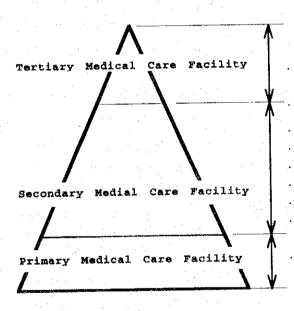
2-2-2 Investigation of Requested Contents

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.



King Edward VIII Hospital (Kwazulu-Natal Province)
Boksburg-Benoni Hospital (Hauten Province)
George Hospital (Western Cape Province)
Kimberley Hospital (Northern Cape Province)
Themba Hospital (Mpumalanga Province)
Qwa-Qwa Hospital (Free State Province)
Umtata Hospital (Eastern Cape Province)
Tshwaragano Community Hospital (North West Province)
Penge Hospital (Future) (Northern Province)

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.

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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 With from and budget of the province government for maintenance. 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 Phoenex 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 phace 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) Themba Hospital (3) and Kimberley Hospital (1)

Vehicles for mobile clinic

* Ambulance cars:

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

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	ITEM	DESCRIPTION	REOUIRED	REQUIRED	CRIT	ERIA I	CRITERIA FOR PRIORITY	NORT	5	2	Ö	NTER	CRITERIA FOR DELETION	DELE	TION			N	ESTIG	INVESTIGATION	z
-	N N		QUANTITY	PRIORITY	-	~	e B	4	5	-		m	4	ம	9	2	8	60	٩	U	σ
	1- 39	Arcon Laser Photocoagulator	1	8			0	0					-					1			
	 40	T	-	ß	0	0				·							╉				
	1- 41	 41 Hot Air Oven (Table Top) 		8	0	0								-	-			-+			
	1- 42	1-42 Tonometer, Portable	۲	A	0	0							-+		╡		-		+	-+	
	1- 43	1-43 Foetal Heart Doppler	2	J					-								-	•			
	1- 44	1- 44 Cardiotocograph (CTG), Fetal Use	,	A		0	0			-1					-+		-				
	1- 45	1- 45 Phototherapy Unit	ε	С									-+	-+	╧╉	-+		•			
	1- 46	1- 46 Vacium Extractor, Electric Type	m	٨		0					-				-		-	_			
	1- 47	1- 47 I Iltrasound Machine with Vaginal Prove	,	A		0	0	0				_									
	1- 48	1- 48 Resuscitation Unit. for Neonatal	2	A	0	0							-1							-†	
	1- 49	1 - 49 Infant Incubator (ICU)	4	A		0	0				_						+			-+	
	1- 50	1- 50 Double Puilv System	ţ	œ													-	•	•		
	1- 51	1 - 51 Interferential Stimulator	-	A		0	0											-			
	1- 52	1-52 Endolaser	l	œ													-	•			
	1- 53	Hvdrocollator Hotnads	9	ß											_		-	•			
	1- 54			ß	-			\square									-	•			
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RESULT OF QUANTITY

EVALU-ATION

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1- 42	Tonometer, Portable	,	۷	0	0			_							-		₹
1. 43	-	2	υ	·										•		-	ပ
		r-	A	1	С	C											۷
<u>+</u>		- (+)	}		-	ļ								C
1- 45	Phototherapy Unit	r,	ر			_		-		+	-	╉	╉)			> <
1- 46	1- 46 Vacuum Extractor, Electric Type	m	A		0		-	-		-		_		+	_		τ.
1- 47	1- 47 Ultrasound Machine with Vaginal Prove	•	A		0	0						-					۹ ۱
1- 48	Resuscitation Unit, for Neonatal	2	A	0	0					_				_			
1-49	49 Infant Incubator (ICU)	4	А		0	0		_									4
1- 50	Double Puily System	1	в		_												5
1-51		.	A		0	0			_		_						۲
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1- 53	T	9	ß											•			ပ
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1- 55		1	80								_					-+	ပါ
1- 56	T	۲.	В											•			ပ
1- 57		ĩ	A	0	0				_	-				+			٩
1- 58	Multimotivational Therapeutic Apparatus	1	A		0	0				-+	_			-			A
1- 59	Hydrauric Hand Dynamometer	۳۰	В					_						•			ပါ
1- 60	Traction Bed		в	-1			 				-				~		5
1- 61	1- 61 Ambulance	m	٨	Taking	the staf	f plan, et	Taking the staff plan, etc. into consideration, the final quantity of request is determined 3 sets	sideratio	on, the fi	ne final quan	tity of n	equest is	determi	ned 3 se	ង		۲

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e e Fore	9 	1- 62 Faultoment for Ambulances	ς Γ		Along with the reduction in the number of ambulance cars, the final quantity of request is determined
				4	to 1 sets (original reduces: a sets).
			-		
•••	و 	1- 63 - Kramer Baos	8	A	
• • •	1- 6	1- 64 Ambubad	2	6 0	
	9 	1- 65 Sphvamomanometer, Wall Mounted Type	ъ	A	
	1- 6	1- 66 Diagnostic Set, Wall Mounted Type	9	A	The final quantity of request is determined to 6 sets by increasing the sharing sections (original request: 10 sets).

1- 66 Diagnostic Set, Wall Mounted Type

Glucometer

Infusion Pump, Volumetric and Drop Counter Type Haemoglobin Meter

1- 70 Nebulizer

1- 69

1- 67 1-68

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(original request: 6 sets).

