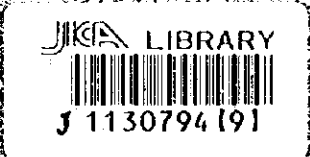


Study Report
on
The Project on Improvement
of Equipment for Health Facility
in Refugees Affected Areas
of Ngara and Karagwe District,
Kagera Region
United Republic of Tanzania

March 1996



Japan International Cooperation Agency

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PREFACE

In response to a request from the Government of the United Republic of Tanzania, the Government of Japan decided to conduct a basic design study on the Project on Improvement of Equipment for Health Facility in Refugees Affected Areas of Ngara and Karagwe District, Kagera Region and entrusted the Japan International Cooperation Agency (JICA) to conduct the study with the assistance of the Japan International Cooperation System (JICS).

I hope that this report will contribute to the promotion of the project and to the enhancement of friendly relations between our two countries.

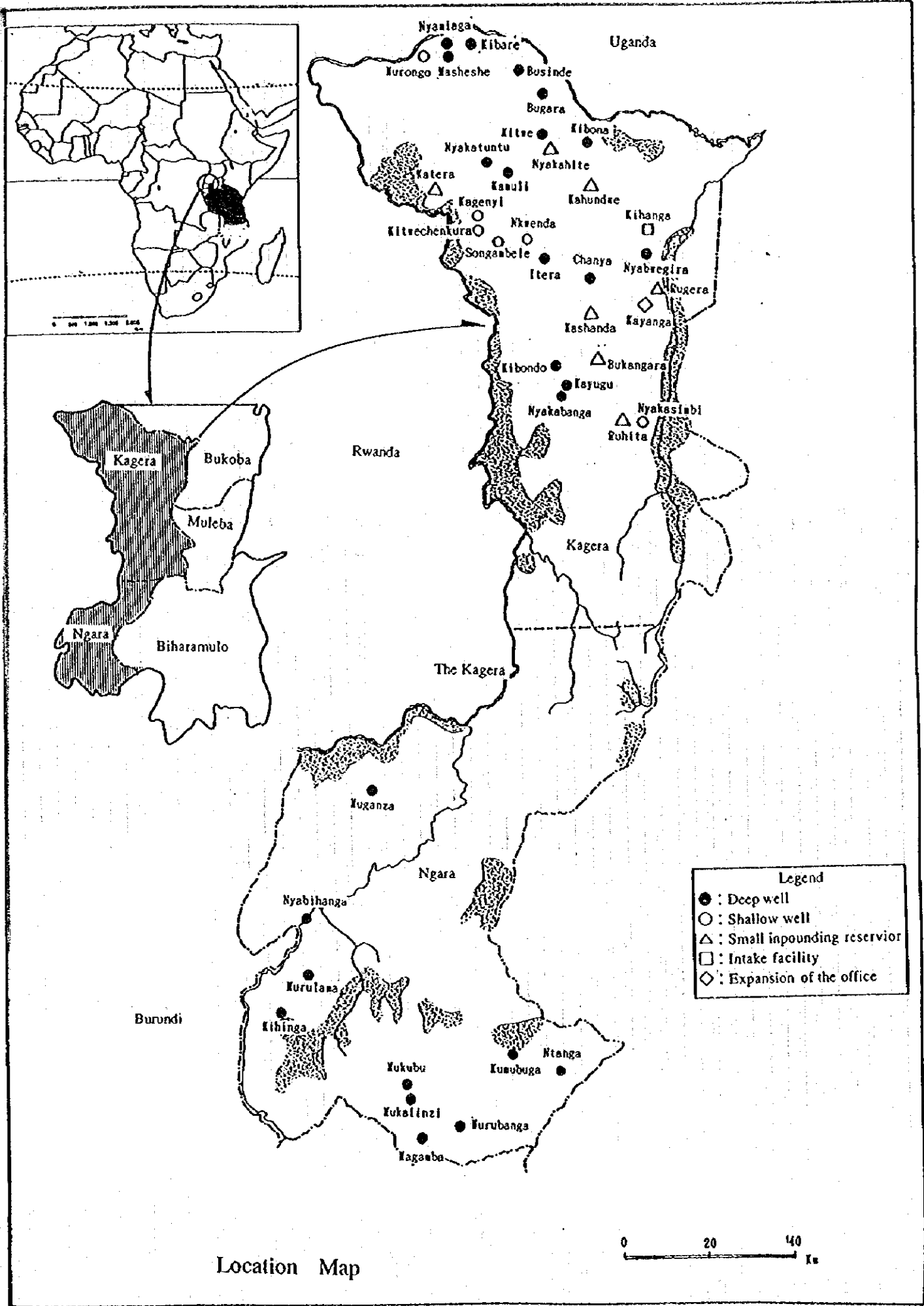
I wish to express my sincere appreciation to the officials concerned of the Government of the United Republic of Tanzania for their close cooperation extended to the team.

