated	-		1	A	
284	pH meter	0		1	A	
285	Roller/mixer	-		1	A	
286	RPR rotator	-		1	A	
287	Spirit lamp	-		2	C	
288	Timer	-		2	A	
289	Voltex for CD4 counting	-		1	C	
290	Water bath	-		1	A	
291	Water distiller	1		1	A	Old
<b>9. Radiology department</b>						
292	Actinic marker	-		1	A	
293	Film processor, automatic	0		1	A	
294	Darkroom safety light holder	-		2	C	
295	Dryer for manual film processor	-		1	C	
296	Electrolyte Silver Recovery Kit	-		1	C	
297	Film hanger (set of five sizes)	-		4	C	
298	HSG kit	-		1	C	
299	Lead apron	-		1	A	
300	Lead gloves	-		1	C	
301	Film processor, manual	-		1	C	
302	Protective lead shield or screen	-		1	C	
303	Quality assurance kit	-		1	C	
304	Ultrasound scanner with printer	-		1	A	
305	X-ray film stationery grid	-		1	B	
306	X-Ray film viewing box (negatoscope)	0		1	A	
307	X-Ray loading bench (Film hopper)	0		1	A	High priority of MOH
308	X-ray unit, fixed	0		1	A	
309	X-ray unit, mobile	0		1	A	High priority of MOH
Add	Portable ultrasound scanner for Gynecology	0		1	A	
<b>10. Mortuary</b>						
310	20 liter bucket	-		1	C	
311	Autopsy saw	-		1	C	
312	Autopsy set	-		1	C	
313	Autopsy table	-		1	C	
314	Mortuary fridge/unit (4 trays)	-		1	C	
315	Mortuary trolley	-		1	C	
316	Organ table	-		1	C	
317	Spring balance	-		1	C	
<b>11. Ambulance</b>						
318	Ambulance	0		1	C	
<b>12. Maintenance</b>						
319	Maintenance Set	0		1	A	Include Oxygen analyzer, ECG sumilater

## EQUIPMENT LIST (Final draft)

A: High priority  
B: Middle priority  
C: Low priority

### CHAWAMA

No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
<b>1. OPD</b>						
<i>1.1 Screening and consultation rooms</i>						
3	Desk for Consulting staff	-		10	B	Quantity will be decided depends on construction plan.
4	Chair for Consulting staff	-		10	B	
5	Chair for patient	-		10	B	
6	Equipment Cabinet	-		10	B	
7	Wastebin with lid	-		10	B	
8	Examination couch, gynecological	-		1	A	
9	Examination couch without leg holders	-		4	A	
10	Bed-side screen	-		5	B	
11	Examination light	-		1	A	
12	Torch, medical, pen-sized	-		5	A	
13	Thermometer, digital	-		5	A	
14	Thermometer, mercury type	-		5	C	
15	Thermometer Jar	-		6	C	
16	Salter scale	-		1	A	
17	Weighing trousers	-		1	A	
18	Weighing scale, adult	-		1	A	
19	Stethoscope, binaural	-		5	A	
20	BP machine, adult	1		5	A	Old
21	BP machine, child	-		2	A	
22	Ear syringe	-		2	A	
23	Diagnostic set (otoscope and ophthalmoscope)	-		1	C	
24	Chart, vision-testing, Snellen type	-		1	A	
25	Patella hammer	-		1	A	
26	Vaginal speculum, small	-		2	A	
27	Vaginal speculum, medium	-		4	A	
28	Vaginal speculum, large	-		2	A	
29	Stethoscope, fetal, Pinard	-		1	C	
31	Suction pump, foot-operated	-		1	C	
32	Suction pump, electric	-		1	A	
33	Ambu bag for adults (resuscitator)	-		1	A	
34	Ambu bag for children (resuscitator)	-		1	A	
35	Medicine trolley	-		3	A	
Add	Pulse oximeter, finger type	-		2	A	
Add	X-Ray film viewing box, table top	0		2	A	
Add	Diagnostic set for Eye and ENT	-		1	A	
<i>1.2 Dressing and injection rooms</i>						
36	Autoclave, electric, small	-		1	C	Refer to 5.3 Sterilization equipment
37	Autoclave, non-electric, small (39 liters)	-		1	C	Refer to 5.3 Sterilization equipment
38	Sterilizing drum, small	-		2	C	Refer to 5.3 Sterilization equipment
39	Timer, 60 min	-		1	C	
40	Indicator, TST control spot	-		1	C	
41	Drainage set	-		3	A	
42	Dressing set	-		3	A	
43	Suturing set	-		3	A	
44	Instrument tray, medium	-		3	A	
45	Bowl, lotion, small	-		3	C	
46	Bowl, lotion, medium	-		3	C	
47	Bowl, lotion, large	-		3	C	
30	Drip stand	-		3	A	
<b>2: Casualty</b>						
1	Wheelchair	-		2	A	
2	Stretcher (Trolley)	-		2	A	
48	Hospital bed, hospital model, two-sectioned, with mattress	-		3	A	
49	Hospital bed bednet, treated	-		3	C	
50	Hospital bed cradle	-		1	A	

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No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
51	Bed-side screen	-		2	B	
52	Bed-side cabinet, hospital model	-		3	C	
53	Over-bed table	-		1	A	
54	Bed pan	-		1	A	
55	Urinal, male	-		1	A	
56	Sputum mug	-		1	C	
57	Drip stand	-		3	A	
58	Oxygen concentrator	-		2	A	
59	Suction pump, foot operated	-		1	C	
60	Suction pump, electric	-		1	A	
Add	Ambu Bag for Adults	-		1	A	
Add	Ambu Bag for Children	-		1	A	
Add	Diagnostic set	-		2	A	
Add	X-Ray film viewing box (negatoscope)	-		1	A	
<b>3. All wards, except maternity ward</b>						
<b>3.1. Nursing stations</b>						
61	Cupboard, lockable	-		1	C	
62	Desk	-		1	C	
63	Chair	-		4	C	
64	Equipment Cabinet	3		1	C	
65	Wastebin with lid	-		1	C	
<b>3.2. Wards</b>						
66	Hospital bed, hospital model, two-sectioned, with mattress	-		5	C	
67	Hospital bed bednet, treated	-		5	C	
68	Infant cot	-		2	C	
69	Infant cot bednet, treated	-		2	C	
70	Hospital bed back rest	-		1	B	
71	Hospital bed cradle	-		1	C	
72	Hospital bed elevator	-		1	B	
73	Traction frame	-		1	C	
74	Bed-side screen	-		1	B	
75	Bed-side cabinet, hospital model	-		5	C	
76	Over-bed table	-		5	C	
77	Bed pan	-		1	A	
78	Urinal, male	-		1	A	
79	Sputum mug	-		1	C	
80	Thermometer, digital	-		2	A	
81	Thermometer jar	-		2	C	
82	Weighing scale, adult	1		1	A	Out of order
83	Salter scale	-		1	C	
84	Weighing trousers	-		1	C	
85	Stethoscope, binaural	-		2	A	
86	BP machine, adult	-		2	A	
87	BP machine, child	-		1	A	
88	Diagnostic set (otoscope and ophthalmoscope)	-		2	C	
89	Glucometer	-		1	A	
90	Rapid Diagnostic Test kits for malaria	-		1	C	
91	Trolley, medicine	-		1	A	
92	Autoclave, electric, small	-		1	C	Refer to 5.3 Sterilization equipment
93	Sterilizing drum, small	-		1	C	Refer to 5.3 Sterilization equipment
94	Timer, 60 min	-		1	C	
95	Indicator, TST control spot	-		1	C	
96	Instrument tray, medium	-		1	C	
97	Instrument tray, large	-		1	C	
98	Dressing tray, medium	-		2	A	
99	Dressing trolley	-		2	A	
100	Dressing set	-		2	A	
101	Bowl, lotion, small	-		2	C	
102	Bowl, lotion, medium	-		3	C	
103	Bowl, lotion, large	-		2	C	
104	Drip stand	-		3	A	
105	Oxygen concentrator	1		2	A	



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No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
106	Oxygen cylinder	-		1	C	
107	Suction pump, foot operated	-		1	C	
108	Suction pump, electric	1		1	A	Old
Add	<i>Pulse oximeter, finger type</i>	-		2	A	
	<b>4. labour ward/maternity</b>					
	<i>4.1 Sister's office</i>					
109	Desk for Consulting staff	-		1	B	
110	Chair for Consulting staff	-		2	B	
111	Chair for patient	-		2	B	
112	Cupboard, lockable	1		1	B	Out of order
113	Wastebin with lid	-		1	B	
	<i>4.2 First stage room</i>					
114	Examination couch, gynecological	-	2	1	C	MDGi
115	Footstool, one-step	-		1	A	
116	Bed-side screen	-	2	1	C	MDGi
117	CTG machine	-	1	1	C	MDGi
118	Examination light	-		1	A	
119	Stethoscope, fetal, Pinard	-		2	A	
120	Fetal heart detector	-	4	0	C	MDGi
121	Vaginal speculum, small	-		2	A	
122	Vaginal speculum, medium	-		4	A	
123	Vaginal speculum, large	-		4	A	
124	RPR rotator	-		1	B	
	<i>4.3 Delivery room</i>					
125	Instrument cabinet	-		1	B	
126	Instrument trolley	-		2	A	
127	Delivery bed	3	5	4	C	MDGi
128	Drip stand	-		4	A	
129	Footstool, one-step	-		4	A	
130	Bed-side screen	-		1	C	
131	Operating stool, revolving	-	2	0	C	MDGi
132	Vaginal delivery/episiotomy set	-	9	0	C	MDGi
133	Kick-about bowl	-		2	B	
134	Manual vacuum aspiration (MVA) kit	-	8	0	C	MDGi
135	Vacuum extractor, manual	-		1	C	
136	Vacuum extractor, electrical	-		1	A	
137	Weighing scale, infant, beam type	-	9	0	C	MDGi
138	Wall clock	-		1	C	
139	Resuscitaire (Infant warmer)	1	1	0	C	MDGi
140	Neonatal incubator	1	1	0	C	MDGi, existing one is out of order
141	Suction pump, electric	1	1	0	C	MDGi, existing one is out of order
142	Suction pump, foot-operated	-		1	C	
Add	<i>Fetal doppler</i>	-	1	1	C	MDGi
Add	<i>BP machine, adult</i>	1		2	A	Old
	<i>4.4 Recovery room</i>					
143	Hospital bed, hospital model, two-sectioned, with mattress	-		2	C	
144	Infant cot with mattress	-		2	C	
145	Bed-side screen	-		1	C	
146	Bed-side cabinet, hospital model	-		2	C	
147	Over-bed table	-		2	C	
148	Bed pan	-		1	C	
149	Drip stand	-		1	C	
	<i>4.5 Postnatal ward</i>					
150	Hospital bed, hospital model, two-sectioned, with mattress	-		10	C	MDGi
151	Bednet, long lasting insecticide treated, for hospital bed	-		10	C	MDGi
152	Infant cot with mattress	-		2	C	MDGi
153	Bednet, long lasting insecticide treated, for hospital cot	-		2	C	MDGi
154	Bed-side screen	-		2	C	MDGi
155	Bed-side cabinet, hospital model	-		10	C	MDGi
156	Over-bed table	-		10	C	MDGi
157	Bed pan	-		1	C	MDGi

# CHAWAMA

No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
158	Phototherapy machine	-		1	C	MDGi
159	Oxygen concentrator	-	1	1	C	MDGi
160	Oxygen cylinder	-		4	C	MDGi
	<b>4.6 Maternity ward</b>					
161	Vaginal speculum, small	-		1	A	
162	Vaginal speculum, medium	-		2	A	
163	Vaginal speculum, large	-		2	A	
164	Thermometer, digital	-		2	A	
165	Thermometer jar	-		2	C	
166	Weighing scale, infant, beam type	-		1	A	
167	Stethoscope, binaural	-		4	A	
168	BP machine, adult	-		4	A	
169	Glucometer	-		2	A	
170	Rapid Diagnostic Test kits for malaria	-		1	C	
171	Medicine trolley	-		2	A	
172	Autoclave, electric, medium	1		1	C	Out of order. Refer to 5.3 Sterilization equipment
173	Sterilizing drum, small	-		2	C	
174	Sterilizing drum, medium	-		2	C	
175	Timer, 60 min	-		1	C	
176	Indicator, TST control spot	-		1	C	
177	Instrument tray, medium	-		1	C	
178	Instrument tray, large	-		1	C	
179	Dressing tray, medium	-		2	A	
180	Dressing trolley	-		2	A	
181	Dressing set	-		2	A	
182	Bowl, lotion, small	-		2	C	
183	Bowl, lotion, medium	-		2	C	
184	Bowl, lotion, large	-		2	C	
185	Drip stand	-		8	A	
Add	<i>Hospital bed, hospital model, two-sectioned, with mattress</i>	-		8	B	Quantity will be decided depends on construction plan.
Add	<i>Bed-side cabinet, hospital model</i>	-		8	B	
Add	<i>Infant cot with mattress</i>	-		4	B	
	<b>5. Operating theatre</b>					
	<b>5.1 theatre equipment</b>					
186	Ambu bag for adults (resuscitator)	-		1	A	
187	Ambu bag for children (resuscitator)	-		1	A	
188	Anesthetic machine	3		1	A	2 units are out of order
189	Bowl, lotion, large	-		6	C	
190	BP machine, adult	-		2	A	
191	Bucket, stainless steel with cover	-		4	A	
192	Electro surgical unit	0		1	A	
193	Dangerous drugs, cabinet	-		1	B	
194	Defibrillator	1		1	C	
195	Dressing tray, large	-		3	A	
196	Dressing tray, medium	-		2	A	
197	Dressing tray, small	-		1	A	
198	Dressing trolley	-		1	A	
199	Drip stand	-	3	2	C	MDGi
200	Ear syringe	-		1	C	
201	Footstool, one-step	-		2	A	
202	Instrument cabinet	-		1	B	
203	Instrument tray, large	-		16	C	
204	Instrument trolley	-		2	C	
205	Kick-about bowl	-		6	C	
206	Laryngoscope set	-	2	2	C	MDGi
207	Mayo table	-		2	A	
208	Neonatal resuscitaire	-	4	4	C	MDGi
209	Operating stools, revolving	-		2	A	
210	Operating table	2	1	1	C	MDGi
211	Operating-room light, fixed, ceiling mounted	1		2	A	Out of order
212	Operating-room light, portable, with stand	1		2	A	Out of order
213	Oxygen concentrator	1		2	A	

9/2

one

# CHAWAMA

No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
214	Oxygen cylinder	-		8	C	
215	Patient trolley	-		2	A	
216	Pulse oximeter, separate	-		2	A	
217	Recovery bed	-		2	A	
218	Stand, single bowl	-		4	C	
219	Stethoscope, binaural	-		4	A	
220	Suction pump, electric	2		2	C	
221	Ventilator	0		1	C	
222	Vital signs monitor, portable	-		2	A	
223	Wall clock	-		1	C	
224	X-Ray film viewing box (negatoscope)	-		1	A	
Add	Medicine refrigerator	-		1	A	
	<b>5.2 Theatre instrument sets</b>					
225	Set, amputation	-		3	A	
226	Set, bilateral tubal ligation	-		3	A	
227	Set, caesarian section	-		6	A	
228	Set, decapitation	-		3	C	
Add	Set, Hysterectomy	0		1	A	
229	Set, dilatation and curetage Set (D+C set)	-		3	A	
230	Set, general	-		3	C	
231	Set, laparotomy	-		3	A	
232	Set, minor surgery	-		3	A	
	<b>5.3 Sterilization equipment</b>					
233	Autoclave, electric, 400 liters	-		1	A	
234	Bed pan washer	-		1	A	
235	Sterilizing drum, large	-		4	A	
236	Sterilizing drum, medium	-		4	A	
237	Ultrasonic cleaner	-		1	C	
	<b>6. Dental unit</b>					
238	Bench top autoclave	1		1	A	Out of order
239	Dental amalgamator	-		1	C	
240	Dental chair	1		1	A	Old
241	Dental compressor	-		1	A	
242	Dental film processor or developer	-		1	A	
243	Dental instrument cabinet	1		1	A	Old
244	Dental instrument set	-		3	A	
245	Dental Instrument tray	-		2	C	
246	Dental light	-		1	C	
247	Dental light curing unit	-		1	A	
248	Dental treatment trolley	-		1	A	
249	Dental treatment unit	-		1	B	
250	Dental x-ray unit	1		1	A	Out of order
251	Dentist stool	-		1	A	
252	Ultrasonic dental scaler	-		1	A	
Add	Lead apron	-		1	A	
	<b>7. Pharmacy</b>					
253	20 ml medicine cup	-		1	A	
254	Drug cabinet, lockable	-		1	A	
255	Graduated glass measure	-		1	A	
256	Mixer	-		1	A	
257	Mortar and pestle	-		2	A	
258	Pharmacy balance	-		1	A	
259	Pharmacy heavy duty trolley	-		1	A	
260	Pharmacy refrigerator	-		1	A	
261	Tablet and capsule counter	-		1	A	
262	Tablet counting tray	-		1	A	
263	Vaccine refrigerator	2		1	B	Located in MCH
264	Water distiller	-		1	A	
265	Water filter	-		1	C	
	<b>8. Laboratory</b>					
266	Anaerobic jar	-		1	A	
267	Analytical balance	-		1	A	
268	Autoclave for laboratory, medium	-		1	A	
269	Binocular microscope	3		1	A	2 units are old

*One*

# CHAWAMA

No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
270	Blood bank refrigerator	-		1	A	
271	Bunsen burner	-		1	A	
272	CD4 counting machine	1		1	C	
273	Centrifuge, small	1		1	A	Old
274	Chemistry analyzer	2		1	C	
275	Differential counter	-		1	B	
276	Flammable liquid cabinet	-		1	B	
277	Hematology analyzer	1		1	C	
278	Hot air oven	-		1	B	
279	Hot plate, controlled temperature	1		1	B	Old
280	Laboratory incubator, medium	-		1	A	
281	Laboratory refrigerator/freezer	-		2	A	
282	Microhaematocrit centrifuge	1		1	B	Out of order
283	Micropipettes, automated	-		1	A	
284	pH meter	-		1	A	
285	Roller/mixer	-		1	B	
286	RPR rotator	-		1	A	
287	Spirit lamp	-		2	B	
288	Timer	-		2	A	
289	Voltex for CD4 counting	-		1	C	
290	Water bath	1		1	A	Old
291	Water distiller	-		1	A	
	<b>9. Radiology department</b>					
292	Actinic marker	-		1	A	
293	Film processor, automatic	-		1	A	
294	Darkroom safety light holder	-		2	C	
295	Dryer for manual film processor	-		1	C	
296	Electrolyte Silver Recovery Kit	-		1	C	
297	Film hanger (set of five sizes)	-		4	C	
298	HSG kit	-		1	C	
299	Lead apron	-		1	A	
300	Lead gloves	-		1	C	
301	Film processor, manual	-		1	C	
302	Protective lead shield or screen	-		1	C	
303	Quality assurance kit	-		1	C	
304	Ultrasound scanner with printer	-		1	A	
305	X-ray film stationery grid	-		1	B	
306	X-Ray film viewing box (negatoscope)	-		1	A	
307	X-Ray loading bench (Film hopper)	-		1	A	High priority of MOH
308	X-ray unit, fixed	-		1	A	
309	X-ray unit, mobile	-		1	A	High priority of MOH
Add	Portable ultrasound scanner for Gynecology	-		1	A	
	<b>10. Mortuary</b>					
310	20 liter bucket	-		1	C	
311	Autopsy saw	-		1	C	
312	Autopsy set	-		1	C	
313	Autopsy table	-		1	C	
314	Mortuary fridge/unit (4 trays)	-		1	C	
315	Mortuary trolley	-		1	C	
316	Organ table	-		1	C	
317	Spring balance	-		1	C	
	<b>11. Ambulance</b>					
318	Ambulance	-		1	C	
	<b>12. Maintenance</b>					
319	Maintenance Set	-		1	A	
	<b>13. Physiotherapy</b>					
Add	Therapeutic Ultrasound Machine	0		2	A	
Add	Infra-red Irradiation Machine	1		2	A	
Add	Short wave diathermy	0		1	A	
Add	Infra red, Lumber sacral	0		1	A	
Add	Quadriceps Bench	0		1	A	
Add	Treadmill Machine	1		2	A	
Add	Ultraviolet, Limp	0		2	A	
Add	Treatment couch	2		3	A	

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ANC

**CHAWAMA**

No.	Items	Existing	MDGi	JICA Quantit y	Priority	Note
Add	Elliptical	2		2	A	
Add	Electrical Cervical/Lumber traction	0		2	A	
Add	Gathre Smith suspension	0		1	B	
Add	Stationary bike	2		2	A	
Add	Wave therapy	0		1	A	Paraffin



## JAPANESE GRANT

The Japanese Grant (hereinafter referred to as the "Grant") is non-reimbursable fund provided to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. The Grant is not supplied through the donation of materials as such.

Based on a JICA law which was entered into effect on October 1, 2008 and the decision of the GOJ, JICA has become the executing agency of the Japanese Grant for Projects for construction of facilities, purchase of equipment, etc.

### 1. Grant Procedures

The Grant is supplied through following procedures :

- Preparatory Survey
  - The Survey conducted by JICA
- Appraisal & Approval
  - Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Authority for Determining Implementation
  - The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as "the G/A")
  - Agreement concluded between JICA and a recipient country
- Implementation
  - Implementation of the Project on the basis of the G/A

### 2. Preparatory Survey

#### (1) Contents of the Survey

The aim of the preparatory Survey is to provide a basic document necessary for the appraisal of the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of relevant agencies of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Scheme from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.



- Preparation of an outline design of the Project.
- Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant project. The Outline Design of the Project is confirmed based on the guidelines of the Japanese Grant scheme.

JICA requests the Government of the recipient country to take whatever measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country based on the Minutes of Discussions.

## (2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (a) consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

## (3) Result of the Survey

JICA reviews the Report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the appropriateness of the Project.

## 3. Japanese Grant Scheme

### (1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the recipient country to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles, in accordance with the E/N, to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

### (2) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the recipient country to continue to work on the Project's implementation after the E/N and G/A.

### (3) Eligible source country



Under the Grant, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. The Grant may be used for the purchase of the products or services of a third country, if necessary, taking into account the quality, competitiveness and economic rationality of products and services necessary for achieving the objective of the Project. However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm are limited to "Japanese nationals", in principle.

(4) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals, in principle. Those contracts shall be verified by JICA. This "Verification" is deemed necessary to fulfill accountability to Japanese taxpayers.

(5) Major undertakings to be taken by the Government of the Recipient Country

In the implementation of the Grant Project, the recipient country is required to undertake such necessary measures as Annex. The Japanese Government requests the Government of the recipient country to exempt all customs duties, internal taxes and other fiscal levies such as VAT, commercial tax, income tax, corporate tax, resident tax, fuel tax, but not limited, which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract, since the Grant fund comes from the Japanese taxpayers.

(6) "Proper Use"

The Government of the recipient country is required to maintain and use properly and effectively the facilities constructed and the equipment purchased under the Grant, to assign staff necessary for this operation and maintenance and to bear all the expenses other than those covered by the Grant.

(7) "Export and Re-export"

The products purchased under the Grant should not be exported or re-exported from the recipient country.

(8) Banking Arrangements (B/A)

a) The Government of the recipient country or its designated authority should open an account under the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"), in principle. JICA will execute the Grant by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

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

(9) Authorization to Pay (A/P)





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

(10) Environmental and Social Considerations

The Government of the recipient country must carefully consider environmental and social impacts by the Project and must comply with the environmental regulations of the recipient country and JICA Guidelines for Environmental and Social Consideration (April, 2010).

(11) Monitoring

The Government of the recipient country must take their initiative to carefully monitor the progress of the Project in order to ensure its smooth implementation as part of their responsibility in the G/A, and must regularly report to JICA about its status by using the Project Monitoring Report (PMR).

(12) Safety Measures

The Government of the recipient country must ensure that the safety is highly observed during the implementation of the Project.