2-37

1- 60 Traction Bed 1- 61 Ambulance ω

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THEMBA HOSPITAL

		Gran out							RITFRI	CRITFRIA FOR DELETION	ELETIC	Z		INVE	INVESTIGATION		EVALU-	RESULT OF
	DESCRIPTION	KEQUIKED	DBIODITY				 	2	۳	4	9	2	ω	е —	ט ק	٩	ATION	QUANTITY
		UUAN II I	LENORI :	╀	╉	r I	╉		,	╀	╆			-			A	15
1- 71 Oxyde	Oxygen Flowmeter	10 10	A															
		15	æ								•				_		٦	•
: ;		6	A	The fin	The final quantity of request is determined to 3 sets by increasing the sharing sections (original	y of requ	iest is de	termined	to 3 se	ts by inc	reasing	the sha	ring sec	tions (o	niginal		×	ŝ
I- 12 Weigh	Weigh Scale, Baby, Electronic 1ype)				ŀ		2	request: 2 sets)	scis).				-	-			
		-		0	0		_			-				_	_			
+-			v	The fir	The final quantity of request is determined to 6 sets by increasing the sharing sections (original	y of requ	st is de	termined	l to 6 se	ts by inc	reasing	the sha	ring sec	tions (o	riginal		4	9
1-73 weigh	Weigh Scale, Adult	۰.	₹		•			lec	request: 18 sets)	sets).				-	-			
		r	· .	0											-			
1 74 C. of	Custion Linit Mobile	2	A		0					_							A	2
r ú	Succout Stirt, Moure Suction that Wall Mounted Type	3	A								_						<	~ ~
2			n	The fu	The final quantity of request is determined to 4 sets by increasing the sharing sections (original	ty of req	uest is de	stermine	d to 4 se	ets by inc	reasing	the shi	uing se	ctions (o	nginal	·····	8	4
1- 76 X-Ray	X-Ray Viewing Box, Mobile	+	0					- re	request: 8 sets)	sets).				+				
			•	-	0									\neg	_			
			ſ	The fi	The final quantity of request is determined to 4 sets by increasing the sharing sections (onginal	ty of req	uest is d	etermine	d to 4 st	sts by inc	creasing	the shi	uring se	ctions (o	nginal		8	4
1- 77 X-Ray	X-Ray Viewing Box, Small	4	n		•	•		5	request: 7 sets)	sets).						Ì		
				Ĕ														
1- 78 Auto	Autoclave F. O. Gas Tyne	-	B		0						_	_		-				
1-	Matel Scon Stratcher	m	В											•	_		ار.	
2 6	Troum Ctratcher (Dedichinent)	~	A	С	0		-										A	7
35	Hauria Su etcriei (Naurouccart)	ى ع	8		С												20	9
5 8		1	⊲		C											•	A	
82	Dental Unit with Handpiece	- -		C			+	-			-						A	٦
22	Mobile Dental Clinic Unit, W/Compressor	- ^	(<														٨	2
84	Operator Assistant Stool	J C	τ α														ပ	1
8	Operator Assistant Stool	ч. . -	• <		C						-						٩	-
	Autoclave, Dental (Portable)	- -	{											\vdash			A	
- 1	Visible Curing Light	- (×.				-	-		+	+	-					Þ	~
	Dental Forceps Kit (Including Elevator)		۲ ¢				-										U	-
1- 87 Dent	Dental Forceps Kit (Including Elevator)		2				-	-						-			V	-
	C-Arm & Image Intensifier		A					+		╈	+-	-			+-		ď	
1- 89 X-Ra	X-Ray Unit, Portable Type		8	-				+		+	╉	_		-	-			.
1- 90 Proc	Processor, Theater		A				-	+		+	+	_			-		< <	- -
1- 91 Patie	Patient Scoop	1	A		0 0			_		+	╉							-
1	Patient Slide (Pat Slide)	,	8					-			-+	_				-	• ار	
T	Cassette	54	4		0							_			+		₹ •	5-
1	Boomerand	-	۷		0					-+	-				-		₹ (-
-	Viewing Box (Large)	- 2	В				-+	-		_		_			-+	1	۔ ار	
T	Cassette Hatch	F	A		0							-			+		¥	
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ITEM DESCRIPTION	REQUIRED	REQUIRED	S.	CRITERIA FOR PRIORITY	OR PRI			-		0 4 FO				8				ATION	
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	٩	٩.) (+	-	+			T	+	+	╉		-				
1- 99 Darkroom Printer for Theater		A .	(-	-	-	_		1	1	+	┼	+-	-		_		4
1- 100 Lead Aplons Double-Side	4,	٩	5	5	+	_		_					╋		+	-	-		, J
1- 100 Lead Aplons Double-Side	4	۵		+		_	╉			T)	<u>.</u>	╉	-	╞	-	-		4
1- 101 Sphygmomanometer, Wall Mounted Type *1	4	۷	0			-		-				+	╋	╉	-		-	<	-
1- 102 Suction Unit, Foot Type, 1-Bottle *1	-1	A		0	┨	_		_				+	+	+		+			
1- 103 Emergency Trollev *1	2	A	0	0								-	+	_	-	_		¥ •	ч г
	-	A		0	_								+	_	-	+	_	₹.	
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104 INEDUIZEI 108 INSish Saofa Adult	4	¥	С	C	┢								:		_			4	4
100 Mergin Scare, Audic		A)	С		-		 										٩	F
		4	С		┢─		-											۷	3
10 Glucometer	» ^				┢	+	-	 -					<u> </u>					۷	2
111 X-Ray Viewing Box, Large	7	(<			+-	+	-				†-			_				A	4
112 X-Ray Viewing Box, Small	, ,	(•	(╉	╀	+-				T	+		-			 	A	
1- 113 Ambubag, Neonatal *1		× I	5	7	╉	+	+				T	+	╞	+	-	ŀ	.	<u>م</u>	-
1- 114 Centrifuge (2,000rpm) *1		B		5	+		+						+	╉			+-		
1- 115 Card Rocker *1		B			\neg	-	+						-	+			_	• ر	
1- 116 Angle Poise Lamp Mobile *1	و	A		0	+	-	_						╉				_	۲ •	0 4
1- 117 Infant Resuscitator, Mobile *2	ဖ	A	0	0	-		-	_			1			-		-	_	< <	0
1- 118 Suction Unit, Mobile, 1-Bottle *2	ω	۷		0		-		_				-	+	-	+	+	-	₹.	0
1-119 Emergency Trolley *2	m	A	0	0		-	_	_				-		+	+	+	_	₹ 0	1 0
1- 120 Soft Waste Incinerator, Portable *2	7	ß		0					_		1	+	+	┥		+	_		
Infant Incubator	3	A		0	0			_						+	_		_	< .	
1-122 Mobile Clinic Vehicle (4WD)	4	۷	0	0	0	0						-			-		_	A	4
-	4	A	0	0								<u> </u>	_		_	_		4	4
		×	The	The final quantity of request is determined to 4 sets by increasing the sharing sections (original	antity c	of reque	est is de	termine	ed to 4	sets by	increa	sing the	sharin	g secti	ons (or	iginal		A	4
1-124 First Aid Kit	+	1						ŭ	request: 8 sets)	8 sets)									
			0	0				_				-	_	-{	_	_	_	- - -	- - - - -
		V	The	The final quantity of request is determined to 4	antity (of reque	est is de	termine	ed to 4	sets by	increa	sets by increasing the sharing sections (original	sharir	g secti	io) suo	iginal		۷	4
	-		·.				ŀ	-	request: 8	8 sets)	·	ŀ				ŀ	-	-T-	
			0	0					_					-+	-	·			
1- 126 Ambubac. Adult	4	۲	0	0									-		-	-			4
			The	The final quantity of request is determined to 4 sets by increasing the sharing sections (original	antity (of reque	est is de	termine	ed to 4	sets by	increa	sing the	sharir	ig secti	ons (or	iginal		×	4
1- 127 Sphygmomanometer (Aneroid)	4	۲,		•	•	Ľ		I.	request: 8 sets)	8 sets)		·				ł			
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DESCRIPTION	REQUIRED	PRICRITY	8		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CRITERIA FOR PRIORITY	-	2	3	2 4	5		2	8	a b		P	ATION	QUANTITY
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2- 4 Blood Gas Analyzer (Compact Type)		A		5	5	_	_]	-	1		-	-			-		
2- 5 Bed with Adjustable Backrest and Mattress	20	A A	Exp	ecting	the ind	Expecting the independent procurement (self-supporting effort) by the hospital, the tinal quantity of request: 150 sets.).	t procur is detern	ement (nined t	(self-su o be 50	pportir sets. (ug effo origina	t) by th I reque	ke hosp st: 150	sets.).	e tinal	quantit	y of	<u>n</u>	25
							-				, 	-		-			•		
	, c , c	c	Exp	ecting	the ind	Expecting the independent procurement (self-supporting effort) by the hospital, the final quantity	t procur	ernent ((self-su	pportir	ng effo	t) by th	te host	ital, th	e final	duantii	ty of	8	50
2- 6 Bed, Hi-Low Adjustable Backrest and Mattress	2	<u>م</u>	: :			request is determined to be 20 sets. (original request: 40 sets.).	is deter	mined	to be 2	0 sets.	(origin	al reque	st: 40	sets.).					
				0										_	-	-	_		
2- 7 Blood Warmer	4	A		0			_					+	_		+	+		₹.	4 I
8	5	A		0	0			_		-†	-	-+	-		-+	_		∢ .	5
6	2	A		0								-	-	-+	_	_	_	4	2
10	10	A	0	0						-						-+		۲.	2
2- 11 Suction Unit, 2-Bottle	2	A	0	0			_						╉		-	_	_	• ۲	7
2-12 Suction Unit, Battery Type, 1-Bottle	2	A	0	0							-	-	+	-	-	+	_	₹.	7,
13	9	A	0	0		_						\neg	+		-	+		<	ام
4	4	A	0	0										-		-		×	4
15	5	A	0	0							1		+	-+		-		< - ا	<u>م</u> ر
2- 16 Infusion Pump, Drop Counter Type	5	A	0	0								_	-+	+	+	_	_	< .	~
17	5	A	0	0		_						+	-	+	+	+		<u>م</u>	~ (
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22	2	A	0	0		-	_		_				-+	+	_	_		<.	210
2- 23 NiBP Monitor, Electronic/Battery Type	2	۷	0	0								-†		+	+	_	_	₹.	v (
	2	A		0	0		_	_	_		1	+		+	+			• ۲	7
2-25 Ambubag	4	A		0	+		_	_	_			-+		+	╉		_	₹.	4
2- 26 Apnoea Monitor	4	A		0			-		_			+		+	+	+	-		4
27	3	A		0	0									-	+	-		4	γ
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2- 32 Micro Air Drill, Complete	-	٩		0		_						+	-+	-+	_	-	_	<	
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34	1	в		0			-								-	-	-	ю 	
2- 35 ENT Microscope		4		0	1			_				{	-	-		_	_	A	

LIEM	M DESCRIPTION	REQUIRED	REQUIRED	CRITERIA	RIA FOR	R PRIORITY	۲		CRI	CRITERIA FOR	OR DEL	DELETION			INVES	INVESTIGATION	·	EVALU-	RESULT OF
° N		QUANTITY	PRIORITY		2 3	4	S	-	3 2	4	S	ω	~	8	<u>م</u> -	U U	Ð	ATION	QUANTITY
Å	36 ECG Monitor, 1-ch.	2	A		0					_		-			_		-+	Ā	2
	37 Sphygmomanometer, Mobile Type	3	A	0	\square										_		+	4	ε
t 1	38 Sphygmomanometer, Wall Mounted Type	10	4	-	0										_			<	6
	<u>†</u>	10	A	0														A	2
~	40 Stethoscope	15	۷	0													_	A	15
	41 Diagnostic Set	m	4	0														۷	m
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1		~	A	ľ														A	2
		9	Ī	Consulting the	g the ne	necessity. t	the final	I priority is		determined	B (orig	B (original request:	luest: A).					0	1
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N	54 Orthopedic Table, Minor		A															A	-
	55 Orthopedic Table, Major	1	A		\square	_											_	۲	-
	56 Anaesthetic Machine with Ventilator	1	A	\square	0													۷	
N.	57 Autoclave, Small Flash Type	1	A	0	0									-	_			٨	-
N	58 Electric Blanket	2	A	\leq	0												_	A	2
ų.	59 Crib	1	A	\leq	\cap			_						-	_			A	
1	60 Blood Warmer	2	A															٩	2
1.	61 Emergency Trolley (Fully Equipped)		A	0														A	-
\$	62 Electrocardiograph, 3 ch.	1	A		0										_			A	-
2 2	63 Examination Light, Mobile Type	1 1	A												_			٩	
2	64 Anaesthetic Machine with Ventilator	L	A		0			_					_		_		_	Ā	-
1	65 Infusion Pump, Volumetric Type	F	A	0										_	_		_	4	-
ų č	66 Suction Unit, 2-Bottle		A	0	\cap	_												A	Ļ
ž	67 Suction Unit, 1-Bottle		A	0	\cap													A	٦
2	68 Theater Table	-	×	Ľ														A	1
5	69 Theater Light (2-Arm Type)		A															۲	
2	70 Bedside Monitor	,-	A		0										-			۲	-
Å	1 Drip Stand	~	о m	Consulting the necessity.	g the ne	cessity.	the final	l priorit	priority is determined B (original request:	rmined	B (orig	inal rec	luest: A)					U U	•
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ITEM	DESCRIPTION	REQUIRED	REQUIRED	CRITERIA FOR PRIORITY			-	z i		-	T		OUANTITY	
		QUANTITY	PRIORITY	1 2 3 4 5 1	2 3 4	2	∞ -			- -				
	treast Draw Davider Tyne	1	A	CC						-			- ,	
<- /3	Intusion Purity, of up counter 13pc		<								A		-	
2-74	Blood Warmer							-			A	×.	4	
2-75	Transport Troliey	4	¥,				+		 		◄		-	
2-76	Tourniquet, Double	-	A				 	-			◀			
-2- 77	Emergency Troiley with Defibrillator	-	A					1	. 		A		2	
2-78	Electric Blanket	5	A	U I I I I I I I I I I I I I I I I I I I	C haranea of a	limlicated red	nest (origin	alreo	nest: ra	ak A).			,	
2-79	Emergency Trolley without Defibrillator	~1	U U	The final priority is determined to rain	C, Jecause 01 a						Ţ			
											A		-	
2-80	Anaesthetic Machine (Minor)	1	A					+					2	
2- 81	Instrument Troliev	2	A		-1	-								
		2	, Ç	Consulting the necessity, the final priority is determined C (onginal request:	ity is determined	l C (original r	equest: A).				T		•	
70 -7								•			-			_ `
and the second	-	-		Consulting the necessity, the final priority is determined C (original request:	ity is determined	l C (original r	equest: A).						,	
2-83	Basic Vascular Set, Adult		ر		Ì		 							
								<u> </u>	Ļ			-	-	
2-84	Instrument Cupboard, Large		A					+					2	
2-85	Mobile Clinic Vehicle (4WD)	2	A					-			-	-	. .	
Additio	Additional Request												-	_
2-86	2- 86- Phaco Emulsification Machine		A	0				_	-				-	
2- 87	Operating Microscope	t	A	0	_							[<		
		F	A	0				_	+				- -	
	Oneration Instrument for Cataract	L .	A		_		-				Ì			
				Taking the situation of medical treatment at the ophthalmology department into consideration.	ent at the ophthal	mology depa	tment into	consid	leration 1					
				the 4 items are requested additionally as the priority A front the ferr and more than	nally as the pho			nideo						-, [']

