

# Budget Allocation for Periodical Preventive Maintenance of Medical Equipment and Infrastructure

Guidebook

Directorate of Policy Planning Ministry of Health Republic of Zambia Guidebook Budget Allocation for Periodical Preventive Maintenance of Medical Equipment and Infrastructure

March 2016

Ndeke House, Haile Selassie Avenue, Long Acres P.O.Box 30205. Lusaka Zambia Tel: +260-1-253040-45 Fax: +260-1-25330, 253026

Supported by Health Capital Investment Support Project Japan International Cooperation Agency (JICA)



If any inquires for the guidebook, please contact to: Chief Infrastructure Planner, Directorate of Policy and Planning Chief Medical Equipment Officer, Directorate of Clinical Care and Diagnostic Services

# Guidebook Budget Allocation for Periodical Preventive Maintenance of Medical Equipment and Infrastructure

# Table of contents

1.	In	ntroduction / background
2.	B	udget Formulation schedule
3.	Pe	eriodical Preventive Maintenance
4.	P	PM for Infrastructure
2	4.1.	Utility List and Site Map 4
2	4.2.	Monitoring Sheet of Hospital Infrastructure
2	4.3.	Hospital Round
2	4.4.	Priority Analysis 10
2	4.5.	Infrastructure Maintenance Plan 10
2	4.6.	Annual Plan11
5.	P	PM for Medical Equipment
ł	5.1.	Inventory of Medical Equipment12
ł	5.2.	Inventory Analysis
ł	5.3.	ME Development Plan (MDP)
ł	5.4.	Annual plan
6.	B	udget allocation in the District
7.	B	udget request for Provincial Health Office
8.	Fe	or the Practical Users

Annex:

Forms

#### 1. Introduction / background

Japan International Cooperation Agency (JICA) under the government of Japan continuously supports effective health capital investment in Zambia through several projects; such as Health Facility Census and Health Capital Investment Project. In Health Capital Investment Support Project (2009 – 2011), medical equipment and infrastructure management system were established based on Medical Equipment Management guideline and Health Facility Management Guidelines. However, some challenges are remaining, especially adequate linkage between the management system and budget planning.

This handbook was developed for planning evidence based annual budget and MTEF of medical equipment and infrastructure utilizing the guidelines mentioned above.

Target readers of the handbook are person in-charge of medical equipment and infrastructure at District Health Office (DHO) and 1<sup>st</sup> level hospitals. The handbook describes how to develop a budget allocation plan for the maintenance of medical equipment and infrastructure at district level.

#### 2. Budget Formulation schedule

The budget planning activities are start from May to August. For the district hospital, Activity 2, 4, 5, 11, 13, 14, 15 and 16 are important. For the District Health Office, Activity 2, 3, 4, 5, 11, 17, 18, 19, 20, 21, and 22 are important.

This guidebook is utilized to review next year's departmental allocations and planning launch on Activity 13. For considering the maintenance budget on each department, annual action plan for maintenance which is developed based on the guidebook will be an evidence of the budget planning.

And the annual action plan for maintenance is also useful when the budget plan is submitting to District Health Management Team (DHMT) on Activity 15 and presenting the plan on Activity 16 as evidence. Table 1 Annual Planning Schedule

Activity	Timeline
1. MoH HQ gives PHOs information on financial ceilings, technical	1 <sup>st</sup> wk. May
planning guidelines and HMIS analysed data for the previous year.	
2. Provincial Health Office meets with DHMTs and hospitals to review	3rd wk. May
programme guidance and provide other updates (Step 1).	
3. DHMT meets with the District Health Advisory Committees to	4th wk. May
review the previous year's experiences and to obtain their inputs to the	
next year's plan (Step 2).	
4. DHMT meets with hospitals providing first level referral services to	4th wk. May
<u>negotiate bed purchase and agree on the terms of the Memorandums</u> <u>of Understanding (MoUs)</u> (Step 3).	
5. DHMT brief <u>first level hospitals</u> , health centre/health post	4th wk. May
in-charges on programme and any planning updates (Step 4).	
6. Health centres meet with community representatives to review	1st wk. Jun
achievements and problems and to brief on any updates.	
7. Community representatives meet with community to review	2nd wk. Jun
experiences, determine priorities and to agree on community actions.	
8. Community representatives meet with health centre staff to draft	2nd wk. Jun
community action plan.	
9. 2nd and 3rd level hospitals meet with their Health Advisory	2nd wk. Jun
Committees to review progress in the first half year and to receive	
their input to the next year's plan.	
10. <u>Hospitals form core planning teams which brief their</u>	2nd wk. Jun
Departmental Heads.	
11. DHMT meets with health centres, <u>hospitals</u> , health training	2nd wk. Jun
institutions and NGOs to draft plans (Step 5)	
12. Health centres meet with community representatives to provide	3rd wk. Jun
feedback on the projected budget and final community action plan.	(1) 1 T
13. <u>Core hospital planning team meets Departmental Heads to review</u>	4th wk. Jun
next year's departmental allocations and <b>planning launch</b> .	1.4 1 1 1
14. <u>Hospital departments draft their plans and submit to hospital core</u>	1st wk. Jul
planning team.	1 of mile T1
15. 2nd and 3rd level hospitals present plan to the Hospital Advisory	1st wk. Jul
Committee; and first level hospitals submit completed plan to DHMT.	and total
16. 2nd and 3rd level hospitals present their plans to the Provincial	2nd wk. Jul
Office; first level hospitals present their plans to their DHMT.	

