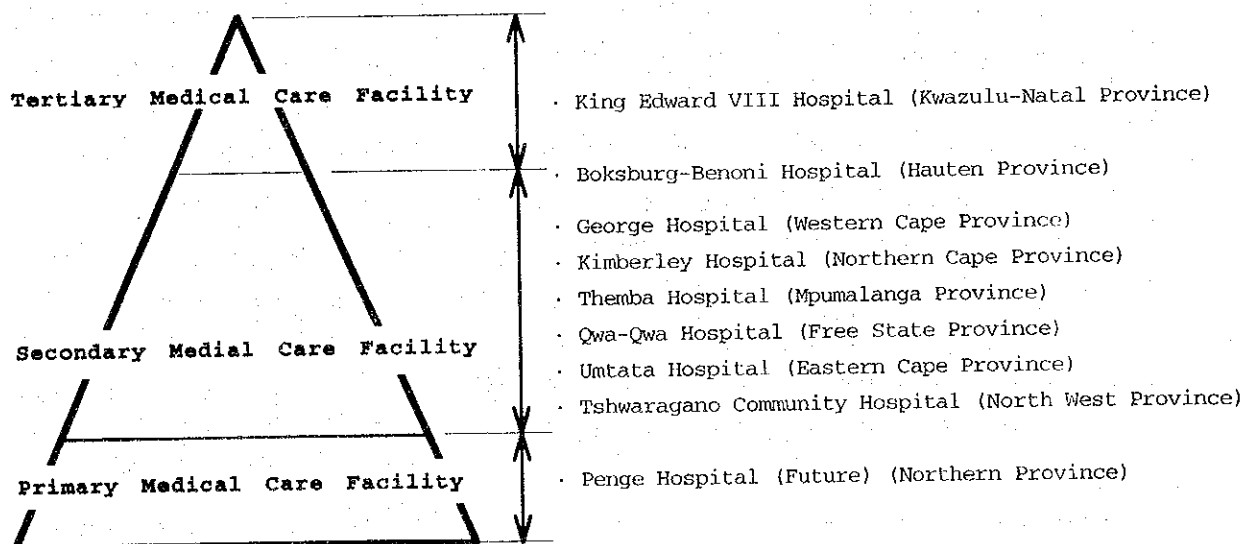


## 2-2-2 Investigation of Requested Contents

As regards the requested medical care equipments, their priority orders, quantities, grade were investigated in detail according to the aforementioned "basic concept of equipments plan" and "the evaluation standard for equipments selection". Investigation and results are as shown in the next table of 2-2-1(3) "Investigation of List of Required Equipments." In carrying out the investigation, the contents of agreement with the South African side on the equipments selection are as follows, and the agreements were taken into consideration for the final selection of objective equipments:

- 1) The designated hospitals in this project are 9 public hospitals (one hospital from each province) which are for low-income class mainly black people. The 9 hospitals as the objective facilities of the project vary in size and level of medical care, therefore, equipments plan should be adjusted to each hospital.



2) As for the contents of requested equipments, the basic concepts, confirmation of roles and positionings, and effects of the project will be discussed prudently before the selection.

3) Consultation of the main equipments

-1. CT scans (for whole body, spiral type)

The CT scans are the equipments for 2 hospitals of King Edward VIII Hospital and Boksburg-Benoni Hospital which can provide the tertiary medical care service among the designated facilities in the project. An existing CT scan (general-purpose type, made in '86) has been used at King Edward VIII Hospital, however, its old type cannot handle the increasing number of patients. Boksburg-Benoni Hospital decided on the procurement of CT scan in '94. It is planned to be installed at the ward for new outpatients is presently under construction (to be completed in July '97), moreover, doctors and paramedical staff are already arranged completely. There is no problem as far as demands and technology are concerned. From the viewpoint of financial management, however, it is difficult for the benefited patients to pay medical charges because they are mainly poor black people, and therefore, it becomes necessary to obtain financial support from and budget of the province government for maintenance. With respect to this issue, this designated hospital and the provincial Department of Health being the superintendent organization of the hospital have obtained endorsement of overall backup by the South African Government, because the government give top priority to the correction of racial discrimination in every field, and it is necessary for the government to introduce medical equipments to such hospitals to raise the medical care level for the poor black people to the standard in South Africa. Accordingly, it is judged that a minimum and required budget will be appropriated.

-2. X-ray unit of diagnosing screening type

This is a request for the X-ray units of fluorescent type that are used for screening of a large group of people such as local people and workers as the objects of examination (The requesting hospitals are King Edward VIII and Qwa-Qwa Hospital.). The presently used units are

the direct operating type (which is operated by standing beside a patient in a screening room), which has a danger to expose the operator to the primary ray. The model is already old and has reached the limit of service life. The present situation shows that it has been repaired repeatedly for use. In renewing the X-ray unit, it is important to procure a remote control type which can protect the operator from radiation.

-3. X-ray unit with C-arm and an image intensifier

This is an X-ray unit for operation room. This is mainly used for surgical operation and for X-ray screening and photographing when a patient cannot be moved due to bone fracture in an emergency room. The request from the designated hospitals (Themba Hospital, Tshwaragano Hospital and Boksburg-Benoni Hospital) say that this equipments is urgently needed due to the increase in the number of traumatic patients to the department of surgery and that the hospital is in a situation where urgent improvement of the unit is necessary because of obsolescence of the existing unit and troubles of unclear screening TV component.

-4. Endoscopic ultrasonic scanning system

As endoscopic TV system became popular, more accurate diagnosis and medical treatment have become possible by introducing an endoscopic ultrasonic scanning system (endoscopic video system) of high resolution and excellent colour reproductivity. This is a request from King Edward VIII Hospital (tertiary medical care facility, educational hospital). Presently, the general-purpose endoscope (for stomach, bronchi, intestines, etc.) is in full use, and the technological level is almost as high as Europe, the U.S.A. and Japan, and accordingly there will be no problem in putting electronic endoscopes to use. Because the said hospital is the educational hospital for doctors of its affiliated community health centres and community health regional centres in Phoenix District, there is also a merit of leading to education of staff by a monitor education using the endoscopes.

-5. Medical care instruments for the ophthalmology department

(Phaco emulsification machine, argon laser)

In South Africa, there is a tendency that the ratio of patients

of eye disease is considerably high among black people in particular. There are a large number of patients who suffer from cornea separation, retina disorder, and cataract. The levels of medical treatments for these diseases are also advanced. Each hospital has medical specialists and is equipped with 10 beds or so. The requested medical equipments such as phaco emulsification machine and argon laser are helpful to prevent patients from losing eyesight.

-6. Vehicles (for mobile clinic, ambulance)

The requesting hospitals, number of vehicles and vehicle types are as follows:

- \* Mobile clinic vehicles: Themba Hospital (4), Umtata Hospital (2),  
Tshwaragano Hospital (3),  
Penge Hospital (2)
- \* Ambulance cars: Themba Hospital (3) and  
Kimberley Hospital (1)

Vehicles for mobile clinic

Among the designated facilities, the hospitals requesting for mobile clinics (Themba Hospitals, Umtata Hospital, Tshwaragano Hospital, and Penge Hospital) are in the former homeland districts. The mobile clinic will benefit a wide range of areas covering isolated villages. In order to follow up and realize the PHC enhancing policy, which is featured in public health care of the Reconstruction Development Project (RDP) in the reborn South Africa, it is essential to reinforce the PHC clinics affiliated to the designated hospitals. In order to provide up-to-date medical services to the people living in the black people inhabiting areas which are scattered widely, it can be judged the most urgent and effective to have doctors and nurses patrol such areas in mobile clinic equipped with medical instruments and medicines.

Ambulance

Although they were not the only hospitals that made request, it was decided to send ambulance to Themba Hospital and Kimberley Hospital after consultation with the hospitals.

The appropriateness of the requests mainly lies in the increase

of the service areas by two times for both hospitals on account of the change in administrative units (the 9-province government system accompanied by the abolition of the former homeland system). Because the whole of the former Homeland, Kabokueni District, has been incorporated into the service area in charge of Themba Hospital, this hospital is now a referral hospital for 23 clinics, therefore, the hospital covers transport of emergency cases and referred patients. Out of the 4 existing ambulance, 2 vehicles are unable to be repaired and 2 vehicles frequently demand repairs. The district is near the Krugar National Park and there are many rough roads of steep ups and downs. The traffic situation is no good and access to the hospital is sometimes difficult.

Since Kimberley Hospital is in a province which is approximately 30% of the whole territory of South Africa, and the medical coverage for this hospital is very large, the presently used secondhand ambulance cannot handle the demand at all. The original requested number of 4 vehicles is fully understandable, however, final requested number of ambulance is determined to 1 unit through discussion and consultation with South African side.

The specification of the ambulance is determined by South African health care authority demanding for installation of a resuscitator, a stretcher, and first-aid kit, etc., which are not an extraordinary demand for special installation. These items are available in South Africa.

**Table 2-2-1(3) Investigation of required equipment**

**Priority standard**

1	Equipments necessary for basic and essential clinic activity
2	Renewal of existing equipments
3	Equipments with which demand (numbers of patients and specimens) of diagnosing and curing activities can be confirmed fully.
4	Equipments of which operation and maintenance are possible technically.
5	Equipments of which maintenance are possible financially, including purchase of consumables and spare parts.

**Deletion standard**

1	Equipments which need introduction of new staff and new technologies.
2	Equipments of which installation is impossible judging from the state of infrastructure of hospital (equipments which need new construction of facility and large-sized improvement of facility).
3	Equipments of low cost performance (low needs despite expensive prices).
4	Equipments which need establishment of a new department, provided that a new department with available staff and equipment is regarded as objective of equipments plan.
5	Duplicated equipments (equipments which are duplicated in requests, facilities and by other assisting organizations).
6	Items other than medical care equipments, consumables and reagents.
7	Equipments which may violate rules related to treatment of wastes and radioactive substances.
8	Equipments of which maintenance is difficult technologically or financially.

**Investigation**

a.	Continuous usage is available by existed equipment.
b.	Urgent procurement is not seemed to be required.
c.	The procurement by hospital's own budget is available.
d.	The final quantity should be adjusted by increasing the commonly sharing sections.

**Evaluation**

A	The procurement is adequate.
B	It is required for medical service, but considered as lower priority.
C	Not include for the procurement.
D	Deleted by the consultation with hospital at the time of supplementary survey.

**(Notes)**

Among equipment on the list :

\*1: Equipment for affiliated health centre

\*2: Equipment for affiliated clinic

# THEMBA HOSPITAL

ITEM NO.		DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
					1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d		
1- 1		Compact Drill with Attachment	2	A																		A	2
1- 2		Arthroscope Monitor Instrument	1	C																		C	-
1- 3		External Fixator Set Standard	1	A																		A	1
1- 4		Reaming Instrument Set	1	A																		A	1
1- 5		Insertion Instrument Set	1	A																		A	1
1- 6		Locking Instrument Set	1	A																		A	1
1- 7		Radiolusent Drive	1	A																		C	-
1- 8		Unreamed Tibial Nail Set	1	C																		A	1
1- 9		DHS/DCS Set	1	A																		C	-
1- 10		Cannulated Screwset, Small	1	C																		C	-
1- 11		Cannulated Screwset, Large	1	C																		C	-
1- 12		Large Fragment Set	1	A																		A	1
1- 13		Fragment Instrument Set, Small	1	A																		A	1
1- 14		Hand Surgery Instrument Set	1	A																		A	1
1- 15		Spinal Instrument Set	1	C																		C	-
1- 16		Anaesthetic Machine without Ventilator	2	B																		B	2
1- 17		Laryngoscope and Blades	2	A																		A	2
1- 18		Tourniquet, Pneumatic Type	1	C																		C	-
1- 19		Continuous BP Monitor (Cuff Type)	4	B																		B	4
1- 20		Pulse Oximeter	3	A																		A	3
1- 21		ECG Monitor	2	C																		C	-
1- 22		Teaching Lens for Cystoscope	1	C																		C	-
1- 23		Diathermy Machine	1	B																		B	1
1- 24		Bronchoscope, Flexible with Light Source	1	A																		A	1
1- 25		Blood Warmer	3	A																		A	3
1- 26		Infusion Pump	4	A																		A	4
1- 27		Defibrillator with ECG Monitor	2	C																		C	-
1- 28		Dermatome	1	A																		A	1
1- 29		Ventilator (for 1-16)	2	A																		A	2
1- 30		Birches Hyffecator	1	B																		C	-
1- 31		Colonoscope, Flexible Type	1	C																		C	-
1- 32		Sigmoidoscope, Flexible Type	1	B																		B	1
1- 33		Bed (for Endoscopy)	1	C																		C	-
1- 34		Suction Unit, Mobile, 1-Bottle	5	A																		A	5
1- 35		Liquid Nitrogen Flask	1	C																		C	-
1- 36		Gastroscope	1	C																		C	-
1- 37		Ventilator, Infant	1	A																		A	1
1- 38		Phaco Emulsification Machine	1	A																		A	1