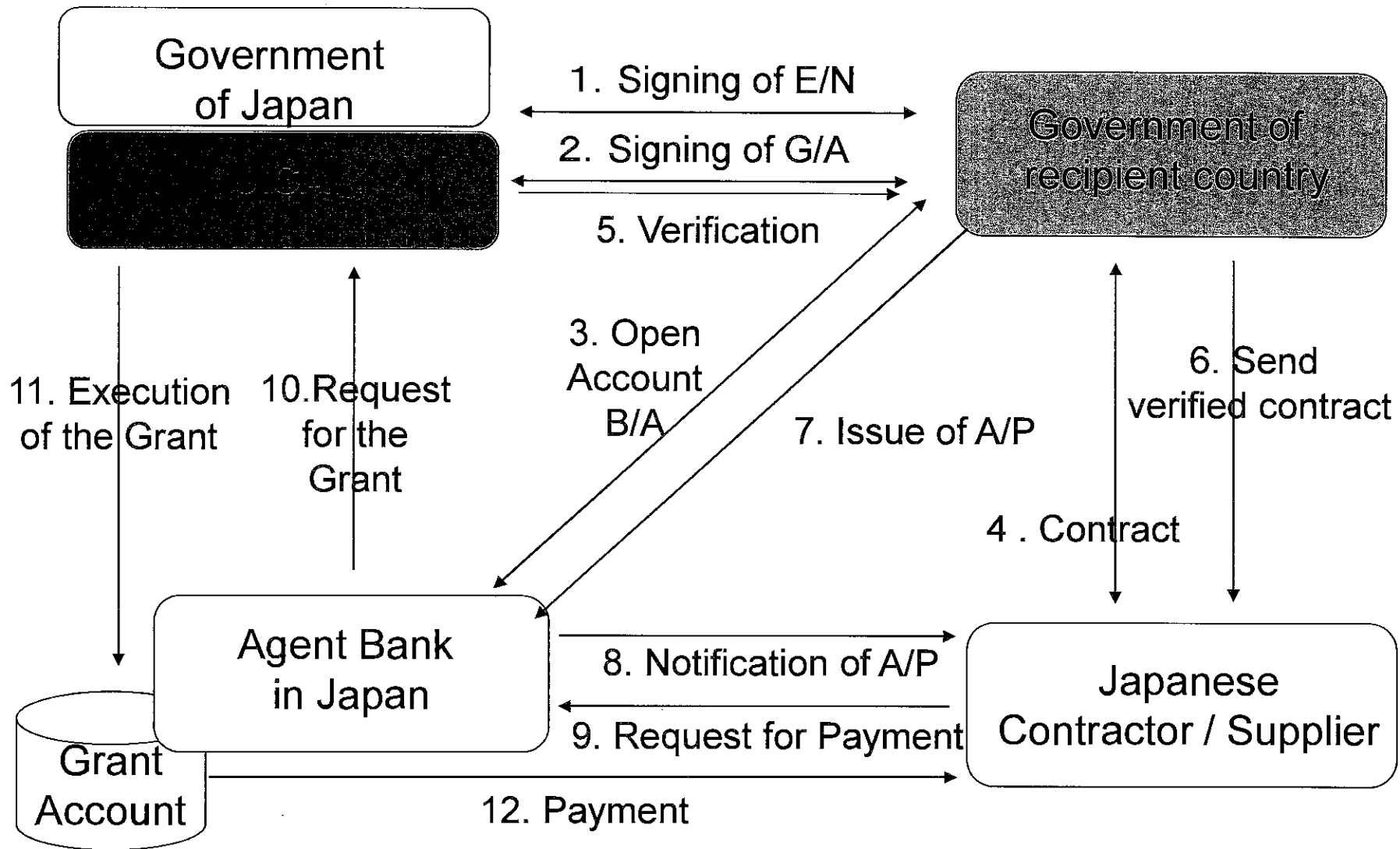


FLOW CHART OF JAPANESE GRANT PROCEDURES

Stage	Flow & Works	Recipient Government	Japanese Government	JICA	Consultant	Contract	Others
Application	<p>Request</p> <p>↓</p> <p>Screening of Project → Evaluation of the request → *if necessary Project Identification Survey*</p>						
Project Formulation & Preparation	<p>Preparatory Survey</p> <p>Preliminary Survey* → Field Survey, Examination and Reporting → *if necessary</p> <p>↓</p> <p>Outline Design → Selection &amp; Contracting of Consultant by Proposal → Field Survey, Examination and Reporting</p> <p>Explanation of Draft Survey Report → Final Report</p>						
Appraisal & Approval	<p>Appraisal of Project</p> <p>↓</p> <p>Inter Ministerial Consultation</p> <p>↓</p> <p>Presentation of Draft Notes</p> <p>↓</p> <p>Approval by the Cabinet</p>						
Implementation	<p>E/N and G/A (E/N: Exchange of Notes) (G/A: Grant Agreement)</p> <p>↓</p> <p>Banking Arrangement (A/P: Authorization to Pay)</p> <p>↓</p> <p>Consultant Contract → Verification → Issuance of A/P</p> <p>Detailed Design &amp; Tender Documents → Approval by Recipient Government → Preparation for Tendering</p> <p>↓</p> <p>Tendering &amp; Evaluation</p> <p>↓</p> <p>Procurement /Construction Contract → Verification → A/P</p> <p>↓</p> <p>Construction → Completion Certificate → A/P</p> <p>↓</p> <p>Operation → Post Evaluation Study</p>						
Evaluation & Follow up	<p>Ex-post Evaluation → Follow up</p>						

Amc

# Financial Flow of Grant Aid (A/P Type)



*Paul*

## Major Undertakings to be taken by Each Government

### 1. Major Undertakings to be taken by Recipient Government

#### 1-1. Before the Tender

NO	Items	Deadline	In charge	Cost	Ref.
1	To open Bank Account (Banking Arrangement (B/A))	Within 1 month after G/A	MOF		
2	To implement Environmental Impact Assessment (EIA)	Before start of the construction	MOH		
3	To secure the following lands (Chipata, Kanyama, Chawama) <ol style="list-style-type: none"> <li>1) Project sites</li> <li>2) Construction vehicles routes</li> <li>3) Temporary construction yard and stock yard near the Project area</li> </ol>	Before notice of the tender document	MOH		
4	To clear and level and reclaim the following sites <ol style="list-style-type: none"> <li>1) Existing facilities               <p>Chipata: Male circumcision, TB and ultrasound building (except for X-ray), TB shelter, chlorine building, container, trees, part of boundary wall, some walls and underground foundations</p> <p>Kanyama: 4 staff houses, medicine storage, septic tank, trees, part of boundary wall, fences for staff houses</p> <p>Chawama: Post office, ATM, play ground seats, medicine storage, generator, guard house, mortuary, Incinerator, some underground foundations, trees, some parts of boundary wall, community well</p> <p>Note that necessary measures to prevent negative environmental and human influence caused by asbestos which is likely contained in structural components of 4 staff houses in Kanyama project site must be taken place when the houses are demolished.</p> </li> <li>2) Remove utilities (Chipata, Kanyama, Chawama)               <p>Existing electrical power cable, telephone line, water pipe, sewer line crossing the project sites</p> </li> </ol>	Before signing of construction contract	MOH		
5	To construct the following facilities <p>Chipata : Gate and guard house</p> <p>Chawama : Gate, guard house and walls facing to main road</p>	Before signing of construction contract	MOH		
6	To obtain the planning, zoning, building permit	Before notice of the tender document	MOH		
7	To submit the result of DD	End of DD	MOH		

## 1-2. During the Project Implementation

NO	Items	Deadline	In charge	Cost	Ref.
1	To bear the following commissions to a bank of Japan for the banking services based upon the B/A				
	1) Advising commission of A/P	Within 1 month after the signing of the contract	MOH		
	2) Payment commission for A/P	Every payment	MOF		
2	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country				
	1) Tax exemption and customs clearance of the products at the port of disembarkation	During the Project	MOH (Procurement)		
	2) Internal transportation from the port of disembarkation to the project site	During the Project	Contractor		
3	To accord Japanese nationals and/or physical persons of third countries whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work	During the Project	MOH		
4	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the country of the Recipient with respect to the purchase of the Products and/or the Services be exempted Such customs duties, internal taxes and other fiscal levies mentioned above include VAT, commercial tax, income tax and corporate tax of Japanese nationals, resident tax, fuel tax, but not limited, which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract	During the Project	MOH		
5	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment	During the Project	MOH		
6	To submit Project Monitoring Report.	Every month	MOH		MD
7	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities (Chipata, Kanyama, Chawama)				
	1) Electricity - Power supply to new substation and metering devices for the Project	6 months before completion of the construction	MOH		
	2) Water Supply - Water supply to the project site and meter installation	6 months before completion of the construction	MOH		
	3) Drainage - Connection work of on-site storm water drainage to existing off-site storm water open ditches	6 months before completion of the construction	MOH		
	4) Telephone System - Telephone cabling - Provide telephone main trunk line to the main distribution frame/panel (MDF)	6 months before completion of the construction	MOH		

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**1-3. After the Project**

NO	Items	Deadline	In charge	Cost	Ref.
1	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid 1) Allocation of maintenance cost 2) Operation and maintenance structure 3) Routine check/Periodic inspection 4) Allocation of sufficient staff appropriately	After completion of the construction	MOH		
2	To provide General furniture, Linen and curtain	After completion of the construction	MOH		
3	To move to new facilities	After completion of the construction	MOH		
4	To construct Exterior Work (planting, etc.)	After completion of the construction	MOH		

(B/A: Banking Arrangement, A/P: Authorization to pay, N/A: Not Applicable)




## 2. Major Undertakings to be covered by the Japanese Grant

NO	Items	Deadline	Cost Estimated (Million Japanese Yen)*	
1	To construct the facilities (Improvement of hospitals)			
	1) To ensure prompt unloading and customs clearance in recipient country			
	a) Tax exemption and customs clearance of the products Marine(Air)			
	b) Internal transportation to the project site			
	2) To construct access roads and storm drainage ditch and exterior works			
	a) Within the project site			
	3) To construct the temporary building for construction			
	4) To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities			
	a) Electricity			
	- The drop wiring and internal wiring within the project site			
	- The main circuit breaker and transformer			
	- Piping to the main circuit breaker from site boundary, including manholes and handholes			
	- Branch breaker and piping system to existing main distribution panel within the project site			
	b) Water Supply			
	- Provide on-site facilities with tank, elevated water tower, water reservoir, water supply to new buildings			
	- Provide water supply capacity and piping to existing facilities within the project site			
	c) Drainage			
	- The drainage system ( for toilet sewer, ordinary waste, storm drainage and others ) within the project site			
	d) Telephone System			
	- Provide wiring on-site and for new buildings			
	- Provide on-site piping and hand hole			
	e) Medical Furniture and Equipment			
	- Curtain rails and medical curtains			
	- Medical furniture and fixed furniture			
	- Supply and installation of medical equipment			
2	To implement detailed design, tender support and construction supervision (Consultant)			
3	Contingencies			
	Total			

\*; The cost estimates are provisional. This is subject to the approval of the Government of Japan.

**Project Monitoring Report**  
**on**  
**Project Name**  
**Grant Agreement No. XXXXXXXX**  
**20XX, Month**

**Organization Information**

1) Authority (Signer of the G/A)	_____ Person in Charge _____ (Division) _____ Contacts      Address: _____ _____ Phone/FAX: _____ _____ Email: _____
<b>Executing Agency</b>	_____ Person in Charge _____ (Division) _____ Contacts      Address: _____ _____ Phone/FAX: _____ _____ Email: _____
<b>Line Agency</b>	_____ Person in Charge _____ (Division) _____ Contacts      Address: _____ _____ Phone/FAX: _____ _____ Email: _____

**Outline of Grant Agreement:**

<b>Source of Finance</b>	Government of Japan: Not exceeding JPY _____ mil. Government of (_____): _____
<b>Project Title</b>	
<b>E/N</b>	Signed date: Duration:
<b>G/A</b>	Signed date: Duration:

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*and*



**1: Project Description**

**1-1 Project Objective**

--

**1-2 Necessity and Priority of the Project**

- Consistency with development policy, sector plan, national/regional development plans and demand of target group and the recipient country.

--

**1-3 Effectiveness and the indicators**

- Effectiveness by the project

Quantitative Effect (Operation and Effect indicators)		
Indicators	Original (Yr      )	Target (Yr      )
Qualitative Effect		

**2: Project Implementation**

**2-1 Project Scope**

Table 2-1-1a: Comparison of Original and Actual Location

<b>Location</b>	<b>Original:</b> (M/D) Attachment(s):Map	<b>Actual:</b> (PMR) Attachment(s):Map
-----------------	---	---

Table 2-1-1b: Comparison of Original and Actual Scope

<b>Items</b>	<b>Original</b>	<b>Actual</b>
(M/D)	(M/D)	(PMR)

*(Handwritten signature)*

*(Handwritten signature)*

'Soft component' shall be included in 'Items'.	Please state not only the most updated schedule but also other past revisions chronologically.
--	--

**2-1-2 Reason(s) for the modification if there have been any.**

(PMR)

**2-2 Implementation Schedule**

**2-2-1 Implementation Schedule**

Table 2-2-1: Comparison of Original and Actual Schedule

Items	Original		Actual
	DOD	G/A	
<i>[M/D]</i>  'Soft component' shall be stated in the column of 'Items'.  Project Completion Date*	<i>(M/D)</i>		(PMR) As of (Date of Revision)  Please state not only the most updated schedule but also other past revisions chronologically.

\*Project Completion was defined as \_\_\_\_\_ at the time of G/A.

**2-2-2 Reasons for any changes of the schedule, and their effects on the project.**

**2-3 Undertakings by each Government**

**2-3-1 Major Undertakings**

See Attachment 2.

**2-3-2 Activities**

See Attachment 3.

**2-3-3 Report on RD**

See Attachment 4.



*Due*

2-4 Project Cost  
2-4-1 Project Cost

Table 2-4-1a Comparison of Original and Actual Cost by the Government of Japan

(Confidential until the Tender)

Items			Cost (Million Yen)	
	Original	Actual	Original	Actual
Construction Facilities (or Equipment)	'Soft component' shall be included in 'Items'.			Please state not only the most updated schedule but also other past revisions chronologically.
Consulting Services	- Detailed design - Procurement Management - Construction Supervision			
Total				

Note: 1) Date of estimation:  
2) Exchange rate: 1 US Dollar = Yen

Table 2-4-1b Comparison of Original and Actual Cost by the Government of XX

Items	Cost (Million USD)
-------	-----------------------

	Original	Actual	Original	Actual
				Please state not only the most updated schedule but also other past revisions chronologically.
Total				

Note: 1) Date of estimation:  
2) Exchange rate: 1 US Dollar = (local currency)

**2-4-2** Reason(s) for the wide gap between the original and actual, if there have been any, the remedies you have taken, and their results.

(PMR)

**2-5 Organizations for Implementation**

**2-5-1 Executing Agency:**

- Organization's role, financial position, capacity, cost recovery etc,
- Organization Chart including the unit in charge of the implementation and number of employees.

**Original:** (M/D)

**Actual, if changed:** (PMR)

*(Handwritten signature)*

*(Handwritten signature)*

## 2-6 Environmental and Social Impacts

- The results of environmental monitoring as attached in Attachment 5 in accordance with Schedule 4 of the Grant Agreement.
- The results of social monitoring as attached in Attachment 5 in accordance with Schedule 4 of the Grant Agreement.
- Information on the disclosed results of environmental and social monitoring to local stakeholders, whenever applicable.

## 3: Operation and Maintenance (O&M)

### 3-1 O&M and Management

- Organization chart of O&M
- Operational and maintenance system (structure and the number, qualification and skill of staff or other conditions necessary to maintain the outputs and benefits of the project soundly, such as manuals, facilities and equipment for maintenance, and spare part stocks etc)

Original: (M/D)

Actual: (PMR)

### 3-2 O&M Cost and Budget

- The actual annual O&M cost for the duration of the project up to today, as well as the annual O&M budget.

Original: (M/D)

## 4: Precautions (Risk Management)

- Risks and issues, if any, which may affect the project implementation, outcome, sustainability and planned countermeasures to be adapted are below.

Original Issues and Countermeasure(s): (M/D)



Potential Project Risks	Assessment
1.	Probability: H/M/L
(Description of Risk)	Impact: H/M/L
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action during the Implementation:
	Contingency Plan (if applicable):
2.	Probability: H/M/L
(Description of Risk)	Impact: H/M/L
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action during the Implementation:
	Contingency Plan (if applicable):
3.	Probability: H/M/L
(Description of Risk)	Impact: H/M/L
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action during the Implementation:
	Contingency Plan (if applicable):
<b>Actual issues and Countermeasure(s)</b>	
(PMR)	

*Dul*

**5: Evaluation at Project Completion and Monitoring Plan**

**5-1 Overall evaluation**

Please describe your overall evaluation on the project.

**5-2 Lessons Learnt and Recommendations**

Please raise any lessons learned from the project experience, which might be valuable for the future assistance or similar type of projects, as well as any recommendations, which might be beneficial for better realization of the project effect, impact and assurance of sustainability.

**5-3 Monitoring Plan for the Indicators for Post-Evaluation**

Please describe monitoring methods, section(s)/department(s) in charge of monitoring, frequency, the term to monitor the indicators stipulated in 1-3.

Attachment

1. Project Location Map
2. Undertakings to be taken by each Government
3. Monthly Report
4. Report on RD
5. Environmental Monitoring Form / Social Monitoring Form
6. Monitoring sheet on price of specified materials (Quarterly)
7. Report on Proportion of Procurement (Recipient Country, Japan and Third Countries)  
(Final Report Only)





Monitoring sheet on price of specified materials

1. Initial Conditions (Confirmed)

	Items of Specified Materials	Initial Volume A	Initial Unit Price (¥) B	Initial total Price C=A×B	1% of Contract Price D	Condition of payment	
						Price (Decreased) E=C-D	Price (Increased) F=C+D
1	Item 1	●●t	●	●	●	●	●
2	Item 2	●●t	●	●	●		
3	Item 3						
4	Item 4						
5	Item 5						

2. Monitoring of the Unit Price of Specified Materials

(1) Method of Monitoring : ●●

(2) Result of the Monitoring Survey on Unit Price for each specified materials

	Items of Specified Materials	1st month, 2015 ●	2nd month, 2015 ●	3rd month, 2015 ●	4th	5th	6th
1	Item 1						
2	Item 2						
3	Item 3						
4	Item 4						
5	Item 5						

(3) Summary of Discussion with Contractor (if necessary)

-  
-  
-

Report on Proportion of Procurement (Recipient Country, Japan and Third Countries)

(Actual Expenditure by Construction and Equipment each)

	Domestic Procurement (Recipient Country) A	Foreign Procurement (Japan) B	Foreign Procurement (Third Countries) C	Total D
Construction Cost	(A/D%)	(B/D%)	(C/D%)	
Direct Construction Cost	(A/D%)	(B/D%)	(C/D%)	
others	(A/D%)	(B/D%)	(C/D%)	
Equipment Cost	(A/D%)	(B/D%)	(C/D%)	
Design and Supervision Cost	(A/D%)	(B/D%)	(C/D%)	
Total	(A/D%)	(B/D%)	(C/D%)	

**MINUTES OF DISCUSSIONS**  
**ON ADDITIONAL PREPARATORY SURVEY**  
**ON THE PROJECT FOR UPGRADING OF LUSAKA HEALTH CENTRES TO**  
**DISTRICT HOSPITALS PHASE 2**

After the completion of the Preparatory Survey on the Project for Upgrading of Lusaka Health Centers to District Hospitals Phase 2 (hereinafter referred to as "the Project") in February to March 2016, Japan International Cooperation Agency (hereinafter referred to as "JICA") has conducted a series of internal works. During the work process, JICA found some important issues which required dispatch of the Additional Survey Team to the Republic of Zambia (hereinafter referred to as "Zambia").

JICA sent the Additional Team for Further Discussion (hereinafter referred to as "the Team") to Zambia, headed by Dr. Hiroshi Takenaka, Senior Advisor in Health, Human Development Department JICA, and was scheduled to stay in the country from 5<sup>th</sup> to 10<sup>th</sup> June, 2016.

The Team held a series of discussions with the officials concerned from the Government of Zambia. In the course of the discussions, both sides have confirmed the main items described in the attached sheets. The Team will proceed to further works.

Lusaka, 10<sup>th</sup> June, 2016



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Dr. Hiroshi Takenaka  
Leader  
Preparatory Survey Team  
Japan International Cooperation Agency



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Dr. Peter Mwaba  
Permanent Secretary  
Ministry of Health  
The Republic of Zambia

## ATTACHMENT

### 1. Revision of construction area of Chawama site

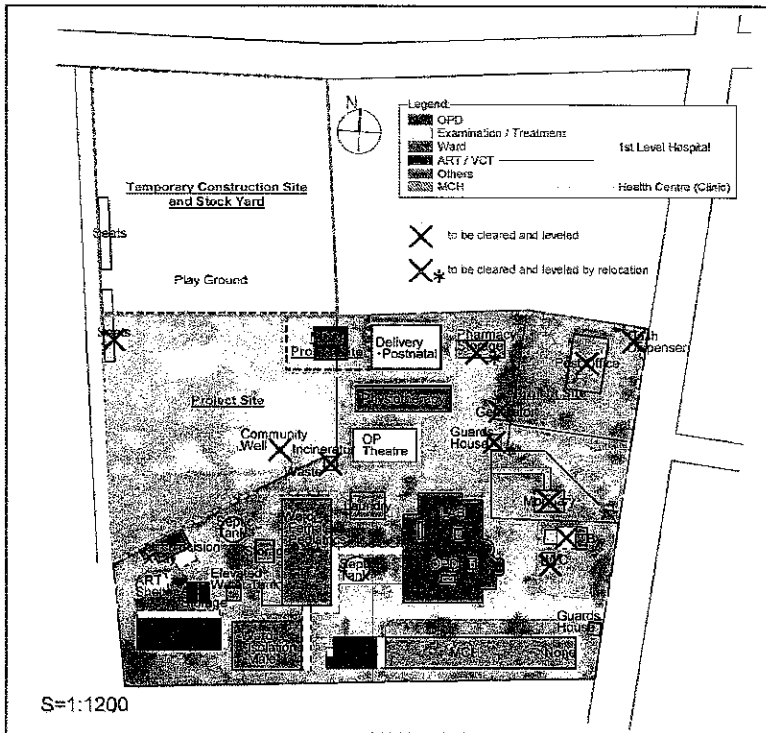
Due to the difficulty in securing land (playground) for construction, JICA has proposed a revised construction area, which includes all the components previously agreed. Zambia agreed with new idea which is shown in Annex-1.

### 2. Maintenance service of Medical Equipment

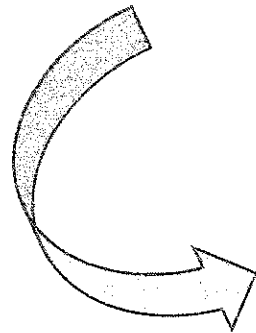
During the previous survey period, both sides had agreed that the project will provide maintenance service for general X-ray unit, Ultrasound scanner and Anesthetic machine for three years. Internal survey by JICA has revealed that provision of two year on-call based maintenance service after one-year warranty period will be difficult in current circumstance. Zambia accepted that the project will at least provide maintenance service for medical equipment mentioned above for one-year including warranty. JICA will continue to study any possibility to cover additional maintenance service for medical equipment mentioned above.

Annex-1      Location Map of Project Site; Chawama





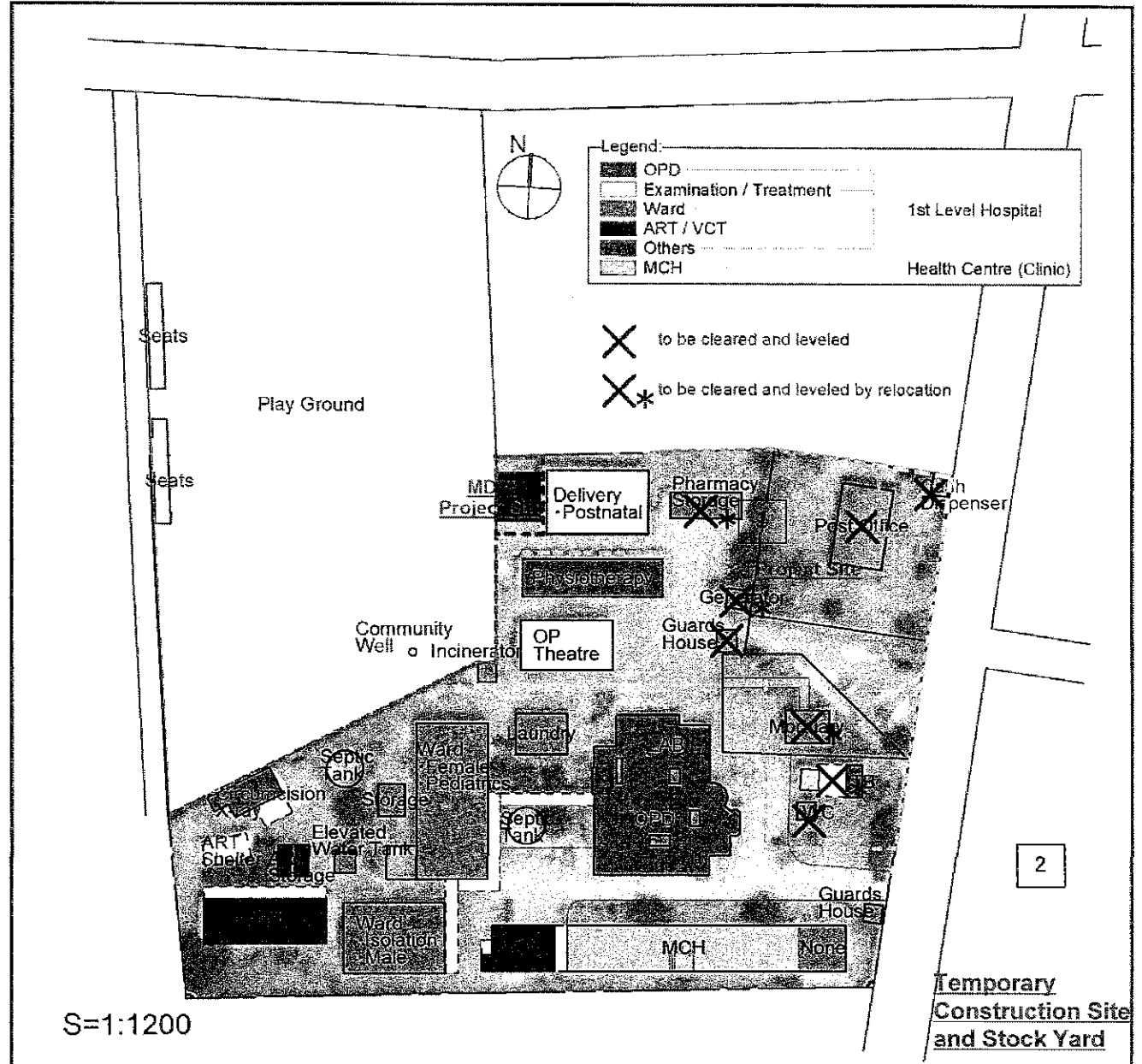
• As Minutes signed on 3<sup>rd</sup> March, 2016



★ Further confirmation

1. Expansion for new buildings is limited to Post Office area. Post Office will move out with cash dispensary in August 2016.
2. Use of some part of market place in front of main gate as temporary stockyard for construction.

py



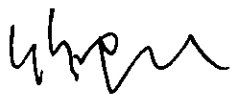
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**Minutes of Discussions**  
**on the Preparatory Survey for the Project for**  
**Upgrading of Lusaka Health Centres to Level 1 Hospitals**  
**(Explanation on Draft Preparatory Survey Report)**

With reference to the minutes of discussions signed between Ministry of Health, the Republic of Zambia (hereinafter referred to as "MOH") and the Japan International Cooperation Agency (hereinafter referred to as "JICA") on 3<sup>rd</sup> March, 2016 and in response to the request from the Government of the Republic of Zambia (hereinafter referred to as "Zambia") dated 16<sup>th</sup> July, 2014, JICA dispatched the Preparatory Survey Team (hereinafter referred to as "the Team") for the explanation of Draft Preparatory Survey Report (hereinafter referred to as "the Draft Report") for the Project for Upgrading of Lusaka Health Centres to Level 1 Hospitals Phase 2 (hereinafter referred to as "the Project"), headed by Dr. Hiroshi TAKENAKA, Senior Advisor in Health, Human Development Department, JICA from 30<sup>th</sup> November to 8<sup>th</sup> December, 2016.