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ITEM	DESCRIPTION	REOI IIRED	REOLIRED	CRITERIA FOR PRIORITY	IA FOF	PRICE	XTIS	 		RITER	N FO	CRITERIA FOR DELETION	NOIT		-	INVE	STIGA	INVESTIGATION	EVALU-		RESULT OF
N N		QUANTITY	PRIORITY	1 - 2	6	4	s	-	2	6	4	5	9	2	8	р, р		c d	ATION		QUANTITY
	Arthro Videoscope	,	A				 												A		-
3- 2	Colono Videoscope		A				 												A		-
	Autoclave (Flash)	-	A																A		-
1	Autoclave (Eve Instruments)		A																A -		-
3- 5	Patient Monitor (Similar to ICU)	4	A		0											_		-	< 		4
	Oximeter (Portable)	-	A	0														-	4		~
3- 7	Binocular Indirect for Ophthalmology	-	A	0											-				A	-	,
3- 8	Examination Chair for Ophthalmology	-	A																4		
1 I	Yaq Laser	-	A		0	0										_			4		
i .	Chart Projector, Automatic Type	1	A	0						_								-+	A		
3- 11	Auto Refractometer / Keratometer	L	A	0						_						_		_	<		-
3- 12	Phaco Emulsification Machine	-	A		0	0									_		-		A		-
3- 13	Yag Laser, Combination Type	ł	A		0	0						_			_				A	_	-
	Phaco (One Hand Piece) with Anti Vitrectomy		A									•							ပ 		,
1	1		A		0														A		-
3- 16	Naso-Pharangeal Scope	-	A																A		-
3- 17	Ultrasound Machine, A/B Mode (Ophthalmology)		A		0	0													4		-
3- 18	Yaq Laser	-	A	Deleted: requests are already made in	equests	are alr	eady m	ade in	3-9 and	13-13	and c:	an be u	3-13 and can be used in common	ommo	л.				×		-
3- 19	Slit Lamp		A	0	0											_			A		
3- 20	Sinuscope	-	A	0	(A		
3- 21	Timpanometer	-	A		0	0												-	×	_	-
3- 22	Flexible Oesophageal Dilators	1	A	Deleted: independent procurement by the hospital is available.	depend	lent pro	cureme	ent by t	the hos	pital i	availa	able.							×		,
3- 23	Stappler Gun (A-P anastomoses)	-		Deleted: disposable type is considered consumables	sposab	le type	is cons	idered	consur	nables									×		4
	Cystoscope Set, Standard	-	A		0									÷			_	_	A		
3- 25	Percutane Renal Surgery Unit	L	A													_	_		<		
-326	Slow Speed Drill (for Reaming)	1	A	0	_														4		-
3-27	Minor Orthopaedic Operation Set	2	A	0	_									-	·			-+	<	-+	2
3-28	Fine Instrument Set (Nerve/Tendon Repair)	2	A	0		_						┤	-		\rightarrow		-	-	<	-	2
3- 29	Automatic High Flow Injector (Angio)		A		0									-+	-			-+	A	•	-
3- 30			A	0	_									-	-		-+	+	A	÷	į.
3- 31	Ultrasound Machine, Colour Doppler	-	A		0	0								-		+		-	< 		-
3- 32	Syringe Pump	6	A'	0						_		1			-		-	-	<		ی
3-33	Bed for ICU	8	A	0					•			_				·	_		A		80
3-34		10	A	0	_							1		-+	-+	+	_	-	×		p p
3-35	Patient Monitor and Central Station (with Printer)	а 	¥		0	0.			al e							<u>.</u>			A	•	7
3-36	1	2	A	0	0	-													A		2
3-37	Ventilator, Adult (for ICU)	4	А	$\overline{\mathbf{O}}$	0									1					A		4

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			PRIORITY	1 2 3 4 5 1 2 3 4 5 6 7 8	9 0 C 0	-	
		-+			sets	Ā	-
3- 38	Infant Incribator. Mobile Type		٩	Consuming dry negative of the second s			
		ľ				A	~
3- 39	Bed for Obstetric	2	4			A	2
3-40	Theater Light (1-Arm Type)	2	A			۲	2
	Infant Warmer with Resuscitation Unit	2	A			A	2
	Vacuum Extractor, Electric Type	2	A			A	
1	Defibrillator	•-	۷			×	ı
	Redeide Monitor (Rhythm, BP, Saturation)	5	A	Deleted: independent procurement by the nospital is available.			4
45	bedside monthly (my and a construction of the	4	A				5
	ritered and other Machine 3-ch	2	A			[>	,
	Electrocartilograph machines of the			Deleted: independent procurement by the hospital is available.		< 1	
+ +	Autociave	4	8				ł
- 1	Anaesthetic Machine with Venuiator	-	α		•	<u>ار</u>	•
1	Operating Table, Electric Type	- -				в	
3- 50	Laparoscope		، ۵			m	2
3- 51	Patient Warmer (Theater)	~	n I			8	-
ų	Colposcope		20			×	1
3- 53	1	2	8	Deleted: independent procuration of the involvements		8	-
[th	1		8			8	-
3- 55	Hysteroscope	1	æ				
3-56		1	8				
	-	2	в				2
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3- 71		- 	, , ,	The start and frequently itsed.		×	
3- 72	Elastogram Thrombo Machine		، ار			U -	ı
3-73	3 Examination Couch for Gynecology		ני 				

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Р	È				
RESULT OF	QUANTITY	•			
EVALU-	ATION	5	∢		
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INVESTIGATION					
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CRITERIA FOR DELETION	ы		Π	t liste nit of	
Ö	\sim			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).	
	-+		$\left - \right $	ch wa e X-i	
				whic	
7	v			type m ob	
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CRITERIA FOR PRIORITY	ŝ		0	hosp.	
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10	PRIORITY	U I	∢	1	
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DESCRIPTION					
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오		Ste	Ľ,		
Щ Ш	:	Plasma Sterilizer	Krequest X-Ray Unit, Mobile Type		
GEORGE HOSPITAL					
U A	NO.	3- 74	S- 75 X-Ray Unit		
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	· · ·	· · ·	· · · .		2-45
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TSHWARAGANO COMMUNITY HOSPITAL

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ITEM DESCRIPTION	· · · ·	LED REQUIRED		d ATION	QUANTITY
NO				< ●	ŝ
4-1 Mobile Clinic Vehicle (4WD)	۵. ۱	A		∢ -	2
4- 2 Ultrasound Machine	2	4		4	1
4- 3 C-Arm		A			
		A			
S		Υ	The request for health centers is turned down, and the final quantity of request is determined to 1 set (original request: 2 sets).	۲ ۲	-
			The request for health centers is turned down, and the final quantity of request is determined to 1 set	8 5	
4- 6 Table Top Processor	-	Ω	(onginal request: 2 sets).		- - - -
4-7 X-Rav Unit, Buky Type		¥	The request for health centers is turned down, and the final quantity of request is determined to 1 set (original request: 2 sets).	× 	- -
	· ·				
0	2	A	Because of judgment as a duplicated request, deleted by consultation.	×	•
0 0	2	<	The final quantity of request is determined to 6 sets by increasing the commonly sharing sections	4	9
4- 3 Nebulizer	•	- - -		Ţ	
		<		A	4
<u> </u>	*			A	-
4- 11 Ventilator, ICU	-	:		×	1
4- 12 Ventilator, Paediatric		ß	Deleted: several items are already requested and to be shared in continuon.	:	
4- 13 Infant Incubator, Portable		A	Consulting the frequency of use, the final quantity of request is determined to 1 set (original request: 2 sets).	<	-
				-	
4- 14 Uterus Irrigating Catheter	m	U	Consulting the frequency of use, the final quantity of request is determined to 3 set (original request: 4 sets).	ى 	1 2
					4
4- 15 Diamond Jow Needle Holder Bow-Lock	sow-Lock 6			n a	ی م
4- 16 Bone Forcep Set	ę			• <	5 74
4- 17 Cesarean Incision Set, Abdominal		<	Image: A second convertion of a second rest		
4- 18 Operation Instrument Set for ENT	ENT	4	Consulting the frequency of use, the trial quantity of request is determined to a set (original request: 3 sets).	∢	
				A	-
_	C			A	3
2	0	τ <	Deleted: judged as consumables.	×	1
12	7 ~		The final quantity of request is determined to 2 sets by increasing the commonly sharing sections	ions A	N
4- 22 Ventilator, Paediatric	J 	•		:	