# THEMBA HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY	
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d			
1- 39	Argon Laser Photocoagulator	1	B																			B	1
1- 40	Perimeter	1	B																			B	1
1- 41	Hot Air Oven (Table Top)	1	B																			B	1
1- 42	Tonometer, Portable	1	A																			A	1
1- 43	Foetal Heart Doppler	2	C																			C	-
1- 44	Cardiotocograph (CTG), Fetal Use	1	A																			A	1
1- 45	Phototherapy Unit	3	C																			C	-
1- 46	Vacuum Extractor, Electric Type	3	A																			A	3
1- 47	Ultrasound Machine with Vaginal Probe	1	A																			A	1
1- 48	Resuscitation Unit, for Neonatal	2	A																			A	2
1- 49	Infant Incubator (ICU)	4	A																			A	4
1- 50	Double Pulley System	1	B																			C	-
1- 51	Interferential Stimulator	1	A																			A	1
1- 52	Endolaser	1	B																			C	-
1- 53	Hydrocollator Hotpads	6	B																			C	-
1- 54	Bike Exerciser	1	B																			C	-
1- 55	Spirometer	1	B																			C	-
1- 56	Dynamometer, Digital Type	1	B																			C	-
1- 57	Audiometric Equipments	1	A																			A	1
1- 58	Multimotivational Therapeutic Apparatus	1	A																			A	1
1- 59	Hydraulic Hand Dynamometer	1	B																			C	-
1- 60	Traction Bed	1	B																			C	-
1- 61	Ambulance	3	A																			A	3
Taking the staff plan, etc. into consideration, the final quantity of request is determined 3 sets (original request: 6 sets).																							
1- 62	Equipment for Ambulances	3	A																			A	3
Along with the reduction in the number of ambulance cars, the final quantity of request is determined to 3 sets (original request: 6 sets).																							
1- 63	Kramer Bags	8	A																			A	8
1- 64	Ambubag	2	B																			B	2
1- 65	Sphygmomanometer, Wall Mounted Type	5	A																			A	5
1- 66	Diagnostic Set, Wall Mounted Type	6	A																			A	6
The final quantity of request is determined to 6 sets by increasing the sharing sections (original request: 10 sets).																							
1- 67	Glucometer	10	A																			A	10
1- 68	Haemoglobin Meter	2	B																			B	2
1- 69	Infusion Pump, Volumetric and Drop Counter Type	30	A																			A	30
1- 70	Nebulizer	4	A																			A	4



# THEMBA HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d		
1- 71	Oxygen Flowmeter	15	A																		A	15
1- 71	Oxygen Flowmeter	15	B																		C	-
1- 72	Weigh Scale, Baby, Electronic Type	3	A	The final quantity of request is determined to 3 sets by increasing the sharing sections (original request: 5 sets).																	A	3
1- 73	Weigh Scale, Adult	6	A																		A	6
1- 74	Suction Unit, Mobile	2	A																		A	2
1- 75	Suction Unit, Wall Mounted Type	3	A																		A	3
1- 76	X-Ray Viewing Box, Mobile	4	B	The final quantity of request is determined to 4 sets by increasing the sharing sections (original request: 8 sets).																	B	4
1- 77	X-Ray Viewing Box, Small	4	B	The final quantity of request is determined to 4 sets by increasing the sharing sections (original request: 7 sets).																	B	4
1- 78	Autoclave, E. O. Gas Type	1	B																		B	1
1- 79	Metal Scoop Stretcher	3	B																		C	-
1- 80	Trauma Stretcher (Radiolucent)	2	A																		A	2
1- 81	Wheel Chair	6	B																		B	6
1- 82	Dental Unit with Handpiece	1	A																		A	1
1- 83	Mobile Dental Clinic Unit, W/Compressor	1	A																		A	1
1- 84	Operator Assistant Stool	2	A																		A	2
1- 84	Operator Assistant Stool	2	B																		C	-
1- 85	Autoclave, Dental (Portable)	1	A																		A	1
1- 86	Visible Curing Light	1	A																		A	1
1- 87	Dental Forceps Kit (Including Elevator)	2	A																		A	2
1- 87	Dental Forceps Kit (Including Elevator)	1	B																		C	-
1- 88	C-Arm & Image Intensifier	1	A																		A	1
1- 89	X-Ray Unit, Portable Type	1	B																		B	1
1- 90	Processor, Theater	1	A																		A	1
1- 91	Patient Scoop	1	A																		A	1
1- 92	Patient Slide (Pat Side)	1	B																		C	-
1- 93	Cassette	54	A																		A	54
1- 94	Boomerang	1	A																		A	1
1- 95	Viewing Box (Large)	2	B																		C	-
1- 96	Cassette Hatch	1	A																		A	1
1- 97	Safelight for Theater	1	A																		A	1

# THEMBA HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY								CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
1- 98	Cassette, Theater	6	A																					A	6
1- 99	Darkroom Printer for Theater	1	A																					A	1
1- 100	Lead Aplons Double-Side	4	A																					A	4
1- 100	Lead Aplons Double-Side	4	B																					C	-
1- 101	Sphygmomanometer, Wall Mounted Type *1	4	A																					A	4
1- 102	Suction Unit, Foot Type, 1-Bottle	1	A																					A	1
1- 103	Emergency Trolley	2	A																					A	2
1- 104	Phototherapy Unit	1	A																					A	1
1- 105	X-Ray Unit with Processor	1	A																					A	1
1- 106	Infant Resuscitator, Mobile	2	A																					A	2
1- 107	Nebulizer	2	A																					A	2
1- 108	Weigh Scale, Adult	4	A																					A	4
1- 109	Suction Unit, Mobile, 2-Bottle	1	A																					A	1
1- 110	Glucometer	3	A																					A	3
1- 111	X-Ray Viewing Box, Large	2	A																					A	2
1- 112	X-Ray Viewing Box, Small	4	A																					A	4
1- 113	Ambubag, Neonatal	1	A																					A	1
1- 114	Centrifuge (2,000rpm)	1	B																					B	1
1- 115	Card Rocker	1	B																					C	-
1- 116	Angle Poise Lamp Mobile	6	A																					A	6
1- 117	Infant Resuscitator, Mobile	6	A																					A	6
1- 118	Suction Unit, Mobile, 1-Bottle	8	A																					A	8
1- 119	Emergency Trolley	3	A																					A	3
1- 120	Soft Waste Incinerator, Portable	7	B																					B	7
1- 121	Infant Incubator	3	A																					A	3
1- 122	Mobile Clinic Vehicle (4WD)	4	A																					A	4
1- 123	Complete Unit Attachment	4	A																					A	4
1- 124	First Aid Kit	4	A	The final quantity of request is determined to 4 sets by increasing the sharing sections (original request: 8 sets).																				A	4
1- 125	Weigh Scale, Adult	4	A	The final quantity of request is determined to 4 sets by increasing the sharing sections (original request: 8 sets).																				A	4
1- 126	Ambubag, Adult	4	A																					A	4
1- 127	Sphygmomanometer (Aneroid)	4	A	The final quantity of request is determined to 4 sets by increasing the sharing sections (original request: 8 sets).																				A	4

# UMUTATA HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY		
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d				
2- 1	Emergency Cart for Orthopedic	30	A	○																		A	30	
2- 2	Blanket Washing Machine	1	A																			C	-	
2- 3	Petrol Generator (5KVA)	3	B																			C	-	
2- 4	Blood Gas Analyzer (Compact Type)	1	A		○	○																A	1	
2- 5	Bed with Adjustable Backrest and Mattress	50	A	Expecting the independent procurement (self-supporting effort) by the hospital, the final quantity of request is determined to be 50 sets. (original request: 150 sets.).																			B	25
2- 6	Bed, Hi-Low Adjustable Backrest and Mattress	20	B	Expecting the independent procurement (self-supporting effort) by the hospital, the final quantity of request is determined to be 20 sets. (original request: 40 sets.).																			B	20
2- 7	Blood Warmer	4	A	○																		A	4	
2- 8	Infant Incubator	5	A		○																	A	5	
2- 9	Patient Trolley with Mattress	2	A		○																	A	2	
2- 10	Drip Stand	10	A		○	○																A	10	
2- 11	Suction Unit, 2-Bottle	2	A		○	○																A	2	
2- 12	Suction Unit, Battery Type, 1-Bottle	2	A		○	○																A	2	
2- 13	Sphygmomanometer, Portable Type	6	A		○	○																A	6	
2- 14	Sphygmomanometer, Wall Mounted Type	4	A		○	○																A	4	
2- 15	Glucometer	5	A		○	○																A	5	
2- 16	Infusion Pump, Drop Counter Type	5	A		○	○																A	5	
2- 17	Diagnostic Set	5	A		○	○																A	5	
2- 18	ECG Monitor, 1-ch.	2	A		○	○																A	2	
2- 19	Syringe Pump	3	A		○	○																A	3	
2- 20	Laryngoscope Set, Pediatrics-4 Blades	2	A		○	○																A	2	
2- 21	Magills Forceps	4	A		○	○																A	4	
2- 22	Pulse Oximeter	2	A		○	○																A	2	
2- 23	NIBP Monitor, Electronic/Battery Type	2	A		○	○																A	2	
2- 24	Infant Warmer with Resuscitation Unit	2	A		○	○																A	2	
2- 25	Ambubag	4	A		○	○																A	4	
2- 26	Apnoea Monitor	4	A		○	○																A	4	
2- 27	Resuscitation Unit, Mobile Type, for Infant	3	A		○	○																A	3	
2- 28	Phototherapy Unit	4	A		○	○																A	4	
2- 29	Head Light, ENT	5	A		○	○																A	5	
2- 30	Tympanometric Device, Automatic	1	A		○	○																A	1	
2- 31	Tympanoplasty Set	1	C																			C	-	
2- 32	Micro Air Drill, Complete	1	A		○	○																A	1	
2- 33	Mastoid Curette Set	1	A		○	○																A	1	
2- 34	Micro Laryngoscopic Forceps and Scissors	1	B		○	○																B	1	
2- 35	ENT Microscope	1	A		○	○																A	1	

# UMUTATA HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION										CRITERIA FOR PRIORITY				INVESTIGATION				EVALUATION	RESULT OF QUANTITY	
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d				
2- 36	ECG Monitor, 1-ch.	2	A																				A	2
2- 37	Sphygmomanometer, Mobile Type	3	A																				A	3
2- 38	Sphygmomanometer, Wall Mounted Type	10	A																				A	10
2- 39	Glucometer	10	A																				A	10
2- 40	Stethoscope	15	A																				A	15
2- 41	Diagnostic Set	3	A																				A	3
2- 42	Transport Trolley	2	A																				A	2
2- 43	Examination Light, Mobile Type	1	A																				A	1
2- 44	Resuscitation Unit, Mobile Type	1	A																				A	1
2- 45	Crib	1	A																				A	1
2- 46	Infant Incubator	1	A																				A	1
2- 47	Infusion Pump, Volumetric Type	1	A																				A	1
2- 48	Syringe Pump	1	A																				A	1
2- 49	Vacuum Extractor, Electric Type	1	A																				A	1
2- 50	Cardiotocograph (CTG), Fetal Use	4	A																				A	4
2- 51	Foetal Heart Doppler	2	A																				A	2
2- 52	Phototherapy Unit	2	A																				A	2
2- 53	Examination Couch, Lithotomy	6	B	Consulting the necessity, the final priority is determined B (original request: A).																			C	-
2- 54	Orthopedic Table, Minor	1	A																				A	1
2- 55	Orthopedic Table, Major	1	A																				A	1
2- 56	Anaesthetic Machine with Ventilator	1	A																				A	1
2- 57	Autoclave, Small Flash Type	1	A																				A	1
2- 58	Electric Blanket	2	A																				A	2
2- 59	Crib	1	A																				A	1
2- 60	Blood Warmer	2	A																				A	2
2- 61	Emergency Trolley (Fully Equipped)	1	A																				A	1
2- 62	Electrocardiograph, 3 ch.	1	A																				A	1
2- 63	Examination Light, Mobile Type	1	A																				A	1
2- 64	Anaesthetic Machine with Ventilator	1	A																				A	1
2- 65	Infusion Pump, Volumetric Type	1	A																				A	1
2- 66	Suction Unit, 2-Bottle	1	A																				A	1
2- 67	Suction Unit, 1-Bottle	1	A																				A	1
2- 68	Theater Table	1	A																				A	1
2- 69	Theater Light (2-Arm Type)	1	A																				A	1
2- 70	Bedside Monitor	1	A																				A	1
2- 71	Drip Stand	1	B	Consulting the necessity, the final priority is determined B (original request: A).																			C	-
2- 72	Infusion Pump (Volumetric Type)	1	A																				A	1