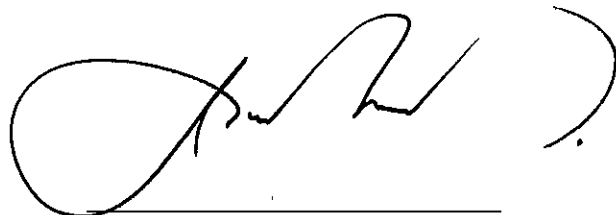
As a result of the discussions, both sides agreed on the main items described in the attached sheets.

Lusaka, 8<sup>th</sup> December, 2016



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Dr. Hiroshi Takenaka  
Leader  
Preparatory Survey Team  
Japan International Cooperation Agency  
Japan



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Dr. Jabbin L. Mulwanda  
Permanent Secretary (Technical Services)  
Ministry of Health  
The Republic of Zambia

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to improve the health service delivery in Lusaka District through upgrading of three (3) Urban Health Centres in Lusaka District to Level 1 hospitals, thereby contributing to improvement of health status of the people in Lusaka District.

### 2. Title of the Preparatory Survey

Both sides confirmed change of the title of the Preparatory Survey to “the Preparatory Survey for the Project for Upgrading of Lusaka Health Centres to Level 1 Hospitals Phase 2” from “the Preparatory Survey for the Project for Upgrading of Lusaka Health Centres to District Hospitals Phase 2”.

### 3. Project sites

Both sides confirmed that the sites of the Project are in Lusaka District, which is shown in Annex 1.

### 4. Responsible authority for the Project

Both sides confirmed that the MOH will be the executing agency for the Project (hereinafter referred to as “the Executing Agency”). The Executing Agency shall coordinate with all the relevant authorities to ensure smooth implementation of the Project and ensure that the undertakings for the Project shall be taken care by relevant authorities properly and on time. The organization chart is shown in Annex 2.

### 5. Contents of the Draft Report

After the explanation of the contents of the Draft Report by the Team, the Zambian side agreed to its contents. The facility components which are included in the Project are shown in Annex 3 and the equipment list in each project site is shown in Annex 4. The Zambian side agreed to funds limitation and grant aid restriction explained by the Team.

### 6. Cost estimate

Both sides confirmed that the cost estimate including the contingency described in the Draft Report is provisional and will be examined further by the Government of



Japan for its approval. The contingency would cover the additional cost against natural disaster, unexpected natural conditions, etc.

7. Confidentiality of the cost estimate and technical specifications

Both sides confirmed that the cost estimate and technical specifications in the Draft Report should never be duplicated or disclosed to any third parties until all the contracts under the Project are concluded.

8. Timeline for the Project implementation

The Team explained to the Zambian side that the expected timeline for the Project implementation is as attached in Annex 5.

9. Expected outcomes and indicators

Both sides agreed that key indicators for expected outcomes are as follows. The Zambian side will be responsible for the achievement of agreed key indicators targeted in year 2022 and shall monitor the progress based on those indicators. The following indicators to measure quantitative effect and the qualitative effect are proposed.

[Quantitative indicators]

Indicator	Facility	Unit	Standard Value		Objective Value (2022) (three years after completion of construction)
			Year of Standard Value	Value	
Number of Outpatients*1	Chipata	person/year	Average between 2013-2015	191,156	239,136
	Kanyama	person/year	Average between 2014-2015	232,553	290,924
	Chawama	person/year	Average between 2013-2015	190,506	238,323
Number of Caesarean section*2	Chipata	case/year	2015	161	580
	Kanyama	case/year	2015	0	746
	Chawama	case/year	2015	0	518
Number of surgeries (excluding caesarean section)*3	Chipata	case/year	2015	655	903
	Kanyama	case/year	2015	0	1,147
	Chawama	case/year	2015	0	795

\*1: At the time of the 2016 survey will be the reference year, and the population growth rate 3.8% for the Lusaka District will be applied (Central Statistics Office, 2013). In comparison, the number of outpatients in 2022 is expected to increase by 25.1%.

\*2: It is assumed that 10% of total delivery will be by caesarean section, and 90% of them can be conducted at the level 1 hospitals. It is assumed that the average of the total delivery at each facility from 2011 to 2015 will increase by 25.1% by 2022. The target value will be set at 80% of the assumption because the availability of service will depend on the allocation of medical personnel in 2022.

\*3: The number of the basic surgeries in University Teaching Hospital will be increased by 25.1% in 2022 compared to what of average number of 2011 to 2015. We assume that 50 % of these cases should be conducted in level 1 hospitals. The number of cases is calculated based on the distribution of the origin of the referred patients. These numbers also take into account the risk of insufficient allocation of medical personnel.



[Qualitative indicators]

- (1) Improvement in the Quality of Health Services
- (2) The Provision of the Functional and Efficient Health Services
- (3) Indicators of the Work Environment and Satisfaction Survey from Patients
- (4) Strengthening of the Referral System in the Lusaka District

10. Technical assistance (“Soft Component” of the Project)

Considering the sustainable operation and maintenance of the products and services granted through the Project, following technical assistance is planned under the Project. The Zambian side confirmed to deploy necessary number of counterparts who are appropriate and competent in terms of its purpose of the technical assistance as described in the Draft Report.

11. Undertakings of the Project

11-1. General Issues

Both sides confirmed the undertakings of the Project as described in Annex 6. Both sides also confirmed that the Annex 6 will be used as an attachment of G/A.

11-2. Tax exemption

With regard to exemption of customs duties, internal taxes and other fiscal levies as stipulated in 1. (2) 1) No. 24 of Annex 6, both sides confirmed that such customs duties, internal taxes and other fiscal levies include VAT, commercial tax, income tax and corporate tax, which shall be clarified in the bid documents by MOH during the implementation stage of the Project.

The Zambian side also confirmed that registration of the Project related Japanese contractors and consultants with the National Council of the Construction or other relevant agencies shall be exempted as stipulated in 1. (2) 1) No. 26 of Annex 6.

11-3. Budget allocation

The Zambian side assured to take the necessary measures and coordination including allocation of the necessary budget which is preconditions of implementation of the Project. This budget includes the cost of utility supply works, procurement of general furniture and non-medical equipment among others. It is further agreed that the costs are indicative, i.e. at Outline Design level. More accurate costs will be calculated by the Zambian side.



12. Monitoring during the implementation

The Project will be monitored by the Executing Agency and reported to JICA by using the form of Project Monitoring Report (PMR) attached as Annex 7. The timing of submission of the PMR is described in Annex 6.

13. Project completion

Both sides confirmed that the Project completes when all the facilities constructed and equipment procured by the grant are in operation. The completion of the Project will be reported to JICA promptly, but in any event not later than six months after completion of the Project.

14. Ex-Post Evaluation

JICA will conduct ex-post evaluation after three (3) years from the project completion, in principle, with respect to five evaluation criteria (Relevance, Effectiveness, Efficiency, Impact, Sustainability). The result of the evaluation will be publicized. The Zambian side is required to provide necessary support for the data collection.

15. Schedule of the Study

JICA will finalize the Preparatory Survey Report based on the confirmed items. The report will be sent to the Zambian side around February 2017.

16. Environmental and Social Considerations

The Team explained that 'JICA Guidelines for Environmental and Social Considerations (April 2010)' (hereinafter referred to as "the Guidelines") is applicable for the Project. The Project is categorized as C because the Project is likely to have minimal adverse impact on the environment under the Guidelines.

17. Other Relevant Issues

17-1. Disclosure of Information

Both sides confirmed that the Preparatory Survey Report from which project cost is excluded will be disclosed to the public after completion of the Preparatory Survey. The comprehensive report including the project cost will be disclosed to the public after all the contracts under the Project are concluded.



#### 17-2. Staff and Budget Allocation

The Zambian side agreed to ensure sufficient staff for the operation and maintenance of the facilities and medical equipment provided, especially who is in charge of activities in operation theater. The staff recruitment should be basically carried out according to the standard establishment as per Annex 8 and the timeline of staff recruitment procedure as per Annex 9. Regarding to the budget for operation and maintenance of the facilities and medical equipment provided, the Zambian side agreed to secure the budget which are shown in Annex 10.

#### 17-3. Approval for Use of Land

Both sides confirmed that MOH had already obtained the approval from Ministry of Transport and Communication to relocate the post office following the construction of the new structure for the expansion of Chawama Level 1 Hospital. Regarding the stock yard for the construction, the Zambian side shall be fully responsible.

#### 17-4 Maintenance Service of Medical Equipment

The Zambian Side confirmed that the 1-year maintenance contract for general X-ray, mobile X-ray, ultrasound scanner, portable ultrasound scanner for obstetrics and anaesthesia machine is added after 1-year warranty period by manufacturers.

As for X-ray tube, it shall be replaced on no charge basis at the termination of maintenance supplementary contract (2 years after completion of installation of equipment) as it is easily broken and expensive. Other spare parts fee is not included in the maintenance contract.

#### 17-5 Necessary Renovations to the Level 1 Hospital after construction of new hospital buildings

Both sides confirmed that Zambian side will take necessary measures to renovate existing buildings as shown in Annex 11 to improve the service delivery of Level 1 Hospitals.

Annex 1 Project Site [CHIPATA], [KANYAMA], [CHAWAMA]

Annex 2 Organization Chart

Annex 3 Outline of the Facility

Annex 4 Equipment List

Annex 5 Project Implementation Schedule



Annex 6 Major Undertakings to be taken by each Government

Annex 7 Project Monitoring Report (template)

Annex 8 Standard Establishment for Level 1 Hospital

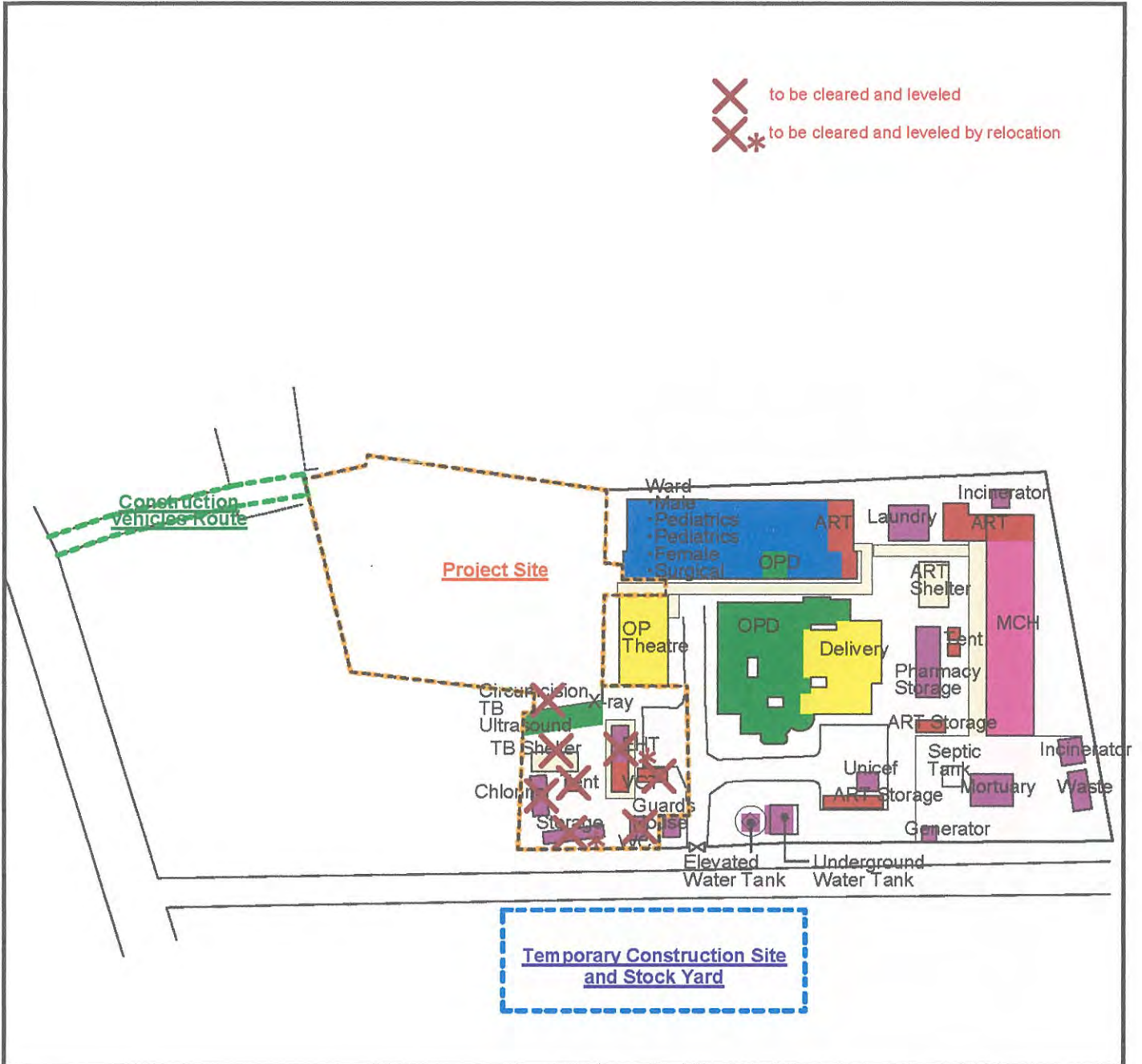
Annex 9 Timeline of Staff recruitment Procedure for the Target Hospitals

Annex 10 Estimated Maintenance Cost

Annex 11 Necessary Renovations to the Level 1 Hospital after construction of new hospital buildings

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Project Site [CHIPATA]



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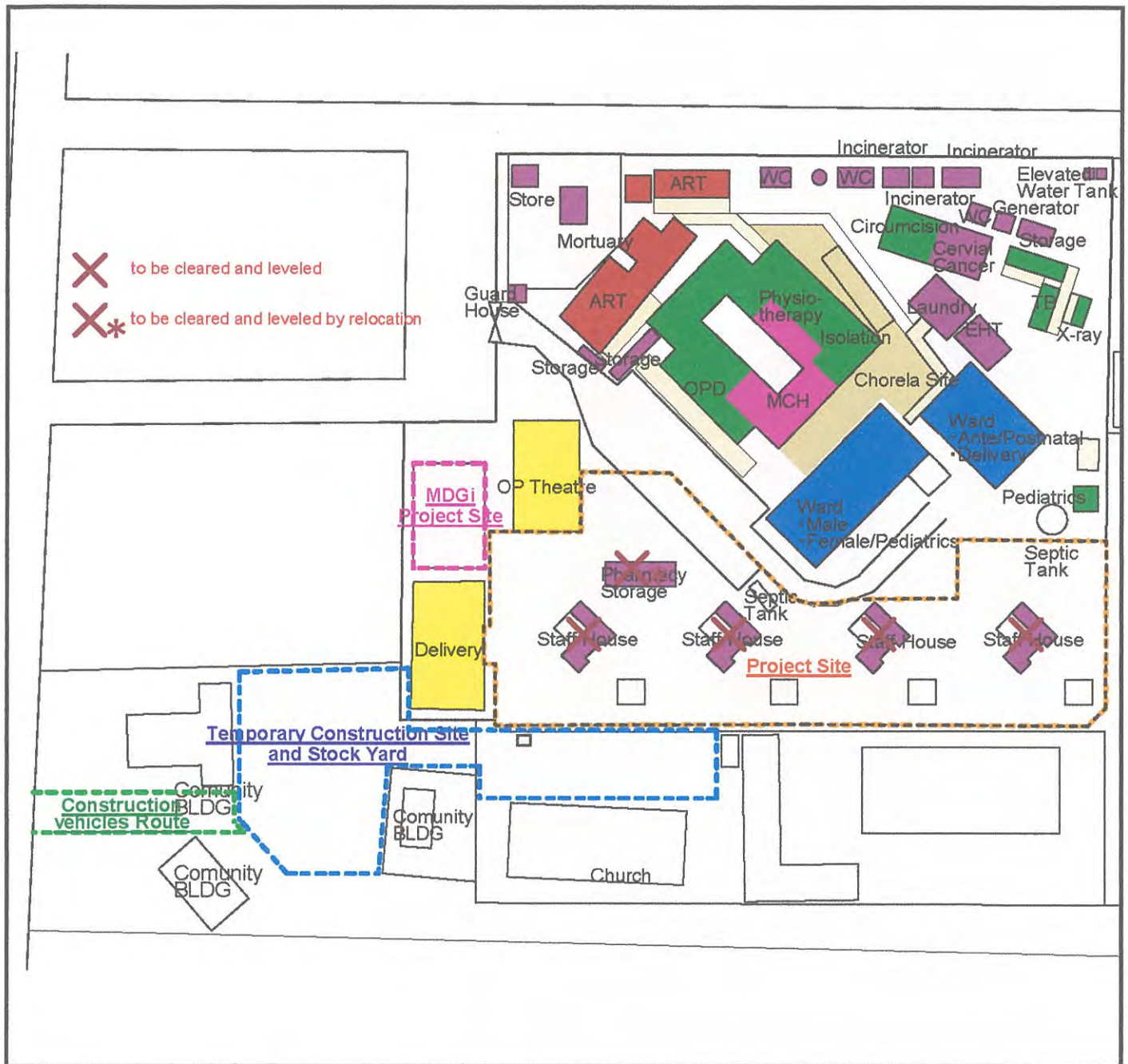


Legend:	
<span style="display:inline-block; width:15px; height:10px; background-color:green; border:1px solid black;"></span>	OPD
<span style="display:inline-block; width:15px; height:10px; background-color:yellow; border:1px solid black;"></span>	Examination / Treatment
<span style="display:inline-block; width:15px; height:10px; background-color:blue; border:1px solid black;"></span>	Ward
<span style="display:inline-block; width:15px; height:10px; background-color:red; border:1px solid black;"></span>	ART / VCT
<span style="display:inline-block; width:15px; height:10px; background-color:purple; border:1px solid black;"></span>	Others
<span style="display:inline-block; width:15px; height:10px; background-color:pink; border:1px solid black;"></span>	MCH
	— 1st Level Hospital
	— Health Centre (Clinic)

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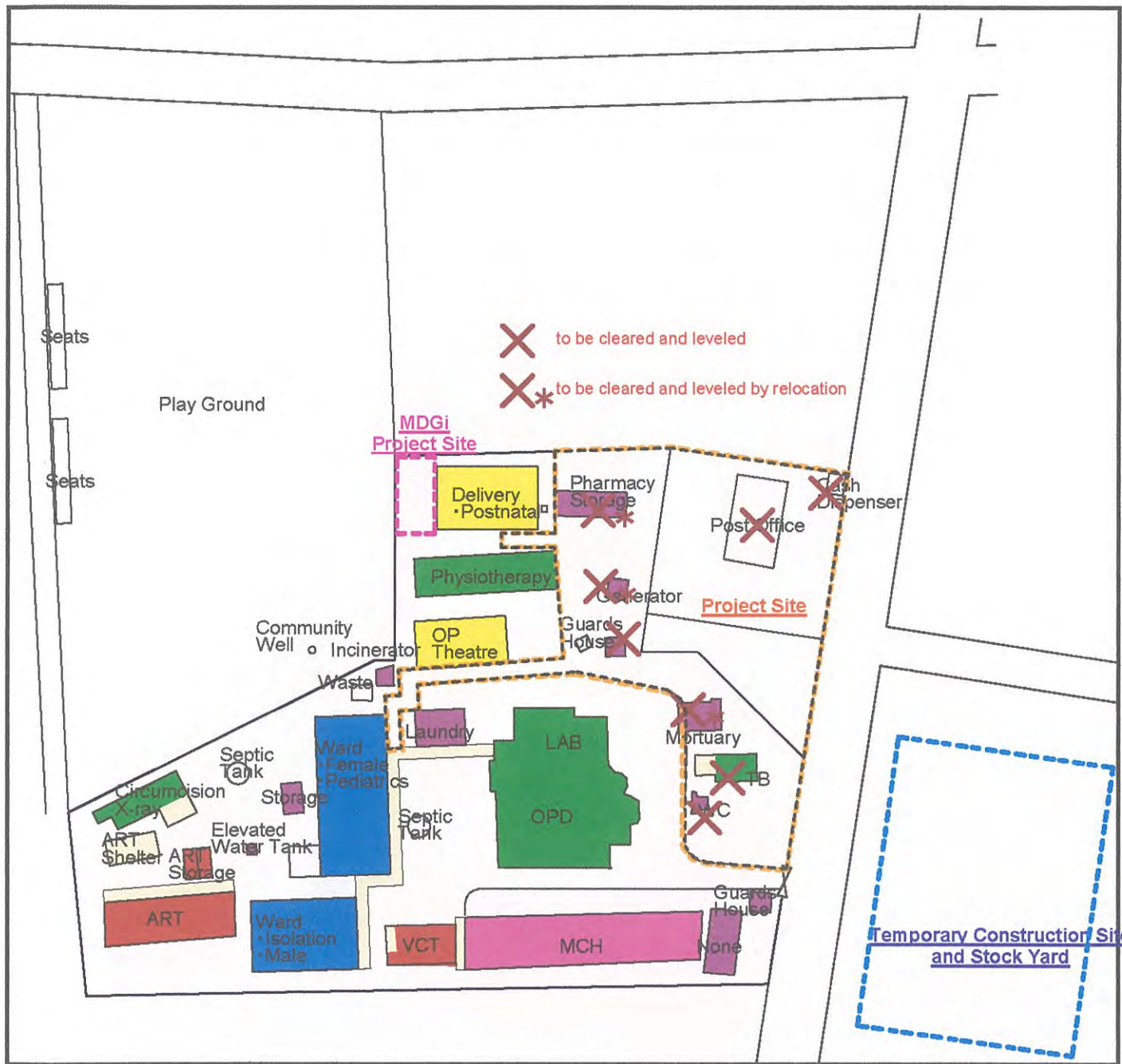
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Project Site [KANYAMA]





Project Site [CHAWAMA]



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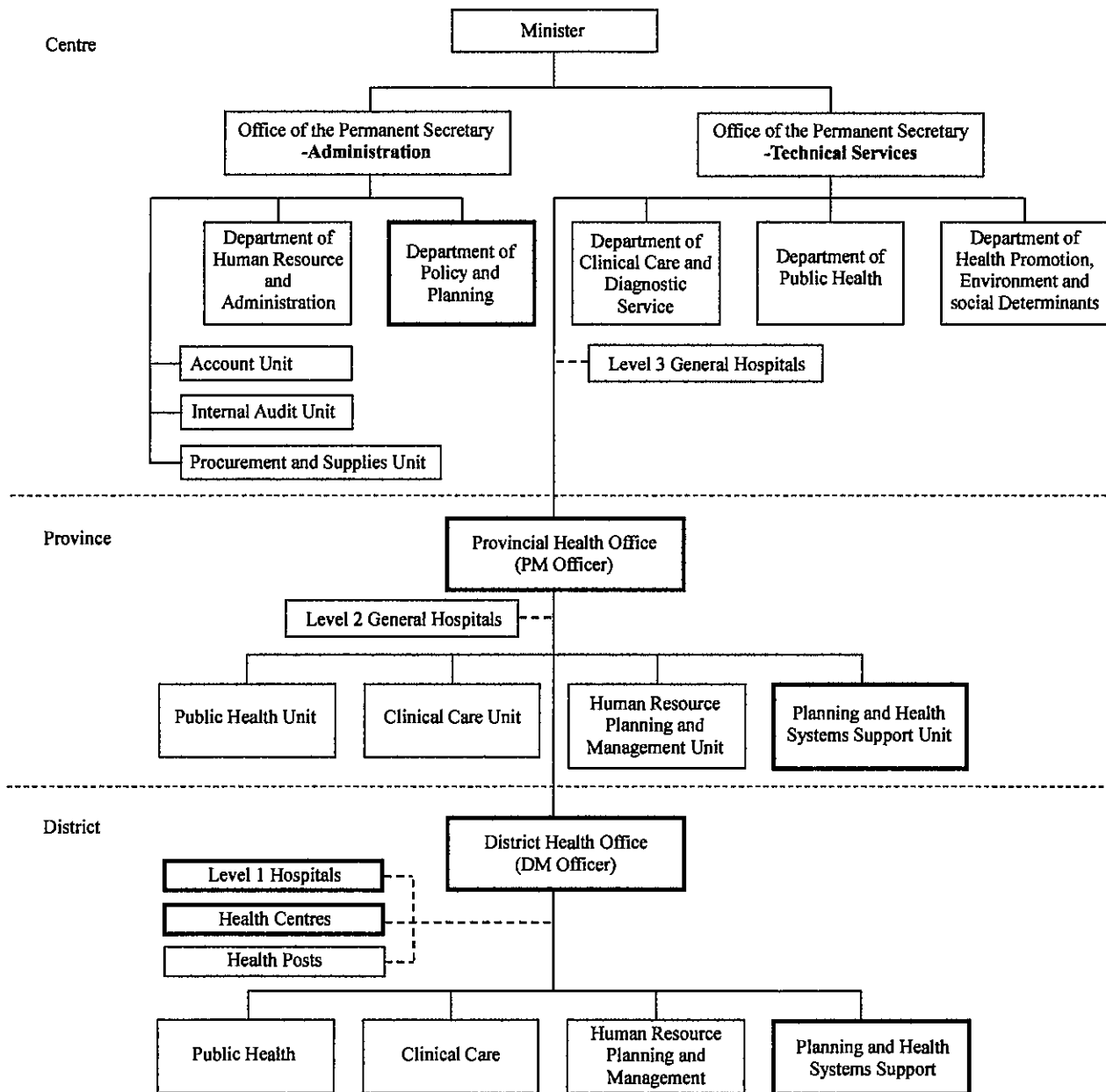


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<span style="display:inline-block; width:15px; height:10px; background-color:green;"></span>	OPD
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<span style="display:inline-block; width:15px; height:10px; background-color:pink;"></span>	MCH
	1st Level Hospital
	Health Centre (Clinic)

*Handwritten signature/initials*

*JCM*

Organization Chart



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July



## Outline of the Facilities

The cooperation project will construct Chipata, Kanyama and Chawama Level 1 Hospitals as below.