TSHWARAGANO COMMUNITY HOSPITAL

1.1				-									
NO.	DESCRIPTION	REQUIRED	REQUIRED	CRITERIA FOR PRIORITY 1 2 3 4	R PRIORITY	1 2	CRITERIA FOR DELETION	DELETIC	N 7 8	a b	INVESTIGATION b c d	EVALU- ATION	RESULT OF QUANTITY
4-23	Anaesthesia Ventilator	m	A		Deleted: seve	Deleted: several items are already requested and to be shared in common.	ready reque	sted and to	ye shared in (соттоп.		×	
4-24	EXPIRATORY VALVE	-	ß	-	ă	Deleted: can be procured by hospital's own budget.	procured by I	hospital's o	vn budget.	. 1		×	1
4- 25	Catheter Mount	.	8		ă	Deleted: can be procured by hospital's own budget	rocured by I	hospital's o	vn budget.			×	1
4-26	Rebreathing Bag	2	A	00								A	2
	Oxygen Cylinder for Anaesthesia Machine	r	A	0								A	1
4- 28	Key Cylinder for Pin index Cylinder Valve	e	¥	Deleted: not	used directly	Deleted: not used directly for medical care activity, and can by procured by hospital's own budget.	tre activity. t	nd can by	rocured by E	tospital's ow	n budget.	×	ł
4- 29	Occupational Therapy Standing Table		A									A	-
1	Mat for Exercise	1	A	0								A	1
4-31	Panel Screen (Three) Connected by Plastic Curtainscreen	2	A	0								A	5
4-32	Panel Screen Double Flame Resistant Curtain	5	A	0								A	5
4-33	Panel Screen (Single) Flame Resistant Curtain	S	A	0								A	S
4-34	Oxygen Cylinder Truck Twin Oxygen Cylinder Carrier	2	, A	0		2.5 25						× ،	2
	Cervical Operating Set	2	A	0								A	2
4-36	Orthopedic Table	1	В	0								В	-
4-37	Bed, Hi-low Adjustable Backrest and Mattress	З	A			Delet	Deleted: duplicate request.	e request.				×	•
4 38	Gatch Bed, 3Crank	e	4			Delei	Deleted: duplicate request.	e request.				×	J
4-39	Gatch Bed, Two Crank	3	A			Delet	Deleted: duplicate request.	e request.				×	-
4-40	Petrol Generator (5KVA)		A	The request fo	r health cente	The request for health centers is turned down, and the final quantity of request is determined to 1 set (original request: 2 sets).	d down, and the final que (original request: 2 sets).	final quant 2 sets).	ty of request	is determin	ed to 1 set	8	1
			- L	101									
4-41	Air Conditioner	14	A	0								8	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).	isideration the detern	ion the fact that there are 4 ICU beds. the find determined to 4 sets (original request: 2 sets).	e are 4 ICU t (original req	beds, the fir uest: 2 sets	al guantity o	f request is		A	4
			1	0 0				 					
4-43	Treatment Carriage (3 Shelves Guard Rains)	-	В	00								В	1
4- 44	Defibrillator	2	A	0 0 0								A	2
4-45	Diathermy, Surgical	r	ß		Delet	Deleted: the existing instrument can withstand the dury	g instrument	can withst	nd the duty.			×	•
4- 46	Fragment Instrument Set, Small	~~	۲		Delett	Deleted: can be procured by hospital's own budget.	ured by hos	oital's own (udget.			×	(
4-47	Pneumatic Drill	. 2	A	0								A.	2
4-48	Bassinet	10	ß	0								8	10
	Traction Unit, Small	-	A	0								A	
30	Post Mortem Set in Wooded Case		8	0				_				8	-
4-51	Mortuary Trolley (S/S Top)		A	0								A	-

No. 1

TEN	DESCRIPTION	REQUIRED	REQUIRED	CRITERIA FOR DELETION		RESULT OF
N.		QUANTITY	PRIORITY	1 2 3 4 5 1 2 3 4 5 b / 0 a 0 4 0 4 0	╺╅╾╌	-
4-52	Dermatome Simplex		A		A	-
4-53	Dermatome Duplex		4 1	Colored: and he manual he have been been as the second of	×	ı
4-54	Castroviejo Caliper	. و	<u>ъ</u> с	Deleted, can be produce of avoined and acceleted.	×	ł
4-55	Suspension Frame		2	Deleted, tail to produce of approximation of the produce of the pr	×	1
4-56	Accessories for Exercising		• ار		A	2
	Suction Unit, Mobile 2-Bottle Hvdrotherapy Whirlpool Stainless Steel Treatment	V -	∢ α	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	U	I
4- 58 82	Tank			was consulted, and the final priority is determined to be the rank B.	- T	
1	er e	~		The final quantity of request is determined to 2 sets by increasing the commonly sharing sections	۲	₹
4	Autoclave for Ineatre (Dual Facility)	I			-	
-					A	
4- 60	Mobile Dental Clinic Unit	r	A -		A	2
4- 61	Theater Lamp, Mobile	2	A		8	-
4-62	Bronchoscope, Flexible with Light Source		60 I		80	-
4- 63	<u> </u>		20		4	2
4-64	1	~	<		∢	2
4-65	<u> </u>	~	A	Delared - indeed as consumables.	×	•
4-66	1	3	<	Vuluity of the broading of the broading of the final disatity of	 	
4- 67	Bed, Adjustable, with Mat	4	×	Expecting the independent procurement (self-supporting error) by the mosphan, the man parameter of the request is determined to be 4 sets. (original request: 10 sets.).	< :	t
4- 68	Bed with Frame and Mat	- 0 - -	A	Expecting the independent procurement (self-supporting effort) by the hospital, the final quantity of request is determined to be 10 sets. (original request: 20 sets.).	× '	10
					a	
4-69	Visitors Stool, Under Bed Type	30	ß			2 9
	—	و	A			» («
		3	A		(@	<u>~</u>
		2	ß			
	t	2	60		V	
4- 74	T	2	A		◄	
4- 75	Mayo Table	(1)	₹		4	4
4-76		4	×		α	2
		2	8			
4- 78	T	~	8			
4- 79		4	A	The final quantity of request is determined to 4 sets of increasing the continuous success. (original request: 7 sets).	< - -	4
		· .				
	Comminication System		8		0 	۱
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TSHWARAGANO COMMUNITY HOSPITAL

	DECCEDITION	DECHIPED	RFOI IRFD	CRITERIA FOR PRIORITY CRITE	CRITERIA FOR DELETION	INVESTIGATION	EVALU-	RESULT OF
E W	DESCRIPTION	O LANTITY		5 1 1 2	4 5 6 7 8	a b c d	ATION	QUANTITY
NO.								
4-81	4- 81 Equipment for a Casualty Dept. Patient CACC	-	A	Deleted: specific proposal is not prepared by the hospital	s not prepared by the hospital.		×	1
4 82	A- 82 Discussion Set Wall Moninted Type	4	A				۷	4
4 83	4- 83 Mobile Cabinet	4	۲.	Deleted: can be procured	Deleted: can be procured by hospital's own budget.		×	
		-	V				A	-
4- 84	4- 84 [Dental X-Ray Unit	-					<	4
4-85	85 Blood Warmer	4	۲				ς ;	-
4- 86	Vehicle (4WD)	e	A	Deleted: not used	Deleted: not used directly for clinic activity.		×	-
4- 87	Dationt 1 ift	1	٩	0			×	
			æ	С			8	-
			α				œ	-
4- 83			0			•	ပ	-
4- 90	Jar	- ,	- (<u>م</u>	f
4 19	Centrifuge	-	'n					1
4-92	Microscope. Fluorescence	-	ന					-
4- 93		-	ю	0			8	
104		1	ß	00			8	

DESCRIPTION	REQUIRED	REQUIRED	CRITERIA FOR PRIORITY	- 1	OR DELE	┝			
	QUANTITY	PRIORITY	1 2 3 4 5	1 2 3	4 0	8 2	ບ ດ ຫ		-
1 Rahvscale Electronic Type	2	ß							13
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6	10	U							4
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=	ø	A							12
5- 12 NIBP Monitor, Electronic Type *2	12	A			-				ø
13	ω	60							2
4	2	A					-		
5- 15 Blood Gas Analyzer with Haemoglobinometer	r	A							(
9	-	ß							
17		J					-		
5- 18 Instrument Washing Machine		m							
19	f	U							
5- 20 Bed	12	ß							
21		A							00
22	ω	8							
5-23 Plaster Saw		J							-
24	2	മ							-
25	5 N	A			-+		-		
56		4							
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53		œ							
30		A						A	-
5- 31 Keratometer		A			- H H	Auro budget			1
32	-	8						×	-
5- 33 Indirect Ophthalmoscope	,	A							-
34	e	ß							-
35		۶							
5- 36 Aplamation Tonometer		m							
37		m							
38	-	A	0						
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Ŏ		VANTITY	PRIORITY	-	~	m	4	S	-	2	m	4	S	9	2	8	a b	0 C	q	ATION	QUANTITY
5- 40	5- 40 Examination Chair. Gvnaecology	,	8	0	0															в	-
5- 41	5- 41 Obstetric Instruments (Forceps) *2		A		0												_	• • •		۷	
5- 42	5- 42 Suturing instruments *2	~	A		0															A	2
5- 43		4	A	0	0															A	4
5- 44	5- 44 [Cardiotocograph (CTG), Fetal Use	2	A		0	0														A	2
5- 45	5- 45 [Litrasound Machine, Portable (OBS+GYNAME)	r	A	0	0											_	_	-		A	-
5- 46	5- 46 IOnerating Table. Orthopedic		A	0	0															A	-
5- 47.	5- 42, ECG Monitor	r	B		0	0														œ	-
5- 48	5- 48 CT Scan (Whole Body)		A			0	0	0							-					A	-
5- 49	5- 49 C-Arm (Mobile)	-	в			0	0	0				-1	-	-		-				8	-