# UMUTATA HOSPITAL

UMUTATA HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY					
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d							
2- 73	Infusion Pump, Drop Counter Type	1	A	○																				A	1		
2- 74	Blood Warmer	1	A	○																				A	1		
2- 75	Transport Trolley	4	A	○																				A	4		
2- 76	Tourniquet, Double	1	A	○																				A	1		
2- 77	Emergency Trolley with Defibrillator	1	A	○	○																			A	1		
2- 78	Electric Blanket	2	A	○																				A	2		
2- 79	Emergency Trolley without Defibrillator	2	C	The final priority is determined to rank C, because of a duplicated request (original request: rank A).																				C	-		
2- 80	Anaesthetic Machine (Minor)	1	A	○	○																			A	1		
2- 81	Instrument Trolley	2	A	○	○																			A	2		
2- 82	Basic Thoracotomy Set	2	C	Consulting the necessity, the final priority is determined C (original request: A).																				C	-		
2- 83	Basic Vascular Set, Adult	1	C	Consulting the necessity, the final priority is determined C (original request: A).																				C	-		
2- 84	Instrument Cupboard, Large	1	A	○																				A	1		
2- 85	Mobile Clinic Vehicle (4WD)	2	A	○	○	○	○	○																A	2		
Additional Request																											
2- 86	Phaco Emulsification Machine	1	A			○	○																	A	1		
2- 87	Operating Microscope	1	A			○	○																	A	1		
2- 88	Autoclave	1	A			○	○																	A	1		
2- 89	Operating Instrument for Cataract	1	A			○	○																	A	1		
Taking the situation of medical treatment at the ophthalmology department into consideration, the 4 items are requested additionally as the priority A from the relevant hospital.																											

# GEORGE HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY								CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY	
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d						
3- 1	Arthro Videoscope	1	A																						A	1
3- 2	Colono Videoscope	1	A																						A	1
3- 3	Autoclave (Flash)	1	A																						A	1
3- 4	Autoclave (Eye Instruments)	1	A																						A	1
3- 5	Patient Monitor (Similar to ICU)	4	A																						A	4
3- 6	Oximeter (Portable)	1	A																						A	1
3- 7	Binocular Indirect for Ophthalmology	1	A																						A	1
3- 8	Examination Chair for Ophthalmology	1	A																						A	1
3- 9	Yag Laser	1	A																						A	1
3- 10	Chart Projector, Automatic Type	1	A																						A	1
3- 11	Auto Refractometer / Keratometer	1	A																						A	1
3- 12	Phaco Emulsification Machine	1	A																						A	1
3- 13	Yag Laser, Combination Type	1	A																						A	1
3- 14	Phaco (One Hand Piece) with Anti Vitrectomy	1	A																						C	-
3- 15	Operating Microscope (with Foot Control)	1	A																						A	1
3- 16	Naso-Pharyngeal Scope	1	A																						A	1
3- 17	Ultrasound Machine, A/B Mode (Ophthalmology)	1	A																						A	1
3- 18	Yag Laser	1	A																						X	-
3- 19	Slit Lamp	1	A																						A	1
3- 20	Sinuscope	1	A																						A	1
3- 21	Timpanometer	1	A																						A	1
3- 22	Flexible Oesophageal Dilators	1	A																						X	-
3- 23	Stappler Gun (A-P anastomoses)	1	A																						X	-
3- 24	Cystoscope Set, Standard	1	A																						A	1
3- 25	Percutane Renal Surgery Unit	1	A																						A	1
3- 26	Slow Speed Drill (for Reaming)	1	A																						A	1
3- 27	Minor Orthopaedic Operation Set	2	A																						A	2
3- 28	Fine Instrument Set (Nerve/Tendon Repair)	2	A																						A	2
3- 29	Automatic High Flow Injector (Angio)	1	A																						A	1
3- 30	X-Ray Unit	1	A																						A	1
3- 31	Ultrasound Machine, Colour Doppler	1	A																						A	1
3- 32	Syringe Pump	6	A																						A	6
3- 33	Bed for ICU	8	A																						A	8
3- 34	Infusion Pump, Volumetric Type	10	A																						A	10
3- 35	Patient Monitor and Central Station (with Printer)	7	A																						A	7
3- 36	Bedside Monitor (Rhythm, BP, Dat. Temp)	2	A																						A	2
3- 37	Ventilator, Adult (for ICU)	4	A																						A	4

# GEORGE HOSPITAL

GEORGE HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY										CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Consulting the frequency of use, the final quantity of request is determined to 1 sets (original request: 4 sets).																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
3- 38	Infant Incubator, Mobile Type	1	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	6	7	8	a	b	c	d		
3- 74	Plasma Sterilizer	1	C													C	-
<b>Additional Request</b>																	
3- 75	X-Ray Unit, Mobile Type	1	A	O	O	O										A	1
An X-ray unit of mobile type which was not listed by mistake was requested additionally. This hospital uses an obsolete X-ray unit of mobile type (older than 20 years).																	



**TSHWARAGANO COMMUNITY HOSPITAL**

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY								CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY				
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d									
4- 1	Mobile Clinic Vehicle (4WD)	5	A	○																						A	3		
4- 2	Ultrasound Machine	2	A																							A	2		
4- 3	C-Arm	1	A																							A	1		
4- 4	Processor	1	A																							A	1		
4- 5	X-Ray Unit, Mobile Type	1	A	The request for health centers is turned down, and the final quantity of request is determined to 1 set (original request: 2 sets).																								A	1
4- 6	Table Top Processor	1	B	○	○																						B	1	
4- 7	X-Ray Unit, Buky Type	1	A	The request for health centers is turned down, and the final quantity of request is determined to 1 set (original request: 2 sets).																								A	1
4- 8	X RAY Screening Unit	2	A	○	○																						X	-	
4- 9	Nebulizer	6	A	The final quantity of request is determined to 6 sets by increasing the commonly sharing sections (original request: 20 sets).																								A	6
4- 10	Infant Incubator	4	A	○	○																					A	4		
4- 11	Ventilator, ICU	1	A	○	○																					A	1		
4- 12	Ventilator, Paediatric	1	B	Deleted: several items are already requested and to be shared in common.																								X	-
4- 13	Infant Incubator, Portable	1	A	Consulting the frequency of use, the final quantity of request is determined to 1 set (original request: 2 sets).																								A	1
4- 14	Uterus Irrigating Catheter	3	C	○	○																						C	-	
4- 15	Diamond Jaw Needle Holder Bow-Lock	6	B																							B	6		
4- 16	Bone Forcep Set	6	B	○																						B	6		
4- 17	Cesarean Incision Set, Abdominal	2	A	○																						A	2		
4- 18	Operation Instrument Set for ENT	1	A	Consulting the frequency of use, the final quantity of request is determined to 1 set (original request: 3 sets).																								A	1
4- 19	Anaesthetic Machine	1	A	○																							A	1	
4- 20	Bedside Monitor	3	A	○																						A	3		
4- 21	Stellenbosh Pediatric Circuit	2	A	○																						X	-		
4- 22	Ventilator, Paediatric	2	A	Deleted: judged as consumables.																								A	2
				The final quantity of request is determined to 2 sets by increasing the commonly sharing sections (original request: 3 sets).																									
				○	○																								

**TSHWARAGANO COMMUNITY HOSPITAL**

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION										INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	6	7	8	9	10	a	b	c	d		
4- 23	Anaesthesia Ventilator	3	A											Deleted: several items are already requested and to be shared in common.				X	-
4- 24	EXPIRATORY VALVE	1	B											Deleted: can be procured by hospital's own budget.				X	-
4- 25	Catheter Mount	1	B											Deleted: can be procured by hospital's own budget.				X	-
4- 26	Rebreathing Bag	2	A	○														A	2
4- 27	Oxygen Cylinder for Anaesthesia Machine	1	A	○														A	1
4- 28	Key Cylinder for Pin Index Cylinder Valve	1	A											Deleted: not used directly for medical care activity, and can be procured by hospital's own budget.				X	-
4- 29	Occupational Therapy Standing Table	1	A	○														A	1
4- 30	Mat for Exercise	1	A	○														A	1
4- 31	Panel Screen (Three) Connected by Plastic Curtainscreen	5	A	○														A	5
4- 32	Panel Screen Double Flame Resistant Curtain	5	A	○														A	5
4- 33	Panel Screen (Single) Flame Resistant Curtain	5	A	○														A	5
4- 34	Oxygen Cylinder Truck Twin Oxygen Cylinder Carrier	2	A	○														A	2
4- 35	Cervical Operating Set	2	A	○														A	2
4- 36	Orthopedic Table	1	B	○														B	1
4- 37	Bed, Hi-low Adjustable Backrest and Mattress	3	A											Deleted: duplicate request.				X	-
4- 38	Gatch Bed, 3-Crank	3	A											Deleted: duplicate request.				X	-
4- 39	Gatch Bed, Two Crank	3	A											Deleted: duplicate request.				X	-
4- 40	Petrol Generator (5KVA)	1	A											The request for health centers is turned down, and the final quantity of request is determined to 1 set (original request: 2 sets).				B	1
4- 41	Air Conditioner	14	A	○														B	14
4- 42	Bed for ICU	4	A											Taking into consideration the fact that there are 4 ICU beds, the final quantity of request is determined to 4 sets (original request: 2 sets).				A	4
4- 43	Treatment Carriage (3 Shelves Guard Rails)	1	B	○														B	1
4- 44	Defibrillator	2	A	○														A	2
4- 45	Diathermy, Surgical	1	B	○										Deleted: the existing instrument can withstand the duty.				X	-
4- 46	Fragment Instrument Set, Small	1	A											Deleted: can be procured by hospital's own budget.				X	-
4- 47	Pneumatic Drill	2	A	○														A	2
4- 48	Bassinet	10	B	○														B	10
4- 49	Traction Unit, Small	1	A	○														A	1
4- 50	Post Mortem Set in Wooded Case	1	B	○														B	1
4- 51	Mortuary Trolley (S/S Top)	1	A	○														A	1