## (1) Outline of the Cooperation Project for Chipata Level 1 Hospital

Project Outline		Detailed Description
OPD/Theatre (2 Stories)	GFL	OPD : General Outpatient, Eye/ENT, Treatment, TB Medical Imaging : X-ray, Ultrasonography
	1FL	Theatre : Theatre, Sluice Room, Sterilisation Room Ward : Ward (Surgery/ Caesarean section) , Treatment Room, Doctor's Room
OPD/Maternity (2 Stories)	GFL	OPD : Paediatric, Dental, Pharmacy, Dispenser, Cashier
	1FL	Maternity : Delivery, Post-natal, Pre-natal Room, Doctor's Room
Mechanical Unit (Single Story)		Generator Room, Main Switch Room, Distribution Board Pump Room, Water Reservoir
Slope		
Related Facilities (Single Story)		Septic Tank, Blower Room, Elevated Water Tank, Exterior Corridor

## (2) Outline of the Cooperation Project for Kanyama Level 1 Hospital

Project Outline		Detailed Description
Theatre/Laboratory (2 Stories)	GFL	Theatre : Theatre, Sluice Room, Sterilisation Room Maternity : Pre-natal Room, Dr. Room
	1FL	OPD : Paediatric, TB Medical Imaging : X-ray, Ultrasonography Clinical Laboratory : Laboratory, Sluice Room, Sterilisation Room, Sample Collection Room
OPD/Ward (2 Stories)	GFL	Ward : Ward (Surgery/ Caesarean section/ Medical) , Treatment Room, Dr. Room
	1FL	OPD : General Outpatient, Eye/ENT, Dental, Treatment Room, Dispenser, Cashier, Slope
Mechanical Unit (Single Story)		Generator Room, Main Switch Room, Main Distribution, Board Pump Room, Water Reservoir
Related Facilities (Single Story)		Septic Tank, Blower Room, Elevated Water Tank, Roofed Corridor

## (3) Outline of the Cooperation Project for Chawama Level 1 Hospital

Project Outline		Detailed Description
OPD/Theatre (2 Stories)	GFL	Theatre : Theatre, Sluice Room, Sterilisation Room Ward : Ward (Surgery/ Caesarean section) , Treatment Room, Dr. Room
	1FL	OPD : General Outpatient, Eye/ENT, dental, Treatment, Dispenser, Cashier
OPD/Physiotherapy (2 Stories)	GFL	OPD : TB Physiotherapy : Physiotherapy Room
	1FL	OPD : Paediatric Medical Imaging : X-ray, Ultrasonography
Mechanical Unit (Single Story)		Generator Room, Main Switch Room, Main Distribution, Board Pump Room, Water Reservoir
Slope		
Related Facilities (Single Story)		Septic Tank, Blower Room, Elevated Water Tank, Roofed Corridor

## List of Equipment

Chipata level 1 hospital

Name of Equipment	Q'ty
<b>New Facility</b>	
<b>1. General Outpatient Dept.</b>	
Wheelchair	2
Stretcher	2
<b>Examination room-2 (Ophthalmology/Otorhinology)</b>	
Diagnostic set (otoscope and ophthalmoscope)	1
Examination Desk set	1
Equipment Cabinet	1
A Wastebin with lid	1
Bed-side screen	1
<b>Examination room-3 (Gynecology)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Examination couch, gynecological	1
Bed-side screen	1
Examination light	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
Vaginal speculum, small	2
Vaginal speculum, medium	3
Vaginal speculum, large	3
X-ray film viewer	1
<b>Examination room-4</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-5</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1



Name of Equipment	Q'ty
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-6</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-7 (Vital)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
Weighing scale, adult	2
Chart, vision-testing, Snellen type	1
Patella hammer	1
Suction pump, electric	1
Ambu bag for adults	1
Ambu bag for children	1
Dressing trolley	3
Pulse oximeter, finger type	2
<b>Treatment room</b>	
Drainage set	3
Dressing set	3
Suturing set	6
Instrument tray, medium	3
Drip stand	2
Treatment table	2
<b>2. Diagnostic Imaging Dept.</b>	
<b>Ultrasonic testing room</b>	
Ultrasonic diagnostic device	1
Treatment table	1
<b>Radioactive testing room</b>	
Actinic marker	1
Film processor, automatic	1
Lead apron	1

Name of Equipment	Q'ty
X-Ray film viewing box (negatoscope)	1
X-Ray loading bench (Film hopper)	1
X-ray unit, fixed	1
<b>Examination room-1 (TB)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>3.Expert outpatient dept.</b>	
<b>Examination room-1 (Pediatrics)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Weighing trousers	1
Salter scale	1
Stethoscope, binaural	1
BP machine, child	1
Ear syringe	1
<b>Examination room-2 (Dentistry)</b>	
Bench top autoclave	1
Dental treatment unit	1
Dental film processor	1
Dental instrument cabinet	1
Dental instrument set	3
Dental light curing unit	1
Dental treatment trolley	1
Dental x-ray unit	1
Ultrasonic dental scaler	1
Lead apron	1
<b>Pharmacy</b>	
20 ml medicine cup	1
Drug cabinet, lockable	1
Pharmacy apparatus set	1
Mixer	1
Mortar and pestle	1
Pharmacy balance	1
Pharmacy heavy duty trolley	1



Name of Equipment	Q'ty
Pharmacy refrigerator	1
Tablet and capsule counter	1
Tablet counting tray	1
Vaccine refrigerator	1
Water distiller	1
<b>4. Operation dept.</b>	
<b>Operation room</b>	
Ambu bag for adults	1
Ambu bag for children	1
Anesthetic machine	1
BP machine, adult	2
Bucket, stainless steel with cover	4
Electro surgical unit	1
Drip stand	2
Medical cabinet	1
Footstool, one-step	2
Laryngoscope set	1
Equipment Cabinet	1
Mayo table	2
Operating stools, revolving	2
Operating-room light, fixed, ceiling mounted	2
Operating-room light, portable, with stand	2
Oxygen concentrator	2
Stretcher	2
Recovery bed	2
Stethoscope, fetal, Pinard	1
Vital signs monitor, portable	2
X-Ray film viewing box (negatoscope)	1
Medicine refrigerator	1
Suction pump, electric	2
Set, amputation	3
Set, bilateral tubal ligation	3
Set, caesarian section	6
Set, Hysterectomy	1
Set, dilatation and curetage Set (D+C set)	3
Set, laparotomy	3
Set, minor surgery	3
<b>Sterilization room</b>	
Autoclave, electric, 400 liters	1
Bed pan washer	1
Sterilizing drum, large	4
Sterilizing drum, medium	4
<b>5. Surgical ward (Caesarean)</b>	
<b>Nurse station</b>	
Equipment Cabinet	1
Wastebin with lid	1
<b>Treatment room</b>	

Name of Equipment	Q'ty
Vaginal speculum, small	2
Vaginal speculum, medium	3
Vaginal speculum, large	3
Thermometer, digital	2
Salter scale	1
Weighing trousers	1
BP machine, adult	1
Glucometer	1
Instrument tray, large	1
Dressing tray, medium	1
Dressing trolley	1
Dressing set	2
Treatment table	1
<b>Ward</b>	
Hospital bed, hospital model, two-sectioned, with mattress	8
Bed-side cabinet, hospital model	8
Drip stand	4
Infant cot	3
X-ray equipment (Mobile type)	1
<b>Private room</b>	
Hospital bed, hospital model, two-sectioned, with mattress	1
Bed-side cabinet, hospital model	1
<b>6. Obstetrics dept.</b>	
<b>Nurse station</b>	
Equipment Cabinet	1
Wastebin with lid	1
<b>Treatment room</b>	
Examination couch, gynecological	1
Footstool, one-step	1
Examination light	1
Traube	1
Vaginal speculum, small	2
Vaginal speculum, medium	3
Vaginal speculum, large	3
<b>Ante partum room</b>	
Hospital bed, hospital model, two-sectioned, with mattress	16
<b>Delivery room</b>	
Instrument cabinet	1
Instrument trolley	2
Drip stand	4
Footstool, one-step	4
Operating stool, revolving	4
Vaginal delivery/episiotomy set	5
Kick-about bowl	4
Manual vacuum aspiration (MVA) kit	5
Vacuum extractor, electrical	2
Weighing scale, infant, beam type	1



Name of Equipment	Q'ty
Suction pump, electric	2
BP machine, adult	1
Transport Incubator	1
Ultrasonic diagnostic device(Mobile type)	1
<b>Recovery room</b>	
Hospital bed, hospital model, two-sectioned, with mattress	8
Bed pan	1
<b>5.6 Premature infant room</b>	
Infant warmer	3
<b>Existing Facility</b>	
<b>7. Emergency</b>	
Wheelchair	1
Stretcher,	1
Hospital Bed	3
Hospital bed cradle	1
Bed-side screen	2
Over-bed table	1
Bed pan	1
Excretion care set	1
Drip stand	4
Oxygen concentrator	1
Suction pump, electric	1
Ambu bag for adults	1
Ambu bag for children	1
Diagnostic set	1
X-Ray film viewing box (negatoscope)	1
<b>8. Ward (Except Obstetrics ward)</b>	
<b>Nurse station</b>	
Equipment Cabinet	1
Wastebin with lid	1
<b>Ward</b>	
Hospital bed, hospital model, two-sectioned, with mattress	5
Bed pan	1
Excretion care set	1
Thermometer, digital	2
Weighing scale, adult	1
Stethoscope, binaural	2
BP machine, adult	2
BP machine, child	1
Glucometer	2
Trolley, medicine	1
Dressing tray, medium	1
Dressing trolley	1
Dressing set	3
Drip stand	6
Oxygen concentrator	2
Suction pump, electric	1

Name of Equipment	Q'ty
Pulse oximeter, finger type	2
<b>9. Laboratory Dept.</b>	
Anaerobic jar	1
Analytical balance	1
Autoclave for laboratory, medium	1
Blood bank refrigerator	1
Bunsen burner	1
Differential counter	1
Flammable liquid cabinet	1
Hot air oven	1
Hot plate, controlled temperature	1
Laboratory incubator, medium	1
Laboratory refrigerator/freezer	1
Microhaematocrit centrifuge	1
Micropipettes, automated	1
pH meter	1
Roller/mixer	1
Timer	1
Water bath	1
Water distiller	1
<b>10. Maintenance</b>	
Maintenance Set	1

**Note:**

1. MOH will prepare back up generator for following equipment.

Blood bank refrigerator, Laboratory refrigerator/freezer in existing Laboratory

2. Engineer of MOH will maintain Bedpan Washer.



## Kanyama Level 1 Hospital

Name of Equipment	Q'ty
<b>New Facility</b>	
<b>1. General Outpatient Dept.</b>	
Wheelchair	2
Stretcher	2
<b>Examination room-1 (Vital)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
Weighing scale, adult	2
Chart, vision-testing, Snellen type	1
Patella hammer	1
Suction pump, electric	1
Resuscitation bag set	1
Medicine trolley	3
Pulse oximeter, finger type	2
<b>Examination room-2</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-3</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-4</b>	
Examination Desk set	1

Name of Equipment	Q'ty
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-5</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-6 (Gynecology)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Examination couch, gynecological	1
Bed-side screen	1
Examination light	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
Vaginal speculum, small	2
Vaginal speculum, medium	3
Vaginal speculum, large	3
<b>Examination room-7 (Ophthalmology/Otorhinology)</b>	
Diagnostic set (otoscope and ophthalmoscope)	1
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Bed-side screen	1
<b>Examination room-8 (Dentistry)</b>	
Bench top autoclave	1
Dental treatment unit	1
Dental film processor or developer	1
Dental instrument cabinet	1
Dental instrument set	3
Dental light curing unit	1



Name of Equipment	Q'ty
Dental treatment trolley	1
Dental x-ray unit	1
Ultrasonic dental scaler	1
Lead apron	1
<b>Treatment room</b>	
Drainage set	3
Dressing set	3
Suturing set	3
Instrument tray, medium	3
Drip stand	2
Treatment table	2
<b>Pharmacy</b>	
20 ml medicine cup	1
Drug cabinet, lockable	1
Graduated glass measure	1
Mixer	1
Mortar and pestle	1
Pharmacy balance	1
Pharmacy heavy duty trolley	1
Pharmacy refrigerator	1
Tablet and capsule counter	1
Tablet counting tray	1
Vaccine refrigerator	1
Water distiller	1
<b>2. Laboratory Dept.</b>	
Anaerobic jar	1
Analytical balance	1
Autoclave for laboratory, medium	1
Binocular microscope	1
Blood bank refrigerator	1
Bunsen burner	1
Centrifuge, small	1
Differential counter	1
Flammable liquid cabinet	1
Hot air oven	1
Hot plate, controlled temperature	1
Laboratory incubator, medium	1
Laboratory refrigerator/freezer	1
Microhaematocrit centrifuge	1
Micropipettes, automated	1
pH meter	1
Roller/mixer	1
Timer	1
Water bath	1
Water distiller	1
<b>Ultrasonic testing room</b>	
Ultrasonic diagnostic device	1



Name of Equipment	Q'ty
Treatment table	1
<b>Radioactive testing room</b>	
Actinic marker	1
Film processor, automatic	1
Lead apron	1
X-Ray film viewing box (negatoscope)	1
X-Ray loading bench (Film hopper)	1
X-ray equipment	1
<b>Examination room-1 (Pediatrics)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, child	1
X-ray film viewer	1
Weighing scale, adult	1
Weighing trousers	1
Ear syringe	1
Resuscitation bag set	1
<b>Examination room-2 (TB)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>3. Operation dept.</b>	
<b>Operatiion room</b>	
Ambu bag for adults (resuscitator)	1
Ambu bag for children (resuscitator)	1
Anesthetic machine	1
BP machine, adult	2
Bucket, stainless steel with cover	4
Electro surgical unit	1
Drip stand	2
Medical cabinet	1
Footstool, one-step	2
Laryngoscope set	1
Equipment Cabinet	1



Name of Equipment	Q'ty
Mayo table	2
Infant warmer	1
Operating stools, revolving	2
Operating-room light, fixed, ceiling mounted	2
Operating-room light, portable, with stand	2
Oxygen concentrator	2
Stretcher	2
Pulse oximeter, separate	2
Recovery bed	2
Stethoscope, binaural	1
Vital signs monitor, portable	2
X-Ray film viewing box (negatoscope)	1
Medicine refrigerator	1
Suction pump, electric	2
Set, amputation	3
Set, bilateral tubal ligation	3
Set, caesarian section	6
Vaginal delivery/episiotomy set	1
Endometrial curettage set	3
Set, laparotomy	3
Set, minor surgery	3
<b>Sterilization room</b>	
Autoclave, electric, 400 liters	1
Bed pan washer	1
Sterilizing drum, large	4
Sterilizing drum, medium	4
<b>4. Obstetrics dept. (Ante partum room)</b>	
<b>Nurse station</b>	
Instrument cabinet	1
Wastebin with lid	1
<b>Ante partum room</b>	
Hospital bed(Adult)	20
<b>5. Surgical ward (Caesarean)</b>	
<b>Nurse station</b>	
Instrument cabinet	1
Wastebin with lid	1
<b>Treatment room</b>	
Vaginal speculum, small	1
Vaginal speculum, medium	2
Vaginal speculum, large	2
Thermometer, digital	2
Thermometer	2
Salter scale	1
Weighing trousers	1
BP machine, adult	1
Glucometer	1
Trolley, medicine	1



Name of Equipment	Q'ty
Dressing tray, medium	1
Dressing trolley	1
Dressing set	2
Treatment table	1
<b>Ward</b>	
Drip stand	6
Hospital bed, hospital model, two-sectioned, with mattress	12
Bed-side cabinet, hospital model	12
Infant cot	4
X-ray equipment (Mobile type)	1
<b>Private room</b>	
Hospital bed, hospital model, two-sectioned, with mattress	1
Bed-side cabinet, hospital model	1
<b>6. Internal medicine ward (Female)</b>	
<b>Nurse station</b>	
Equipment Cabinet	1
Wastebin with lid	1
<b>Ward</b>	
Hospital bed, hospital model, two-sectioned, with mattress	21
Drip stand	10
<b>Private room</b>	
Hospital bed, hospital model, two-sectioned, with mattress	1
Bed-side cabinet, hospital model	1
<b>Treatment room</b>	
Treatment table	1
Thermometer, digital	2
Weighing scale, adult	1
Stethoscope, binaural	2
BP machine, adult	2
Glucometer	2
Drip stand	1
Oxygen concentrator	2
Suction pump, electric	1
Pulse oximeter, finger type	2
Dressing trolley	1
<b>7. Internal medicine ward (Male)</b>	
<b>Nurse station</b>	
Instrument cabinet	1
Wastebin with lid	1
<b>Ward</b>	
Hospital bed, hospital model, two-sectioned, with mattress	21
Excretion care set	1
Drip stand	10
<b>Private room</b>	
Hospital bed, hospital model, two-sectioned, with mattress	1
Bed-side cabinet, hospital model	1
<b>Treatment room</b>	



Name of Equipment	Q'ty
Treatment table	1
Thermometer, digital	2
Weighing scale, adult	1
Stethoscope, binaural	2
BP machine, adult	2
Glucometer	2
Drip stand	1
Oxygen concentrator	2
Suction pump, electric	1
Pulse oximeter, finger type	2
Dressing trolley	1
<b>Existing facility</b>	
<b>8. Emergency</b>	
Wheelchair	1
Stretcher	1
Hospital bed, hospital model, two-sectioned, with mattress	3
Hospital bed bednet, treated	1
Bed-side screen	2
Over-bed table	1
Excretion care set	1
Drip stand	4
Oxygen concentrator	1
Suction pump, electric	1
Ambu Bag for Adults	1
Ambu Bag for Children	1
Diagnostic set	1
X-Ray film viewing box (negatoscope)	1
<b>9. Ward(Pediatrics)</b>	
Infant cot	4
BP machine, child	1
<b>10. Delivery ward</b>	
Examination couch, gynecological	1
Footstool, one-step	1
Examination light	1
Traube	1
Vaginal speculum, small	2
Vaginal speculum, medium	3
Vaginal speculum, large	3
Ultrasonic diagnostic device(Mobile type)	1
<b>11. Maintenance</b>	
Maintenance Set	1

**Note:**

**1. Engineer of MOH will maintain Bedpan Washer.**

## Chawama Level 1 Hospital

Name of Equipment	Q'ty
<b>New Facility</b>	
<b>1. Outpatient • Operation Ward</b>	
Wheelchair	2
Stretcher	2
<b>Examination room-1 (Dentistry)</b>	
Bench top autoclave	1
Dental treatment unit	1
Dental film processor or developer	1
Dental instrument cabinet	1
Dental instrument set	3
Dental light curing unit	1
Dental treatment trolley	1
Dental x-ray unit	1
Ultrasonic dental scaler	1
Lead apron	1
<b>Examination room-2 (Pediatrics)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Salter scale	1
Weighing trousers	1
Stethoscope, binaural	1
BP machine, child	1
Ear syringe	1
Ambu bag for children (resuscitator)	1
X-ray film viewer	1
<b>Examination room-3 (Vital)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Weighing scale, adult	2
Stethoscope, binaural	1
BP machine, adult	1
Chart, vision-testing, Snellen type	1
Patella hammer	1
Suction pump, electric	1
Ambu bag for adults (resuscitator)	1
Medicine trolley	3



Name of Equipment	Q'ty
Pulse oximeter, (finger type)	2
X-ray film viewer	1
<b>Examination room-4</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-5</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-6</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Examination room-7 (Gynecology)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Examination couch, gynecological	1
Bed-side screen	1
Examination light	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
Vaginal speculum, small	2
Vaginal speculum, medium	3

Name of Equipment	Q'ty
Vaginal speculum, large	3
X-ray film viewer	1
<b>Examination room-8 (Ophthalmology/Otorhinology)</b>	
Diagnostic set for Eye and ENT	1
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Bed-side screen	1
<b>Treatment room</b>	
Drainage set	3
Dressing set	3
Suturing set	3
Instrument tray, medium	3
Drip stand	1
Treatment table	2
<b>Pharmacy</b>	
Drug cabinet, lockable	1
Drug cabinet, lockable	1
Pharmaceutical apparatus set	1
Mixer	1
Mortar and pestle	1
Pharmacy balance	1
Pharmacy heavy duty trolley	1
Pharmacy refrigerator	1
Tablet and capsule counter	1
Tablet counting tray	1
Vaccine refrigerator	1
Water distiller	1
<b>Ultrasonic testing room</b>	
Ultrasonic diagnostic device	1
Treatment table	1
<b>Radioactive testing room</b>	
Actinic marker	1
Film processor, automatic	1
Lead apron	1
X-Ray film viewing box (negatoscope)	1
X-Ray loading bench (Film hopper)	1
X-ray equipment	1
<b>Operation room</b>	
<b>Operation equipment</b>	
Ambu bag for adults (resuscitator)	1
Ambu bag for children (resuscitator)	1
Anesthetic machine	1
BP machine, adult	2
Bucket, stainless steel with cover	4
Electro surgical unit	1
Drip stand	2



Name of Equipment	Q'ty
Dangerous drugs, cabinet	1
Footstool, one-step	2
Laryngoscope set	1
Instrument cabinet	1
Mayo table	2
Operating stools, revolving	2
Operating-room light, fixed, ceiling mounted	2
Operating-room light, portable, with stand	2
Oxygen concentrator	2
Stretcher	2
Pulse oximeter, separate	2
Recovery bed	2
Stethoscope, binaural	1
Vital signs monitor, portable	2
X-Ray film viewing box (negatoscope)	1
Medicine refrigerator	1
Suction pump, electric	2
Set, amputation	3
Set, bilateral tubal ligation	3
Set, caesarian section	6
Set, Hysterectomy	1
Set, dilatation and curetage Set (D+C set)	3
Set, laparotomy	3
Set, minor surgery	3
<b>Sterilization equipment</b>	
Autoclave, electric, 400 liters	1
Bed pan washer	1
Sterilizing drum, large	4
Sterilizing drum, medium	4
<b>Surgical ward/Caesarean</b>	
<b>Nurse station</b>	
Equipment Cabinet	1
Wastebin with lid	1
<b>Treatment room</b>	
Vaginal speculum, small	1
Vaginal speculum, medium	2
Vaginal speculum, large	2
Dressing tray, medium	1
Dressing trolley	1
Dressing set	2
Treatment table	1
<b>Ward</b>	
Thermometer, digital	2
Salter scale	1
Weighing trousers	1
BP machine, adult	1
Glucometer	1

Name of Equipment	Q'ty
Trolley, medicine	1
Drip stand	4
Hospital bed, hospital model, two-sectioned, with mattress	7
Bed-side cabinet, hospital model	7
Infant cot	2
X-ray equipment (Mobile type)	1
<b>Private room</b>	
Hospital bed, hospital model, two-sectioned, with mattress	1
Bed-side cabinet, hospital model	1
<b>2.Expert patient • Physiotherapy ward</b>	
<b>Physiotherapy</b>	
Therapeutic Ultrasound Machine	2
Infra-red Irradiation Machine	2
Short wave diathermy	1
Infra red, Lumber sacral	1
Quadriceps Bench	1
Treadmill Machine	2
Ultraviolet, Limp	2
Treatment couch	3
Elliptical	2
Electrical Cervical/Lumber traction	2
Gathre Smith suspension	1
Stationary bike	2
Wave therapy	1
<b>Examination room-1 (TB)</b>	
Examination Desk set	1
Equipment Cabinet	1
Wastebin with lid	1
Treatment table	1
Bed-side screen	1
Torch, medical, pen-sized	1
Thermometer, digital	1
Stethoscope, binaural	1
BP machine, adult	1
X-ray film viewer	1
<b>Existing facility</b>	
<b>Internal medicine ward</b>	
<b>Nurse station</b>	
Equipment Cabinet	1
Wastebin with lid	1
<b>Ward</b>	
Bed pan	1
Excretion care set	1
Thermometer, digital	2
Weighing scale, adult	1
Stethoscope, binaural	2
BP machine, adult	2