March 1996

Kimio Fujita

President

Japan International Cooperation Agency



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1. Equipment List

2. Equipment Specifications

Chapter 1. Background of the Project

Many Refugees struggled into the United Republic of Tanzania (hereinafter called "Tanzania"), Zaire, and other countries which have a common border with Rwanda and Burundi, as a direct result of internal conflicts between the "Tutsi" tribe and the "Hutu" tribe which have inhabited in these countries for a long time. In particular, the flow from Rwanda climaxed following the assassination of their president, who was of the "Hutu" ancestry, in October 1993. The movement of Refugees from Burundi reached a peak following the destruction of a plane in which the president was traveling, in April 1994.

The Government of Tanzania revived these many Refugees on Karagwe District, Ngara District of Kagera Region, and the surrounding areas of these districts. The number of Refugees staying in these Districts increased to 602,471 people in December 1994, and was estimated as the rate of forty percentage (40%) of the total population in these areas.

Kagera Region is located in the hilly areas in the north-western parts of Tanzania, about 1,000 Km from Dar es Salaam, and these areas are much behind other regions and countries in the field of infrastructure including Hospitals and Medical Services, etc. Moreover, in addition to these worse situations, the flood of Refugees from the neighboring countries obliged the inhabitants to live under the more inconvenient and insanitary conditions than before. Particularly, these areas are much behind other regions from the point of the Medical Services. For the above mentioned reasons, the Government of Tanzania has left censer that the living environment of the inhabitants in the affected areas will become worse than of now, because of the influx of Refugees owing to the unstable situation in the neighboring countries.

As a result, the Government of Tanzania requested the Grant Aid Assistance to the Government of Japan for the Rehabilitation of Health Infrastructure and Water Supply for the inhabitants in these areas affected by the Refugees.

Chapter 2. Contents of the Project

2-1 Objectives of the Project

The objectives of the Project is to restore the health care services deliveries of the country which have been damaged from the unflawed refugees from the neighboring countries by providing the necessary equipment for the health centers and other health care related facilities. Upon implementation of the Project, the lever of the health providers of Tanzania would be upgraded to cope with the National Development Plan.

2.2 Basic Concept of the Project

The basic concept of the Project is the provision of the equipment for the health centers and dispensaries in Ngara district and Karagwe district of Kagera region which is situated in the Northern part of Tanzania, where is the place many Refugees unflawed. Nyakahanga Hospital which is the only national hospital in the district, will be provided with the same equipment as the health center/dispensaries which do not require installation and some consumable. Following facilities originally included in the Request will be excluded from the Project:

- (1) Non-governmental facilities
- (2) Facilities already received commitment from other organization
- (3) Facilities not required to be improved

The facilities not listed in the original List will be included in the Project, provided that these facilities have not involved in the range of the external assistance and the provision of the equipment would give benefit of the community people of the district. The Project facilities are as follows:

TABLE 3 - 1 PROJECT SITES IN KAGERA REGION

KARAGWE DISTRICT			NGARA DISTRICT		
NO.	NAME OF FACILITY	NO.	NAME OF FACILITY	NO.	NAME OF FACILITY
1	NYAKAHANGA Hospital	11	KIKUKURU Dispensary	1	BUKIRO Health Center
2	RURONGO Health Center	12	KIMULI Dispensary	2	RUSUMU Dispensary
3	KAYANGA Dispensary	13	KAMAGAMBO Dispensary	3	KIRUSHYA Dispensary
4	WENKENDE Dispensary	14	CHAMCHUZI Dispensary	4	KANAZI Dispensary
5	YAKSHOZI Dispensary	15	KISHOH Dispensary	5	DJULIGWA Dispensary
6	IBUNGO Dispensary	16	KITENGULE Dispensary	6	MBUMA Dispensary
7	KASHO Dispensary	17	CHANIXA Dispensary	7	KANYINYA Dispensary
8	YERWA Dispensary	18	KIRURUMA Dispensary	8	NYARULAMA Dispensary
9	YAKATUNTU Dispensary			9	BUGARAMA Dispensary
10	MABIRA Dispensary			10	MURUSAGMBA Dispensary
				11	RWINBOGO Dispensary
				12	KASOLO Dispensary
				13	MUGANZA Dispensary
				14	MURUBANGA Dispensary
				15	MUKAREHE Dispensary
				16	RUGANZO Dispensary
				17	NYAKISASA Dispensary
				18	NYAMAHWA Dispensary
				19	MUYENZI Dispensary
				20	MUNJEBWE Dispensary

2-3 Basic Design

2-3-1 Design Concept

The design concept of the Equipment is the primary equipment to be utilized for the primary health care services which requires no consumable.

The equipment has been selected in accordance with the following concept

- 1) The Project facilities shall be one Governmental hospital and some Health Centers/Dispensaries in Ngara and Karagwe. Though the Project facilities are not on the same health service level, the categories of the equipment are summarized as follows:
 - (1) Dispensary 35 sites : primary equipment such as instruments
 - (2) Health Center 2 sites : equipment necessary for primary health services including equipment to be used for the basic clinical tests
 - (3) Hospital 1 site : same level equipment as above sites
- 2) The facilities that have received something from other assistance agencies and have requested anything to any other agencies.
- 3) Facilities other than Non-Governmental ones
- 4) Power and water supply which require for the equipment utilization shall be noted.
- 5) The Equipment shall be the same level as the one produced locally considering the maintenance matters. The equipment shall be

procured from the local market and the third countries.

- 6) The equipment shall be the one not required consumable and the one manually driven.
- 7) The installation engineers will not be dispatched, but the detailed designing and monitoring of the Project implementation shall be made. At the time of the delivery of the Equipment at each Project site, initial training for the end users including maintenance training shall be required.

2-3-2 Basic Design

The item of the Equipment shall not exceed 43 items in one lot for each facilities. And the existing equipment within its durable period shall be excluded.

Specifications of 43 items are shown in the Appendices-2, while number of the items of the project facilities is shown in the Appendices-3.

Chapter 3 Implementation Plan

3-1-1 Implementation Schedule

- (1) Local procurement shall be made from the local agents of the manufacturers of the Equipment in Tanzania because almost all of the Project equipment is handled locally considering operation and maintenance.

3-1-2 Obligations of Recipient Country

In consideration of the Project Costs are limited in addition to the Project sites are located in the remote areas, it is recommended to implement the Project with the without Water Supply Project in the same timing.

The Facilities which require some renovations are requested to undertake such renovations before the Project implementation, which has been agreed by the Tanzanian Authorities concerned.

3-2 Operation and Maintenance Plan

Operation and maintenance of the Project facilities are carried out under the control of the District Office. The Ministry of Health, however, are controlling medicines/instruments of some kind including the technical expertise.

Tanzania under the economical development stage, requires the external assistance to strengthen the national economy. The Equipment almost of which is the instruments utilized without any maintenance procedures.

The items required will be petroleum to be required for the Boiling Sterilizers, staining liquid required for the Malaria examination under Microscopy, which are not so expensive.

Chapter 4 Project Evaluation and Recommendation

4-1 Project Effect

(1) Project effect

There exists total 64 health facilities including hospitals, health centers and dispensaries in Ngara and Karagwe Districts of which 38 facilities will be supplied with the Equipment.