**TSHWARAGANO COMMUNITY HOSPITAL**

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY					
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d							
4- 52	Dermatome Simplex	1	A																							A	1
4- 53	Dermatome Duplex	1	A																							A	1
4- 54	Castroviejo Caliper	6	B						Deleted: can be procured by hospital's own budget.																X	-	
4- 55	Suspension Frame	1	B						Deleted: can be procured by hospital's own budget.																X	-	
4- 56	Accessories for Exercising	1	C						Deleted: can be procured by hospital's own budget.																X	-	
4- 57	Suction Unit, Mobile 2-Bottle	2	A																							A	2
4- 58	Hydrotherapy Whirlpool Stainless Steel Treatment Tank	1	B						Taking the present situation of the supposed place of installation into consideration, the final quantity of request is determined to 1 set (original request: 2 sets). The necessity was consulted, and the final priority is determined to be the rank B.																C	-	
4- 59	Autoclave for Theatre (Dual Facility)	2	A																							A	2
4- 60	Mobile Dental Clinic Unit	1	A																							A	1
4- 61	Theater Lamp, Mobile	2	A																							A	2
4- 62	Bronchoscope, Flexible with Light Source	1	B																							B	1
4- 63	Endoscope	1	B																							B	1
4- 64	Foetal Heart Doppler	2	A																							A	2
4- 65	Vacuum Extractor, Electric Type & Manual Type	2	A																							A	2
4- 66	Placenta gobbler	3	A																							X	-
4- 67	Bed, Adjustable, with Mat	4	A																							A	4
4- 68	Bed with Frame and Mat	10	A																							A	10
4- 69	Visitors Stool, Under Bed Type	30	B																							B	15
4- 70	Infusion Pump, Drop Counter Type	6	A																							A	6
4- 71	Electrocardiograph, 1-ch.	3	A																							A	3
4- 72	Drug Cabinet	2	B																							B	2
4- 73	Urinal Cabinet	2	B																							B	2
4- 74	Cart (Medicine Trolley)	7	A																							A	7
4- 75	Mayo Table	2	A																							A	2
4- 76	Instrument Cabinet	4	A																							A	4
4- 77	Weigh Scale with Height Measurement, Adult	2	B																							B	2
4- 78	Bedpan and Urinal Rack, Wall Mounted Type	7	B																							B	7
4- 79	Emergency Trolley	4	A																							A	4
4- 80	Communication System	1	B																							C	-

**TSHWARAGANO COMMUNITY HOSPITAL**

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d		
4- 81	Equipment for a Casualty Dept. Patient CACC System & Computers	1	A						Deleted: specific proposal is not prepared by the hospital.												X	-
4- 82	Diagnostic Set, Wall Mounted Type	4	A	<input type="radio"/>	<input type="radio"/>																A	4
4- 83	Mobile Cabinet	4	A						Deleted: can be procured by hospital's own budget.												X	-
4- 84	Dental X-Ray Unit	1	A	<input type="radio"/>	<input type="radio"/>																A	1
4- 85	Blood Warmer	4	A	<input type="radio"/>	<input type="radio"/>																A	4
4- 86	Vehicle (4WD)	3	A						Deleted: not used directly for clinic activity.												X	-
4- 87	Patient Lift	1	A	<input type="radio"/>																	A	1
4- 88	CO2 Incubator	1	B	<input type="radio"/>																	B	1
4- 89	Autoclave	1	B	<input type="radio"/>																	B	1
4- 90	Jar	1	B																		C	-
4- 91	Centrifuge	1	B	<input type="radio"/>																	B	1
4- 92	Microscope, Fluorescence	1	B	<input type="radio"/>																	B	1
4- 93	Binocular Microscope	1	B	<input type="radio"/>																	B	1
4- 94	Blood Gas Analyzer	1	B	<input type="radio"/>	<input type="radio"/>																B	1

# **BOKSBURG-BENONI HOSPITAL**

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d		
5- 1	Babyscale, Electronic Type	7	B																		C	-
5- 2	Diagnostic Set	25	A																		A	13
5- 3	Sphygmomanometer (for Baby)	3	C																		C	-
5- 4	Bilirubinometer + Centrifuge	1	A																		A	1
5- 5	Freezer	4	C																		C	-
5- 6	Laryngoscope, Babies, Complete	1	A																		A	1
5- 7	Laryngoscope, Fibre Optic Type	1	B																		B	1
5- 8	Plaster Cutter	1	C																		C	-
5- 9	Cleaning Machine (Vacuum and Suction)	10	C																		C	-
5- 10	Electrocardiograph Machine, 3-ch.	4	B																		B	4
5- 11	Pulse Oximeter	8	A																		A	8
5- 12	NIBP Monitor, Electronic Type	12	A																		A	12
5- 13	Blood Warmer	8	B																		B	8
5- 14	Ventilator	2	A																		A	2
5- 15	Blood Gas Analyzer with Haemoglobinometer	1	A																		A	1
5- 16	Power Drill, Orthopedic	1	B																		B	1
5- 17	Arthroscope	1	C																		C	-
5- 18	Instrument Washing Machine	1	B																		B	1
5- 19	Rigid Sigmoidoscope	1	C																		C	-
5- 20	Bed	12	B																		B	12
5- 21	Ultrasound Machine with Vaginal Probe	1	A																		A	1
5- 22	Patient Scale	8	B																		A	8
5- 23	Plaster Saw	1	C																		C	-
5- 24	Infusion Pump, Volumetric Type	2	B																		B	2
5- 25	Screening Audiometer, Portable	5	A																		A	5
5- 26	Autoclave (500L)	1	A																		A	1
5- 27	Colposcope	1	A																		A	1
5- 28	Proctoscope, Surgical Opd, Rigid Type	1	C																		C	-
5- 29	Phaco Emulsification Machine	1	B																		A	1
5- 30	Chart Projector, Automatic Type	1	A																		A	1
5- 31	Keratometer	1	A																		A	1
5- 32	Lensometer	1	B																		X	-
5- 33	Indirect Ophthalmoscope	1	A																		A	1
5- 34	Retinoscope	1	B																		B	1
5- 35	Instrumentation for Eye Operations	1	A																		A	1
5- 36	Aplamaton Tonometer	1	B																		B	1
5- 37	Perimeter	1	B																		B	1
5- 38	Slit Lamp	1	A																		A	1
5- 39	Ultrasound Machine, B Mode (Ophthalmology)	1	A																		A	1

Deleted: can be procured by hospital's own budget.

# **BOKSBURG-BENONI HOSPITAL**

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY								CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	a	b	c	d		
5- 40	Examination Chair, Gynaecology	1	B	○	○																		B	1	
5- 41	Obstetric Instruments (Forceps)	1	A		○																		A	1	
5- 42	Suturing Instruments	2	A			○																	A	2	
5- 43	Weigh Scale, Baby	4	A		○	○																	A	4	
5- 44	Cardiotocograph (CTG), Fetal Use	2	A			○																	A	2	
5- 45	Ultrasound Machine, Portable (OBS+GYNAME)	1	A		○	○																	A	1	
5- 46	Operating Table, Orthopedic	1	A		○	○																	A	1	
5- 47	ECG Monitor	1	B			○																	B	1	
5- 48	CT Scan (Whole Body)	1	A				○	○	○														A	1	
5- 49	C-Arm (Mobile)	1	B				○	○	○														B	1	

**QWA-QWA HOSPITAL (MANAPO, ELIZABETH ROSS)**

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION	EVALUATION	RESULT OF QUANTITY						
				1	2	3	4	5	1	2	3	4	5	6	7	8				a	b	c	d		
6- 1	X-Ray Unit, Screening Type (Manapo)	1	1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																		A	1
6- 2	X-Ray Bucky Unit (Manapo, ER)	2	2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																		A	2
6- 3	Ultrasound Machine with Vaginal Probe (Manapo)	1	3			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																A	1
6- 4	X-Ray Unit, Portable Type (Manapo)	1	4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																		A	1
6- 5	Film Processor, Daylight (Manapo)	1	5				<input type="radio"/>	<input type="radio"/>																A	1
6- 6	Beside Monitor for ICU (Manapo)	2	6		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																A	2
6- 7	Ventilator, ICU (Manapo)	2	7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																A	2
6- 8	Physiotherapy Equipment (Manapo)	1	8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																A	1
6- 9	Medical Gas Panels (Manapo)	1	9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																A	1
6- 10	Incinerator (Manapo)	1	12	Taking the necessity of additional request equipment into consideration, the final priority is ranked 12th (original request: 10th).																		B	1		
6- 11	X-Ray Bucky Unit (ER)	1	16		<input type="radio"/>																			C	-
6- 12	Ultrasound Machine (ER)	1	13	Taking the necessity of additional request equipment into consideration, the final priority is ranked 13th (original request: 12th).																		C	-		
6- 13	X-Ray Unit, Portable Type (ER)	1	14	Taking the necessity of additional request equipment into consideration, the final priority is graded 14th (original request: 13th).																		C	-		
6- 14	Teleradiography (Manapo, ER)	2	15	Taking the necessity of additional request equipment into consideration, the final priority is ranked 15th (original request: 14th).																		C	-		
6- 15	Bronchoscope, Flexible with Light Source (Manapo)	1	10	Taking the situation of the existing equipment into consideration, the final priority is ranked 10th (original request: 15th).																		B	1		
Additional Request																									
6- 16	Orthopedic Operating Table (Manapo)	1	11		<input type="radio"/>	<input type="radio"/>																		B	1
The demand for wounded outpatients is large, and therefore, there was a request from the relevant hospital as the 11th priority.																									

# KING EDWARD VIII HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d		
7- 1	CT Scan (Spiral)	1	1																		A	1
7- 2	X-Ray Equipment for Screening Room	2	2																		A	2
7- 3	Ultrasound Machine, Colour Doppler	1	3																		A	1
7- 4	Endoscopic Ultrasound Scanning System	1	4																		A	1
7- 5	Argon Laser Photocoagulator	1	5																		B	1
7- 6	Ventilator, Paediatric	8	6																		C	-
7- 7	Video Camera System (PAL) for Rotary Retinoscope Usage	1	7																		C	-
7- 8	Ultrasound Machine (Echo Cardiological Colour System)	1	8																		C	-
7- 9	Cerebral Oximeter	1	9																		C	-
7- 10	Data Information System	1	10																		C	-



# KIMBERLEY HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION								INVESTIGATION								EVALUATION	RESULT OF QUANTITY			
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c			d		
8- 1	X-Ray Unit	1	A	○	○																A	1		
8- 2	X-Ray Unit, Tomography	1	A			○	○														A	1		
8- 3	X-Ray Unit, Mobile Type (30Kw)	1	A	○	○																A	1		
8- 4	Micro Processor, Fully Set	1	A					○													A	1		
8- 5	Trolley Trauma	2	A		○																A	2		
8- 6	Cassette	1	A		○																A	1		
8- 7	Cupboard/Storage of Cassette	2	A		○																A	2		
8- 8	Floor Polisher/Scrubber	1	A	Because this item is not used directly for medical care activity, and the hospital budget allows independent procurement, this is deleted from the requested equipment.																			X	-
8- 9	Child Restraint	2	A		○																A	2		
8- 10	ID Printer	1	A		○																A	1		
8- 11	Cassette Holder, Mobile	2	A		○																A	2		
8- 12	Drip Stand	2	A	○	○																A	2		
8- 13	ECG Monitor, 3-ch.	1	A		○																A	1		
8- 14	Blood Gas Analyzer	1	A		○	○	○														A	1		
8- 15	Ambubag	3	A	○	○																A	3		
8- 16	Ambulance	1	A	○	○																A	1		
8- 17	Apnoea Monitor	3	A		○																A	3		
8- 18	Argon Laser Photocoagulator	1	A		○		○														A	1		
8- 19	Audiometer	1	A	○	○																A	1		
8- 20	Infusion Pump, Volumetric Type	1	A	○	○																A	1		
8- 21	Autoclave	1	A		○																A	1		
8- 22	Auto Refractometer	1	A	○	○																A	1		
8- 23	Sphygmomanometer	13	A	Because the procurement by the budget of hospital is sufficiently available, this item is deleted from the requested equipment.																			X	-
8- 24	Bed for ICU	4	A		○																A	4		
8- 25	Bed Striker	2	A		○																A	2		
8- 26	Bidet	1	A		○																A	1		
8- 27	Bone Cutter	1	A		○																A	1		
8- 28	Bronchoscope, Flexible with Light Source	1	A		○																A	1		
8- 29	Bronchoscope, Paediatric	1	A		○	○	○														A	1		
8- 30	ECG Monitor	8	A	○	○	○	○														A	8		
8- 31	Overbed Table	210	A	Because the procurement by the budget of hospital is sufficiently available, this item is deleted from the requested equipment.																			X	-
8- 32	Cardiotocograph (CTG), Fetal Use	1	A		○																A	1		
8- 33	Cholangiogram Table	1	A		○	○	○														A	1		
8- 34	Cot Bed, Adult	4	A		○																A	4		
8- 35	Diagnostic Set	4	A	○	○																A	4		
8- 36	Cardiotocograph (CTG), Fetal Use	2	A		○		○														A	2		