Name of Equipment	Q'ty
BP machine, child	1
Glucometer	2
Trolley, medicine	1
Dressing tray, medium	1
Dressing trolley	1
Dressing set	3
Drip stand	6
Oxygen concentrator	2
Suction pump, electric	1
Pulse oximeter, finger type	2
<b>Delivery dept.</b>	
<b>Nurse station</b>	
Equipment Cabinet	1
Wastebin with lid	1
<b>Ante partum room</b>	
Examination couch, gynecological	1
Footstool, one-step	1
Examination light	1
Traube	1
Vaginal speculum, small	2
Vaginal speculum, medium	3
Vaginal speculum, large	3
<b>Delivery room</b>	
Instrument cabinet	1
Instrument trolley	2
Drip stand	4
Footstool, one-step	4
Operating stool, revolving	2
Vaginal delivery/episiotomy set	5
Kick-about bowl	2
Manual vacuum aspiration (MVA) kit	5
Vacuum extractor, electrical	1
Weighing scale, infant, beam type	1
Suction pump, electric	1
BP machine, adult	1
Ultrasonic diagnostic device(Mobile type)	1
<b>Post partum ward</b>	
Bed pan	1
<b>Emergency dept.</b>	
Wheelchair	1
Stretcher	1
Hospital bed, hospital model, two-sectioned, with mattress	3
Hospital bed, hospital model, two-sectioned, with mattress	1
Bed-side screen	2
Over-bed table	1
Bed pan	1
Excretion care set	1

Name of Equipment	Q'ty
Drip stand	4
Oxygen concentrator	1
Suction pump, electric	1
Ambu Bag for Adults	1
Ambu Bag for Children	1
Diagnostic set	1
X-Ray film viewing box (negatoscope)	1
<b>Laboratory dept.</b>	
Anaerobic jar	1
Analytical balance	1
Autoclave for laboratory, medium	1
Binocular microscope	1
Blood bank refrigerator	1
Bunsen burner	1
Centrifuge, small	1
Differential counter	1
Flammable liquid cabinet	1
Hot air oven	1
Hot plate, controlled temperature	1
Laboratory incubator, medium	1
Laboratory refrigerator/freezer	1
Microhaematocrit centrifuge	1
Micropipettes, automated	1
pH meter	1
Roller/mixer	1
Timer	1
Water bath	1
Water distiller	1
<b>Maintenance</b>	
Maintenance Set	1

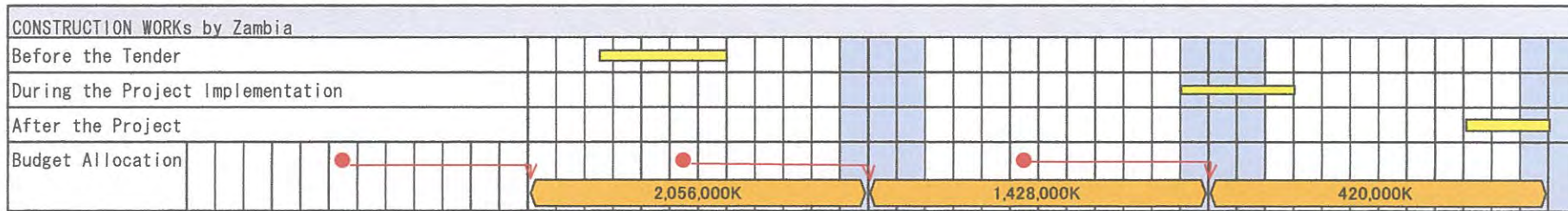
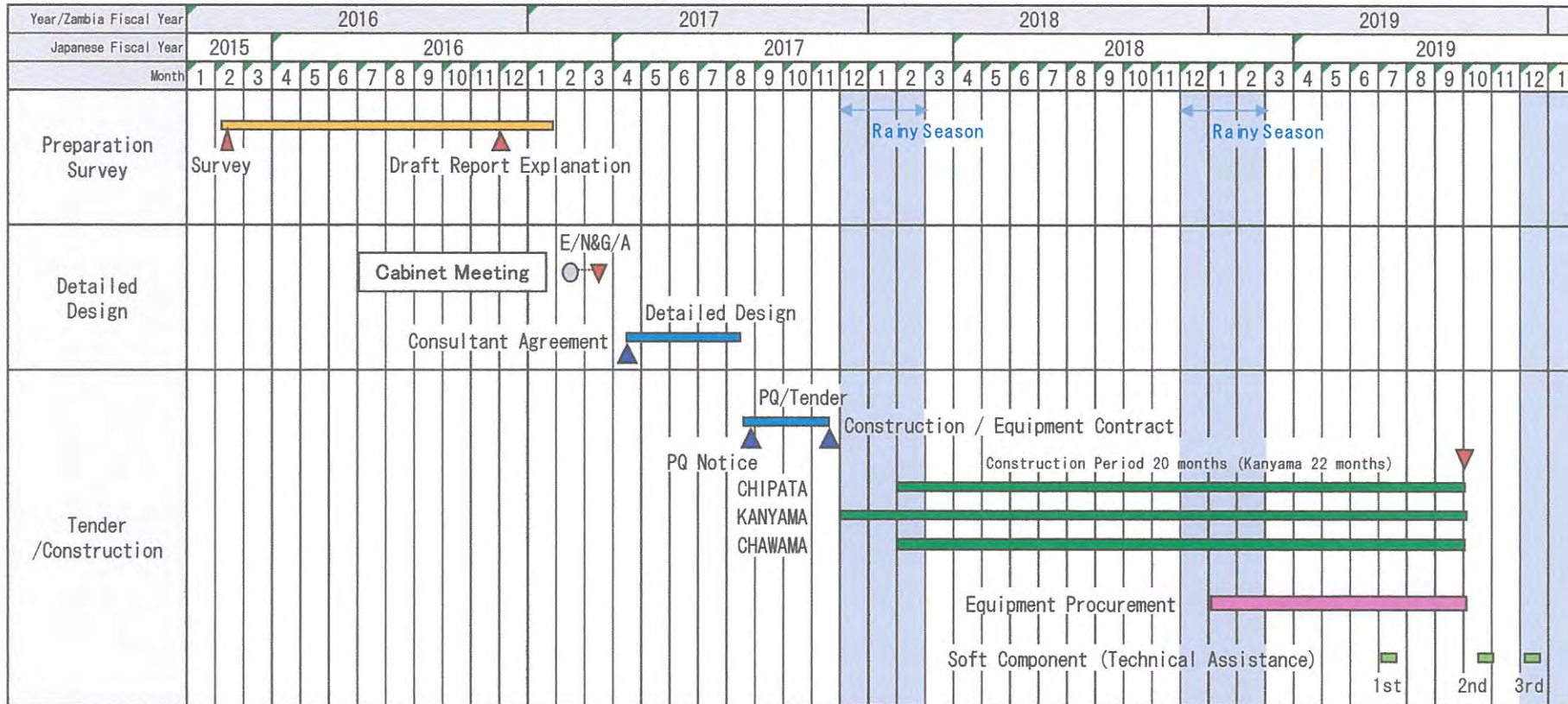
**Note:**

1. MOH will prepare back up generator for following equipment.  
Blood bank refrigerator, Laboratory refrigerator/freezer in existing Laboratory
2. Engineer of MOH will maintain Bedpan Washer.



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### Project Implementation Schedule



Jaw

## Major Undertakings to be taken by each Government

## 1. Major Undertakings to be taken by Recipient Government

## (1) Before the Tender

## 1) Common

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
1	To Open Bank Account (Banking Arrangement (B/A))	Within 1 month after G/A	MOF	-	-
2	To implement Environmental Impact Assessment (EIA)	Before start of the construction	MOH	-	-
3	To secure the following lands (Chipata, Kanyama, Chawama) 1) Project sites 2) Construction vehicles routes 3) Temporary construction yard and stock yard near the Project area (Chipata:, Kanyama:, Chawama: 1,200m <sup>2</sup> respectively)	Before notice of the tender document	MOH	-	-
4	To obtain the planning, zoning, building permit		MOH	-	-
5	To submit Project Monitoring Report (with the result of Detail Design)	End of Detail Design	MOH	-	MD
6	To maintain functions in the demolished facilities until the time new facilities function	-	MOH	-	-

(B/A: Banking Arrangement)

## 2) Chipata

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
1	To clear, level and relocate utilities Storage	Before notice of the tender document	MOH	10	Draft Final Report Figure 2-40
2	To clear, level and relocate Chlorine house			20	
3	To clear and level Tent and WC			15	
4	To clear, level and relocate utilities EHT and VCT			30	
5	To clear, level and relocate utilities Container store			10	
6	To clear, level and relocate TB shelter			30	
7	To clear, level and relocate TB ultrasound			30	
8	To relocate telephone cabling			20	
9	To clear and level part of boundary wall			60	
10	To clear and level existing some walls, underground foundations, and trees			100	

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## 3) Kanyama

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
1	To clear and level 4 staff houses, septic tank and soak tank	Before notice of the tender document	MOH	200	Draft Final Report Figure 2-42
	To notice to the residents				
	To make the staff move out				
	To start clearing house and level housing area				
2	To relocate Pharmacy storage				
3	To clear and level Trees on project site				
4	To clear and level part of boundary wall				
5	To clear fences for staff houses				
6	To clear Existing electrical power cable for 4 staff houses				

## 4) Chawama

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
1	To clear and level Post office, ATM, and trees on project site	Before notice of the tender document	MOH	200	Draft Final Report Figure 2-44
2	To relocate Pharmacy storage			10	
3	To relocate, clear and level Generator house			200	
4	To relocate, clear and level Guard house			15	
5	To relocate to west side, clear and level Mortuary			500	
6	To relocate, clear and level TB			10	
7	To clear and level WC			10	
8	To clear and level some boundary wall			60	
9	To relocate Existing electrical power cable and Transformer			150	
10	To construct boundary wall and gate on project site			300	

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## (2) During the Project Implementation

## 1) Common

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
21	To bear the following commissions to a bank of Japan for the banking services based upon the B/A 1) Advising commission of A/P 2) Payment commission for A/P	Within 1 month after the signing of the contract	MOH	0.1% of the Project cost	-
		Every payment	MOF		
22	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country 1) Tax exemption and customs clearance of the products at the port of disembarkation 2) Internal transportation from the port of disembarkation to the project site	During the Project	MOH (Procurement)	-	-
			Contractor	-	-
23	To accord Japanese nationals and/or physical persons of third countries whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		MOH	-	-
24	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the country of the Recipient with respect to the purchase of the Products and/or the Services be exempted Such customs duties, internal taxes and other fiscal levies mentioned above include VAT, commercial tax, income tax and corporate tax of Japanese nationals, resident tax, fuel tax, but not limited, which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract		MOH	-	-
			MOH	-	-
25	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment	MOH	-	-	
26	To facilitate the exemption from the registration of the Project related Japanese contractors and consultants with the National Council of the Construction or other relevant agencies	Before Construction	MOH	-	-
27	To submit Project Monitoring Report	Every Month	MOH	-	MD

(A/P: Authorization to pay)

## 2) Chipata

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
21	Electricity Power supply to new substation and metering devices for the project	6 months Before Completion of the Construction	MOH	55	Draft Final Report Figure 2-41
22	Water Supply Water supply to the project site (from a well)			200	
23	Drainage Connection work of storm water drainage in the project site to existing off-site storm water open ditches			300	
24	Telephone system Provide telephone main trunk line to the main distribution frame/panel (MDF)			5	

## 3) Kanyama

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
21	Electricity Power supply to new substation and metering devices for the project	6 months Before Completion of the Construction	MOH	55	Draft Final Report Figure 2-43
22	Water Supply Water supply to the project site (from a well)			45	
23	Drainage Connection work of storm water drainage in the project site to existing off-site storm water open ditches			350	
24	Telephone system Provide telephone main trunk line to the main distribution frame/panel (MDF)			8	

## 4) Chawama

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
21	Electricity Power supply to new substation and metering devices for the project	6 months Before Completion of the Construction	MOH	55	Draft Final Report Figure 2-45
22	Water Supply Water supply to the project site (from a well)			200	
23	Drainage Connection work of storm water drainage in the project site to existing off-site storm water open ditches			45	
24	Telephone system Provide telephone main trunk line to the main distribution frame/panel (MDF)			5	

## (3) After the Project

## 1) Common

NO	Items	Deadline	In charge	Estimated Cost (1,000K)	Ref.
31	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid 1) Allocation of maintenance cost 2) Operations and maintenance structure 3) Routine check/Periodic inspection 4) Allocation of sufficient staff appropriately	After completion of the construction	MOH	-	-
32	To provide General furniture, linen, and curtains		MOH	Chipata:120 Kanyama:180 Chawama:120	-
33	To move to new facilities		MOH		-
34	To construct Exterior Work (landscaping, planting, etc.)		MOH	-	-

## 2. Major Undertakings to be Covered by the Japanese Grant

NO	Items	Deadline	Amount (Million Japanese Yen)*
1	To construct facilities and To procure equipment - Improvement of Chipata Level 1 Hospital, Kanyama Level 1 Hospital and Chawama Level 1 Hospital 1) To conduct the following transportation a) Marine(Air) transportation of the products from Japan to the recipient country b) Internal transportation from the port of disembarkation to the project site 2) To construct access roads a) Within the site 3) To construct the temporary building 4) To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities a) Electricity - The drop wiring and internal wiring within the site - The main circuit breaker and transformer b) Water Supply - The supply system within the site (receiving and/or elevated tanks) c) Drainage - The drainage system (for toilet sewer, ordinary waster, storm drainage and others) within the site d) Furniture and Equipment - Medical furniture and fixed furniture - Curtain rails and medical curtains - Supply and installation of medical equipment	During the Construction	
2	To implement detailed design, bidding support and construction supervision (Consulting Service)	During the Project	
	Total		

\*The amount is provisional. This is subject to the approval of the Government of Japan.

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**Project Monitoring Report**  
**on**  
**Project Name**  
**Grant Agreement No. XXXXXXXX**  
 20XX, Month

**Organizational Information**

<b>Signer of the G/A (Recipient)</b>	Person in Charge (Designation) _____
	Contacts _____
	Address: _____
	Phone/FAX: _____ Email: _____
<b>Executing Agency</b>	Person in Charge (Designation) _____
	Contacts _____
	Address: _____
	Phone/FAX: _____ Email: _____
<b>Line Ministry</b>	Person in Charge (Designation) _____
	Contacts _____
	Address: _____
	Phone/FAX: _____ Email: _____

**General Information:**

<b>Project Title</b>	
<b>E/N</b>	Signed date: Duration:
<b>G/A</b>	Signed date: Duration:
<b>Source of Finance</b>	Government of Japan: Not exceeding JPY _____ mil. Government of (_____): _____

**1: Project Description**

**1-1 Project Objective**

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**1-2 Project Rationale**

- Higher-level objectives to which the project contributes (national/regional/sectoral policies and strategies)
- Situation of the target groups to which the project addresses

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**1-3 Indicators for measurement of "Effectiveness"**

Quantitative indicators to measure the attainment of project objectives		
Indicators	Original (Yr )	Target (Yr )
Qualitative indicators to measure the attainment of project objectives		

**2: Details of the Project**

**2-1 Location**

Components	Original <i>(proposed in the outline design)</i>	Actual
1.		

**2-2 Scope of the work**

Components	Original* <i>(proposed in the outline design)</i>	Actual*
1.		

Reasons for modification of scope (if any).

(PMR)
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*Handwritten signature/initials*

*Handwritten initials JWM*

**2-3 Implementation Schedule**

Items	Original		Actual
	<i>(proposed in the outline design)</i>	<i>(at the time of signing the Grant Agreement)</i>	

Reasons for any changes of the schedule, and their effects on the project (if any)

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**2-4 Obligations by the Recipient**

**2-4-1 Progress of Specific Obligations**

See Attachment 2.

**2-4-2 Activities**

See Attachment 3.

**2-4-3 Report on RD**

See Attachment 11.

**2-5 Project Cost**

**2-5-1 Cost borne by the Grant(Confidential until the Bidding)**

Components			Cost (Million Yen)	
	Original <i>(proposed in the outline design)</i>	Actual <i>(in case of any modification)</i>	Original <sup>1)2)</sup> <i>(proposed in the outline design)</i>	Actual
	1.			
Total				

Note: 1) Date of estimation:  
 2) Exchange rate: 1 US Dollar = Yen

**2-5-2 Cost borne by the Recipient**

Components			Cost (1,000 Taka)	
	Original <i>(proposed in the outline design)</i>	Actual <i>(in case of any modification)</i>	Original <sup>1)2)</sup> <i>(proposed in the outline design)</i>	Actual
	1.			
Total				

*Handwritten signature/initials*

*Handwritten initials JWM*

Note: 1) Date of estimation:  
2) Exchange rate: 1 US Dollar =

Reasons for the remarkable gaps between the original and actual cost, and the countermeasures (if any)

(PMR)

**2-6 Executing Agency**

- Organization's role, financial position, capacity, cost recovery etc,
- Organization Chart including the unit in charge of the implementation and number of employees.

**Original** (at the time of outline design)  
name:  
role:  
financial situation:  
institutional and organizational arrangement (organogram):  
human resources (number and ability of staff):

**Actual** (PMR)

**2-7 Environmental and Social Impacts**

- The results of environmental monitoring based on Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- The results of social monitoring based on in Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- Disclosed information related to results of environmental and social monitoring to local stakeholders (whenever applicable).

**3: Operation and Maintenance (O&M)**

**3-1 Physical Arrangement**

- Plan for O&M (number and skills of the staff in the responsible division or section, availability of manuals and guidelines, availability of spareparts, etc.)

**Original** (at the time of outline design)

**Actual** (PMR)

**3-2 Budgetary Arrangement**

- Required O&M cost and actual budget allocation for O&M

**Original** (at the time of outline design)

45

Jm



**Actual (PMR)**

**4: Potential Risks and Mitigation Measures**

- Potential risks which may affect the project implementation, attainment of objectives, sustainability
- Mitigation measures corresponding to the potential risks

**Assessment of Potential Risks (at the time of outline design)**

Potential Risks	Assessment
1. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:
2. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:
3. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:

	Contingency Plan (if applicable):
<b>Actual Situation and Countermeasures</b>	
(PMR)	

**5: Evaluation and Monitoring Plan (after the work completion)**

**5-1 Overall evaluation**

Please describe your overall evaluation on the project.

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**5-2 Lessons Learnt and Recommendations**

Please raise any lessons learned from the project experience, which might be valuable for the future assistance or similar type of projects, as well as any recommendations, which might be beneficial for better realization of the project effect, impact and assurance of sustainability.

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**5-3 Monitoring Plan of the Indicators for Post-Evaluation**

Please describe monitoring methods, section(s)/department(s) in charge of monitoring, frequency, the term to monitor the indicators stipulated in 1-3.

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Attachment

1. Project Location Map
  2. Specific obligations of the Recipient which will not be funded with the Grant
  3. Monthly Report submitted by the Consultant
- Appendix - Photocopy of Contractor's Progress Report (if any)
- Consultant Member List
  - Contractor's Main Staff List
4. Check list for the Contract (including Record of Amendment of the Contract/Agreement and Schedule of Payment)
  5. Environmental Monitoring Form / Social Monitoring Form
  6. Monitoring sheet on price of specified materials (Quarterly)
  7. Report on Proportion of Procurement (Recipient Country, Japan and Third Countries) (PMR (final) only)
  8. Pictures (by JPEG style by CD-R) (PMR (final) only)
  9. Equipment List (PMR (final) only)
  10. Drawing (PMR (final) only)
  11. Report on RD (After project)



## Monitoring sheet on price of specified materials

## 1. Initial Conditions (Confirmed)

	Items of Specified Materials	Initial Volume A	Initial Unit Price (¥) B	Initial total Price C=A×B	1% of Contract Price D	Condition of payment	
						Price (Decreased) E=C-D	Price (Increased) F=C+D
1	Item 1	●●t	●	●	●	●	●
2	Item 2	●●t	●	●	●		
3	Item 3						
4	Item 4						
5	Item 5						

## 2. Monitoring of the Unit Price of Specified Materials

(1) Method of Monitoring : ●●

(2) Result of the Monitoring Survey on Unit Price for each specified materials

	Items of Specified Materials	1st	2nd	3rd	4th	5th	6th
		●month, 2015	●month, 2015	●month, 2015			
1	Item 1						
2	Item 2						
3	Item 3						
4	Item 4						
5	Item 5						

(3) Summary of Discussion with Contractor (if necessary)

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TW

## Report on Proportion of Procurement (Recipient Country, Japan and Third Countries)

(Actual Expenditure by Construction and Equipment each)

	Domestic Procurement (Recipient Country) A	Foreign Procurement (Japan) B	Foreign Procurement (Third Countries) C	Total D
Construction Cost	(A/D%)	(B/D%)	(C/D%)	
Direct Construction Cost	(A/D%)	(B/D%)	(C/D%)	
others	(A/D%)	(B/D%)	(C/D%)	
Equipment Cost	(A/D%)	(B/D%)	(C/D%)	
Design and Supervision Cost	(A/D%)	(B/D%)	(C/D%)	
Total	(A/D%)	(B/D%)	(C/D%)	

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JTM

## Standard Establishment for Level 1 Hospital in Lusaka

SECTION NAME	UNIT NAME	POST NAME	PROPOSED
ADMINISTRATION	ADMINISTRATION	MEDICAL OFFICER IN CHARGE	1
ADMINISTRATION	ADMINISTRATION	HOSPITAL ADMINISTRATOR	1
ADMINISTRATION	ADMINISTRATION	NIGHT SUPERINTENDENT	2
ADMINISTRATION	ADMINISTRATION	OFFICE ORDERLY	1
ADMINISTRATION	ADMINISTRATION	REGISTRY CLERK	2
ADMINISTRATION	ADMINISTRATION	SENIOR NURSING OFFICER	1
ADMINISTRATION	ADMINISTRATION	PRINCIPAL CLINICAL OFFICER	1
ADMINISTRATION	ADMINISTRATION	TELEPHONE OPERATOR	2
ADMINISTRATION	ADMINISTRATION	TYPIST	2
ADMINISTRATION	ADMINISTRATION	STENOGRAPHER	1
ADMINISTRATION	ADMINISTRATION	DRIVER	2
ADMINISTRATION	HUMAN RESOURCES	ASSISTANT HUMAN RESOURCES MANAGEMENT OFFICER	1
ADMINISTRATION	MAINTENANCE	MEDICAL EQUIPMENT TECHNOLOGIST	1
ADMINISTRATION	MAINTENANCE	ELECTRICAL TECHNICIAN	1
ADMINISTRATION	MAINTENANCE	REFRIDGERATION TECHNICIAN	1
ADMINISTRATION	MAINTENANCE	CARPENTER	1
ADMINISTRATION	MAINTENANCE	PLUMBER	1
ADMINISTRATION	MAINTENANCE	OUTDOOR SERVANT	1
ADMINISTRATION	CATERING	CATERING OFFICER	1
ADMINISTRATION	CATERING	COOK	2
ADMINISTRATION	CATERING	WAITER	2
ADMINISTRATION	LAUNDRY	LAUNDRYMAN	3
ADMINISTRATION	LAUNDRY	TAILOR	1
ADMINISTRATION	MORTUARY	MORTUARY ATTENDANT	2
ADMINISTRATION	SECURITY	SECURITY GUARD	4
PROCUREMENT	PROCUREMENT	PURCHASING AND SUPPLIES OFFICER	1
PROCUREMENT	PROCUREMENT	PURCHASING AND SUPPLIES ASSISTANT	1
HEALTH INFORMATION SYSTEMS & PLANNING		HEALTH INFORMATION OFFICER	1
HEALTH INFORMATION SYSTEMS & PLANNING		MEDICAL RECORDS OFFICER	1
HEALTH INFORMATION SYSTEMS & PLANNING		MEDICAL RECORDS CLERK	4
ENVIRONMENTAL HEALTH AND WASTE MANAGEMENT		ENVIRONMENTAL HEALTH TECHNOLOGIST	1
PHARMACY	BULK STORE	SENIOR PHARMACY TECHNOLOGIST	1
PHARMACY	BULK STORE	CLEANER	1
PHARMACY	PHARMACY	PHARMACY TECHNOLOGIST	1
PHARMACY	PHARMACY	PHARMACY DISPENSER	1
PHYSIOTHERAPY	PHYSIOTHERAPY	PHYSIOTHERAPIST	1
PHYSIOTHERAPY	PHYSIOTHERAPY	PHYSIOTHERAPY TECHNOLOGIST	2
RADIOLOGY	RADIOLOGY	RADIOGRAPHER	1
RADIOLOGY	RADIOLOGY	SENIOR RADIOGRAPHER	1
RADIOLOGY	RADIOLOGY	RADIOGRAPHY TECHNOLOGIST	3
RADIOLOGY	RADIOLOGY	DARKROOM ASSISTANT	2
NUTRITION	NUTRITION	NUTRITIONIST	1
LABORATORY	LABORATORY	SENIOR MEDICAL LABORATORY TECHNOLOGIST	1
LABORATORY	LABORATORY	MEDICAL LABORATORY TECHNOLOGIST	3
LABORATORY	LABORATORY	MEDICAL LABORATORY TECHNICIAN	1