Activity	Timeline
17. DHMT drafts the district health office plan (training, supervision,	2nd wk. Jul
advisory committee expenses, epidemic preparedness, etc. (Step 6).	
18. DHMT consolidates district action plan and budget (Step 7).	3th wk. Jul
19. DHMT presents and defends the District Health Plan and budget	4th wk. Jul
to the Health Advisory Committee and District Development	
Coordinating Committee (Step 8).	
20. DHMT submits the District Action Plan to the District	1st wk. Aug
Commissioner.	
21. DHMT submits the District Action Plan to the PHO (Step 9).	1st wk. Aug
22. PHO reviews District, Training Institutions, 2nd and 3rd level	2nd wk. Aug
hospital plans and institutions revise/finalise their plans and resubmit	
to PHO (Step 10).	
23. Provinces approve plans, sign MoUs and submit consolidated	3rd wk. Aug
copies of district, training institutions and 2nd and 3rd level hospital	
plans to MoH.	
24. MoH HQ consolidates and submits Health Sector plan and budget	2nd wk.
to MoFNP.	September

From ACTION PLANNING HANDBOOK FOR DISTRICT HEALTH TEAMS  $5^{\rm th}$  edition

#### 3. Periodical Preventive Maintenance

Although the management system of medical equipment and infrastructures includes several components, this handbook is mainly dealing with Periodical Preventive Maintenance (PPM) and action plan with budget allocation plan

PPM is preventive action based on periodical monitoring and checking of the condition of medical equipment and infrastructures. Corrective maintenance is the action taken when damaged equipment or facilities are identified. PPM aims at anticipating possible damages before they occur.

PPM procedures are described on following chapters.

#### 4. PPM for Infrastructure

#### 4.1. Utility List and Site Map

At first, the person in charge of infrastructure (generally, the Environmental Health Officer) checks the current condition of hospital utilities and edits a site map with building information (Form 1 and Form 2). If there is no name of the building block, EHO and management team shall give the name of the building block officially.

In terms of utilizing "Google Earth", internal usages, such as reports for the company, presentation, proposal and business documents, are possible. However even in such a case, it is always necessary to describe the right attribution of Google and the data provider.

This year's data must be revised based on last year's data, to include any updated information. Regarding rehabilitation data on Form 2, a column for this year's data was added and the data from 5 years ago was aggregated on one column

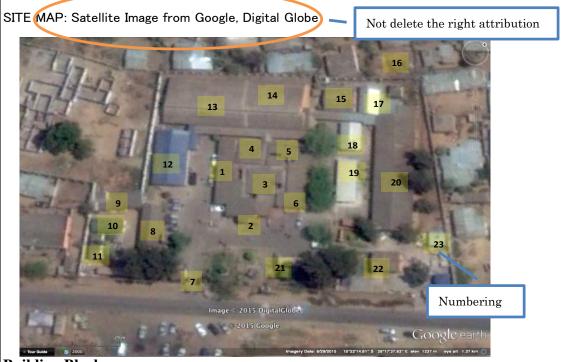
Infrastructure Monitoring sheet	2015	Char	nge the year						
Facility Code									
Facility Name	Chipata District Hospital	Province	Lusaka						
Facility Type	1st Level hospital	District	Lusaka						
Establisement Year									
Fill the number	Check prope	er item							
Main Power	■National Grid □Solar □Oth	er							
Generator: 1	Availability:  Yes ( Working	Not worki	ing ) $\Box$ No						
Water	Council Mains Supply Borehole :1								
Sewage	□Council sewer ■Septic tanks □	]Sewage	ponds						
Incinerator	Availability: ■Yes (■Working □]	Not worki	ing) □No						
Communication	□Land line □Cell phone ■HF	VHF rad	io						
Cost for Rehabilitation work Kwacha/ 2016									

Form 1

Fill the budget and actual amount if possible

#### 4.2. Monitoring Sheet of Hospital Infrastructure

Then, the names of rooms are put on the monitoring sheet (Form 3-1). Necessary rows for writing the names of rooms are added in building's lines. Last year's data is also utilized for this year (form3-2).