# KIMBERLEY HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY								CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY		
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d							
8- 37	Drip Stand	15	A	Because the procurement by the budget of hospital is sufficiently available, this item is deleted from the requested equipment.																						X	-
8- 38	Drying Cabinet	1	A	○																				A	1		
8- 39	ECG Holter	1	A	Deleted from the requested equipment, consulting the frequency of use.																						X	-
8- 40	Defibrillator with ECG Monitor	2	A	The final quantity of request is determined to 2 sets by increasing the commonly sharing sections (original request: 3 sets).																						A	2
8- 41	ECG Monitor	1	A	○	○																			A	1		
8- 42	ECG Monitor, Paediatric	1	A	○	○																			A	1		
8- 43	Equipment Various	1	A	Because the procurement by the budget of hospital is sufficiently available, this item is deleted from the requested equipment.																						X	-
8- 44	Floor H2O Suction Machine	1	A	Because this item is not used directly for medical care activity, and the hospital budget allows independent procurement, this is deleted from the requested equipment.																						X	-
8- 45	Folder Trolley for Patient File	14	A	Expecting the independent procurement (self-supporting effort) by the hospital, the final quantity of request is determined to be 14 sets. (original request: 42 sets.).																						A	14
8- 46	Forcep Gillies	50	A	○																				A	50		
8- 47	Forcep Mosquito, Cof	20	A	○																				A	20		
8- 48	Forcep Mosquito, Str	50	A	○																				A	50		
8- 49	Forcep Spencer Wells, Str	20	A	○																				A	20		
8- 50	Glucometer	9	A	○	○																			A	9		
8- 51	Handle (BP No3)	50	A	○																				A	50		
8- 52	Handle (BP No4)	30	A	○																				A	30		
8- 53	Haemoglobin Meter	5	A	○	○																			A	5		
8- 54	Hyper/Hypothermia Unit	1	A	○	○																			A	1		
8- 55	Infant Incubator, Open Type (ICU)	2	A	○	○																			A	2		
8- 56	Infant Incubator	5	A	Expecting the independent procurement (self-supporting effort) by the hospital, the final quantity of request is determined to be 5 sets. (original request: 15 sets.).																						A	5
8- 57	Infant Warmer with Resuscitation Unit	4	A	○	○																			A	4		
8- 58	Infusion Pump (Adult)	13	A	○	○																			A	13		
8- 59	Infusion Pump (Neonatal)	4	A	○	○																			A	4		
8- 60	Infusion Pump (Paediatric)	2	A	○	○																			A	2		
8- 61	Medical Air Compressor	1	A	○	○																			A	1		
8- 62	Microscope for Lab.	1	A	○	○																			A	1		
8- 63	Ventilator, Mobile Type	1	A	○	○																			A	1		
8- 64	Needle Holder	50	A	○	○																			A	50		
8- 65	NIBP Monitor, Electronic Type	11	A	○	○																			A	11		
8- 66	Operating Table	1	A	○	○																			A	1		

# KIMBERLEY HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY					
				1	2	3	4	5	1	2	3	4	5	6	7			8	a	b	c	d
8- 67	Operating Microscope	1	A																		A	1
8- 68	Ophthalmoscope Indirect	1	A																		A	1
8- 69	Oxygen Head Box	2	A	Taking the frequency of use into consideration, the final quantity of request is determined to 2 sets (original request: 5 sets).																		
8- 70	Oxygen Monitor	2	A	Taking the frequency of use into consideration, the final quantity of request is determined to 2 sets (original request: 5 sets).																		
8- 71	Oxygen Pressure Alarm	1	A																		A	1
8- 72	Peak Flow Meter	3	A																		A	3
8- 73	Phaco Emulsification Machine	1	A																		A	1
8- 74	Phototherapy Unit	2	A																		A	2
8- 75	Plier with Twisting Forcep	1	A																		A	1
8- 76	Plaster Saw	1	A																		A	1
8- 77	Plaster Cutter	1	A																		A	1
8- 78	Infant Incubator with Ventilator	1	A																		A	1
8- 79	Pulse Oximeter	3	A	The final quantity of request is determined to 3 sets by increasing the commonly sharing sections (original request: 10 sets).																		
8- 80	Punch No3 (for Orthopedic Ops)	6	A																		A	6
8- 81	Recliners	2	A	Deleted: can be procured by hospital's own budget.																		
8- 82	Retinoscope	1	A																		A	1
8- 83	Ripple Mattress	4	A	Deleted: can be procured by hospital's own budget.																		
8- 84	Rongeur Bone (for Orthopedic Ops)	1	A																		A	1
8- 85	Scale Electronic (Pharmacy)	1	A																		A	1
8- 86	Weigh Scale Electronic, Neonatal	1	A																		A	1
8- 87	Weigh Scale Electronic, Paediatric	2	A																		A	2
8- 88	Weigh Scale with Height Measure	2	A																		A	2
8- 89	Scissors Metzemaum, Cof 140cm	26	A																		A	26
8- 90	Slit Lamp	1	A																		A	1
8- 91	Speculum Vaginal, Cusco med	6	A																		A	6
8- 92	Steel Bath	3	A																		A	3
8- 93	Stitch Scissors	100	A																		A	100
8- 94	Suction Unit (High Vacuum)	5	A																		A	5
8- 95	Suction Unit (Low Vacuum)	25	A																		A	25
8- 96	Syringe Dental	15	A	Expecting the independent procurement (self-supporting effort) by the hospital, the final quantity of request is determined to be 15 sets. (original request: 30 sets.).																		

# KIMBERLEY HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY					
				1	2	3	4	5	1	2	3	4	5	6	7			8	a	b	c	d
8- 97	Syringe Pump	3	A																		A	3
8- 98	Table Top Processor	1	A																		A	1
8- 99	Traction Pulley	10	A																		X	-
8- 100	Trolley Patient with Side	2	A																		A	2
8- 101	Trolley Theater	3	A																		X	-
8- 102	Trolley Trauma	2	A																		A	2
8- 103	Uretero-Renoscope & Instrument	1	A																		A	1
8- 104	Vacuum Extractor, Electric Type	1	A																		A	1
8- 105	Ventilator	2	A																		A	2
8- 106	Ventilator, Neonatal	1	A																		A	1
8- 107	Ventilator, Paediatric	1	A																		X	-
8- 108	Electric Blanket	1	A																		A	1
8- 109	Water Purification	1	A																		X	-
8- 110	Wheel Chair	2	A																		X	-
8- 111	Diathermy Tester	1	A																		A	1
8- 112	Pacemaker Tester	1	A																		A	1
8- 113	ECG Stimulator	1	A																		A	1
8- 114	Defibrillator Tester	1	A																		A	1
8- 115	Ventilator Tester for BME	1	A																		A	1
8- 116	Sound/Music System	1	A																		B	1
8- 117	Volley Ball Set	1	A																		B	1
8- 118	Ping Pong Ball Table	1	A																		B	1
8- 119	Sanding Machine & Belts	1	A																		B	1
8- 120	Lathe	1	A																		B	1
8- 121	Sewing Machine	2	A																		B	2
8- 122	ECT Machine	1	A																		B	1
8- 123	Air Conditioner for X-Ray	1	A																		X	-

# KIMBERLEY HOSPITAL

NIMBLET HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY				
				1	2	3	4	5	1	2	3	4	5	6	7			8	a	b	c
8- 124	Bleeder	5	A	Deleted: not used directly for medical care activity, and can be procured by hospital's own budget.												X	-				
8- 125	Diagnostic Set	2	A	○	○															A	2
8- 126	Weigh Scale with Height Measure	2	A	○	○															A	2
8- 127	Television for Psychiatric Patients	4	A	Deleted: not used directly for medical care activity, and can be procured by hospital's own budget.												X	-				
8- 128	Wheel Chair	2	A	Deleted: can be procured by hospital's own budget.												X	-				
8- 129	Ambulance	3	B	Deleted: several items are already requested and are to be shared.												X	-				
8- 130	Blood Gas Analyzer	1	B																	C	-
8- 131	Floor H2O Suction Machine	1	B	Deleted: not used directly for medical care activity, and can be procured by hospital's own budget.												X	-				
8- 132	Floor Polisher/Scrubber	6	B	Deleted: not used directly for medical care activity, and can be procured by hospital's own budget.												X	-				
8- 133	Autoclave, Steam Type	1	B			○														B	1
8- 134	Drying Cabinet	1	B			○														B	1
8- 135	X-Ray Holder Metal	210	B	Deleted: can be procured by hospital's own budget.												X	-				
8- 136	Trolley Trauma	4	B	Deleted: several items are already requested and are to be shared.												X	-				
8- 137	Autoclave	2	B	Deleted: several items are already requested and are to be shared.												X	-				
8- 138	Ventilator	2	B	Deleted: several items are already requested and are to be shared.												X	-				
8- 139	Defibrillator/ECG Monitor	4	B	Deleted: several items are already requested and are to be shared.												X	-				
8- 140	Gastroscope, Paediatric	1	B																	C	-
8- 141	Infusion Pump	6	B	Deleted: several items are already requested and are to be shared.												X	-				

# PENGE HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d		
9- 1	Anaesthetic Machine	3	A																		A	1
9- 2	Anaesthetic Stool, Height Adjustable	3	A																		A	1
9- 3	Apnoea Monitor	4	A																		A	2
9- 4	Bassinet	36	A																		A	6
9- 5	Mattress for Bassinet	36	A																		A	6
9- 6	Sphygmomanometer, Wall Mounted Type	10	A																		A	6
9- 7	Paediatric Bed	20	A																		A	4
9- 8	Mattress for Paediatric Bed (Water Proof)	20	A																		A	4
9- 9	Emergency Light with Transformer	3	A																		A	1
9- 10	Emergency Patient Trolley, Adjustable Type	6	A																		A	3
9- 11	Suction Unit, 2-Bottle	4	A																		A	2
9- 12	Emergency Trolley, Complete	8	A																		A	3
9- 13	Warming Cabinet	2	A																		A	1
9- 14	Food Trolley	6	A																		A	5
9- 15	Glucometer	10	A																		A	4
9- 16	Haemoglobin Meter	10	A																		A	4
9- 17	Bed	6	A																		A	-
9- 18	Mattress for Bed (Above)	6	A																		A	-
9- 19	Infant Incubator Manual Type, Mobile	6	A																		A	2
9- 20	Cot Mesh Mat, Infant	20	A																		A	-
9- 21	Mattress for Infant Cot (Water Proof)	20	A																		A	-
9- 22	Weigh Scale, Infant, Digital Type	2	A																		A	1
9- 23	Infusion Pump	8	A																		A	4
9- 24	Instrument Trolley	10	A																		A	5
9- 25	Kick Bucket	10	A																		A	4
9- 26	Kick Bucket with Lid	10	A																		A	4
9- 27	Laparoscope, Complete Unit	2	A																		A	-
9- 28	Laryngoscope Blades	6	A																		A	3
9- 29	Laryngoscope Handle (Medium Plain)	2	A																		A	1
9- 30	Mayo Table	2	A																		A	1
9- 31	I.V. Stand, Mobile	7	A																		A	4
9- 32	Oxygen Flowmeter with Humidifier (Double)	10	A																		A	4
9- 33	Patella Hammer	10	A																		A	4
9- 34	Patient Trolley with Side Sails	2	A																		A	1
9- 35	Phototherapy Unit	4	A																		A	2
9- 36	Resuscitator with Peep Value	2	A																		A	1
9- 37	Resuscitator with Peep Value, Children	4	A																		A	2