The catchment area of the Project is inhabited by the population of 270,000 and so on. The Project facilities are suffering from the shortage of the equipment/instruments to provide necessary health services. Services they can provide are examination by touch and/or visual examination only. The sterilization of the equipment is not available generally. The functional standards are far from its requirements. Therefore, the community health services are not fully provided.

To improve the same untoward health service situations Delivery Instruments Sets; Sphygmomanometers, Boiling Sterilizers and the like would make the facilities recovered, which would upgrade the provision of the community health services of the Districts. The facilities upon equipment provision, would become the essential health providers of the Districts and provide primary health services of the people.

Moreover, the Project execution would improve the health care level of the entire people of the nation.

(2) Beneficiary of the Project

Direct beneficiary to the population:

(1) Population to be benefited

Total population up to 160,000 in Kagera District and 280,000 in Ngara District, will be benefited because the Project sites cover the two thirds of the Districts.

(2) Upgrading of the level of the health services

The level of the health services will be upgraded that it is not enough because of superannuated and shortage of equipment regardless of allocation of personnel.

(3) Correction of the health service coverage

① Refugees/Tanzanian people

The Project will correct the unbalance between the refugees already covered with the health services and the Tanzanian people not yet covered with the necessary health services.

② Urban areas/Rural areas

The Project will greatly contribute to the programs under "Health for All by 2000" by correcting the unbalance of the people of the urban and rural areas.

As indirect beneficiary to the population, Patients not accepted by the Refugee camp clinics will be referred to the Project Facilities, which would give beneficiary to the Refugees.

4-2 Recommendation

(1) Vehicles: Vehicles inclusive of the ambulance cars requested have been deleted from the list, because they require a lot of operational cost, which will be difficult to be allocated from the present Government budget.

Because the essential drug, medical consumable and the water supply are not fully supplied at present, which are considered to be put on the higher priority. However, the necessity of the vehicles is noted.

(2) Other assistance: Considering the urgent necessity of the improvement of the water supply and the health providers, the commitments from some assistance agencies and the request from the Governmental agencies seem to be complicated. Therefore some adjustments were made at site survey. These conditions will continue for some time. Then this trend shall be observed carefully.

(3) Delivery of the Equipment: The package shall be made by the site-wise style.

considering the numbers and the locations of the sites to prevent the troubles at the sites.

(4) **Delivery of the Equipment:** Though the installation of the Equipment will not be necessary, the initial training shall include the maintenance and management training of the end users to supplement the management know-how of the medical manpower of the Project facilities.

APPENDIX 1 : Equipment List

EQUIPMENT LIST FOR NGARA DISTRICT

NO.	FACI. NO.	NAME OF FACILITY	CLASS	Subtype	1		2		3		4		5		6		7		8		9		10		11		12			
					Q'ty	Q'ty	Clinical Inst	Thermometer	Exam Table	Sphygmometer	Beam Stand	Inst. Cabinet	Weight Scale	High Scale	Kon. Stove	Port. Sten.	Syringe	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty
1	NC-1	BUKIRO	H.C.	4	10	2	2	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2		
2	ND-1	RUSUMO	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3	ND-2	KIRUSHYA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	ND-3	KANAZI	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	ND-4	DIULULIWA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	ND-5	MBUBA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	ND-6	KANYINYA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	ND-7	NYARULAMA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	ND-8	BUGARAMA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	ND-9	MURUSACMBA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	ND-10	RWINBOGO	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	ND-11	KASOLO	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	ND-12	MUGANZA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	ND-13	MURUBANGA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	ND-14	MUKAREHE	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	ND-15	RUGANZO	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	ND-16	NYAKISASA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	ND-17	NYAMAHWA	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	ND-18	MUYENZI	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	ND-19	MUNJEBWE	Disp.	2	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total:				42	105	21	21	42	21	21	21	21	42	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21