## Annex 8

SECTION_NAME	UNIT_NAME	POST_NAME	PROPOSED
OUT-PATIENT	OUT-PATIENTS	MEDICAL LICENTIATE	1
OUT-PATIENT	OUT-PATIENTS	GENERAL MEDICAL OFFICER	1
OUT-PATIENT	OUT-PATIENTS	SENIOR CLINICAL OFFICER DERMATOLOGY	1
OUT-PATIENT	OUT-PATIENTS	CLINICAL OFFICER OPHTHALMOLOGY	1
OUT-PATIENT	OUT-PATIENTS	CLINICAL OFFICER	2
OUT-PATIENT	OUT-PATIENTS	CLINICAL OFFICER PSYCHIATRY	1
OUT-PATIENT	OUT-PATIENTS	NURSING SISTER	1
OUT-PATIENT	OUT-PATIENTS	REGISTERED NURSE	1
OUT-PATIENT	OUT-PATIENTS	ZAMBIA ENROLLED NURSE	5
OUT-PATIENT	OUT-PATIENTS	CLEANER	3
OUT-PATIENT	OUT-PATIENTS	PORTER	2
ANTIRETROVIRAL THERAPY		MEDICAL LICENTIATE	1
ANTIRETROVIRAL THERAPY		GENERAL MEDICAL OFFICER	1
ANTIRETROVIRAL THERAPY		CLINICAL OFFICER	2
ANTIRETROVIRAL THERAPY		NURSING SISTER	1
ANTIRETROVIRAL THERAPY		REGISTERED NURSE	1
ANTIRETROVIRAL THERAPY		ZAMBIA ENROLLED NURSE	2
ANTIRETROVIRAL THERAPY		PHARMACY TECHNOLOGIST	1
MEDICINE	MALE MEDICAL WARD	NURSING SISTER	1
MEDICINE	MALE MEDICAL WARD	REGISTERED NURSE	2
MEDICINE	MALE MEDICAL WARD	ZAMBIA ENROLLED NURSE	5
MEDICINE	FEMALE MEDICAL WARD	NURSING SISTER	1
MEDICINE	FEMALE MEDICAL WARD	REGISTERED NURSE	2
MEDICINE	FEMALE MEDICAL WARD	ZAMBIA ENROLLED NURSE	5
MEDICINE	FEMALE MEDICAL WARD	CLEANER	2
OBSTETRICS AND GYNAECOLOGY	GYNAECOLOGY WARD	MEDICAL LICENTIATE	1
OBSTETRICS AND GYNAECOLOGY	GYNAECOLOGY WARD	REGISTERED MIDWIFE	1
OBSTETRICS AND GYNAECOLOGY	GYNAECOLOGY WARD	ZAMBIA ENROLLED NURSE	6
OBSTETRICS AND GYNAECOLOGY	GYNAECOLOGY WARD	CLEANER	2
OBSTETRICS AND GYNAECOLOGY	OBSTETRICS WARD	SENIOR RESIDENT MEDICAL OFFICER	1
OBSTETRICS AND GYNAECOLOGY	OBSTETRICS WARD	NURSING SISTER	1
OBSTETRICS AND GYNAECOLOGY	OBSTETRICS WARD	REGISTERED MIDWIFE	2
OBSTETRICS AND GYNAECOLOGY	OBSTETRICS WARD	ZAMBIA ENROLLED MIDWIFE	7
OBSTETRICS AND GYNAECOLOGY	OBSTETRICS WARD	CLEANER	2
SURGICAL/ORTHOPEDIC	MALE SURGICAL WARD	CLINICAL OFFICER	1
SURGICAL/ORTHOPEDIC	MALE SURGICAL WARD	NURSING SISTER	1
SURGICAL/ORTHOPEDIC	MALE SURGICAL WARD	REGISTERED NURSE	2
SURGICAL/ORTHOPEDIC	MALE SURGICAL WARD	ZAMBIA ENROLLED NURSE	6
SURGICAL/ORTHOPEDIC	FEMALE SURGICAL WARD	REGISTERED MIDWIFE	1
SURGICAL/ORTHOPEDIC	FEMALE SURGICAL WARD	REGISTERED NURSE	1
SURGICAL/ORTHOPEDIC	FEMALE SURGICAL WARD	ZAMBIA ENROLLED NURSE	4
SURGICAL/ORTHOPEDIC	FEMALE SURGICAL WARD	CLEANER	2
THEATRE	THEATRE	THEATRE SUPERINTENDENT	1
THEATRE	THEATRE	SENIOR CLINICAL OFFICER ANAESTHESIA	1
THEATRE	THEATRE	CLINICAL OFFICER ANAESTHESIA	1
THEATRE	THEATRE	REGISTERED THEATRE NURSE	2
THEATRE	THEATRE	ZAMBIA ENROLLED NURSE	2
THEATRE	THEATRE	THEATRE ATTENDANT	2
THEATRE	THEATRE	PORTER	1
THEATRE	THEATRE	CLEANER	2
PAEDIATRICS	MEDICAL WARD	NURSING SISTER	1
PAEDIATRICS	MEDICAL WARD	REGISTERED NURSE	2
PAEDIATRICS	MEDICAL WARD	ZAMBIA ENROLLED NURSE	4
PAEDIATRICS	MEDICAL WARD	CLEANER	3
PAEDIATRICS	SURGICAL WARD	SENIOR RESIDENT MEDICAL OFFICER	1
PAEDIATRICS	SURGICAL WARD	REGISTERED NURSE	2
PAEDIATRICS	SURGICAL WARD	ZAMBIA ENROLLED NURSE	6
PAEDIATRICS	SURGICAL WARD	CLEANER	3
ORAL HEALTH	ORAL HEALTH	DENTAL SURGEON	1
ORAL HEALTH	ORAL HEALTH	DENTAL TECHNOLOGIST	1
ORAL HEALTH	ORAL HEALTH	DENTAL THERAPIST	2
ORAL HEALTH	ORAL HEALTH	CLEANER	1

### Timeline of Staff Recruitment Procedure for the Target Hospitals

*MH*

Output/Activity	2017												2018												2019												Responsible Organisation				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
<b>Construction</b>	From December 2017 to September 2019																																								
<b>Human Resource Planning &amp; Recruitment</b>																																									
<i>Medical Staff/Adminitrative staff</i>																																									
1. Request for establishment of necessary human resources for the target three health facilities (Chipata, Kanyama, and Chawama 1st level hospitals) to the Ministry of Health.																																									Lusaka Provincial Medical Office
2. Establishment approved by the Ministry of Health																																									Ministry of Health (MoH) HQ
3. Request the finance for human resources to the Ministry of Finance																																									MoH HQ
4. Funded with Treasury Authority from Ministry of Finance																																									MoH HQ
5. Recruitment																																									MoH HQ
6. Employment																																									LPHO, MoH HQ, Public Service Management Division (PSMD), Public Service Commision (PSC)

*JM*



## Maintenance Cost

## (1) Chipata Level 1 Hospital

Expense Item	First Year	Second Year and Beyond
① Electricity Charge	125,016	125,016
② Phone Charge	11,736	11,736
③ Generator Fuel Charge	27,740	27,740
④ Oxygen Gas Charge	14,256	14,256
⑤ Building Running Cost	0	15,144
⑥ Outsourcing Cost for Facility Equipment Maintenance	0	36,000
Subtotal ①~⑥ (Facility Maintenance Cost)	178,748	229,892
⑦ Medical Equipment Maintenance Cost	337,084	337,084
Total ① -⑦	515,832	566,976

Unit: Kwacha

## (2) Kanyama Level 1 Hospital

Expense Item	First Year	Second Year and Beyond
① Electricity Charge	156,120	156,120
② Phone Charge	10,008	10,008
③ Generator Fuel Charge	27,740	27,740
④ Oxygen Gas Charge	8,553	8,553
⑤ Building Running Cost	0	24,396
⑥ Outsourcing Cost for Facility Equipment Maintenance	0	30,000
Subtotal ①~⑥ (Facility Maintenance Cost)	202,421	256,817
⑦ Medical Equipment Maintenance Cost	332,246	332,246
Total ①~⑦	534,667	589,063

Unit: Kwacha

## (3) Chawama Level 1 Hospital

Expense Item	First Year	Second Year and Beyond
① Electricity Charge	125,016	125,016
② Phone Charge	11,736	11,736
③ Generator Fuel Charge	27,740	27,740
④ Oxygen Gas Charge	14,256	14,256
⑤ Building Running Cost	0	16,080
⑥ Outsourcing Cost for Main Equipment Maintenance	0	36,000
Subtotal ①~⑥ (Facility Maintenance Cost)	178,748	230,828
⑦ Equipment Maintenance Cost	338,432	338,432
total ①~⑦	517,180	569,260

Unit: Kwacha

\*The above estimated cost for each hospital covers only the facilities and equipment funded by the Japan's Grant Aid.

## Necessary Renovations to the Level 1 Hospital after construction of new hospital buildings

## 1) Chipata Level 1 Hospital

NO	Items
1	To renovate existing OPD as Physiotherapy
2	To renovate existing OP theatre as casualty
3	To renovate a part of existing ART as MCH (if necessary)

## 2) Kanyama Level 1 Hospital

NO	Items
1	To renovate existing OPD as MCH (if necessary)
2	To renovate existing OP theatres as casualty
3	To renovate existing Male, Female, and Paediatrics Ward as Paediatrics Ward
4	To renovate existing Ante-/Post-natal and Delivery Ward as Isolation Ward (if necessary)
5	To renovate existing ART as Administration (if necessary)

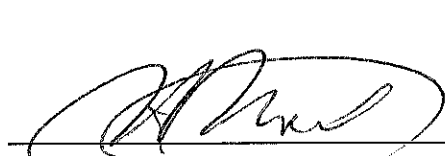
## 3) Chawama Level 1 Hospital

NO	Items
1	To renovate OP Theatre as casualty
2	To renovate OPD as MCH (if necessary)
3	To clear and level Physiotherapy (if necessary)

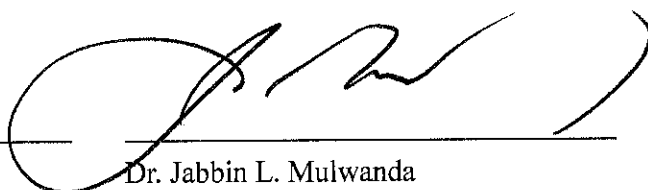
**Amendment of Minutes of Discussions  
on the Preparatory Survey for the Project for  
Upgrading of Lusaka Health Centres to Level 1 Hospitals  
(Explanation on Draft Preparatory Survey Report)**

The Japan International Cooperation Agency and Ministry of Health, the Republic of Zambia hereby agree that the minutes of discussions on the Preparatory Survey for the Project for Upgrading of Lusaka Health Centres to Level 1 Hospitals signed on 8th December, 2016 will be amended as attached;

Lusaka, 31 January, 2017



Mr. Hisanao Noda  
Chief Representative  
Zambia Office  
Japan International Cooperation Agency  
Japan



Dr. Jabbin L. Mulwanda  
Permanent Secretary (Technical Services)  
The Ministry of Health  
The Republic of Zambia

## ATTACHMENT

The details of amendments are as described.

### 1. Equipment List

Before	Amended Version
As attached Annex 4	As attached Annex 1
Reason: The equipment list attached to the M/D signed on 8 <sup>th</sup> December, 2016 is revised due to some mistakes.	

Annex 1 Equipment List (revised)

Annex 2 Minutes of Discussions (signed on 8th December, 2016)



## List of Equipment

## Chipata Level 1 Hospital

No.	Name of Equipment	Q'ty
<b>New Facility</b>		
<b>I. Outpatient Dept.</b>		
CP-1	Wheelchair	2
CP-2	Stretcher	2
<b>Consultation Room-2 (Eye / ENT)</b>		
CP-3	Diagnostic set for Eye and ENT	1
CP-4	Examination Desk set	1
CP-5	Equipment Cabinet	1
CP-6	Wastebin with lid	1
CP-7	Bed-side screen	1
<b>Consultation Room-3 (Gynaecology)</b>		
CP-8	Examination Desk set	1
CP-9	Equipment Cabinet	1
CP-10	Wastebin with lid	1
CP-11	Examination couch, gynecological	1
CP-12	Bed-side screen	1
CP-13	Examination light	1
CP-14	Thermometer, digital	1
CP-15	Stethoscope, binaural	1
CP-16	BP machine, adult	1
CP-17	Vaginal speculum, small	2
CP-18	Vaginal speculum, medium	3
CP-19	Vaginal speculum, large	3
CP-20	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-4</b>		
CP-21	Examination Desk set	1
CP-22	Equipment Cabinet	1
CP-23	Wastebin with lid	1
CP-24	Treatment table	1
CP-25	Bed-side screen	1
CP-26	Torch, medical, pen-sized	1
CP-27	Thermometer, digital	1
CP-28	Stethoscope, binaural	1
CP-29	BP machine, adult	1
CP-30	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-5</b>		
CP-31	Examination Desk set	1
CP-32	Equipment Cabinet	1
CP-33	Wastebin with lid	1
CP-34	Treatment table	1
CP-35	Bed-side screen	1
CP-36	Torch, medical, pen-sized	1
CP-37	Thermometer, digital	1
CP-38	Stethoscope, binaural	1

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No.	Name of Equipment	Q'ty
CP-39	BP machine, adult	1
CP-40	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-6</b>		
CP-41	Examination Desk set	1
CP-42	Equipment Cabinet	1
CP-43	Wastebin with lid	1
CP-44	Treatment table	1
CP-45	Bed-side screen	1
CP-46	Torch, medical, pen-sized	1
CP-47	Thermometer, digital	1
CP-48	Stethoscope, binaural	1
CP-49	BP machine, adult	1
CP-50	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-7 (Vital)</b>		
CP-51	Examination Desk set	1
CP-52	Equipment Cabinet	1
CP-53	Wastebin with lid	1
CP-54	Treatment table	1
CP-55	Bed-side screen	1
CP-56	Torch, medical, pen-sized	1
CP-57	Thermometer, digital	1
CP-58	Stethoscope, binaural	1
CP-59	BP machine, adult	1
CP-60	X-ray film viewer (Wall mounted type)	1
CP-61	Weighing scale, adult	2
CP-62	Chart, vision-testing, Snellen type	1
CP-63	Patella hammer	1
CP-64	Suction pump, electric	1
CP-65	Ambu bag for adults	1
CP-66	Ambu bag for children	1
CP-67	Dressing trolley	3
CP-68	Pulse oximeter, finger type	2
<b>Treatment Room</b>		
CP-69	Drainage set	3
CP-70	Dressing set	3
CP-71	Suturing set	6
CP-72	Instrument tray, medium	3
CP-73	Drip stand	2
CP-74	Treatment table	2
<b>Ultrasonography Room</b>		
CP-75	Ultrasonic diagnostic device	1
CP-76	Treatment table	1
<b>X-Ray Room</b>		
CP-77	Actinic marker	1
CP-78	Film processor, automatic	1
CP-79	Lead apron	1
CP-80	X-ray film viewing box (Stand type)	1
CP-81	X-ray loading bench (Film hopper)	1

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No.	Name of Equipment	Q'ty
CP-82	X-ray equipment	1
<b>Consultation Room-1 (TB)</b>		
CP-83	Examination Desk set	1
CP-84	Equipment Cabinet	1
CP-85	Wastebin with lid	1
CP-86	Treatment table	1
CP-87	Bed-side screen	1
CP-88	Torch, medical, pen-sized	1
CP-89	Thermometer, digital	1
CP-90	Stethoscope, binaural	1
CP-91	BP machine, adult	1
CP-92	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-1 (Paediatrics)</b>		
CP-93	Examination Desk set	1
CP-94	Equipment Cabinet	1
CP-95	Wastebin with lid	1
CP-96	Treatment table	1
CP-97	Bed-side screen	1
CP-98	Torch, medical, pen-sized	1
CP-99	Thermometer, digital	1
CP-100	Weighing trousers	1
CP-101	Salter scale	1
CP-102	Stethoscope, binaural	1
CP-103	BP machine, child	1
CP-104	Ear syringe	1
CP-105	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-2 (Dentistry)</b>		
CP-106	Bench top autoclave	1
CP-107	Dental treatment unit	1
CP-108	Dental film processor	1
CP-109	Dental instrument cabinet	1
CP-110	Dental instrument set	3
CP-111	Dental light curing unit	1
CP-112	Dental treatment trolley	1
CP-113	Dental x-ray unit	1
CP-114	Ultrasonic dental scaler	1
CP-115	Lead apron	1
<b>Pharmacy</b>		
CP-116	20 ml medicine cup	1
CP-117	Drug cabinet, lockable	1
CP-118	Pharmacy apparatus set	1
CP-119	Mixer	1
CP-120	Mortar and pestle	1
CP-121	Pharmacy balance	1
CP-122	Pharmacy heavy duty trolley	1
CP-123	Pharmacy refrigerator	1
CP-124	Tablet and capsule counter	1
CP-125	Tablet counting tray	1

No.	Name of Equipment	Q'ty
CP-126	Vaccine refrigerator	1
CP-127	Water distiller	1
	<b>2. Operation Dept.</b>	
	<b>Theatre</b>	
CP-128	Ambu bag for adults	1
CP-129	Ambu bag for children	1
CP-130	Anesthetic machine	1
CP-131	BP machine, adult	2
CP-132	Bucket, stainless steel with cover	4
CP-133	Electro surgical unit	1
CP-134	Drip stand	2
CP-135	Medical cabinet	1
CP-136	Footstool, one-step	2
CP-137	Laryngoscope set	1
CP-138	Equipment Cabinet	1
CP-139	Mayo table	2
CP-140	Operating stools, revolving	2
CP-141	Operating-room light, fixed, ceiling mounted	2
CP-142	Operating-room light, portable, with stand	2
CP-143	Oxygen concentrator	2
CP-144	Stretcher	2
CP-145	Recovery bed	2
CP-146	Stethoscope, fetal, Pinard	1
CP-147	Vital signs monitor, portable	2
CP-148	X-Ray film viewing box (Stand type)	1
CP-149	Medicine refrigerator	1
CP-150	Suction pump, electric	2
CP-151	Set, amputation	3
CP-152	Set, bilateral tubal ligation	3
CP-153	Set, caesarian section	6
CP-154	Set, Hysterectomy	1
CP-155	Set, dilatation and curettage Set (D+C set)	3
CP-156	Set, laparotomy	3
CP-157	Set, minor surgery	3
	<b>Sterilization Room / Sluice Room</b>	
CP-158	Autoclave, electric, 400 liters	1
CP-159	Bed pan washer	1
CP-160	Sterilizing drum, large	4
CP-161	Sterilizing drum, medium	4
	<b>3. Surgical Ward (Caesarean)</b>	
	<b>Nurse Station</b>	
CP-162	Equipment Cabinet	1
CP-163	Wastebin with lid	1
	<b>Treatment Room</b>	
CP-164	Vaginal speculum, small	2
CP-165	Vaginal speculum, medium	3
CP-166	Vaginal speculum, large	3
CP-167	Thermometer, digital	2

No.	Name of Equipment	Q'ty
CP-168	Salter scale	1
CP-169	Weighing trousers	1
CP-170	BP machine, adult	1
CP-171	Glucometer	1
CP-172	Instrument tray, large	1
CP-173	Dressing tray, medium	1
CP-174	Dressing trolley	1
CP-175	Dressing set	2
CP-176	Treatment table	1
	<b>Ward</b>	
CP-177	Hospital bed (Adult)	8
CP-178	Bed-side cabinet, hospital model	8
CP-179	Drip stand	4
CP-180	Infant cot	3
CP-181	X-ray equipment (Mobile type)	1
	<b>Side Ward</b>	
CP-182	Hospital bed (Adult)	1
CP-183	Bed-side cabinet, hospital model	1
	<b>4. Maternity Dept.</b>	
	<b>Nurse Station</b>	
CP-184	Equipment Cabinet	1
CP-185	Wastebin with lid	1
	<b>Treatment Room</b>	
CP-186	Examination couch, gynecological	1
CP-187	Footstool, one-step	1
CP-188	Examination light	1
CP-189	Traube	1
CP-190	Vaginal speculum, small	2
CP-191	Vaginal speculum, medium	3
CP-192	Vaginal speculum, large	3
	<b>Pre-natal Room</b>	
CP-193	Hospital bed (Adult)	16
	<b>Delivery Room</b>	
CP-194	Instrument cabinet	1
CP-195	Instrument trolley	2
CP-196	Drip stand	4
CP-197	Footstool, one-step	4
CP-198	Operating stool, revolving	4
CP-199	Vaginal delivery/episiotomy set	5
CP-200	Kick-about bowl	4
CP-201	Manual vacuum aspiration (MVA) kit	5
CP-202	Vacuum extractor, electrical	2
CP-203	Weighing scale, infant, beam type	1
CP-204	Suction pump, electric	2
CP-205	BP machine, adult	1
CP-206	Transport Incubator	1
CP-207	Ultrasonic diagnostic device(Mobile type)	1

No.	Name of Equipment	Q'ty
	<b>Post-natal Room</b>	
CP-208	Hospital bed (Adult)	8
CP-209	Bed pan	1
	<b>Premature Infant Room</b>	
CP-210	Infant warmer	3
	<b>Existing Facility</b>	
	<b>5. Casualty</b>	
CP-211	Wheelchair	1
CP-212	Stretcher	1
CP-213	Hospital bed (Adult)	3
CP-214	Hospital bed cradle	1
CP-215	Bed-side screen	2
CP-216	Over-bed table	1
CP-217	Bed pan	1
CP-218	Excretion care set	1
CP-219	Drip stand	4
CP-220	Oxygen concentrator	1
CP-221	Suction pump, electric	1
CP-222	Ambu bag for adults	1
CP-223	Ambu bag for children	1
CP-224	Diagnostic set	1
CP-225	X-Ray film viewing box (Stand type)	1
	<b>6. Ward (Except Obstetrics Ward)</b>	
	<b>Nurse Station</b>	
CP-226	Equipment Cabinet	1
CP-227	Wastebin with lid	1
	<b>Ward</b>	
CP-228	Hospital bed (Adult)	5
CP-229	Bed pan	1
CP-230	Excretion care set	1
CP-231	Thermometer, digital	2
CP-232	Weighing scale, adult	1
CP-233	Stethoscope, binaural	2
CP-234	BP machine, adult	2
CP-235	BP machine, child	1
CP-236	Glucometer	2
CP-237	Medicine trolley	1
CP-238	Dressing tray, medium	1
CP-239	Dressing trolley	1
CP-240	Dressing set	3
CP-241	Drip stand	6
CP-242	Oxygen concentrator	2
CP-243	Suction pump, electric	1
CP-244	Pulse oximeter, finger type	2
	<b>7. Laboratory Dept.</b>	
CP-245	Anaerobic jar	1
CP-246	Analytical balance	1
CP-247	Autoclave for laboratory, medium	1

No.	Name of Equipment	Q'ty
CP-248	Blood bank refrigerator	1
CP-249	Bunsen burner	1
CP-250	Differential counter	1
CP-251	Flammable liquid cabinet	1
CP-252	Hot air oven	1
CP-253	Hot plate, controlled temperature	1
CP-254	Laboratory incubator, medium	1
CP-255	Laboratory refrigerator/freezer	1
CP-256	Microhaematocrit centrifuge	1
CP-257	Micropipettes, automated	1
CP-258	pH meter	1
CP-259	Roller/mixer	1
CP-260	Timer	1
CP-261	Water bath	1
CP-262	Water distiller	1
	<b>8. Maintenance</b>	
CP-263	Maintenance Set	1

**Note:**

**1. MOH will prepare back up generator for the following equipment.**

**Blood bank refrigerator, Laboratory refrigerator/freezer in the existing Laboratory**

**2. Engineer of MOH will maintain Bedpan Washer.**

## List of Equipment

## Kanyama Level 1 Hospital

No.	Name of Equipment	Q'ty
<b>New Facility</b>		
<b>1. Outpatient Dept.</b>		
K-1	Wheelchair	2
K-2	Stretcher	2
<b>Consultation Room-1 (Vital)</b>		
K-3	Examination Desk set	1
K-4	Equipment Cabinet	1
K-5	Wastebin with lid	1
K-6	Treatment table	1
K-7	Bed-side screen	1
K-8	Torch, medical, pen-sized	1
K-9	Thermometer, digital	1
K-10	Stethoscope, binaural	1
K-11	BP machine, adult	1
K-12	X-ray film viewer (Wall mounted type)	1
K-13	Weighing scale, adult	2
K-14	Chart, vision-testing, Snellen type	1
K-15	Patella hammer	1
K-16	Suction pump, electric	1
K-17	Resuscitation bag set	1
K-18	Medicine trolley	3
K-19	Pulse oximeter, finger type	2
<b>Consultation Room-2</b>		
K-20	Examination Desk set	1
K-21	Equipment Cabinet	1
K-22	Wastebin with lid	1
K-23	Treatment table	1
K-24	Bed-side screen	1
K-25	Torch, medical, pen-sized	1
K-26	Thermometer, digital	1
K-27	Stethoscope, binaural	1
K-28	BP machine, adult	1
K-29	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-3</b>		
K-30	Examination Desk set	1
K-31	Equipment Cabinet	1
K-32	Wastebin with lid	1
K-33	Treatment table	1
K-34	Bed-side screen	1
K-35	Torch, medical, pen-sized	1
K-36	Thermometer, digital	1
K-37	Stethoscope, binaural	1
K-38	BP machine, adult	1
K-39	X-ray film viewer (Wall mounted type)	1