# PENGE HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY										CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY													
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d																				
9- 38	Resuscitator Trolley, Complete (Mobile)	4	A																								A	2												
9- 39	Resuscitator, Infant	4	A																								A	2												
9- 40	Single Bowl Stand	6	A																								A	3												
9- 41	Sphygmomanometer, Portable (Desk Top) Type	10	A																								A	6												
9- 42	Obstetric Delivery Bed	3	A																								A	1												
9- 43	Mattress for Obstetric Delivery Bed (Above)	3	A																								A	1												
9- 44	Stethoscope (Dual Hand)	10	A																								A	4												
9- 45	Stethoscope, Foetal	4	A																								A	2												
9- 46	Head Light, Surgeons (Power Source Use)	2	A																								A	1												
9- 47	Surgeons Stool (Height Adjustable)	2	A																								A	1												
9- 48	Suction Unit, Wall Mounted Type	10	A																								A	4												
9- 49	Infant Incubator (Theatre)	2	A																								A	1												
9- 50	Vacuum Extractor, Electric Type & Manual Type	3	A																								A	1												
9- 51	Visitors Stool, Under Bed Type	20	A																								B	6												
9- 52	Wall Clock	10	A																								A	4												
9- 53	Mobile Clinic Vehicle (4WD)	2	A																								A	2												
9- 54	Bed (Hi-Low Adjustable Backrest) and Mattress	80	A	In accordance with the number of beds at the time of establishment of the hospital, the final quantity of request is determined to 80 sets (original request: 60 sets).																																			A	62
9- 55	Pillow	100	A																									B	62											
9- 56	Small Operating Instruments	1	A																									A	1											
9- 57	Arm Chair, Half Back	50	B																									B	20											
9- 58	Orthopedic Frame, Complete	10	B																									B	10											
9- 59	Bedpan	80	B																									B	40											
9- 60	Bedpan and Urinal Rack, Wall Mounted Type	10	B																									B	5											
9- 61	Bedside Lamps, Wall Mounted Type	80	B																									B	62											
9- 62	Bedside Locker	80	B																									B	62											
9- 63	Blood Warmer	4	B																									B	2											
9- 64	Instrument Trolley with Basin and Bowl	6	B																									B	2											
9- 65	Diathermy Machine, Bipolar	2	B																									B	1											
9- 66	Double Foot Step	10	B																									B	2											
9- 67	Dressing Trolley	10	B																									B	4											
9- 68	Electrocardiograph Machine, 1-ch.	1	B																									B	1											
9- 69	Episiotomy Scissors	3	B																									B	3											
9- 70	Examination Couch	10	B																									B	4											
9- 71	Examination Light, Mobile Type	5	B																									B	3											
9- 72	Examination Light, Wall Mounted Type	10	B																									B	6											
9- 73	Instrument Trolley	6	B																									B	3											

# PENGE HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR DELETION										INVESTIGATION				EVALUATION	RESULT OF QUANTITY
				1	2	3	4	5	6	7	8	9	10	a	b	c	d		
9- 74	I.V Stand, Mobile	6	B															B	4
9- 75	I.V Stand, Wall Mounted with Clamp (80)←	80	B															B	62
9- 76	Kick Bucket (10)←	10	B															B	5
9- 77	Kick Bucket with Lid	10	B															B	5
9- 78	Kick Bucket without Bucket	10	B															B	5
9- 79	Leg and body Cradle	10	B															B	5
9- 80	Measuring Tape	10	B															B	3
9- 81	Oxygen Flowmeter with Humidifier, Wall Mounted Type	10	B															B	5
9- 82	Orthopedic Frame, Complete	10	B															B	4
9- 83	Patient Trolley with Mattress	4	B															B	2
9- 84	Patient Transfer Roll Board	4	B															B	2
9- 85	Electric Blanket	3	B															B	1
9- 86	Weigh Scale with Height Measure	6	B															B	2
9- 87	Plaster Trolley with Shelves	2	B															B	2
9- 88	Poison Cabinet	10	B															B	4
9- 89	Side Rails	8	B															B	4
9- 90	Traction Unit, Small	4	B															B	4
9- 91	Linen Trolley	10	B															B	9
9- 92	Linen Trolley (Box Type)	10	B															B	9
9- 93	Pedal Bin, Stainless Steel	10	B															B	4
9- 94	Thomas Splint-Large	6	B															B	3
9- 95	Thomas Splint-Medium	6	B															B	3
9- 96	Trolley for Diathermy Machine	2	B															B	1
9- 97	Urinals	40	B															B	20
9- 98	Urine Bag Holder	20	B															B	10
9- 99	Overbed Table	15	B															B	10
9- 100	Visitors Stool, Under Bed Type (L)	10	B															B	7
9- 101	Visitors Stool, Under Bed Type (S)	10	B															B	7
9- 102	Waste Paper Basket (S)	10	B															B	7
9- 103	Waste Paper Basket (L)	20	B															B	10
9- 104	Wheel Chair, Foldable Type	10	B															B	4
9- 105	Wheel Chair	10	B															B	4
9- 106	X-Ray Viewing Box, Large	10	B															B	4



# PENGE HOSPITAL

ITEM NO.	DESCRIPTION	REQUIRED QUANTITY	REQUIRED PRIORITY	CRITERIA FOR PRIORITY					CRITERIA FOR DELETION								INVESTIGATION				EVALUATION	RESULT OF QUANTITY			
				1	2	3	4	5	1	2	3	4	5	6	7	8	a	b	c	d					
9- 107	X-Ray Unit (General, bucky Type)	1	B	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>																	A	1
9- 108	Assorted Set of Linbains (70 Bins)	2	C			<input type="radio"/>																		B	2
9- 109	Baby Warmer	10	C			<input type="radio"/>																		B	5
9- 110	Cast Cutter, Electric Type	2	C			<input type="radio"/>																		B	2
9- 111	Crash Cart with 2 Drawers, Complete	2	C	<input type="radio"/>																				B	2
9- 112	Filing Cabinet, 4 Drawer	10	C			<input type="radio"/>																		B	6
9- 113	Eye Chart	2	C	<input type="radio"/>																				B	2
9- 114	Foetal Heart Doppler	2	C			<input type="radio"/>																		B	2
9- 115	Bedside Monitor	2	C			<input type="radio"/>	<input type="radio"/>																	B	1
9- 116	NIBP Monitor, Electronic Type	10	C	<input type="radio"/>		<input type="radio"/>																		B	6
9- 117	Paper Dispenser, Wall Mounted Type	10	C			<input type="radio"/>																		B	5
9- 118	Pulse Oximeter	4	C	The final quantity of request is determined to 4 sets by increasing the commonly sharing sections (original request: 6 sets).																			B	3	
9- 119	Air Mattress	4	C	<input type="radio"/>																				B	2
9- 120	Sterilizer	4	C	<input type="radio"/>																				B	3
9- 121	Soap Dispenser, Wall Mounted Type	10	C			<input type="radio"/>																		B	5
9- 122	Stationary Cupboard (4 Adjustable Shelves)	10	C			<input type="radio"/>																		B	5

## 2-3 Basic Design

### 2-3-1 Design Concept

In order to reinforce the functions as the core hospital of area and to present equipment without excess or shortage based on the above-mentioned basic concepts, the basic design is implemented in accordance with the following design concepts:

#### (1) Basic orientation to size and scope of this project

- 1) The improvement should be limited to the urgent and essential medical equipments at one medical facility in each of the 9 provinces of South Africa for the low-income class mainly black people.
- 2) The size of project should match the scope of management and control capacity of each designated hospital, and the scope should be such that can assure financial and technical independence and development.
- 3) The planned equipment should, as a rule, be for renewal or replenishment of the existing equipment.
- 4) The contents of the project should not overlap with other foreign aid.
- 5) The period of work of the project should be within 12 months.

#### (2) Basic concept for medical administration

- 1) The priority policy in the field of public health care of the Reconstruction Development Project (RDP) that South Africa is promoting intends to eliminate the discrimination in medical care for the poor who are mostly black people. And accordingly this project should support the RDP.
- 2) Based upon the ODA in the field of public health care of South Africa and the reference materials of European and American aid organizations which are disclosed in Japan and the trend of foreign aid that were obtained in the course of local survey, the design will be prepared so that this project should not have disagreement, contradiction and duplication with projects of

these organizations.

- 3) With respect to the referral system of the medical service at the designated facilities of this project, situations of the public health care administration, medical facilities, those engaged in medical care, and maintenance staff; the actual situation of each designated facility will be taken into consideration to reflect them on the designing. Because each hospital does not have its own maintenance system for medical equipments, and the maintenance is entrusted to a private equipment dealer or a maintenance service agent, the maintenance of medical equipments can be assured only if budgeting is secured at each facility.
- 4) The design will go along with the guideline of the Japanese ODA (Official Development Aids). The procurement plan will be prepared in view of the correction of regional differentials in medical service (gap between the black people inhabiting districts and the white people inhabiting districts and gap in the former homelands).

(3) Basic concept for medical care demand

- 1) To grasp the demand of each viewpoint of those engaged in medical service, of patients, and of the national level, and then to clarify the consistency with RDP, the host project for the designated facilities.
- 2) Because the designated facilities of the project presently include clinics of Penge Hospital and King Edward VIII Hospital which can provide the tertiary medical service, the specifications of equipment (including the level and grade of equipment) will be designed to conform the activity of each medical facility. For effective maintenance, the medical equipments of the same type will be procured through the same manufacturer as much as possible.
- 3) The survey of effects of implementation of the project, influence to the budget for designated facilities above all, scope of medical treatment, degree of improvement in the handling capacity by the implementation of the project, and the potential increase in cost of medical care will be reflected on the basic concept,

and then advice will be made for contribution towards the healthy management of the designated facilities.

Moreover, the increase in the number of patients and cases of medical care after the implementation of the project will be predicted, and the influences on subordinate medical facilities and the referral system will be considered. Based upon this, financial independence and development of the facilities will also be taken into consideration in equipment selection.

- 4) The present situation of buildings, equipment, and medical equipments as well as personnel, budget and functions of the facilities will be reflected for the implementation of the project so that additional measures of personnel and equipment can be designed minimal in implementing this project.
- 5) The maintenance of this project will be planned. The requested equipments are of X-ray units (CT, C-Arm, and diagnostic X-ray unit), various kinds of bedside monitors, anaesthetic machines, ventilators. These medical equipments will be followed by conclusion of regular-base maintenance contracts with manufacturers' agents. Therefore, advice will be made so that cost of the maintenance should be considered in budgeting.

#### (4) Basic concept for technology

##### 1) Selection of equipment

Selection of equipment will be carried out in order to assure the degree of improvements in capacities of diagnosis and medical treatment, specific target values of medical treatment (scope of objectives in medical treatment), and technical independence and development in line with the needs and technological level of the objective facilities when the project is implemented.

##### 2) Equipment planning

Based on the lists of survey on the existing equipments, the present situation of the existing facilities will be surveyed, and then consistency with the relevant equipment plan will be clarified by checking the survey against the present situation and problems such as the specifications of the existing equipment, dates of manufacture, names of makers, types, and frequency of use.

3) Technical level of medical treatment

The present technical level of medical treatment will be grasped through the results of survey based on the above-mentioned lists of survey on the existing equipment, and then the procurement plan will be determined.

4) Situation of equipment

The Department of Public Works of each province is in charge of maintenance of facilities. The problems that have been detected by this survey in relation with the installation of requested medical equipments at each designated facility will be reported to the department and then, advice will be made so that the problems should be dissolved in advance. In particular, attention should be paid so that problems would not arise at the process of work execution in the hospitals (George Hospital, Boksburg-Benoni Hospital, Kimberley Hospital, and Penge Hospital) where improving, rebuilding and new construction works are underway. If it is regarded as difficult to operate medical equipments due to shortage of water pressure and/or electric power as a result of survey on water supply and sewage, gas and electric equipment (including water pressure, gas pressure, tube diameter, voltage, etc.) of the facilities and their peripheral areas, it is imperative for the South Africa to improve such conditions.

5) Environmental problems

As a result of survey, which is on the possibilities of giving adverse influences (environmental pollution and change in the ecology system) to the inhabitants in the area of the designated facilities, it is clarified that this country has definite regulations on radiation shielding and disposal of medical wastes, and each facility conforms to these regulations. It is anticipated that there will be no problem, accordingly. The present situation shows that almost all medical wastes are burnt with incinerators possessed by each facility. Request is made by Qwa-Qwa Hospital (Manapo Detached Hospital) for a small-sized electric incinerator to burn placenta.

6) Procurement of maintenance parts and consumables

South Africa produces highly versatile medical equipments used in large quantities such as suction units, incubators, patient beds, and sterilizers. In making out the equipment plan, it will be designed that these medical equipments will be purchased basically in South Africa so that the maintenance parts and consumables can be procured quickly and accurately.