1946 - 1947 - 1947

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ITEM	DESCRIPTION	REQUIRED	REQUIRED	CRITERIA FOR PRIORITY CRITERIA FOR DELETION	INVESTIGATION	EVALU-	RESULT OF
ох Х		QUANTITY	PRIORITY	1 2 3 4 5 1 2 3 4 5 6	7 8 a b c d	ATION	QUANTITY
	X-Ray Unit, Screening Type (Manapo)		-			A	
6- 6-	X-Ray Bucky Unit (Manapo, ER)	2	2			A	2
6- 3	Ultrasound Machine with Vaginal Probe (Manapo)	ţ	ŝ			A	
6-4	X-Ray Unit, Portable Type (Manapo)	ı	4			A	
ы ы	Film Processor, Daylight (Manapo)	ı	ъ			A	-
6-6	Bedside Monitor for ICU (Manapo)	2	9			A	2
6- 7	Ventilator, ICU (Manapo)	2	7			A	~
ය ප්	Physiotherapy Equipment (Manapo)	-	ω			A	٢
6-9	Medical Gas Panels (Manapo)	,	6			A	-
6-10			12	Taking the necessity of additional request equipment into consideration, the final priority is ranked 12th (original request: 10th).	a, the final priority is	B	r -
:						T	
6- 11	X-Ray Bucky Unit (ER)		16	The final priority is ranked to the 16th, because of a duplicated request (original request:	uest (original request: 11th).	J	•
						[
6- 12	Ultrasound Machine (ER)	-	13	Taking the necessity of additional request equipment into consideration, the final priority is ranked 13th (original request:12th).	a, the final priority is	U	1
6- 13	X-Ray Unit, Portable Type (ER)	-	4	Taking the necessity of additional request equipment into consideration, the final priority is graded 14th (original request: 13th).	ı, the final priority is	ن 	
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).	, the final priority is	ب	•
6- 15	Bronchoscope, Flexible with Light Source (Manapo)	-	10	Taking the situation of the existing equipment into consideration, the final priority is ranked 10th (original request: 15th).	inal priority is	ß	
						:	
Additio	Additional Request						
6- 16	Orthopedic Operating Table (Manapo)	-				<u>م</u>	,
			: :	The demand for wounded outpatients is large, and therefore, there was a request from the relevant hospital as the 11 the priority.		. :	
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Nor	DESCRIPTION	RECURED	REOURED REOURED	CRIT	ERIA F	CRITERIA FOR PRIORITY	JRITY		-	CRITE	RIA FOI	CRITERIA FOR DELETION	NOIL			INVESTIGATION	I IGA I I	N	EVALU-	EVALU- RESULI UP
			VTIGOIGG	- -	~	-	4 5		2	3	4	ŝ	9	7 8	3 a	٩	сı U	p		ATION CUANTITY
Ŋ.		11111000		-	, 	+	+	+		T		t	.	╞		┞			<	
7- 1	(CT Scan (Spiral)	*	,		- O		$\frac{1}{2}$				1	+			+	_	_	1	Ŧ	
7- 2	X-Rav Equipment for Screening Room	2	2	0	0								-+	-					¥,	2
7- 3		-	3	0	0	\cap							-		+		_		۹.	
7- 4	Endoscopic Ultrasound Scanning System	r ~	4		0	0	\bigcirc					-†		-	_		_	_	4	- 1
7.5	1		2		0	\cap		_				-+		-					ъ	
7- 6	Ventilator. Paediatric	80	9					_											J	-
7-7	Video Camera System (PAL) for Rotary Retinoscope Usage	-	2					· · · ·								•			0	1
7- 8	Ultrasound Machine (Echo Cardiological Colour System)	-	ω				н. 1					•							0	•
7-9	7- 9 Cerebral Oximeter		6							•		_	-		_	•		_		-
7- 10	7- 10 Data Information System	-	10									-	0		_				ر.	'

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ITEM		REQUIRED	REQUIRED	CRITERIA	õ	퇉	\mathbf{h}	CRITERIA		_ [4	≧ -	1	EVALU-	RESULT OF
NO		QUANTITY	PRIORITY	1 2	m	4 S	-	ω 4	9 2	~	8 8	ں م	τ	ALION	MAN 111
	X-Rav Unit	,	Ă	0										4	
8- 2	X-Rav Hoit Tomography	-	۷		0	0						_		∢	
	Y-Pavilleit Mohile Tyne (30Kw)	-	A	0 0										4	
1.	Mirro Processor Fully Set		A)		0								۷	Ļ
1	Trolley Traima	2	A											۷	2
	Casedte	r	A											۷	-
	Curboard/Storage of Cassette	2	A	0										٩	2
8	Floor Polisher/Scrubber	-	A	Because th allows	is item is independ	not used d ent procur	irectly for ement, this	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.	activity, and m the reque	the hospit sted equip	al budget ment.			×	i.
م م	Child Restraint	2	A .		0									A	2
	ID Printer		A	0										٩	-
8- 11	Cassette Holder, Mobile	5	4											A	2
8- 12	-	2	A	0										A	2
8- 13	ECG Monitor, 3-ch.	·	A	0	0							_		٩	r
1	Blood Gas Analyzer	ſ	A	0	0	0							_	Ā	
8-15	Ambubaq	3	A	0 0										A	m
8- 16	Ambulance	1	A	0	0	0					_			٩	
8-17	Apnoea Monitor	3	A	0	0									∢	3
8- 18	Argon Laser Photocoaugulator	i.	A		0	0								A	-
	Audiometer	Ľ	A	0 0										۲	-
8- 20	infusion Pump, Volumetric Type	ι	A	00					_					4	-
	Autoclave	L	A	0								-	-+	4	-
8-22	Auto Refractometer	L	A	0										A	
1		13	A	Because the	e procurer this item	ment by th n is deleted	e budget o I from the	Because the procurement by the budget of hospital is sufficiently available. this item is deleted from the requested equipment.	afficiently a ipment.	vailable,				×	
	Red for ICL	4	A											A	4
8- 25	+	2	A	0										A	2
	1	-	A	0			_							4	
	1	٢	A	0										۲.	r-
	1	1	A	0	0									4	
			A	0	0		-			-+				<u>ج</u>	0
8-30	ECG Monitor	∞	A	0	0						_		_	∢	α
8-31	Overbed Table	210	¥	Because th	le procurel this iten	ment by th 1 is deleted	e budget o I from the	Because the procurement by the budget of hospital is sufficiently available, this item is deleted from the requested equipment.	ufficiently a ipment.	vailable,				×	
1	Cardiotocograph (CTG), Fetal Use	e	A	0	0									A	-
8-33	Cholangiogram Table		A	0	0									4	r
1		4	A	0							_			<	4
1	t	4	A	0	_							-	+	A	4
8-36	Cardiotoco	2	A	0	0									Ā	2
	1														

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ITEM	DESCRIPTION	REQUIRED	REQUIRED	ELETION INVE	EVALU	
o N		QUANTITY	PRIORITY	1 2 3 4 5 1 2 3 4 5 6 7 8 a b c	d ATION	- <u>-</u>
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.	×	
38	I Drvina Cabinet	P	A		٩	1
33	ECG Holter		A	Deleted from the requested equipment, consulting the frequency of use.	×	
4	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	
						. I
4	ECG Monitor	-	A		4	
42	ECG Monitor, Paediatric		A		<	1
43			A	Because the procurement by the budget of hospital is sufficiently available, this item is deleted from the requested equipment.	× **	.
44	Floor H20 Suction Machine	-	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	
40	Folder Trolley for Patient File	4	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.).	ح	
					 	. I
46	Forcep Gillies	50	A		∢	- 1
47	Forcep Mosauito, Cof	20	A		<	1
48	Forcep Mosquito, Str	50	A		4	1
49	Forcep Spencer Wells. Str	20	A		4	
S	Glucometer	6	A		<	1
51	Handle (BP No3)	50	A		4	ł
8- 52	Handle (BP No4)	30	A		4	- 1
S	Haemoqiobin Meter	2	A		A	
42	Hvper/Hvpothermia Unit	+-	A		4	_ I
55	Infant Incubator, Open Type (ICU)	2	A		4	- 1
y S	_	2	A	Expecting the independent procurement (self-supporting effort) by the hospital, the	▼	
))				tinal quantity of request is determined to be 2 sets. (original request: 15 sets.).		
						; I
57	infant Warmer with Resuscitation Unit	4	A		<	
28	Infusion Pump (Adult)	13	A		×	1
59	Infusion Pump (Neonatal)	4	A		V	
09	Infusion Pumn (Paediatric)	2	A		V	į I
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NiBP Monitor, Electronic Type Operating Table

8-65 8- 66

Ventilator, Mobile Type

8-63 8- 64

Needle Holder

Medical Air Compressor Microscope for Lab.