No.	Name of Equipment	Q'ty
<b>Consultation Room-4</b>		
K-40	Examination Desk set	1
K-41	Equipment Cabinet	1
K-42	Wastebin with lid	1
K-43	Treatment table	1
K-44	Bed-side screen	1
K-45	Torch, medical, pen-sized	1
K-46	Thermometer, digital	1
K-47	Stethoscope, binaural	1
K-48	BP machine, adult	1
K-49	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-5</b>		
K-50	Examination Desk set	1
K-51	Equipment Cabinet	1
K-52	Wastebin with lid	1
K-53	Treatment table	1
K-54	Bed-side screen	1
K-55	Torch, medical, pen-sized	1
K-56	Thermometer, digital	1
K-57	Stethoscope, binaural	1
K-58	BP machine, adult	1
K-59	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-6 (Gynaecology)</b>		
K-60	Examination Desk set	1
K-61	Equipment Cabinet	1
K-62	Wastebin with lid	1
K-63	Examination couch, gynecological	1
K-64	Bed-side screen	1
K-65	Examination light	1
K-66	Thermometer, digital	1
K-67	Stethoscope, binaural	1
K-68	BP machine, adult	1
K-69	X-ray film viewer (Wall mounted type)	1
K-70	Vaginal speculum, small	2
K-71	Vaginal speculum, medium	3
K-72	Vaginal speculum, large	3
<b>Consultation Room-7 (Eye / ENT)</b>		
K-73	Diagnostic set for Eye and ENT	1
K-74	Examination Desk set	1
K-75	Equipment Cabinet	1
K-76	Wastebin with lid	1
K-77	Bed-side screen	1
<b>Consultation Room-8 (Dentistry)</b>		
K-78	Bench top autoclave	1
K-79	Dental treatment unit	1
K-80	Dental film processor	1
K-81	Dental instrument cabinet	1
K-82	Dental instrument set	3

No.	Name of Equipment	Q'ty
K-83	Dental light curing unit	1
K-84	Dental treatment trolley	1
K-85	Dental x-ray unit	1
K-86	Ultrasonic dental scaler	1
K-87	Lead apron	1
	<b>Treatment Room</b>	
K-88	Drainage set	3
K-89	Dressing set	3
K-90	Suturing set	3
K-91	Instrument tray, medium	3
K-92	Drip stand	2
K-93	Treatment table	2
	<b>Pharmacy</b>	
K-94	20 ml medicine cup	1
K-95	Drug cabinet, lockable	1
K-96	Graduated glass measure	1
K-97	Mixer	1
K-98	Mortar and pestle	1
K-99	Pharmacy balance	1
K-100	Pharmacy heavy duty trolley	1
K-101	Pharmacy refrigerator	1
K-102	Tablet and capsule counter	1
K-103	Tablet counting tray	1
K-104	Vaccine refrigerator	1
K-105	Water distiller	1
	<b>Laboratory</b>	
K-106	Anaerobic jar	1
K-107	Analytical balance	1
K-108	Autoclave for laboratory, medium	1
K-109	Binocular microscope	1
K-110	Blood bank refrigerator	1
K-111	Bunsen burner	1
K-112	Centrifuge, small	1
K-113	Differential counter	1
K-114	Flammable liquid cabinet	1
K-115	Hot air oven	1
K-116	Hot plate, controlled temperature	1
K-117	Laboratory incubator, medium	1
K-118	Laboratory refrigerator/freezer	1
K-119	Microhaematocrit centrifuge	1
K-120	Micropipettes, automated	1
K-121	pH meter	1
K-122	Roller/mixer	1
K-123	Timer	1
K-124	Water bath	1
K-125	Water distiller	1
	<b>Ultrasonography Room</b>	
K-126	Ultrasonic diagnostic device	1

No.	Name of Equipment	Q'ty
K-127	Treatment table	1
	<b>X-ray Room</b>	
K-128	Actinic marker	1
K-129	Film processor, automatic	1
K-130	Lead apron	1
K-131	X-Ray film viewing box (Stand type)	1
K-132	X-Ray loading bench (Film hopper)	1
K-133	X-ray equipment	1
	<b>Consultation Room-1 (Paediatrics)</b>	
K-134	Examination Desk set	1
K-135	Equipment Cabinet	1
K-136	Wastebin with lid	1
K-137	Treatment table	1
K-138	Bed-side screen	1
K-139	Torch, medical, pen-sized	1
K-140	Thermometer, digital	1
K-141	Stethoscope, binaural	1
K-142	BP machine, child	1
K-143	X-ray film viewer (Wall mounted type)	1
K-144	Salter scale	1
K-145	Weighing trousers	1
K-146	Ear syringe	1
K-147	Resuscitation bag set	1
	<b>Consultation Room-2 (TB)</b>	
K-148	Examination Desk set	1
K-149	Equipment Cabinet	1
K-150	Wastebin with lid	1
K-151	Treatment table	1
K-152	Bed-side screen	1
K-153	Torch, medical, pen-sized	1
K-154	Thermometer, digital	1
K-155	Stethoscope, binaural	1
K-156	BP machine, adult	1
K-157	X-ray film viewer (Wall mounted type)	1
	<b>2. Operation Dept.</b>	
	<b>Theatre</b>	
K-158	Ambu bag for adults	1
K-159	Ambu bag for children	1
K-160	Anesthetic machine	1
K-161	BP machine, adult	2
K-162	Bucket, stainless steel with cover	4
K-163	Electro surgical unit	1
K-164	Drip stand	2
K-165	Medical cabinet	1
K-166	Footstool, one-step	2
K-167	Laryngoscope set	1
K-168	Equipment Cabinet	1
K-169	Mayo table	2

No.	Name of Equipment	Q'ty
K-170	Infant warmer	1
K-171	Operating stools, revolving	2
K-172	Operating-room light, fixed, ceiling mounted	2
K-173	Operating-room light, portable, with stand	2
K-174	Oxygen concentrator	2
K-175	Stretcher	2
K-176	Pulse oximeter, separate	2
K-177	Recovery bed	2
K-178	Stethoscope, binaural	1
K-179	Vital signs monitor, portable	2
K-180	X-Ray film viewing box (Stand type)	1
K-181	Medicine refrigerator	1
K-182	Suction pump, electric	2
K-183	Set, amputation	3
K-184	Set, bilateral tubal ligation	3
K-185	Set, caesarian section	6
K-186	Set, Hysterectomy	1
K-187	Set, dilatation and curettage (D+C set)	3
K-188	Set, laparotomy	3
K-189	Set, minor surgery	3
	<b>Sterilization Room / Sluice Room</b>	
K-190	Autoclave, electric, 400 liters	1
K-191	Bed pan washer	1
K-192	Sterilizing drum, large	4
K-193	Sterilizing drum, medium	4
	<b>3. Maternity Dept. (Pre-natal Room)</b>	
	<b>Nurse Station</b>	
K-194	Instrument cabinet	1
K-195	Wastebin with lid	1
	<b>Pre-natal Room</b>	
K-196	Hospital bed (Adult)	20
	<b>4. Surgical Ward (Caesarean)</b>	
	<b>Nurse Station</b>	
K-197	Instrument cabinet	1
K-198	Wastebin with lid	1
	<b>Treatment Room</b>	
K-199	Vaginal speculum, small	1
K-200	Vaginal speculum, medium	2
K-201	Vaginal speculum, large	2
K-202	Thermometer, digital	2
K-203	Thermometer	2
K-204	Salter scale	1
K-205	Weighing trousers	1
K-206	BP machine, adult	1
K-207	Glucometer	1
K-208	Medicine trolley	1
K-209	Dressing tray, medium	1
K-210	Dressing trolley	1

No.	Name of Equipment	Q'ty
K-211	Dressing set	2
K-212	Treatment table	1
	<b>Ward</b>	
K-213	Drip stand	6
K-214	Hospital bed (Adult)	12
K-215	Bed-side cabinet, hospital model	12
K-216	Infant cot	4
K-217	X-ray equipment (Mobile type)	1
	<b>Side Ward</b>	
K-218	Hospital bed (Adult)	1
K-219	Bed-side cabinet, hospital model	1
	<b>5. Medical Ward (Female)</b>	
	<b>Nurse Station</b>	
K-220	Equipment cabinet	1
K-221	Wastebin with lid	1
	<b>Ward</b>	
K-222	Hospital bed (Adult)	21
K-223	Drip stand	10
	<b>Side Ward</b>	
K-224	Hospital bed (Adult)	1
K-225	Bed-side cabinet, hospital model	1
	<b>Treatment Room</b>	
K-226	Treatment table	1
K-227	Thermometer, digital	2
K-228	Weighing scale, adult	1
K-229	Stethoscope, binaural	2
K-230	BP machine, adult	2
K-231	Glucometer	2
K-232	Drip stand	1
K-233	Oxygen concentrator	2
K-234	Suction pump, electric	1
K-235	Pulse oximeter, finger type	2
K-236	Dressing trolley	1
	<b>6. Medical Ward (Male)</b>	
	<b>Nurse Station</b>	
K-237	Instrument cabinet	1
K-238	Wastebin with lid	1
	<b>Ward</b>	
K-239	Hospital bed (Adult)	21
K-240	Excretion care set	1
K-241	Drip stand	10
	<b>Side Ward</b>	
K-242	Hospital bed (Adult)	1
K-243	Bed-side cabinet, hospital model	1
	<b>Treatment Room</b>	
K-244	Treatment table	1
K-245	Thermometer, digital	2
K-246	Weighing scale, adult	1

No.	Name of Equipment	Q'ty
K-247	Stethoscope, binaural	2
K-248	BP machine, adult	2
K-249	Glucometer	2
K-250	Drip stand	1
K-251	Oxygen concentrator	2
K-252	Suction pump, electric	1
K-253	Pulse oximeter, finger type	2
K-254	Dressing trolley	1
<b>Existing facility</b>		
<b>7. Casualty</b>		
K-255	Wheelchair	1
K-256	Stretcher	1
K-257	Hospital bed (Adult)	3
K-258	Hospital bed cradle	1
K-259	Bed-side screen	2
K-260	Over-bed table	1
K-261	Excretion care set	1
K-262	Drip stand	4
K-263	Oxygen concentrator	1
K-264	Suction pump, electric	1
K-265	Ambu bag for adults	1
K-266	Ambu bag for children	1
K-267	Diagnostic set	1
K-268	X-Ray film viewing box (Stand type)	1
<b>8. Ward (Paediatrics)</b>		
K-269	Hospital bed cradle	4
K-270	BP machine, child	1
<b>9. Delivery</b>		
K-271	Examination couch, gynecological	1
K-272	Footstool, one-step	1
K-273	Examination light	1
K-274	Traube	1
K-275	Vaginal speculum, small	2
K-276	Vaginal speculum, medium	3
K-277	Vaginal speculum, large	3
K-278	Ultrasonic diagnostic device (Mobile type)	1
<b>10. Maintenance</b>		
K-279	Maintenance Set	1

**Note:**

**1. Engineer of MOH will maintain Bedpan Washer.**

## List of Equipment

## Chawama Level 1 Hospital

No.	Name of Equipment	Q'ty
<b>New Facility</b>		
<b>1. Outpatient Dept.</b>		
CW-1	Wheelchair	2
CW-2	Stretcher	2
<b>Consultation Room-1 (Dentistry)</b>		
CW-3	Bench top autoclave	1
CW-4	Dental treatment unit	1
CW-5	Dental film processor	1
CW-6	Dental instrument cabinet	1
CW-7	Dental instrument set	3
CW-8	Dental light curing unit	1
CW-9	Dental treatment trolley	1
CW-10	Dental x-ray unit	1
CW-11	Ultrasonic dental scaler	1
CW-12	Lead apron	1
<b>Consultation Room-2 (Paediatrics)</b>		
CW-13	Examination Desk set	1
CW-14	Equipment Cabinet	1
CW-15	Wastebin with lid	1
CW-16	Treatment table	1
CW-17	Bed-side screen	1
CW-18	Torch, medical, pen-sized	1
CW-19	Thermometer, digital	1
CW-20	Salter scale	1
CW-21	Weighing trousers	1
CW-22	Stethoscope, binaural	1
CW-23	BP machine, child	1
CW-24	Ear syringe	1
CW-25	Ambu bag for children	1
CW-26	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-3 (Vital)</b>		
CW-27	Examination Desk set	1
CW-28	Equipment Cabinet	1
CW-29	Wastebin with lid	1
CW-30	Treatment table	1
CW-31	Bed-side screen	1
CW-32	Torch, medical, pen-sized	1
CW-33	Thermometer, digital	1
CW-34	Weighing scale, adult	2
CW-35	Stethoscope, binaural	1
CW-36	BP machine, adult	1
CW-37	Chart, vision-testing, Snellen type	1
CW-38	Patella hammer	1
CW-39	Suction pump, electric	1

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No.	Name of Equipment	Q'ty
CW-40	Ambu bag for adults	1
CW-41	Medicine trolley	3
CW-42	Pulse oximeter, (finger type)	2
CW-43	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-4</b>		
CW-44	Examination Desk set	1
CW-45	Equipment Cabinet	1
CW-46	Wastebin with lid	1
CW-47	Treatment table	1
CW-48	Bed-side screen	1
CW-49	Torch, medical, pen-sized	1
CW-50	Thermometer, digital	1
CW-51	Stethoscope, binaural	1
CW-52	BP machine, adult	1
CW-53	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-5</b>		
CW-54	Examination Desk set	1
CW-55	Equipment Cabinet	1
CW-56	Wastebin with lid	1
CW-57	Treatment table	1
CW-58	Bed-side screen	1
CW-59	Torch, medical, pen-sized	1
CW-60	Thermometer, digital	1
CW-61	Stethoscope, binaural	1
CW-62	BP machine, adult	1
CW-63	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-6</b>		
CW-64	Examination Desk set	1
CW-65	Equipment Cabinet	1
CW-66	Wastebin with lid	1
CW-67	Treatment table	1
CW-68	Bed-side screen	1
CW-69	Torch, medical, pen-sized	1
CW-70	Thermometer, digital	1
CW-71	Stethoscope, binaural	1
CW-72	BP machine, adult	1
CW-73	X-ray film viewer (Wall mounted type)	1
<b>Consultation Room-7 (Gynaecology)</b>		
CW-74	Examination Desk set	1
CW-75	Equipment Cabinet	1
CW-76	Wastebin with lid	1
CW-77	Examination couch, gynecological	1
CW-78	Bed-side screen	1
CW-79	Examination light	1
CW-80	Thermometer, digital	1
CW-81	Stethoscope, binaural	1
CW-82	BP machine, adult	1
CW-83	Vaginal speculum, small	2

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No.	Name of Equipment	Q'ty
CW-84	Vaginal speculum, medium	3
CW-85	Vaginal speculum, large	3
CW-86	X-ray film viewer (Wall mounted type)	1
	<b>Consultation Room-8 (Eye / ENT)</b>	
CW-87	Diagnostic set for Eye and ENT	1
CW-88	Examination Desk set	1
CW-89	Equipment Cabinet	1
CW-90	Wastebin with lid	1
CW-91	Bed-side screen	1
	<b>Treatment Room</b>	
CW-92	Drainage set	3
CW-93	Dressing set	3
CW-94	Suturing set	3
CW-95	Instrument tray, medium	3
CW-96	Drip stand	1
CW-97	Treatment table	2
	<b>Pharmacy</b>	
CW-98	20 ml medicine cup	1
CW-99	Drug cabinet, lockable	1
CW-100	Pharmacy apparatus set	1
CW-101	Mixer	1
CW-102	Mortar and pestle	1
CW-103	Pharmacy balance	1
CW-104	Pharmacy heavy duty trolley	1
CW-105	Pharmacy refrigerator	1
CW-106	Tablet and capsule counter	1
CW-107	Tablet counting tray	1
CW-108	Vaccine refrigerator	1
CW-109	Water distiller	1
	<b>Ultrasonography Room</b>	
CW-110	Ultrasonic diagnostic device	1
CW-111	Treatment table	1
	<b>X-ray Room</b>	
CW-112	Actinic marker	1
CW-113	Film processor, automatic	1
CW-114	Lead apron	1
CW-115	X-Ray film viewing box (Stand type)	1
CW-116	X-Ray loading bench (Film hopper)	1
CW-117	X-ray equipment	1
	<b>2. Operation Dept.</b>	
	<b>Theatre</b>	
CW-118	Ambu bag for adults	1
CW-119	Ambu bag for children	1
CW-120	Anesthetic machine	1
CW-121	BP machine, adult	2
CW-122	Bucket, stainless steel with cover	4
CW-123	Electro surgical unit	1
CW-124	Drip stand	2

No.	Name of Equipment	Q'ty
CW-125	Dangerous drugs, cabinet	1
CW-126	Footstool, one-step	2
CW-127	Laryngoscope set	1
CW-128	Instrument cabinet	1
CW-129	Mayo table	2
CW-130	Operating stools, revolving	2
CW-131	Operating-room light, fixed, ceiling mounted	2
CW-132	Operating-room light, portable, with stand	2
CW-133	Oxygen concentrator	2
CW-134	Stretcher	2
CW-135	Pulse oximeter, separate	2
CW-136	Recovery bed	2
CW-137	Stethoscope, binaural	1
CW-138	Vital signs monitor, portable	2
CW-139	X-Ray film viewing box (Stand type)	1
CW-140	Medicine refrigerator	1
CW-141	Suction pump, electric	2
CW-142	Set, amputation	3
CW-143	Set, bilateral tubal ligation	3
CW-144	Set, caesarian section	6
CW-145	Set, Hysterectomy	1
CW-146	Set, dilatation and curettage Set (D+C set)	3
CW-147	Set, laparotomy	3
CW-148	Set, minor surgery	3
	<b>Sterilization Room/Sluice Room</b>	
CW-149	Autoclave, electric, 400 liters	1
CW-150	Bed pan washer	1
CW-151	Sterilizing drum, large	4
CW-152	Sterilizing drum, medium	4
	<b>3. Surgical Ward (Caesarean)</b>	
	<b>Nurse Station</b>	
CW-153	Equipment Cabinet	1
CW-154	Wastebin with lid	1
	<b>Treatment Room</b>	
CW-155	Vaginal speculum, small	1
CW-156	Vaginal speculum, medium	2
CW-157	Vaginal speculum, large	2
CW-158	Dressing tray, medium	1
CW-159	Dressing trolley	1
CW-160	Dressing set	2
CW-161	Treatment table	1
	<b>Ward</b>	
CW-162	Thermometer, digital	2
CW-163	Salter scale	1
CW-164	Weighing trousers	1
CW-165	BP machine, adult	1
CW-166	Glucometer	1
CW-167	Medicine Trolley	1



No.	Name of Equipment	Q'ty
CW-168	Drip stand	4
CW-169	Hospital bed (Adult)	7
CW-170	Bed-side cabinet, hospital model	7
CW-171	Infant cot	2
CW-172	X-ray equipment (Mobile type)	1
	<b>Side Ward</b>	
CW-173	Hospital bed (Adult)	1
CW-174	Bed-side cabinet, hospital model	1
	<b>4. Physiotherapy Dept.</b>	
	<b>Physiotherapy Room</b>	
CW-175	Therapeutic Ultrasound Machine	2
CW-176	Infra-red Irradiation Machine	2
CW-177	Short wave diathermy	1
CW-178	Infra red, Lumber sacral	1
CW-179	Quadriceps Bench	1
CW-180	Treadmill Machine	2
CW-181	Ultraviolet, Limp	2
CW-182	Treatment couch	3
CW-183	Elliptical	2
CW-184	Electrical Cervical/Lumber traction	2
CW-185	Gathre Smith suspension	1
CW-186	Stationary bike	2
CW-187	Wave therapy	1
	<b>5. Outpatient Dept. (TB)</b>	
	<b>Consultation Room-1 (TB)</b>	
CW-188	Examination Desk set	1
CW-189	Equipment Cabinet	1
CW-190	Wastebin with lid	1
CW-191	Treatment table	1
CW-192	Bed-side screen	1
CW-193	Torch, medical, pen-sized	1
CW-194	Thermometer, digital	1
CW-195	Stethoscope, binaural	1
CW-196	BP machine, adult	1
CW-197	X-ray film viewer (Wall mounted type)	1
	<b>Existing facility</b>	
	<b>6. Medical Ward</b>	
	<b>Nurse Station</b>	
CW-198	Equipment Cabinet	1
CW-199	Wastebin with lid	1
	<b>Ward</b>	
CW-200	Bed pan	1
CW-201	Excretion care set	1
CW-202	Thermometer, digital	2
CW-203	Weighing scale, adult	1
CW-204	Stethoscope, binaural	2
CW-205	BP machine, adult	2
CW-206	BP machine, child	1

No.	Name of Equipment	Q'ty
CW-207	Glucometer	2
CW-208	Medicine trolley	1
CW-209	Dressing tray, medium	1
CW-210	Dressing trolley	1
CW-211	Dressing set	3
CW-212	Drip stand	6
CW-213	Oxygen concentrator	2
CW-214	Suction pump, electric	1
CW-215	Pulse oximeter, finger type	2
	<b>7. Maternity Dept.</b>	
	<b>Nurse Station</b>	
CW-216	Equipment Cabinet	1
CW-217	Wastebin with lid	1
	<b>Pre-natal Room</b>	
CW-218	Examination couch, gynecological	1
CW-219	Footstool, one-step	1
CW-220	Examination light	1
CW-221	Traube	1
CW-222	Vaginal speculum, small	2
CW-223	Vaginal speculum, medium	3
CW-224	Vaginal speculum, large	3
	<b>Delivery Room</b>	
CW-225	Instrument cabinet	1
CW-226	Instrument trolley	2
CW-227	Drip stand	4
CW-228	Footstool, one-step	4
CW-229	Operating stool, revolving	2
CW-230	Vaginal delivery/episiotomy set	5
CW-231	Kick-about bowl	2
CW-232	Manual vacuum aspiration (MVA) kit	5
CW-233	Vacuum extractor, electrical	1
CW-234	Weighing scale, infant, beam type	1
CW-235	Suction pump, electric	1
CW-236	BP machine, adult	1
CW-237	Ultrasonic diagnostic device (Mobile type)	1
	<b>Post-natal Room</b>	
CW-238	Bed pan	1
	<b>8. Casualty</b>	
CW-239	Wheelchair	1
CW-240	Stretcher	1
CW-241	Hospital bed (Adult)	3
CW-242	Hospital bed cradle	1
CW-243	Bed-side screen	2
CW-244	Over-bed table	1
CW-245	Bed pan	1
CW-246	Excretion care set	1
CW-247	Drip stand	4
CW-248	Oxygen concentrator	1

No.	Name of Equipment	Q'ty
CW-249	Suction pump, electric	1
CW-250	Ambu bag for adults	1
CW-251	Ambu bag for children	1
CW-252	Diagnostic set	1
CW-253	X-Ray film viewing box (Stand type)	1
<b>9. Laboratory Dept.</b>		
CW-254	Anaerobic jar	1
CW-255	Analytical balance	1
CW-256	Autoclave for laboratory, medium	1
CW-257	Binocular microscope	1
CW-258	Blood bank refrigerator	1
CW-259	Bunsen burner	1
CW-260	Centrifuge, small	1
CW-261	Differential counter	1
CW-262	Flammable liquid cabinet	1
CW-263	Hot air oven	1
CW-264	Hot plate, controlled temperature	1
CW-265	Laboratory incubator, medium	1
CW-266	Laboratory refrigerator/freezer	1
CW-267	Microhaematocrit centrifuge	1
CW-268	Micropipettes, automated	1
CW-269	pH meter	1
CW-270	Roller/mixer	1
CW-271	Timer	1
CW-272	Water bath	1
CW-273	Water distiller	1
<b>10. Maintenance</b>		
CW-274	Maintenance Set	1

**Note:**

1. MOH will prepare back up generator for the following equipment.  
Blood bank refrigerator, Laboratory refrigerator/freezer in the existing Laboratory
2. Engineer of MOH will maintain Bedpan Washer.