7) Procurement of products of the 3rd countries

Almost all electronic medical equipments such as X-ray units (CT, C-Arm and diagnostic X-ray units), various kinds of bedside monitors, anaesthetic machines, and ventilators are procured from Europe, the U.S.A. or Japan. In the procurement plan, the simplicity of operation and easiness of supply of maintenance parts are taken into consideration.

There are manufacturers' agents in South Africa which deal in the same medical equipments as those used presently by the designated facilities. As regards the medical equipments (including those made in Japan or in the 3rd countries) for which agents are not established in South Africa, they will not be treated as the objectives of procurement from the viewpoint of maintenance management.

The basic concepts will be created based upon the aspects of the above-mentioned medical administration, demands, and technologies as well as various conditions of South Africa so that sustainability may be assured.

2-3-2 Basic Plan

(1) Equipment procurement plan

As already discussed in detail in connection with the contents of the requested equipment in Sub-Section 2-2-1 of Chapter 2, the investigated equipment is as follows. The designated medical equipments which will be procured by this improvement project amount to 589 types and 2,492 items. The contents and each quantity are as shown in Table 2-3-2 "Medical Equipments to be procured for the project".

Table 2-3-2. Medical Equipments to be procured

Designated Hospital	Original Required Equipment	Consultation at E/D Study		Final Equipment (by draft explanation & analysis)
		Minutes of Discussion (Quantity of Equipment)	Supplementary Survey (Quantity of Equipment)	
1) Themba Hospital (Mpumalanga Province)	224 (1,447)	127 (451)	127 (451)	99 (345)
2) Umtata Hospital (Eastern Cape Province)	68 (107)	85 (426)	89 (430)	81 (268)
3) George Hospital (Western Cape Province)	29 (112)	74 (170)	69 (160)	53 (114)
4) Tshwaragano Community Hospital (North West Province)	83 (201)	94 (308)	75 (227)	71 (204)
5) Boksburg-Benoni Hospital (Hauten Province)	56 (212)	49 (150)	49 (150)	39 (108)
6) Qwa-Qwa Hospital (Free Province)	26 (42)	15 (19)	16 (20)	12 (15)
7) King Edward VIII Hospital (Kwazulu-Natal Province)	10 (18)	10 (18)	10 (18)	5 (6)
8) Kimberley Hospital (Northern Cape Province)	186 (1,348)	141 (107)	114 (1,184)	112 (657)
9) Penge Hospital (Northern Province)	63 (124)	122 (1,440)	122 (1,440)	117 (775)
Total	745 (3,611)	717 (4,236)	671 (4,080)	589 (2,492)

Table 1 - 3 - 2 Equipment to be Procured

Themba Hospital

No.	S.A. Made	Section	Description	Q'ty
1- 1		Orthopedic Dept.	Compact Drill with Attachment	2
1- 3		Orthopedic Dept.	External Fixator Set Standard	1
1- 4		Orthopedic Dept.	Reaming Instrument Set	1
1- 5		Orthopedic Dept.	Insertion Instrument Set	1
1- 6		Orthopedic Dept.	Locking Instrument Set	1
1- 7		Orthopedic Dept.	Radiolusent Drive	1
1- 9		Orthopedic Dept.	DHS/DCS Set	1
1- 12		Orthopedic Dept.	Large Fragment Set	1
1- 13		Orthopedic Dept.	Fragment Instrument Set, Small	1
1- 14		Orthopedic Dept.	Hand Surgery Instrument Set	1
1- 16		Theatre, ICU	Anaesthetic Machine without Ventilator	2
1- 17		Theatre, ICU	Laryngoscope and Blades	2
1- 19		Theatre, ICU	Continuous BP Monitor (Cuff Type)	4
1- 20		Theatre, ICU	Pulse Oximeter	3
1- 23		Theatre, ICU	Diathermy Machine	1
1- 24		Theatre, ICU	Bronchoscope, Flexible with Light Source	1
1- 25		Theatre, ICU	Blood Warmer	3
1- 26	○	Theatre, ICU	Infusion Pump	4
1- 28		Theatre, ICU	Dermatome	1
1- 29		Theatre, ICU	Ventilator (for 1-16)	2
1- 32		Theatre, ICU	Sigmoidoscope, Flexible Type	1
1- 34	○	Theatre, ICU	Suction Unit, Mobile, 1-Bottle	5
1- 37		Theatre, ICU	Ventilator, Infant	1
1- 38		Ophthalmology Dept.	Phaco Emulsification Machine	1
1- 39		Ophthalmology Dept.	Argon Laser Photocoagulator	1
1- 40		Ophthalmology Dept.	Perimeter	1
1- 41		Ophthalmology Dept.	Hot Air Oven (Table Top)	1
1- 42		Ophthalmology Dept.	Tonometer, Portable	1
1- 44		Obstetrics	Cardiotocograph (CTG), Fetal Use	1
1- 46		Obstetrics	Vacuum Extractor, Electric Type	3
1- 47		Obstetrics	Ultrasound Machine with Vaginal Probe	1
1- 48		Obstetrics	Resuscitation Unit, for Neonatal	2
1- 49	○	Obstetrics	Infant Incubator (ICU)	4
1- 51		Physiotherapy	Interferential Stimulator	1
1- 57		Physiotherapy	Audiometric Equipments	1
1- 58		Physiotherapy	Multimotivational Therapeutic Apparatus	1
1- 61	○	Emergency	Ambulance	3
1- 62	○	Emergency	Equipment for Ambulances	3
1- 63	○	Emergency	Kramer Bags	8
1- 64		Ward	Ambubag	2
1- 65	○	Ward	Sphygmomanometer, Wall Mounted Type	5
1- 66		Ward	Diagnostic Set, Wall Mounted Type	6
1- 67		Ward	Glucometer	10
1- 68		Ward	Haemoglobin Meter	2
1- 69	○	Ward	Infusion Pump, Volumetric and Drop Counter Type	30
1- 70		Ward	Nebulizer	4
1- 71		Ward	Oxygen Flowmeter	15
1- 72		Ward	Weigh Scale, Baby, Electronic Type	3
1- 73	○	Ward	Weigh Scale, Adult	6
1- 74	○	Ward	Suction Unit, Mobile	2



No.	S.A. Made	Section	Description	Q'ty
1- 75		Ward	Suction Unit, Wall Mounted Type	3
1- 76	○	Ward	X-Ray Viewing Box, Mobile	4
1- 77	○	Ward	X-Ray Viewing Box, Small	4
1- 78		Ward	Autoclave, E. O. Gas Type	1
1- 80		Ward	Trauma Stretcher (Radiolucent)	2
1- 81	○	Ward	Wheel Chair	6
1- 82		Dental	Dental Unit with Handpiece	1
1- 83		Dental	Mobile Dental Clinic Unit, W/Compressor	1
1- 84		Dental	Operator Assistant Stool	2
1- 85		Dental	Autoclave, Dental (Portable)	1
1- 86		Dental	Visible Curing Light	1
1- 87		Dental	Dental Forceps Kit (Including Elevator)	2
1- 88		X-Ray Dept.	C-Arm & Image Intensifier	1
1- 89		X-Ray Dept.	X-Ray Unit, Portable Type	1
1- 90		X-Ray Dept.	Processor, Theater	1
1- 91		X-Ray Dept.	Patient Scoop	1
1- 93		X-Ray Dept.	Cassette	54
1- 94		X-Ray Dept.	Boomerang	1
1- 96		X-Ray Dept.	Cassette Hatch	1
1- 97		X-Ray Dept.	Safelight for Theater	1
1- 98		X-Ray Dept.	Cassette, Theater	6
1- 99		X-Ray Dept.	Darkroom Printer for Theater	1
1- 100		X-Ray Dept.	Lead Aprons Double-Side	4
1- 101	○	Bongani Health Centre	Sphygmomanometer, Wall Mounted Type	4
1- 102	○	Bongani Health Centre	Suction Unit, Foot Type, 1-Bottle	1
1- 103	○	Bongani Health Centre	Emergency Trolley	2
1- 104	○	Bongani Health Centre	Phototherapy Unit	1
1- 105		Bongani Health Centre	X-Ray Unit with Processor	1
1- 106		Bongani Health Centre	Infant Resuscitator, Mobile	2
1- 107		Bongani Health Centre	Nebulizer	2
1- 108	○	Bongani Health Centre	Weigh Scale, Adult	4
1- 109	○	Bongani Health Centre	Suction Unit, Mobile, 2-Bottle	1
1- 110		Bongani Health Centre	Glucometer	3
1- 111	○	Bongani Health Centre	X-Ray Viewing Box, Large	2
1- 112	○	Bongani Health Centre	X-Ray Viewing Box, Small	4
1- 113		Bongani Health Centre	Ambubag, Neonatal	1
1- 114		Bongani Health Centre	Centrifuge (2,000rpm)	1
1- 116		Bongani Health Centre	Angle Poise Lamp Mobile	6
1- 117		Clinic	Infant Resuscitator, Mobile	6
1- 118	○	Clinic	Suction Unit, Mobile, 1-Bottle	8
1- 119	○	Clinic	Emergency Trolley	3
1- 120		Clinic	Soft Waste Incinerator, Portable	7
1- 121	○	Clinic	Infant Incubator	3
1- 122	○	Mobile Clinic	Mobile Clinic Vehicle (4WD)	4
1- 123	○	Mobile Clinic	Complete Unit Attachment	4
1- 124	○	Mobile Clinic	First Aid Kit	4
1- 125	○	Mobile Clinic	Weigh Scale, Adult	4
1- 126		Mobile Clinic	Ambubag, Adult	4
1- 127	○	Mobile Clinic	Sphygmomanometer (Aneroid)	4

Umtata Hospital

No.	S.A. Made	Section	Description	Q'ty
2- 1	○	Ward	Emergency Cart for Orthopedic	30
2- 4		Ward	Blood Gas Analyzer (Compact Type)	1
2- 5	○	Ward	Bed with Adjustable Backrest and Mattress	25
2- 6	○	Ward	Bed, Hi-Low Adjustable Backrest and Mattress	20
2- 7		Pediatrics Dept.	Blood Warmer	4
2- 8	○	Pediatrics Dept.	Infant Incubator	5
2- 9		Pediatrics Dept.	Patient Trolley with Mattress	2
2- 10	○	Pediatrics Dept.	Drip Stand	10
2- 11	○	Pediatrics Dept.	Suction Unit, 2-Bottle	2
2- 12	○	Pediatrics Dept.	Suction Unit, Battery Type, 1-Bottle	2
2- 13	○	Pediatrics Dept.	Sphygmomanometer, Portable Type	6
2- 14	○	Pediatrics Dept.	Sphygmomanometer, Wall Mounted Type	4
2- 15		Pediatrics Dept.	Glucometer	5
2- 16	○	Pediatrics Dept.	Infusion Pump, Drop Counter Type	5
2- 17		Pediatrics Dept.	Diagnostic Set	5
2- 18		Pediatrics Dept.	ECG Monitor, 1-ch.	2
2- 19	○	Pediatrics Dept.	Syringe Pump	3
2- 20		Pediatrics Dept.	Laryngoscope Set, Pediatrics-4 Blades	2
2- 21		Pediatrics Dept.	Magills Forceps	4
2- 22		Pediatrics Dept.	Pulse Oximeter	2
2- 23		Pediatrics Dept.	NIBP Monitor, Electronic/Battery Type	2
2- 24		Pediatrics Dept.	Infant Warmer with Resuscitation Unit	2
2- 25		Pediatrics Dept.	Ambubag	4
2- 26		Pediatrics Dept.	Apnoea Monitor	4
2- 27		Pediatrics Dept.	Resuscitation Unit, Mobile Type, for Infant	3
2- 28	○	Pediatrics Dept.	Phototherapy Unit	4
2- 29		ENT Dept.	Head Light, ENT	5
2- 30		ENT Dept.	Tympanometric Device, Automatic	1
2- 32		ENT Dept.	Micro Air Drill, Complete	1
2- 33		ENT Dept.	Mastoid Curette Set	1
2- 34		ENT Dept.	Micro Laryngoscopic Forceps and Scissors	1
2- 35		ENT Dept.	ENT Microscope	1
2- 36		Medicine	ECG Monitor, 1-ch.	2
2- 37	○	Medicine	Sphygmomanometer, Mobile Type	3
2- 38	○	Medicine	Sphygmomanometer, Wall Mounted Type	10
2- 39		Medicine	Glucometer	10
2- 40	○	Medicine	Stethoscope	15
2- 41		Medicine	Diagnostic Set	3
2- 42		Obstetrics	Transport Trolley	2
2- 43		Obstetrics	Examination Light, Mobile Type	1
2- 44		Obstetrics	Resuscitation Unit, Mobile Type	1
2- 45	○	Obstetrics	Crib	1
2- 46	○	Obstetrics	Infant Incubator	1
2- 47	○	Obstetrics	Infusion Pump, Volumetric Type	1
2- 48	○	Obstetrics	Syringe Pump	1
2- 49		Obstetrics	Vacuum Extractor, Electric Type	1
2- 50		Obstetrics	Cardiotocograph (CTG), Fetal Use	4
2- 51		Obstetrics	Foetal Heart Doppler	2
2- 52	○	Obstetrics	Phototherapy Unit	2
2- 54		Orthopedic Dept.	Orthopedic Table, Minor	1
2- 55		Orthopedic Dept.	Orthopedic Table, Major	1