8- 61

8-62

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E E	DESCRIPTION 1997 - Provide American American 1997 - Provide American American 1997 - Provide American American 1997 - Provide American 1997 -	OUANTITY	PRIORITY		3 3	4	5 C	1 2		4	5		7 8	9	q	υ	ې م	ATION	QUANTITY
	Occurrent Microsomo	,	X				 											- ₹	
-0-0							┟┉		_									~	-
- 1	Opthalmoscope Indirect	-	<	(Takin	o the fre	Taking the frequency of use into consideration, the final quantity of request is determined to 2 sets	of use in	to consi	deration	1. the fu	nal qua	ntity of 1	request	is deter	rmined	to 2 set	s.	<	
8- 69	Oxygen Head Box	~	Ā	1	0			Ŭ	(original request: 5 sets)	request	5 sets.	•							J
				\mathbb{P}	0														
8- 70	Owned Monitor	2 2	A	Takin	ig the fre	Taking the frequency of use into consideration, the final quantity of request is determined to 2 sets	of use in	to consi	sideration, the final quan), the fi	nal qua	ntity of	request	is dete	rmined	to 2 set	s	₹	2
										Ichnew		-	-				T	·	
							+	+				╉	+	_	_				F
8- 71	Oxygen Pressure Alarm	-	A		0							+	+		-		+	₹ •	
8-72	Peak Flow Meter	3	A	0				_					+				-	√	η,
	Phaco Emulsification Machine		A		0	0						+	-+	_			-	_ ↓ \	- -
8-74	Phototherapy Unit	2	A		\cap								+		_			<	7
8-75	Plier with Twisting Forcep	-	A									-+		_			-	<	
	Placter Saw		A		\cap								_					<	
	Plaster Cutter	.	A		\cap													٩	
	Infant Inclubator with Ventilator	- -	A		0													<	
	Piitse Oximeter	e	A	The	final qua	The final quantity of request is determined to 3 sets by increasing the commonly sharing sections (corrient flocus)	request	is deterr	rmined to 3 sets by increa	3 sets	by incre 10 sets	asing th	he com	monly s	sharing	section:		۷	m
				C			-	-	-			-	-	-	-		: 	-	• •
0	5+ M-2 / 5 O-++ 2.0.01 (0.0.)	Ľ	A				+-	╞						<u> </u>				4	9
	Puncin Noo (Tor Or unopedic Ops/ Recliners	5 2	A	1	Delet	Deleted: can be procured by hospital's own budget.	ie procu	red by h	ospital':	q umo s	udget.							×	L
			<					-	-				-	-				4	F
8- 83 83 83	Ketinoscope Ripple Mattress	- 4	< ₹	-	Delet	Deleted: can be procured by hospital's own budget.	e procu	red by t	iospital':	s own b	udget.							×	
			A					-	-			╞	-	-	-			∢	-
04 85	Kongeur Bone (10) Or Unopeuto Obs) Scale Flectronic (Pharmacv)		×				<u> </u>					┟╶┙	$\left \right $					∢	-
	Weigh Scale Flectronic. Neonatal	-	A	0	0													4	
1	Weigh Scale Electronic, Paedriatric	2	A	0														4	20
8-88 88	Weigh Scale with Height Measure	2	A	0	\cap								-					- ₹ •	7
	Scissors Metzembaum, Cof 140cm	26	A		0										-		+	م	. 56
	Slit Lamp		A	0									-		-		+	٨.	(
8- 91	Speculum Vaginal, Cusco med	9	A		0				_				+	_			-	₹ ·	٥
8-92	Steel Bath	ო	A	Ĭ				-+	-				+		_	\square	+	4 •	5
8-93	Stitch Scissors	100	A						-+	_		-	+	-	_		+	4 4	201
	Suction Unit (High Vacuum)	ى	A	0								-+	-	-	_			₹.	n ¦
8- 95	Suction Unit (Low Vacuum)	25	A	– O				-	-				-	4				₹	52
8- 96	96 Syringe Dental	15	۷	Expec	cting the mantit	Expecting the independent procurement (self-supporting effort) by the hospital, the final mannity of request is determined to be 15 sets. (original request: 30 sets.)	dent pro	curemen	nt (self-; ed to be	support 15 sets.	ing effc (origin	rt) by th al requé	he hosp sst: 30 s	ital, the xets.).	e final			4	15
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KIMBERLEY HOSPITAL

	BEOLIBED	REOI IIRED	CONTERIA FOR PRIMARTY CRITERIA FOR DELETION NVESTIGATION	EVALU-	RESULT OF
	QUANTITY	PRIORITY	3 4 5 1 2	d ATION	QUANTITY
8- 97 Syringe Pump	m	A		4	m
98	1	A		<	-
8- 99 Traction Pulley	10	٩	Deleted: can be procured by hospital's own budget.	×	1
8- 100 Trollev Patient with Side	2	A		A	2
1	m	A	Deleted: several items are already requested and to be shared in common.	×	
8- 102 Trollev Trauma	2	A	The final quantity of request is determined to 2 sets by increasing the sharing sections (original request:	tt 4 A	~
				· :	
1- 103 Litetern-Renoscone & Instrument	-	A		A	
_	1	A		A	-
8- 105 Ventilator	2	A	The final quantity of request is determined to 2 sets by increasing the sharing sections (original request: sets).	t: 3 A	N
8- 106 Ventilator, Neonatal	1	A		A	F.
8- 107 Ventilator, Paediatric	.	۲	Deleted: several items are already requested and to be shared in common.	×	•
8- 108 Electric Blanket	1	A		A	
8- 109 Water Purification		A	Deleted: can be procured by hospital's own budget.	×	•
8- 110 Wheel Chair	2		Deleted: can be procured by hospital's own budget.	×	•
8-111 Diathermy Tester	[A		A	٦
112	L	A		4	
8- 113 ECG Stimulator	1	A		4	-
8- 114 Defibrillator Tester		A		A	
8- 115 Ventilator Tester for BME	F	A		A I	
8- 116 Sound/Music System		A		8	
8- 117 Volley Ball Set		A		8	
8- 118 Ping Pong Ball Table	r-	A			
8- 119 Sanding Machine & Belts		A		8	r
8- 120 Lathe	1	A		8	
121	2	A		8	2
8- 122 ECT Machine	-	A		8	
8- 123 Air Conditioner for X-Ray	5	A	Deteted: not used directly for medical care activity, and can be procured by hospital's own budget.	×	1 1
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KIMBERLEY HOSPITAL

				I CRITERIA FOR DEI FTION EVALU-	RESULT OF
ITEN	DESCRIPTION		PRIORITY	UKIERA FUNCTION 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 6 7 8 a b c d ATION	QUANTITY
N0.		2	4	b	
			<		2
	125 Diagnostic Set	vr	τ <		2
8- 126 8- 127	126 Weigh Scale with Height Measure 127 Television for Psychiatric Patients	V 4	∢	Deleted: not used directly for medical care activity, and can be procured by hospital's own X budget.	•
128	128 Wheel Chair	2	A	Deleted: can be procured by hospital's own budget.	
8- 129	8- 129 Ambulance	m	8	Deleted: several items are already requested and are to be shared.	
8- 130	Riood Gas Analyzer	1	60		
1 5		-	â	Deleted: not used directly for medical care activity, and can be procured by hospital's own X	.
8- 132	132 Floor Polisher/Scrubber	9	: 100	Deleted: not used directly for medical care activity, and can be procured by hospital's own X	
	Autoclave, Steam Type		۵ a		
8- 134 8- 135	134 Drying Cabinet 135 X-Ray Holder Metal	210	<u>م</u>	Deleted: can be procured by hospital's own budget.	L
8- 136	Trolley Trauma	4	8	Deleted: several items are already requested and are to be shared.	1
8- 137	137 Autoclave	2	8	Deleted: several items are already requested and are to be shared.	
8-138	8 Ventilator	5	m	Deleted: several items are already requested and are to be shared.	1
8- 1391	Defibrillator/ECG Monitor	4	ന	Deleted: several items are already requested and are to be shared.	L
8-140	140 Gastroscope, Paediatric		8		
8-141	141 Infusion Pump	9	8	Deleted: several items are already requested and are to be shared.	1