EQUIPMENT LIST FOR NGARA DISTRICT

NO.	ITEM NO.		CLASS	13	14	15	16	17	18	19	20	21	22	23	24
	FACI.	NAME OF FACILITY		Trolley	Kidney Tray	Forceps/Stone	Delivery Kit	Tanpon Jar	Kerol Lamp	Ambu Bag	Patent Bed	Del. Bed	Scapel	Fotoscope	Del/Becket
	NO.	IN NGARA	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty
1	NC-1	BUKIRO	H.C	4	10	0	2	2	4	1	1	1	1	1	2
2	ND-1	RUSUMO	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
3	ND-2	KIRUSHYA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
4	ND-3	KANAZI	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
5	ND-4	DJULULIGWA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
6	ND-5	MBUBA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
7	ND-6	KANYINYA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
8	ND-7	NYARULAMA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
9	ND-8	BUGARAMA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
10	ND-9	MJUSAGIMBA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
11	ND-10	RWINBOGO	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
12	ND-11	KASOLO	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
13	ND-12	MUGANZA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
14	ND-13	MJURUBANGA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
15	ND-14	MUKAREHE	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
16	ND-15	RUGANZO	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
17	ND-16	NYAKISASA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
18	ND-17	NYAMAHWA	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
19	ND-18	MUYENZI	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
20	ND-19	MUNJEBWE	Disp.	2	5	0	1	1	2	1	1	1	1	1	1
Total:				42	105	0	21	21	42	20	20	20	20	20	21

EQUIPMENT LIST FOR NGARA DISTRICT

NO.	ITEM NO.		CLASS	25	26	27	28	29	30	31	32	33	34	35	36
	FACI.	NAME OF FACILITY		Fetoscope	Del. Bucket	Bed Pan	Microscope	Staining	Slide Class	Specimen Box	Water Strainer	Washing Bottle	Hemocytom	Pipette/Wash	B. Sediment
	NO.	IN NGARA		Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty	Q'ty
1	NC-1	BUKIRO	H.C.	2	2	5	1	1	1	1	2	1	1	1	1
2	ND-1	RUSUMO	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
3	ND-2	KIRUSHYA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
4	ND-3	KANAZI	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
5	ND-4	DJULUGWA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
6	ND-5	MBUBA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
7	ND-6	KANYINYA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
8	ND-7	NYARULAMA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
9	ND-8	BUGARAMA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
10	ND-9	MURUSAGMBA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
11	ND-10	RWINBOGO	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
12	ND-11	KASOLO	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
13	ND-12	MUGANZA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
14	ND-13	MURUBANGA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
15	ND-14	MUKAREHE	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
16	ND-15	RUGANZO	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
17	ND-16	NYAKISASA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
18	ND-17	NYAMAHWA	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
19	ND-18	MUYENZI	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
20	ND-19	MUNJEBWE	Disp.	1	1	2	0	0	0	0	1	0	0	0	0
Total:				23	23	43	1	1	1	1	21	1	1	1	1

EQUIPMENT LIST FOR NGARA DISTRICT

NO.	ITEM NO.		CLASS	37		38		39		40		41		42		43	
	FACI. NO.	NAME OF FACILITY IN NGARA		Test Tube Q'ty	T. Tube Stand Q'ty	Autorel. Q'ty	Lab Cabinet Q'ty	Suction Pump Q'ty	Vacuum Ext. Q'ty	Bicycle Q'ty							
1	NC-1	BUKIRO	H.C.	5	1	1	1	1	1	1	1	1	1	1	1	2	2
2	ND-1	RUSUMO	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
3	ND-2	KIRUSHYA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
4	ND-3	KAVAZI	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
5	ND-4	DJULULIGWA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
6	ND-5	MBUBA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
7	ND-6	KANYINYA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
8	ND-7	NYARULAMA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
9	ND-8	BUGARAMA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
10	ND-9	MURUSAGMBA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
11	ND-10	RWINBOGO	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
12	ND-11	KASOLO	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
13	ND-12	MUGANZA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
14	ND-13	MURUBANGA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
15	ND-14	MUKAREHE	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
16	ND-15	RUGANZO	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
17	ND-16	NYAKISASA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
18	ND-17	NYAMAHWA	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
19	ND-18	MUYENZI	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
20	ND-19	MUNJEBWE	Disp.	0	0	1	0	1	0	1	0	1	0	0	0	2	2
Total:				5	1	20	1	20	1	20	1	20	1	1	1	40	40