No.	S.A. Made	Section	Description	Q'ty
2- 56		Orthopedic Dept.	Anaesthetic Machine with Ventilator	1
2- 57		Orthopedic Dept.	Autoclave, Small Flash Type	1
2- 58		Orthopedic Dept.	Electric Blanket	2
2- 59	○	Orthopedic Dept.	Crib	1
2- 60		Orthopedic Dept.	Blood Warmer	2
2- 61	○	Emergency Dept.	Emergency Trolley (Fully Equipped)	1
2- 62		Emergency Dept.	Electrocardiograph, 3 ch.	1
2- 63		Emergency Dept.	Examination Light, Mobile Type	1
2- 64		Emergency Dept.	Anaesthetic Machine with Ventilator	1
2- 65	○	Emergency Dept.	Infusion Pump, Volumetric Type	1
2- 66	○	Emergency Dept.	Suction Unit, 2-Bottle	1
2- 67	○	Emergency Dept.	Suction Unit, 1-Bottle	1
2- 68		Emergency Dept.	Theater Table	1
2- 69		Emergency Dept.	Theater Light (2-Arm Type)	1
2- 70		Emergency Dept.	Bedside Monitor	1
2- 72	○	Emergency Dept.	Infusion Pump (Volumetric Type)	1
2- 73	○	Emergency Dept.	Infusion Pump, Drop Counter Type	1
2- 74		Emergency Dept.	Blood Warmer	1
2- 75		Emergency Dept.	Transport Trolley	4
2- 76		Emergency Dept.	Tourniquet, Double	1
2- 77		Emergency Dept.	Emergency Trolley with Defibrillator	1
2- 78		Emergency Dept.	Electric Blanket	2
2- 80		Emergency Dept.	Anaesthetic Machine (Minor)	1
2- 81	○	Emergency Dept.	Instrument Trolley	2
2- 84	○	Emergency Dept.	Instrument Cupboard, Large	1
2- 85	○	Mobile Clinic	Mobile Clinic Vehicle (4WD)	2
2- 86		Ophthalmology Dept.	Phaco Emulsification Machine	1
2- 87		Ophthalmology Dept.	Operating Microscope	1
2- 88	○	Ophthalmology Dept.	Autoclave	1
2- 89		Ophthalmology Dept.	Operating Instrument for Cataract	1

## George Hospital

No.	S.A. Made	Section	Description	Q'ty
3- 1		Threatre	Arthro Videoscope	1
3- 2		Threatre	Colono Videoscope	1
3- 3	○	Threatre	Autoclave (Flash)	1
3- 4	○	Threatre	Autoclave (Eye Instruments)	1
3- 5		Threatre	Patient Monitor (Similar to ICU)	4
3- 6		Threatre	Oximeter (Portable)	1
3- 7		Ophthalmology Dept.	Binocular Indirect for Ophthalmology	1
3- 8		Ophthalmology Dept.	Examination Chair for Ophthalmology	1
3- 9		Ophthalmology Dept.	Yag Laser	1
3- 10		Ophthalmology Dept.	Chart Projector, Automatic Type	1
3- 11		Ophthalmology Dept.	Auto Refractometer / Keratometer	1
3- 12		Ophthalmology Dept.	Phaco Emulsification Machine	1
3- 13		Ophthalmology Dept.	Yag Laser, Combination Type	1
3- 15		Ophthalmology Dept.	Operating Microscope (with Foot Control)	1
3- 16		Ophthalmology Dept.	Naso-Pharangeal Scope	1
3- 17		Ophthalmology Dept.	Ultrasound Machine, A/B Mode (Ophthalmology)	1
3- 19		Ophthalmology Dept.	Slit Lamp	1
3- 20		ENT Dept.	Sinuscope	1
3- 21		ENT Dept.	Timpanometer	1
3- 24		Urology Dept.	Cystoscope Set, Standard	1
3- 25		Urology Dept.	Percutane Renal Surgery Unit	1
3- 26		Orthopedic Dept.	Slow Speed Drill (for Reaming)	1
3- 27		Orthopedic Dept.	Minor Orthopaedic Operation Set	2
3- 28		Orthopedic Dept.	Fine Instrument Set (Nerve/Tendon Repair)	2
3- 29		X-Ray Dept.	Automatic High Flow Injector (Angio)	1
3- 30		X-Ray Dept.	X-Ray Unit	1
3- 31		X-Ray Dept.	Ultrasound Machine, Colour Doppler	1
3- 32	○	ICU	Syringe Pump	6
3- 33		ICU	Bed for ICU	8
3- 34	○	ICU	Infusion Pump, Volumetric Type	10
3- 35		ICU	Patient Monitor and Central Station (with Printer)	7
3- 36		ICU	Bedside Monitor (Rhythm, BP, Dat, Temp)	2
3- 37		ICU	Ventilator, Adult (for ICU)	4
3- 38	○	Obstetrics	Infant Incubator, Mobile Type	1
3- 39		Obstetrics	Bed for Obstetric	2
3- 40		Obstetrics	Theater Light (1-Arm Type)	2
3- 41	○	Obstetrics	Infant Warmer with Resuscitation Unit	2
3- 42		Obstetrics	Vacuum Extractor, Electric Type	2
3- 43		Ward (Pediatrics)	Defibrillator	1
3- 45	○	Ward (Infant)	Phototherapy Unit	4
3- 46		Ward	Electrocardiograph Machine, 3-ch.	2
3- 48		Theatre	Anaesthetic Machine with Ventilator	4
3- 50		Theatre	Laparoscope	1
3- 51		Theatre	Patient Warmer (Theater)	2
3- 52		Theatre(Gyn.)	Colposcope	1
3- 54		Theatre(Urology)	Endoscopic Litnotripsy	1
3- 55		Theatre(Gyn.)	Hysteroscope	1
3- 56		Theatre(ENT)	Drill (Mastiodctomies)	1
3- 58		Obstetrics	Foetal Heart Doppler	2

No.	S.A. Made	Section	Description	Q'ty
3- 59		Obstetrics	Cardiotocograph (CTG), Fetal Use	2
3- 61		OPD, Ward	Diagnostic Set, Wall Mounted Type	9
3- 62	○	Ward	Orthopedic Bed, Complete Attachment	4
3- 75		X-Ray Dept.	X-Ray Unit, Mobile Type	1

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No.	S.A. Made	Section	Description	Q'ty
4- 1	○	Mobil Clinic	Mobile Clinic Vehicle (4WD)	3
4- 2		X-Ray Dept.	Ultrasound Machine	2
4- 3		X-Ray Dept.	C-Arm	1
4- 4		X-Ray Dept.	Processor	1
4- 5		X-Ray Dept.	X-Ray Unit, Mobile Type	1
4- 6		X-Ray Dept.	Table Top Processor	1
4- 7		X-Ray Dept.	X-Ray Unit, Bucky Type	1
4- 9		OPD, Ward	Nebulizer	6
4- 10	○	Obstetrics	Infant Incubator	4
4- 11		ICU	Ventilator, ICU	1
4- 13	○	Obstetrics	Infant Incubator, Portable	1
4- 15		Theatre	Diamond Jow Needle Holder Bow-Lock	6
4- 16		Theatre	Bone Forcep Set	6
4- 17		Theatre (Obstetrics)	Cesarean Incision Set, Abdominal	2
4- 18		Theatre (ENT)	Operation Instrument Set for ENT	1
4- 19		Theatre	Anaesthetic Machine	1
4- 20		Theatre	Bedside Monitor	3
4- 22		Theatre	Ventilator, Paediatric	2
4- 26		Theatre	Rebreathing Bag	2
4- 27		Theatre	Oxygen Cylinder for Anaesthesia Machine	1
4- 29		Physiotherapy Dept.	Occupational Therapy Standing Table	1
4- 30	○	Physiotherapy Dept.	Mat for Exercise	1
4- 31	○	Ward	Panel Screen (Three) Connected by Plastic Curtainscreen	5
4- 32	○	Ward	Panel Screen Double Flame Resistant Curtain	5
4- 33	○	Ward	Panel Screen (Single) Flame Resistant Curtain	5
4- 34	○	Maintenance	Oxygen Cylinder Truck Twin Oxygen Cylinder Carrier	2
4- 35		Gynecology Dept.	Cervical Operating Set	2
4- 36		Orthopedic Dept.	Orthopedic Table	1
4- 40		Maintenance	Petrol Generator (5KVA)	1
4- 41		Ward	Air Conditioner	14
4- 42		ICU	Bed for ICU	4
4- 43	○	ICU	Treatment Carriage (3 Shelves Guard Rains)	1
4- 44		Theatre	Defibrillator	2
4- 47		Theatre	Pneumatic Drill	2
4- 48		Theatre	Bassinet	10
4- 49	○	Orthopedic Dept.	Traction Unit, Small	1
4- 50	○	Pathology	Post Mortem Set in Wooded Case	1
4- 51		Pathology	Mortuary Trolley (S/S Top)	1
4- 52		Theatre	Dermatome Simplex	1
4- 53		Theatre	Dermatome Duplex	1
4- 57	○	Theatre	Suction Unit, Mobile 2-Bottle	2
4- 59		CSSD	Autoclave for Theatre (Dual Facility)	2
4- 60		Dental	Mobile Dental Clinic Unit	1
4- 61		Theatre	Theater Lamp, Mobile	2
4- 62		Theatre	Bronchoscope, Flexible with Light Source	1
4- 63		Theatre	Endoscope	1
4- 64		Obstetrics	Foetal Heart Doppler	2

No.	S.A. Made	Section	Description	Q'ty
4- 65		Obstetrics	Vacuum Extractor, Electric Type & Manual Type	2
4- 67	○	Ward	Bed, Adjustable, with Mat	4
4- 68	○	Ward	Bed with Frame and Mat	10
4- 69	○	Ward	Visitors Stool, Under Bed Type	15
4- 70	○	Ward	Infusion Pump, Drop Counter Type	6
4- 71		Ward	Electrocardiograph, 1-ch.	3
4- 72	○	Ward	Drug Cabinet	2
4- 73	○	Ward	Urinal Cabinet	2
4- 74	○	Ward	Cart (Medicine Trolley)	7
4- 75		Theatre	Mayo Table	2
4- 76	○	Theatre	Instrument Cabinet	4
4- 77	○	OPD, Ward	Weigh Scale with Height Measurement, Adult	2
4- 78	○	Ward	Bedpan and Urinal Rack, Wall Mounted Type	7
4- 79	○	OPD, Emergency	Emergency Trolley	4
4- 82		OPD, Emergency	Diagnostic Set, Wall Mounted Type	4
4- 84		Dental	Dental X-Ray Unit	1
4- 85		Theatre	Blood Warmer	4
4- 87		Emergency, Ward	Patient Lift	1
4- 88		Laboratory	CO2 Incubator	1
4- 89	○	Laboratory	Autoclave	1
4- 91		Laboratory	Centrifuge	1
4- 92		Laboratory	Microscope, Fluorescence	1
4- 93		Laboratory	Binocular Microscope	1
4- 94		Laboratory	Blood Gas Analyzer	1