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	QUANTITY	PRIORITY		5	3	4	5		2	3	4	5	9	1	~	r3	 م		d AT	ATION QUANTITY		
Anaesthetic Machine	m	A I			0	0														A 1		•.
Anaesthetic Stool, Height Adjustable	m	A			0								 -							A 1		
Aproea Monitor	4	A	0		0															A 2		
	36	A			0									_						A 6		
Mattress for Bassinet	36	A			0									L						A 6		
Sphygmomanometer, Wall Mounted Type	10	A	0																	A 6		;
	20	A			0												-			A 4	:	
Mattress for Paediatric Bed (Water Proof)	20	A			0							_								A 4		
Emergency Light with Transformer	3	A			0								-							A 1	,	
Emergency Patient Trolley, Adjustable Type	9	A			0							_						-		A 3		
Suction Unit, 2-Bottle	4	A	0		0															A 2	:	:
Emergency Trolley, Complete	ω	A	0																	A 3		
Warming Cabinet	8	A			0															A 1 1.		
	9	A			0															5		
	10	A	0																	A 4	:	
Haemoglobin Meter	10	A	0																	4 4		
	9	A			0									 .	<u> </u>					- F		
Mattress for Bed (Above)	9	A			Ö						_									- -		
Infant incubator Manual Type, Mobile	9	A			0															A 2		
Cot Mesh Mat, Infant	20	A			0																	
Mattress for Infant Cot (Water Proof)	20	A			0		_		-				-		_		· ·			- -		
Weigh Scale, Infant, Digital Type	2	A	0													_				A 1		
	8	A	0																	A 4 -		
Instrument Trolley	10	A			0															A 5	:	•
	10	A			0															A 4		
Kick Bucket with Lid	. 10	A .			0															A 4	;	:
Laparoscope, Complete Unit	2	A			0													_			:	
Laryngoscope Blades	6	A	0					<u> </u>												A 3		
Laryngoscope Handle (Medium Plain)	2	A	0																	A 1		
	2	A			0		—					_								A 1		
I.V.Stand, Mobile	7	A	0			_	_	-		-										A 4		
Oxygen Flowmeter with Humidifier (Double)	10	A	0																	A 4		
Patella Hammer	10	A	Q		_		-	-			_								_	A 4	:	
Patient Trolley with Side Sails	2	A			0												_			A 1		
Phototherapy Unit	4	A			0						_									A 2		14
Resuscitator with Peep Value	2	A	0		_		_													A 1	: :	
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M DESCRIPTION REQUIRED REQUIRED <th< th=""><th></th><th></th><th></th><th></th><th></th><th>10 C C</th><th></th><th>NOITE JON</th><th></th><th>VESTIGATIO</th><th>F</th><th>RESULTOF</th></th<>						10 C C		NOITE JON		VESTIGATIO	F	RESULTOF
0. 0.<	JTEM DESCRIPTION	REQUIRED	REQUIRED	CRITERIA F							Τ.	CLINNIN
33 Resultator Trelley. Complete (Mobile) 4 A C C C C C A A 10 Resultator Trelley. Complete (Mobile) 6 A C C C A	NO. V	QUANTITY	PRIORITY	1	4	¬ -	-+-	╉	-+- • -+-		+	
30 Resentation, fortant 4 A	38	4	A		0						<	
01 Stage Bend Stand 0	39	4	A	0					_		₹ <	J 0
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PENGE HOSPITAL

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PENGE HOSPITAL

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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:

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

- 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.
- 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
 - 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 equipments, and the medical maintenance system for own 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.

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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

. โมโลกสุราย์การการเมาก็การที่สุดสินให้สุดสินที่สามหารถเห็นสาวและหนึ่งการสนุบที่สามการสนุบทรายสาวการการสุดสินสาว

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".

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

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

Table 1 - 3 - 2 Themba Hospital	Equipment to be Pr	ocured

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	1. A. 17	Orthopedic Dept.	Insertion Instrument Set	- 1
1-6		Orthopedic Dept.	Locking Instrument Set	1
1- 7	1 - A	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			Continuous BP Monitor (Cuff Type)	4
		Theatre, ICU		3
		Theatre, ICU	Pulse Oximeter	<u> </u>
1- 23	<u> </u>	Theatre, ICU	Diathermy Machine	1
1- 24	 	Theatre, ICU	Bronchoscope, Flexible with Light Source	1
1- 25		Theatre, ICU	Blood Warmer	3
1- 26	O	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	0	Theatre, ICU	Suction Unit, Mobile, 1-Bottle	5
1- 37	1997 - 1947 - 19	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	1	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 Prove	1
1- 48		Obstetrics	Resuscitation Unit, for Neonatal	2
1- 49	$\overline{10}$	Obstetrics		4
······	$+ \nabla$		Infant Incubator (ICU)	1
1- 51		Physiotherapy	Interferential Stimulator	
1- 57	+	Physiotherapy	Audiometric Equipments	1
1- 58	+	Physiotherapy	Multimotivational Therapeutic Apparatus	1
1- 61	$\frac{1}{2}$	Emergency	Ambulance	3
1- 62	$\frac{10}{2}$	Emergency	Equipment for Ambulances	3
1- 63	$\downarrow \circ$	Emergency	Kramer Bags	8
1- 64		Ward	Ambubag	2
1- 65	$\downarrow \bigcirc$	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 00		Mand	Infusion Pump, Volumetric and Drop	20
1- 69		Ward	Counter Type	30
1- 70		Ward	Nebulizer	4
1- 71	+	Ward	Oxygen Flowmeter	15
				_
		IWard	Weigh Scale, Bahy, Electronic Type	1 3
1- 72 1- 73		Ward Ward	Weigh Scale, Baby, Electronic Type Weigh Scale, Adult	3

No.	S.A. Made	Section	Description	Q'ty
1~ 75		Ward	Suction Unit, Wall Mounted Type	3
1- 76	0	Ward	X-Ray Viewing Box, Mobile	4
1-77	0	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	\cap	Ward	Wheel Chair	6
1- 82	····· ·	Dental	Dental Unit with Handpiece	1
1- 83		Dental	Mobile Dental Clinic Unit, W/Compressor	1
<u>- 84</u>		Dental	Operator Assistant Stool	2
1- 85		Dental	Autoclave, Dental (Portable)	1
1- 86		Dental	Visible Curing Light	1
<u>1- 80</u> 1- 87		Dental	Dental Forceps Kit (Including Elevator)	2
1- 88		X-Ray Dept.	C-Arm & Image Intensifier	+
<u>1- 89</u>			X-Ray Unit, Portable Type	+
	├ ───	X-Ray Dept.		1 1
<u> </u>	 	X-Ray Dept.	Processor, Theater	$\frac{1}{1}$
	 	X-Ray Dept.	Patient Scoop	$\frac{1}{5^2}$
<u>1- 93</u>		X-Ray Dept.	Cassette	$\frac{1}{1}$
<u>1- 94</u>		X-Ray Dept.	Boomerang	<u> </u>
<u>1- 96</u>		X-Ray Dept.	Cassette Hatch	
1- 97		X-Ray Dept.	Safelight for Theater	$\frac{1}{c}$
1- 98	 	X-Ray Dept.	Cassette, Theater	6
1- 99		X-Ray Dept.	Darkroom Printer for Theater	$\frac{1}{1}$
1- 100		X-Ray Dept.	Lead Aprons Double-Side	4
1- 101		Bongani Health Centre	Sphygmomanometer, Wall Mounted Type	4
1- 102	$\downarrow O$	Bongani Health Centre	Suction Unit, Foot Type, 1-Bottle	$\frac{1}{2}$
1- 103	$\downarrow 0$	Bongani Health Centre	Emergency Trolley	2
<u>1- 104</u>	\Box	Bongani Health Centre	Phototherapy Unit	$\frac{1}{1}$
1- 105	L	Bongani Health Centre	X-Ray Unit with Processor	1
1- 106		Bongani Health Centre	Infant Resuscitator, Mobile	2
1- 107	L	Bongani Health Centre	Nebulizer	2
1- 108	$\downarrow \bigcirc$	Bongani Health Centre	Weigh Scale, Adult	4
1- 109	\bigcirc	Bongani Health Centre	Suction Unit, Mobile, 2-Bottle	1
1- 110	<u> </u>	Bongani Health Centre	Glucometer	3
1- 111	0	Bongani Health Centre	X-Ray Viewing Box, Large	2
1-112	ΓŌ_	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	0	Clinic	Suction Unit, Mobile, 1-Bottle	8
1- 119	0	Clinic	Emergency Trolley	3
1- 120	T	Clinic	Soft Waste Incinerator, Portable	7
1- 121	0	Clinic	Infant Incubator	3
1- 122	Õ	Mobile Clinic	Mobile Clinic Vehicle (4WD)	4
1- 123	ĨÕ	Mobile Clinic	Complete Unit Attachment	4
1- 124	1 ŏ	Mobile Clinic	First Aid Kit	4
1- 125	1 ñ	Mobile Clinic	Weigh Scale, Adult	4
1- 126	+	Mobile Clinic	Ambubag, Adult	4
1- 127		Mobile Clinic	Sphygmomanometer (Aneroid)	4
<u>, 14</u>	<u></u>			
8		「「「「「」」、「「」」、「」」、「」、「」」「」」「」、「」」、「」、「」、「	철전에 가지 않는 것 같은 것 같	

No.	S.A. Made	Section	Description	Q'ty
2- 1	\cap	Ward	Emergency Cart for Orthopedic	30
2-4		Ward	Blood Gas Analyzer (Compact Type)	1
2- 5	0	Ward	Bed with Adjustable Backrest and Mattress	2.5
			Bed, Hi-Low Adjustable Backrest and	. ¹
2-6	0	Ward Street Stre	Mattress	20
2-7		Pediatrics Dept.	Blood Warmer	4
2-8	0	Pediatrics Dept.	Infant Incubator	5
2-9		Pediatrics Dept.	Patient Trolley with Mattress	2
2- 10	0	Pediatrics Dept.	Drip Stand	10
2- 11	$\overline{0}$	Pediatrics Dept.	Suction Unit, 2-Bottle	2
2- 12	0	Pediatrics Dept.	Suction Unit, Battery Type, 1-Bottle	2
2- 13	$\overline{\mathbf{O}}$	Pediatrics Dept.	Sphygmomanometer, Portable Type	6
2-14	0	Pediatrics Dept.	Sphygmomanometer, Wall Mounted Type	4
2-15		Pediatrics Dept.	Glucometer	5
2-16	$\overline{\mathbf{O}}$	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	$\overline{0}$	Pediatrics Dept.	Syringe Pump	3
2- 20		Pediatrics Dept.	Laryngoscope Set, Pediatrics-4 Blades	2
2- 21	1	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	1	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	$\frac{1}{1}$
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	$\overline{0}$	Medicine	Sphygmomanometer, Mobile Type	3
2- 38	$+ \frac{\circ}{\circ}$	Medicine	Sphygmomanometer, Wall Mounted Type	10
2-39		Medicine	Glucometer	10
2- 40		Medicine	Stethoscope	15
<u>2- 40</u> 2- 41	$+ - \underbrace{\lor}_{}$	Medicine	Diagnostic Set	3
2- 42	+	Obstetrics	Transport Trolley	2
<u>2- 42</u> 2- 43		Obstetrics	Examination Light, Mobile Type	1
<u>2- +3</u> 2- 44				1
<u>2- 44</u> 2- 45	+	Obstetrics	Resuscitation Unit, Mobile Type	1
<u>2- 45</u> 2- 46	$+ \frac{\vee}{\partial}$	Obstetrics		1
	$+ \times$	Obstetrics		1
	$+ \approx$	Obstetrics	Infusion Pump, Volumetric Type	
2- 48	$+ \frac{9}{2}$	Obstetrics Obstatrics	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	$+ \mathcal{O}$	Obstetrics	Phototherapy Unit	
2- 54		Orthopedic Dept.	Orthopedic Table, Minor	1