EQUIPMENT LIST FOR KARAGWE DISTRICT

NO.	FACI.	ITEM NO.	NAME OF FACILITY/CLASS	1	2	3	4	5	6	7	8	9	10	11	12
				Sternoscope	Clinical Inst	Thermometer	Exam.Table	Sphygmometer	Basin/Stand	Inst.Cabinet	WighngScale	HeightScale	Kero.Stove	Boil.Stern.	Syringe
	NO.	IN KARAGWE		A	A	A	A	A	A	A	A	A	A	A	A
1	KH-1	NYAKAHANGA	Hosp	30	5	50	5	5	5	5	5	0	0	0	50
2	KC-1	MURONGO	H.C.	4	2	10	2	2	4	1	1	1	2	2	2
3	KD-1	KAYANGA	Disp.	2	2	10	1	1	4	1	1	1	2	2	2
4	KD-2	RWENKENDE	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
5	KD-3	NYAISHOZI	Disp.	2	1	5	0	1	2	1	1	1	1	1	1
6	KD-4	KIBINGO	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
7	KD-5	KAISHO	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
8	KD-6	KYERWA	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
9	KD-7	NYAKATUNTU	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
10	KD-8	MABIRA	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
11	KD-9	KIKUKURU	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
12	KD-10	KIMULI	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
13	KD-11	KAMAGAMBO	Disp.	2	1	5	0	1	2	1	1	1	1	1	1
14	KD-12	CHAMCHUZI	Disp.	2	1	5	0	1	2	1	1	1	1	1	1
15	KD-13	KISHOJU	Disp.	2	1	5	0	1	2	1	1	1	1	1	1
16	KD-14	KITENGULE	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
17	KD-15	CHANIKA	Disp.	2	1	5	1	1	2	1	1	1	1	1	1
18	KD-16	KIRURUMA	Disp.	2	1	5	0	1	2	1	1	1	1	1	1
Total:				66	24	145	18	23	43	22	22	17	19	19	69

EQUIPMENT LIST FOR KARAGWE DISTRICT

NO.	FACI. NO.	NAME OF FACILITY CLASS	ITEM NO.	13	14	15	16	17	18	19	20	21	22	23	24
				Trolley	Kidney Tray	Ferops Stand	Delivery Kit	Tanpon Jar	Kerisi Lamp	Ambu Bag	Patient Bed	Del. Bed	Scapel	Ferroscope	Del. Bucket
		IN KARAGWE		A	A	A	A	A	A	A	A	A	A	A	A
1	KH-1	NYAKAHANGA Hosp.	5	50	5	5	0	5	50	0	5	5	5	5	5
2	KC-1	MURONGO H.C.	2	2	2	2	2	2	1	10	2	2	2	2	1
3	KD-1	KAYANGA Disp.	2	2	2	2	2	2	1	1	1	2	2	1	1
4	KD-2	RWENKENDI Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
5	KD-3	NYAISHOZI Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
6	KD-4	KIBINGO Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
7	KD-5	KAISHO Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
8	KD-6	KYERWA Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
9	KD-7	NYAKATUNTU Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
10	KD-8	MABIRA Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
11	KD-9	KIKUKURU Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
12	KD-10	KIMULU Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
13	KD-11	KAMAGAMBO Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
14	KD-12	CHAMCHUZI Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
15	KD-13	KISHOJU Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
16	KD-14	KITENGULE Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
17	KD-15	CHANIKA Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
18	KD-16	KIRURUMA Disp.	1	1	1	1	1	1	1	1	1	1	1	1	1
Total:			24	69	24	24	24	24	17	22	76	18	69	23	22