ザンビア国  
第二次ルサカ郡病院整備計画

技術指導（ソフトコンポーネント）計画

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1. ソフトコンポーネントを計画する背景
2. ソフトコンポーネントの目標
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4. 成果達成度の確認方法
5. ソフトコンポーネントの活動（投入計画）
6. ソフトコンポーネントの実施リソースの調達方法
7. ソフトコンポーネントの実施工程
8. ソフトコンポーネントの成果品
9. 相手国実施機関の責務

2017年1月

株式会社 日本設計  
株式会社 フジタプランニング



## 1. ソフトコンポーネントを計画する背景

本計画では、ルサカ郡にあるチパタ 1 次レベル病院、カニヤマ 1 次レベル病院、チャワマ 1 次レベル病院の格上げにより、リファラルシステムを機能させ、同じくルサカ郡にある第 4 次医療施設であるザンビア大学附属教育病院の混雑緩和、負担軽減を目指している。本施設工事・機材調達のコンポーネントにおいては、チパタ 1 次レベル病院では外来棟・手術棟、専門外来・産科棟を、カニヤマ 1 次レベル病院では手術・検査棟、外来棟、病棟を、チャワマ 1 次レベル病院では外来棟、手術棟の建設ならびに各 1 次レベル病院に必要な医療機材の整備を行う。

調査団は 2016 年 2 月 15 日～3 月 13 日までの現地調査を通じ、現状の施設及び機材維持管理方法について下記の問題点を示した。

- ① 郡保健局の維持管理担当者が複数の 1 次レベル病院の維持管理を担当しているが、各 1 次レベル病院まできめ細かく目が行き届いていない。
- ② 施設機器や医療機材の故障による医療サービスレベルの低下。
- ③ 医療系排水の適切な処理が不十分であり、周辺環境の悪化と院内感染の危険性がある。
- ④ 施設機器の保守点検、使用点検が定期的に行われていない。

上記の問題点に対し、「ザ」国側から日本側に新設施設・機材の維持管理システム及び排水システムに係る技術指導が要請された。

「ザ」国では保健省、州保健局、郡保健局にいる施設・機材の担当者が 1 次レベル病院の管理を行っており、調査時点では 1 次レベル病院に維持管理担当者は配置されていない。1 次レベル病院の維持管理については、郡保健局がルサカ郡を 4 つのゾーンに分けて、それぞれ 2 名ずつの郡保健局のエンジニアが各ゾーン内の 1 次レベル病院を巡回して維持管理を行っているのが現状である。現地調査では、保健省が本計画に合わせて、チパタ 1 次レベル病院、カニヤマ 1 次レベル病院、チャワマ 1 次レベル病院の施設及び機材の運用維持管理を適切に行うために、無償資金協力実施後、病院施設・医療機材の維持管理に対応できるように 1 次レベル病院の配置基準に沿った人材であるテクノロジストを配置し、施設及び医療機材維持管理部門の設置を計画していることを確認している。また、医療機材の適切な維持管理のために「ザ」国の代理店等と連携を図ることを計画している。

消耗品および機材のスベアパーツは郡の部品倉庫にて上述した郡保健局の機材維持管理担当者により一括管理されている。3 か所の一次レベル病院にそれぞれ配置される維持管理担当者は、各施設に配分された消耗品や部品の在庫管理を施設レベルで行い、必要に応じて郡の部品倉庫から取り寄せる。

期待される主な項目は以下のとおりである。

- ① 周辺環境、院内感染、医療サービスの継続性の観点から、医療スタッフに施設機器及び医療機材の維持管理の重要性を認識させ、意識を徹底させるとともに、スタッフの知識・技術レベルが向上する。
- ② 施設機器及び医療機材の管理台帳、故障履歴、配置場所等が把握可能な管理システム、

消耗品・交換部品を管理する在庫管理システム、日常及び定期点検のシステム構築による予防メンテナンスの効果により、事前の予算確保が可能となることで故障期間の短縮、院内感染の危険性の低減、医療サービスレベルの維持が可能となる。

- ③ 排水システム運用の適正化により、院内及び院外の環境が改善される。
- ④ 施設機器の保守点検及び使用点検が定期的に行われる。

またソフトコンポーネント実施にあたって、自立発展性を高めるため、計画作成は参加型とし、ワークショップを行いながら計画・内容をまとめていく手法を採用する。なお医療機材維持管理システム、台帳などのフォーマットについては最近まで実施されていた技術協力プロジェクト（保健投資支援プロジェクト）の内容と齟齬が生じないよう成果を引き継ぎ、技術協力プロジェクトとの連携がスムーズに行われるように十分配慮する。

## 2. ソフトコンポーネントの目標

- ① 医療施設・機材維持管理体制構築の重要性が対象病院において認識される。
- ② 対象病院において医療施設・医療機材の維持管理体制が整備され、適正な維持管理が行われていく。
- ③ 対象病院において施設機器の保守点検及び使用点検が定期的に行われ、施設機器の運用状況が改善される。

### 3. ソフトコンポーネントの成果（直接的効果）

ソフトコンポーネント完了時に達成されるべき成果は表-1のとおりである。

表-1 ソフトコンポーネントの直接的効果

技術指導内容	直接的効果
維持管理体制の重要性の指導	<ul style="list-style-type: none"> <li>・維持管理システム強化の重要性が認識される。</li> <li>・自立的な維持管理システムが構築され、適正要員確保ができるようになる。</li> <li>・予防保全維持管理が十分認識される。</li> </ul>
施設機器の定期的保守点検、使用点検の指導	<ul style="list-style-type: none"> <li>・施設機器の保守点検及び使用点検が定期的に行われる。</li> </ul>
維持管理体制構築・管理能力向上の指導	<ul style="list-style-type: none"> <li>・スタッフの維持管理能力レベルが向上する。</li> <li>・施設の適切な利用、運用が図られる。</li> <li>・機材の故障時の対応が向上し、定期点検が実施されるようになる。</li> <li>・機材の故障時の対応方法が周知され、必要な連絡や修理が出来るようになる。</li> </ul>
年間維持管理計画作成とその執行の指導	<ul style="list-style-type: none"> <li>・適正要員(人数及び能力)が任命される。</li> <li>・年間の維持管理計画が作成され、予算化ができるようになる。</li> <li>・次年度に必要な消耗品、予備品名称と数量、経費が把握でき、スムーズな執行ができるようになる。</li> </ul>

### 4. 成果達成度の確認方法

ソフトコンポーネント完了時に達成されるべき成果の達成度を確認する項目は表-2のとおりである。

表-2 成果達成度の確認方法

項目	確認方法
維持管理体制の重要性の指導	<ul style="list-style-type: none"> <li>・維持管理要員の任命状況の確認</li> <li>・維持管理予算の申請又は確保状況等、予算確保に対する活動が適切に行われたかの確認</li> </ul>
施設機器の定期的保守点検、使用点検の指導	<ul style="list-style-type: none"> <li>・施設機器の定期的な保守点検及び使用点検の実施状況の確認。</li> </ul>
維持管理体制構築・管理能力向上の指導	<ul style="list-style-type: none"> <li>・維持管理体制フローの確認</li> <li>・医療機器台帳の確認</li> <li>・定期的な点検シート、調整計画の確認</li> <li>・予防保全維持管理の実施状況の確認</li> <li>・維持管理部門による医師・看護師への説明・指導の実施状況の確認</li> </ul>
年間維持管理計画作成とその執行の指導	<ul style="list-style-type: none"> <li>・メンテナンス記録、年間維持管理計画等の書類の確認</li> <li>・翌年の維持管理予算計画の確認</li> </ul>

## 5. ソフトコンポーネントの活動（投入計画）

以下に施設機器及び医療機材の活動内容を示す。

表-3 ソフトコンポーネント（施設機器）の活動内容

邦人コンサルタント：

1. 施設維持管理技術者Ⅰ：空調設備、衛生設備、特殊設備対応
2. 施設維持管理技術者Ⅱ：受変電設備、弱電設備対応

対象機器：

受変電設備、非常用発電機、市水処理設備、実験排水処理設備（中和槽）、浄化槽及び浸透槽、医療ガス設備、ナースコール

項目	投入計画	対象者	回数	内容	成果品
維持管理体制の重要性の指導	<ul style="list-style-type: none"> <li>施設全体の設備設計の趣旨及び内容の説明を行う。</li> <li>日本の維持管理システムを紹介し、実習として維持管理システム案の骨子と概略の業務フローを作成する。</li> </ul>	院長（1名） 施設維持管理担当者（1名） （×各3病院）	1回目現地指導	対象施設機器の保守点検及び使用点検を定期的に行う重要性の指導を行う。	—
施設機器の定期的保守点検、使用点検の指導	<ul style="list-style-type: none"> <li>定期的な保守点検及び使用点検の指導を行う。</li> </ul>	施設維持管理担当者（1名） 病院各部門より（全10名） （×各3病院）	2、3回目現地指導	非常用発電機は通常配電を年に一度停止させ、正常に機能するかどうか確認する指導を行う。  ナースコールを半年に一度一斉点検する指導を行う。  他の設備機器も適正な点検頻度を設け、保守点検及び使用点検を行う指導を行う。	<ul style="list-style-type: none"> <li>保守点検及び使用点検マニュアル</li> </ul>
維持管理体制構築・管理能力向上の指導	<ul style="list-style-type: none"> <li>既設維持管理実習の確認、維持管理システムフロー、作業フローチャート、各種フォーマットを日本の事例を利用して作成する。</li> </ul>	施設維持管理担当者（1名）病院各部門より（全10名） （×各3病院）	2、3回目現地指導	維持管理に関する各種フォーマットを日本の事例を参考にして作成する。	<ul style="list-style-type: none"> <li>維持管理業務計画</li> <li>維持管理体制</li> <li>予防保全維持管理計画</li> <li>施設機器の機器台帳</li> </ul>
年間維持管理計画作成とその執行の指導	<ul style="list-style-type: none"> <li>年間維持管理計画作成の指導を行う。</li> <li>年間予算作成の指導を行う。</li> <li>交換部品発注・在庫管理手法の指導を行う。</li> </ul>	施設維持管理担当者（1名）経理部長（1名） （×各3病院）	2、3回目現地指導	年間維持管理計画の及び機器台帳の作成、維持管理予算計画作成の指導を行う。	<ul style="list-style-type: none"> <li>年間維持管理計画（技プロ作成フォーマット）</li> <li>維持管理予算計画</li> </ul>

表-4 ソフトコンポーネント（医療器材）の活動内容

邦人コンサルタント：

1. 機材維持管理技術者：機材維持管理システム対応

対象機材：

- 一般 X 線撮影装置、超音波診断装置、麻酔器、電気メス、患者監視装置、保育器（搬送用）、インファントウォーマー、オートクレーブ（電動、400ℓ）

項目	投入計画	対象者	回数	内容	成果品
維持管理体制の重要性の指導	・日本の維持管理システムを紹介し、実習として維持管理システム案の骨子と概略の業務フローを作成する。また維持管理実習を指導する。	院長（1名） 医療器材維持管理担当者（1名） 病院各部門（10名） （×各3病院）	1回目現地指導	維持管理システム案及び業務フローを理解する。	—
維持管理体制構築・管理能力向上の指導	・既設維持管理実習の確認、維持管理システムフロー、作業フローチャート、各種フォーマットを日本の事例を利用し作成する。 ・施設機器・医療器材の機器台帳（日常点検シートを含む）を作成する。	医療器材維持管理担当者（1名） 病院各部門（10名） （×各3病院）	2、3回目現地指導	維持管理に関する各種フォーマットを日本の事例を参考に作成する。	・維持管理業務計画 ・予防保全維持管理計画 ・施設・器材の機器台帳
年間維持管理計画作成とその執行の指導	・年間維持管理計画作成の指導を行う。 ・年間予算作成の指導を行う。 ・交換部品発注・在庫管理手法の指導を行う。	医療器材維持管理担当者（1名） 経理部長（1名） （×各3病院）	2、3回目現地指導	年間維持管理費計画の作成及び維持管理予算計画作成の指導を行う。	・年間維持管理計画（技プロ作成フォーマット） ・維持管理予算計画

## 6. ソフトコンポーネントの実施リソースの調達方法

本ソフトコンポーネントは、直接支援型とする。「ザ」国において施設・機材維持管理を専門に行っているローカルコンサルタント及び施設・機材の維持管理会社はないが、無償資金協力「ザンビア国ルサカ郡病院整備計画」（以下、フェーズ1という）においてソフトコンポーネントを受講して既に実務を行っているチレンジェ、マテロ病院の担当者及び州保健局、郡保健局の担当者にも実務面での経験から生じる事項及び適応策についてアドバイスをしていただき、本ソフトコンポーネントの指導内容に組み込む。

## 7. ソフトコンポーネントの実施工程

ソフトコンポーネントの作業日程表及び実施工程表は以下のとおりである。

表-5 ソフトコンポーネントの作業日程表

### ■国内作業日程表

第1回現地指導前(施設維持管理技術者Ⅰ/機材維持管理技術者)	
予定	
1	
2	維持管理体制案及び指導用資料作成
3	
4	
5	予防保全維持管理計画案作成
6	
7	
8	維持管理組織図案、維持管理人員配置計画案作成
9	

0.45MM

### ■現地作業日程表

第1回現地指導(施設維持管理技術者Ⅰ/機材維持管理技術者)	
予定	
1	成田発
2	ルサカ着
3	保健省・州保健局打合せ
4	団内打合せ・資料整理
5	団内打合せ・資料整理
6	チバタ維持管理体制作成・指導・打合せ
7	カニヤマ維持管理体制作成・指導・打合せ
8	チャワマ維持管理体制作成・指導・打合せ
9	チバタ予防保全維持管理計画作成
10	カニヤマ予防保全維持管理計画作成
11	団内打合せ・資料整理
12	団内打合せ・資料整理
13	チャワマ予防保全維持管理計画作成
14	JICA・保健省報告
15	ルサカ発
16	成田着

0.53MM

### ■現地作業日程表

第2回現地指導(施設維持管理技術者Ⅰ/機材維持管理技術者)	
予定	
1	成田発
2	ルサカ着
3	保健省・州保健局・病院打合せ
4	チバタ維持管理マニュアルの再確認
5	カニヤマ維持管理マニュアルの再確認
6	チャワマ維持管理マニュアルの再確認
7	団内打合せ・資料整理
8	団内打合せ・資料整理
9	チバタ維持管理実施トレーニング、保守点検及び使用点検の指導
10	チバタ維持管理実施トレーニング、排水処理システム運用計画の指導
11	カニヤマ維持管理実施トレーニング、保守点検及び使用点検の指導
12	カニヤマ維持管理実施トレーニング、排水処理システム/中和槽運用計画の指導
13	チャワマ維持管理実施トレーニング、保守点検及び使用点検の指導
14	団内打合せ・資料整理
15	団内打合せ・資料整理
16	チャワマ維持管理実施トレーニング、排水処理システム運用計画の指導
17	JICA・保健省報告
18	ルサカ発
19	成田着

0.63MM

### ■国内作業日程表

第3回現地指導後(施設維持管理技術者Ⅰ/機材維持管理技術者)	
予定	
1	維持管理予算計画案作成
2	
3	機器台帳案作成
4	
5	JICA説明・打合せ、最終報告書修正・完成

0.25MM

### ■現地作業日程表

第3回現地指導(施設維持管理技術者Ⅰ/機材維持管理技術者/施設維持管理技術者Ⅱ)	
予定	
1	成田発
2	ルサカ着
3	保健省・州保健局・病院打合せ
4	チバタ維持管理マニュアルの再確認・維持管理予算計画の指導、機器台帳作成の指導
5	カニヤマ維持管理マニュアルの再確認・維持管理予算計画の指導、機器台帳作成の指導
6	チャワマ維持管理マニュアルの再確認・維持管理予算計画の指導、機器台帳作成の指導
7	団内打合せ・資料整理
8	団内打合せ・資料整理
9	チバタ維持管理実施トレーニング、維持管理予算計画の作成
10	チバタ維持管理実施トレーニング、機器台帳の作成
11	カニヤマ維持管理実施トレーニング、維持管理予算計画の作成
12	カニヤマ維持管理実施トレーニング、機器台帳の作成
13	チャワマ維持管理実施トレーニング、維持管理予算計画の作成
14	団内打合せ・資料整理
15	団内打合せ・資料整理
16	チャワマ維持管理実施トレーニング、機器台帳の作成
17	JICA・保健省報告
18	ルサカ発
19	成田着

0.63MM

### 国内作業配員

- ・第1回現地指導前 施設維持管理技術者Ⅰ、機材維持管理技術者
  - ・第3回現地指導後 施設維持管理技術者Ⅰ、機材維持管理技術者
- ※配員は全て3号

### 現地指導配員

- ・第1回 施設維持管理技術者Ⅰ、機材維持管理技術者
- ・第2回 施設維持管理技術者Ⅰ、機材維持管理技術者
- ・第3回 施設維持管理技術者Ⅰ、機材維持管理技術者、施設維持管理技術者Ⅱ

※配員は全て3号

指導を行う邦人コンサルタントは、保健省にフェーズ1でソフトコンポーネントを経験した保健省、州保健局、郡保健局の担当者を指導者として選定していただく。チパタ1次レベル病院・カニヤマ1次レベル病院・チャワマ1次レベル病院関係者とは合意に基づく指導・協力内容と全体スケジュールとを策定し、順次、投入と成果を評価しながら技術指導の実際の実施時期の調整を行なう。なお全体の流れとして以下を想定している。ただし、作業の中で施設機器について本プロジェクトに適合したフォーマット・システムを日本で作成し現地で再調整を行うが、医療機材は基本的に技プロ作成フォーマット・システムを引き継ぐ。

(1) 事前国内準備

想定される施設の維持管理システムについての資料、各種フォーマット、業務フローチャート等を国内にて準備し、技プロ作成フォーマットを含め、最初のワークショップに事例として示せるようにする。

(2) 1回目現地指導

院長、施設維持管理担当者、医療機材維持管理担当者に対し、維持管理体制強化にあたっての啓発を行うとともに、現状の維持管理業務の問題点を洗い出して投入計画案作成を指導する。また、病院側の受入体制、維持管理組織が確立されているか確認する。なお、維持管理体制及び予防保全管理計画を作成する。

(3) 2回目現地指導

1回目の現地指導で作成された各フォーマット及び維持管理体制の運用状況を確認し、必要なシステムや各種フォーマットの修正を行うとともに、必要な追加指導を行う。

また本計画の施設機器（空調・医療ガス・排水処理・受変電・発電機・弱電機器等）及び医療機材についてはこの時期に機器が設置されていることから、新設の施設・機材機器に対するより具体的な機器台帳等の作成を指導する。

(4) 3回目現地指導

現地指導で作成された各台帳・フォーマットの最終確認・修正を行うとともに、国内作業で準備した最終指導項目に従い新設施設・医療機材の維持管理計画最終案作成を指導する。特に、年間維持管理計画・年間維持管理予算計画・予備品管理計画の作成指導を行い、最終的な維持管理計画の報告を行う。

(5) 国内作業

1回目、2回目及び3回目の技術指導等の結果をまとめ、最終レポートとして報告書を作成する。



表-6 ソフトコンポーネントの実施工程表

月数	1	2	3	4	5	6	7	8	9	10	11	12	13
(施設)													
工事	—————												
(機材)													
製造・調達	—————												
輸送						—————							
通関・免除措置								—————					
据付工事等、検収・引渡し										—————			
ソフトコンポーネント <input type="checkbox"/> 国内作業 <input checked="" type="checkbox"/> 現地作業						<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						0.45MM	0.53MM			0.63MM	0.63MM	0.25MM	

8. ソフトコンポーネントの成果品

表-7 ソフトコンポーネントの成果品

項目	成果品
施設機器の保守点検及び使用点検の指導	・施設機器の保守点検及び使用点検マニュアル
維持管理システムの重要性の指導	・維持管理体制案 ・維持管理組織図 ・維持管理人員配置計画 ・維持管理体制の台帳（技プロ作成フォーマット）
維持管理システム構築・管理能力向上の指導	・維持管理業務計画 ・予防保全維持管理計画 ・施設・機材の機器台帳
年間維持管理計画作成とその執行の指導	・機器台帳 ・年間維持管理計画 ・維持管理予算計画 ・維持管理体制の台帳（技プロ作成フォーマット）

## 9. 相手国実施機関の責務

本ソフトコンポーネントは「ザ」国側の自立発展性を確保するために行われるため、各指導は可能な限り「ザ」国側の自発的な活動を促す手法をとる必要がある。従って、「ザ」国側実施機関の本ソフトコンポーネントへの十分な理解と協力が必要となる。

具体的には、保健省、州保健局、郡保健局、チパタ 1 次レベル病院、カニヤマ 1 次レベル病院、チャワマ 1 次レベル病院の各責任者による本協力の目標と実施要領への理解と配慮がまず必要である。また最も重要な点はソフトコンポーネント実施のための要員の適切な配置が必須であり、ソフトコンポーネント実施前に、「ザ」国保健省が一定の技術レベルを持った施設維持管理技術者及び医療機材維持管理技術者を任命する必要がある。そしてこれらの技術者に対して日本側から本ソフトコンポーネントの実施を通じて、技術指導・協力を行うことになる。またソフトコンポーネント実施期間中及び完了後も実施機関である保健省、州保健局、郡保健局、チパタ 1 次レベル病院、カニヤマ 1 次レベル病院、チャワマ 1 次レベル病院の院長をはじめとする各責任者はチパタ 1 次レベル病院、カニヤマ 1 次レベル病院、チャワマ 1 次レベル病院の責任管理者として、施設・医療機材の維持管理について継続的に指導・管理を実施することが要求される。

## 資料6. 参考資料

番号	名称	形態	形式/コピー	言語	発行機関 (収集先)	発行年
1	The State of the World Children	Electronic data	Copy	EN	UNICEF	2015
2	MDG Progress Report	Electronic data	Copy	EN	UNDP	2013
3	The 2013 Annual Health Statistical Bulletin	Electronic data	Copy	EN	Ministry of Health	2013
4	National Health Care Package	Paper	Original	EN	Ministry of Health	2012
5	2010 Census of Population and Housing Population and Demographic Projections 2011-2035	Electronic data	Copy	EN	Central Statistical Office	2013
6	Revised Sixth National Development Plan 2013-2016	Electronic data	Copy	EN	Ministry of Finance	2014
7	National Health Strategic Plan 2011-2015	Electronic data	Copy	EN	Ministry of Health	
8	6th Zambia Economic Brief	Electronic data	Copy	EN	World Bank Group	2015
9	The Proposed 2016-2018 Medium Term Expenditure Framework and the 2016 Budget Green Paper	Electronic data	Copy	EN	Ministry of Finance	2015
10	2016 Activity Based Budget Highlights	Electronic data	Copy	EN	Ministry of Health	
11	Planning and Budgeting Technical Planning updates for MTEF 2016-2019	Electronic data	Copy	EN	Ministry of Health	
12	Lusaka DHO Action Plan 2016-2018	Electronic data	Copy	EN	District Health Office	2015
13	National Human Resource for Health Strategic Plan 2011-2015	Electronic data	Copy	EN	Ministry of Health	2011
14	National Training Operational Plan 2013 to 2016	Electronic data	Copy	EN	Ministry of Health	2013
15	UTH Action Plan 2016-2018	Electronic data	Copy	EN	Ministry of Health	2015
16	ザンビア政府開発援助 (ODA)国別データブック	Electronic data	Copy	JP	日本外務省	2014
17	Equipment Planning and Monitoring Tool Procedures Manual	Paper	Copy	EN	Ministry of Health	2008

資料 7 . 郵便局移設と敷地使用に関する承認レター



All correspondence should be addressed to the District Medical Officer

Tel: +260-211-235554  
Fax: +260-211236429

In reply please quote  
No:.....

REPUBLIC OF ZAMBIA  
**MINISTRY OF HEALTH**

LUSAKA DISTRICT HEALTH OFFICE  
P.O. BOX 50827  
LUSAKA

16<sup>th</sup> June 2016

Hon Laurence Sichalwe  
Office of the Vice President  
Cabinet Office  
Lusaka

Dear Sir

**RE: LETTER OF SUPPORT FOR APPROVAL TO USE THE POST OFFICE AREA FOR EXPANSION OF CHAWAMA CLINIC INTO A LEVEL ONE HOSPITAL**

Following the meeting held at Chawama clinic on 9<sup>th</sup> June 2016, between, JICA representatives, Ministry of Health, Lusaka DHO, Lusaka PHO, Chawama clinic, Community representatives and yourself, I am hereby following up the request made by JICA for a letter showing approval to use the post Office area for expansion of Chawama clinic into a level one Hospital.

Since JICA indicated that they will no longer use the football pitch for hospital upgrade, the alternate was to use the post office space. This therefore calls for shifting of the post office from its current location so that the hospital can be built starting from that area.

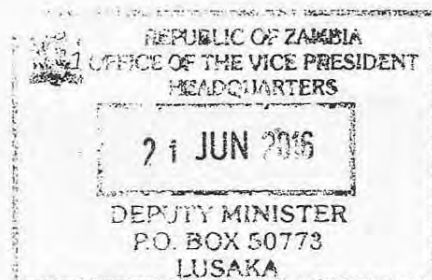
Please note that if we cannot show proof of approval for this space then the Chawama Hospital upgrade project will be suspended.

Find attached a proposed plan for the areas of construction

Your quick and favorable response will be highly appreciated  
Yours Sincerely,

Dr. Gideon Zulu,  
District Medical Officer  
Lusaka District Health Office

CC: Lusaka Provincial Medical Officer



24<sup>th</sup> June, 2016

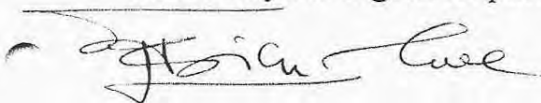
The Permanent Secretary  
Ministry of Transport and Communications  
**LUSAKA**

**RE: RELOCATION OF CHAWAMA POST OFFICE**

We write to seek your approval to relocate the Chawama Post Office to vertically opposite its current location to pave way for expansion of Chawama Clinic into a level one Hospital, as per attached documents.

The Office of the Member of Parliament shall facilitate construction of the new post office structure, as per Council approved plan, before commencement of Clinic expansion project.

We await your urgent response.



Lawrence Sichalwe  
Deputy Minister

**OFFICE OF THE VICE PRESIDENT**

c.c. The District Medical Officer  
Lusaka District Health Office  
**LUSAKA**

c.c. Lusaka Provincial Medical Officer  
**LUSAKA**



All correspondence to be addressed  
to the Permanent Secretary

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253504/251740

Telegrams: TRANSWORKS, RIDGEWAY



REPUBLIC OF ZAMBIA

In reply please quote:

No. MTC/104/1/7

## MINISTRY OF TRANSPORT AND COMMUNICATIONS

P. O. BOX 50065  
LUSAKA

7<sup>th</sup> July 2016

Hon. Laurence Sicalwe  
Deputy Minister  
Office of the Vice President  
Cabinet Office  
LUSAKA



**RE: RELOCATION OF CHAWAMA POST OFFICE**

Reference is made to the above subject matter.

The Ministry is in receipt of your letter dated 24<sup>th</sup> June 2016 seeking approval to relocate Chawama Post Office to pave way for the expansion of Chawama Clinic into a level one Hospital.

The purpose of this letter is to grant approval for the relocation of the Post Office following the construction of a new structure to be facilitated by your office as indicated in your letter.

Eng. Misheck Lungu  
Permanent Secretary

**MINISTRY OF COMMUNICATIONS AND TRANSPORT**

/an