New York Addition

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No.	S.A.	Section	Description	Q'ty
	Made			
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	0	Orthopedic Dept.	Crib	1
2- 60	:	Orthopedic Dept.	Blood Warmer	2
2-61	0	Emergency Dept.	Emergency Trolley (Fully Equipped)	· 1
2- 62	2 A.M.	Emergency Dept.	Electrocardiograph, 3 ch.	1
2- 63	3 A 1 A	Emergency Dept.	Examination Light, Mobile Type	1
2-64		Emergency Dept.	Anaesthetic Machine with Ventilator	1
2- 65	0	Emergency Dept.	Infusion Pump, Volumetric Type	1
2-66	0	Emergency Dept.	Suction Unit, 2-Bottle	1
2-67	0	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	0	Emergency Dept.	Infusion Pump (Volumetric Type)	1
2-73	Ō	Emergency Dept.	Infusion Pump, Drop Counter Type	
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	0	Emergency Dept.	Instrument Trolley	2
2-84	0	Emergency Dept.	Instrument Cupboard, Large	1
2- 85	Ō	Mobile Clinic	Mobile Clinic Vehicle (4WD)	2
2- 86		Ophthalmology Dept.	Phaco Emulsification Machine	1
2- 87	1	Ophthalmology Dept.	Operating Microscope	1
2- 88	0	Ophthalmology Dept.	Autoclave	1
2-89		Ophthalmology Dept.	Operating Instrument for Cataract	1

No.	S.A. Made	Section	Description	Q't
3- 1	Maue	Threatre	Arthro Videoscope	1
3-2	· · · · ·	Threatre	Colono Videoscope	1
- 3	0	Threatre	Autoclave (Flash)	1
- 3	$\overline{\bigcirc}$	Threatre	Autoclave (Filash)	1
3- 1 3- 5		Threatre	Patient Monitor (Similar to ICU)	4
- 6		Threatre	Oximeter (Portable)	$\frac{1}{1}$
3- 7		Ophthalmology Dept.	Binocular Indirect for Ophthalmology	1
s- 7 3- 8		Ophthalmology Dept.	Examination Chair for Ophthalmology	
3- 9 3- 9		Ophthalmology Dept.	Yag Laser	1
3- 9 3- 10		Ophthalmology Dept.	Chart Projector, Automatic Type	
		Ophthalmology Dept.	Auto Refractometer / Keratometer	
	· · · · · ·		Phaco Emulsification Machine	1
3-12		Ophthalmology Dept.		
3- 13	·	Ophthalmology Dept.	Yag Laser, Combination Type	
3-15	ļ	Ophthalmology Dept.	Operating Microscope (with Foot Control)	<u> </u>
3- 16		Ophthalmology Dept.	Naso-Pharangeal Scope	<u> </u>
3-17		Ophthalmology Dept.	Ultrasound Machine, A/B Mode (Ophthalmology)	1
3- 19	<u> </u>	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	
<u>3- 26</u>		Orthopedic Dept.	Slow Speed Drill (for Reaming)	1
<u>3- 20</u> 3- 27		Orthopedic Dept.	Minor Orthopaedic Operation Set	2
3- 28		Orthopedic Dept.	Fine Instrument Set (Nerve/Tendon Repair)	
3- 29	· ·	X-Ray Dept.	Automatic High Flow Injector (Angio)	1
3- 30	1	X-Ray Dept.	X-Ray Unit	1
3- 31	-	X-Ray Dept.	Ultrasound Machine, Colour Doppler	1
3- 32	$\overline{10}$		Syringe Pump	6
<u>3- 33</u>	<u>+</u>	ICU	Bed for ICU	1 8
3- 34	$\overline{0}$	licu	Infusion Pump, Volumetric Type	1
3- 35		ICU	Patient Monitor and Central Station (with Printer)	- 7
3- 36		ICU	Bedside Monitor (Rhythm, BP, Dat, Temp)	1 2
<u>3- 30</u> 3- 37	+		Ventilator, Adult (for ICU)	
<u>3- 37</u> 3- 38		Obstetrics	Infant Incubator, Mobile Type	
<u>3- 30</u> 3- 39	$+ - \checkmark$	Obstetrics	Bed for Obstetric	
<u>3- 39</u> 3- 40		Obstetrics	Theater Light (1-Arm Type)	
<u>3- 40</u> 3- 41	$\frac{1}{0}$	Obstetrics	Infant Warmer with Resuscitation Unit	
3- 41 3- 42	+	Obstetrics	Vacuum Extractor, Electric Type	
	· +		Defibrillator	+-'
3- 43	+	Ward (Pediatrics) Ward (Infant)		
3- 45	$\downarrow 0$		Phototherapy Unit	
3-46		Ward	Electrocardiograph Machine, 3-ch.	+
3- 48		Theatre	Anaesthetic Machine with Ventilator	-
3- 50		Theatre	Laparoscope	
3- 51		Theatre	Patient Warmer (Theater)	
3- 52		Theatre(Gyn.)	Colposcope	-
3- 54		Theatre(Urology)	Endoscopic Litnotripsy	
				-
3- 58		Obstetrics	Foetal Heart Doppler	
3- 55 3- 56		Theatre(Gyn.) Theatre(ENT) Obstetrics	Hysteroscope Drill (Mastiodctomies) Foetal Heart Doppler 2-73	

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No.	S.A.	Section	Description	Q'ty
Made				
3- 59		Obstetrics	Cardiotocograph (CTG), Fetal Use	2
3- 61	1 · · · · · · · · · · · · · · · · · · ·	OPD, Ward	Diagnostic Set, Wall Mounted Type	9
3- 62	0	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't
4-1	Ó	Mobil Clinic	Mobile Clinic Vehicle (4WD)	3
4-2	· · ·	X-Ray Dept.	Ultrasound Machine	2
4-3	5. ¹	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	
4- 10	0	Obstetrics	Infant Incubator	4
4-11		ICU	Ventilator, ICU	. <u>.</u>
4-13	0	Obstetrics	Infant Incubator, Portable	
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	<u></u> 1
4- 19		Theatre	Anaesthetic Machine	<u></u> 1
4-20	2	Theatre	Bedside Monitor	3
4- 22		Theatre	Ventilator, Paediatric	2
4-26		Theatre	Rebreathing Bag	2
4- 27		Theatre	Oxygen Cylinder for Anaesthesia Machine	<u>~</u> 1
4-29		Physiotherapy Dept.	Occupational Therapy Standing Table	
4- 30	0	Physiotherapy Dept.	Mat for Exercise	
431	0	Ward	Panel Screen (Three) Connected by Plastic Curtainscreen	5
4-32	0	Ward	Panel Screen Double Flame Resistant Curtain	5
4- 33	0	Ward	Panel Screen (Single) Flame Resistant Curtain	5
4- 34	0	Maintenance	Oxygen Cylinder Truck Twin Oxygen Cylinder Carrier	2
4-35		Gynecology Dept.	Cervical Operating Set	2
4-36		Orthopedic Dept.	Orthopedic Table	1
<u>4- 40</u>		Maintenance	Petrol Generator (5KVA)	1
4-41		Ward	Air Conditioner	14
4- 42		ICU	Bed for ICU	4
4- 43	O	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	0	Orthopedic Dept.	Traction Unit, Small	1
4- 50	0	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	0	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	<u>.</u> ***	Theatre	Endoscope	1
4-64		Obstetrics	Foetal Heart Doppler	2

No.	S.A. Made	Section	Description	Q'ty
4- 65	n an Saint na	Obstetrics	Vacuum Extractor, Electric Type & Manual Type	2
4-67	0	Ward	Bed, Adjustable, with Mat	4
4- 68	Õ	Ward	Bed with Frame and Mat	10
4-69	Õ	Ward	Visitors Stool, Under Bed Type	15
4-70	0	Ward	Infusion Pump, Drop Counter Type	6
4-71		Ward	Electrocardiograph, 1-ch.	3
4-72	0	Ward	Drug Cabinet	2
4-73	$\overline{\mathbf{O}}$	Ward	Urinal Cabinet	2
4-74	0	Ward	Cart (Medicine Trolley)	7
4-75		Theatre	Mayo Table	2
4-76	0	Theatre	Instrument Cabinet	4
4- 77	0	OPD, Ward	Weigh Scale with Height Measurement, Adult	2
4- 78	0	Ward	Bedpan and Urinal Rack, Wall Mounted Type	7
4-79	0	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	0	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