EQUIPMENT LIST FOR KARAGWE DISTRICT

NO.	ITEM NO.	FACI. NO.	NAME OF FACILITY	CLASS	25	26	27	28	29	30	31	32	33	34	35	36
					Bed Pan	Microscope	Staining	Slide Cl.	S.GlassBox	W.Strainer	WashBottle	Hemacyto	PipetWash	B.Sadim'	Gr.Cyind.	Sauter
			IN KAEAGWE		A	A	A	A	A	A	A	A	A	A	A	A
1	KH-1		NYAKAHANGA	Hosp.	50	5	10	10	5	0	5	5	2	5	10	10
2	KC-1		MURONGO	H.C.	5	1	1	1	1	1	1	1	1	1	1	1
3	KD-1		KAYANGA	Disp.	2	0	0	0	0	0	0	0	0	0	0	1
4	KD-2		RWENKENDE	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
5	KD-3		NYAISHOZI	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
6	KD-4		KIBINGO	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
7	KD-5		KAISHO	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
8	KD-6		KYERWA	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
9	KD-7		NYAKATUNTU	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
10	KD-8		MABIRA	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
11	KD-9		KIKUKURU	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
12	KD-10		KIMULI	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
13	KD-11		KAMAGAMBO	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
14	KD-12		CHAMCHUZI	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
15	KD-13		KISHOJU	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
16	KD-14		KITENGULE	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
17	KD-15		CHANIKA	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
18	KD-16		KIRURUMA	Disp.	2	0	0	0	0	0	0	0	0	0	0	0
Total:					87	6	11	11	6	1	6	6	3	6	11	12

EQUIPMENT LIST FOR KARAGWE DISTRICT

NO.	ITEM NO.		CLASS	37	38	39	40	41	42	43
	FACI NO.	NAME OF FACILITY IN KARAGWE		Test Tube Qty	T.Tube Stand Qty	Autofret Qty	Lab Cabinet Qty	Suction Pump Qty	Vacuum Ext. Qty	Bicycle Qty
1	KH-1	NYAKAHANGA	Hosp.	50	10	50	2	5	5	0
2	KC-1	MURONGO	H.C.	1	1	1	1	1	1	2
3	KD-1	KAYANGA	Disp.	1	1	1	1	1	1	2
4	KD-2	RWENKENDE	Disp.	0	0	0	0	1	0	2
5	KD-3	NYAISHOZI	Disp.	0	0	0	0	1	0	2
6	KD-4	KIBINGO	Disp.	0	0	0	0	1	0	2
7	KD-5	KAISHO	Disp.	0	0	0	0	1	0	2
8	KD-6	KYERWA	Disp.	0	0	0	0	1	0	2
9	KD-7	NYAKATUNTU	Disp.	0	0	0	0	1	0	2
10	KD-8	MABIRA	Disp.	0	0	0	0	1	0	2
11	KD-9	KIKUKURU	Disp.	0	0	0	0	1	0	2
12	KD-10	KIMULI	Disp.	0	0	0	0	1	0	2
13	KD-11	KAMAGAMBO	Disp.	0	0	0	0	1	0	2
14	KD-12	CHAMCHUZI	Disp.	0	0	0	0	1	0	2
15	KD-13	KISHOJU	Disp.	0	0	0	0	1	0	2
16	KD-14	KITENGULE	Disp.	0	0	0	0	1	0	2
17	KD-15	CHANIKA	Disp.	0	0	0	0	1	0	2
18	KD-16	KIRURUMA	Disp.	0	0	0	0	1	0	2
Total:				52	12	52	4	22	7	34

APPENDIX 2 Equipment Specifications

No	Name of Equipment	Rough Specifications	Q ty
1	Stethoscope set	Contents; for Adult × 1 pce./ for Neonatal × 1 pce.	1 set
2	Clinical Instrument Set	Contents; Dispensary kit with 7 items/ Out-Reach kit with 7 items	1 set
3	Clinical Thermometer	①Material; Glass made in Resin Coated case	1 doz.
4	Examination Table	①Material; Steel bracket/Urethane form mat/vinyl leather coated ②Size; L180×D60×H50cm	1 pce.
5	Sphygmomanometer	①Type; Desk Top T ②Indicator; Mercury ③Box Type	1 pce
6	Basin Stand	①Size; W36×D36×H75cm ②materials; Steel bracket fired painting ③Acc. Φ 32cm Basin	1 pce
7	Instrument Cabinet	①Material; Steel body melamine coated ②Size; W88×D40×H180cm	1 set
8	Weighing Scale Set	①Consisting of; For Adult × 1 set/ For Infant × 1 set	1 set
9	Height Measuring Scale Set	①Consisting of; For General × 1 set/ For Neonatal × 1 set	1 set
10	Kerosine Stove Set for Sterilizing	①Contents; Kerosine Stove × 1 set/ Kerosine Container × 1 pce.	1 set
11	Steam Sterilizer	①Material; SUS ②Type; Double rack type	1 set
12	Syringe set	①Consisting of Syringe × 4 kinds (12 pce/ea) and Needles 3 kinds (12 pce/ea)	1 set
13	Trolley	①Size; W60×D45×H80cm ②Material; SUS ③Acc; caster	1 set
14	Kidney Basine Set	①Consisting of Size Φ 30cm/ Φ 22cm/ Φ 20cm × 1 ea. ②Material; SUS	1 set
15	Forceps Stand	①Material; SUS ②Size; Φ 50×80mm	1 pce.
16	Delivery Instrument Set	①Fore Dispensary Set × 18 items ②For Out-Reach Set × 11 items	1 set
17	Tampon Jar	material; SUS Size; Φ 7.5×H 5.5cm Type; open & close lid	(1 pce.)
18	Kerosine Lamp	Desk Top/Hanging Type Fuel; Kerosine	2 sets
19	Ambu-Bag	Consists; Adult • neonatal Ambu Bag/Silicon Mask (for Adult Large/Mid.) & (for Neonatal Large)	1 set
20	Patient Bed Set	Consisting of Patient Bed / Mattress / Sheets / Branket	1 set
21	Delivery Bed Set	Consisting of Delivery Bed/Mac. Epron/Mac. Sheet/Glove	1 set
22	Scalpel	Type; Round edge blade	(5 doz.)
23	Fetoscope	Material; Plastic/Wood	1 pce.
24	Delivery Bucket	Material; SUS Size; Φ 24cm	1 pce.
25	Bed Pan for Female	Material; SUS	1 pce.
26	Binocular Microscope	Type; Binocular Magnify; 40-1000 Light source; refraction mirror Acc; Sub stage lamp	1 set
27	Staining Set	Contents; Staining Basket/Jar Stand/Guimsa/Stain	1 set
28	Slide Glass	Size; W76×D26×T1.0mm Frost Size; 15×26mm Package; 100pcs/tropical package	5 pks.
29	Specimen Box	Capacity; 1400pcs. Size; W300×D350×H450mm	1 set
30	Water Filter	Table top type/stone filter Size; Abt. 15cm dia×40cm THE BERFELD FILTER Type	1 set
31	Washing Bottle	Capacity; 500ml Material; Plyethile Packaging; 6 pcs/box	1 pce.
32	Hemacytometers-Thoma	Content; Hemacytometer / red blood diluting pipette / white blood diluting pipette / cover glass	1 set
33	Pipette Washer	Consist; washing case / rubber ball Material; glass / rubber	1 set
34	Blood Sedimentator	Consist; Pipette stand / sedimentation pipette 10pcs / rubber cup for pipette 10pcs	1 set
35	Graduated Cylinder Set	①Graduated Cylinder 100ml / 300ml / 500ml / 1000ml × 6 pcs ea.	1 set
36	Beaker Set	①Consist; 100 / 300 / 500 / 1000 ml × 1 ea ②Material; Hard Glass	1 set
37	Test Tube Set	①Consist; Size 12 / 15 / 18 Φ mm 1 ea.	1 set
38	Test Tube Stand Set	①Type; for 12 Φ Test Tube × Abt. 20 tubes/ for 15 Φ × 20 tubes / 18 Φ × 20 tubes	1 set
39	Lancet	Size; 95 Φ × H 15mm Material; styrene resin	1 doz.
40	Lub. Inst. Cabinet	①Material; Steel / melamine coated ②Size; W88×D40×H180cm ③Door; Upper glass/lower s	1 set
41	Suction Pump	Consisting of Suction Pump/Suction Bottle as follows	1 set
42	Vacuum Extractor	Consisting of Vacuum Pump / Suction Bottle As follows	1 set
43	Bicycle Set	①Contents; Bicycle / Air Pump / Puncture Repair Kit	1 set

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