**Building Block** 

NoBuilding NameYear builtStorey before 2011Rehabilitation1Matron's office1982120122013201420152Screening room, Registration19821Next year Before 201220132014201520163Pharmacy, Treatment room19901Next year Before 201220132014201520164children,Dental19821Next year Before 201220132014201520165Labor atoryFill by building block1Next year Before 2012Toilet &Schower7Guardroom11Toilet &Schower8project office20001Fill place or activityX-ray, Ultrasound, TB office, 9 male circumulation room20001Fill place or activity10TB Shelter20111II11Store19861II13Impatient(General)19861II14Surgical ward / ART triage1986III15Laundry1IIII16Old incenerator1III17ART (Pharmacy, laboratory)1982III18ART shelter1III19Medicne Container1III20Mother and Child Health1982I </th <th>Buil</th> <th>ding Block</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Buil	ding Block								
1       Matron's office       1982       1       2012       2013       2014       2015         1       Matron's office       1982       1       Next year       Before       2012       2013       2014       2015         2       Screening room, Registration       1982       1       Next year       Before       2012       2013       2014       2015       2016         4       children,Dental       1982       1       Next year       Before       2012       2013       2014       2015       2016         5       Labor atory       Fill by building block       1982       1       Toilet       &       Schower         7       Guardroom       1       Image: Schower       Toilet       &       Schower       Toilet         8       project office       2000       1       Fill place or activity       Fill place or activity         X-ray, Ultrasound, TB office, 9       2000       1       Image: Schower       Image: Schower       Image: Schower         10       TB Shelter       2011       1       Image: Schower       Image: Schower       Image: Schower         13       Impatient(General)       1986       Image: Schower       Image: Schower </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Rehabili</td> <td>tation</td> <td></td> <td></td>							Rehabili	tation		
1       Matron's office       1982       1         2       Screening room, Registration       1982       1         3       Pharmacy, Treatment room       1990       1         Screening room for       1982       1       Next year         4       children,Dental       1982       1       2012       2013       2014       2015       2016         5       Laboratory       Fill by       1982       1       Collaboration       Collaboration       1       Collaboration       Coll	No	Building Name	Year built	Storey	before					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					2011	2012	2013	2014	2015	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	Matron's office	1982	1						
Streening room for       1990       1       Before       2012       2013       2014       2015       2016         Screening room for       1982       1       Before       2012       2013       2014       2015       2016         Screening room for       1982       1       Diversity       Screening room       1       Screening room       Toilet         Screening room       1       1       Screening room       1       Screening room       Toilet         Guardroom       1       1       Screening room       1       Screening room       Screening room         VCT, EHT Office,Zambart       2000       1       Fill place or activity       Screening room	2	Screening room, Registration	1982	1						
Screening room for       1982       1       2012       2013       2014       2015       2016         5       Laboratory       Fill by       1982       1       Image: Constraint of the second sec	3	Pharmacy, Treatment room	1990	1	•					
4       children,Dental         5       Laboratory       Fill by building block       1982       1         6       Labor ward       building block       1       Toilet &Shower         7       Guardroom       1       Toilet &Shower         7       Guardroom       1       Fill place or activity         VCT, EHT Office, Zambart project office       2000       1       Fill place or activity         X-ray, Ultrasound, TB office, 9       2000       1       Image: Comparison of the second		Screening room for	1092	1			014 90	15 901	c	
6       Labor ward       Fill by building block       1       Toilet &Shower         7       Guardroom       1       I       Experimentation of the second secon	4	children,Dental	1982	1	2012	2013 2	2014 20	015 201	0	
6       Labor ward       building block       1       Toilet & Shower         7       Guardroom       1       Image: Shower         7       Guardroom       1       Image: Shower         VCT, EHT Office,Zambart project office       2000       1       Fill place or activity         X-ray, Ultrasound, TB office, male circumulation room       2000       1       Image: Shower         10       TB Shelter       2011       1       Image: Shower         11       Store       1986       1       Image: Shower         12       Theater       1       Image: Shower       Image: Shower         13       Impatient(General)       1986       1       Image: Shower         14       Surgical ward / ART triage       1986       1       Image: Shower         15       Laundry       1       Image: Shower       Image: Shower         16       Old incenerator       1       Image: Shower       Image: Shower         18       ART shelter       1       Image: Shower       Image: Shower         19       Medicne Container       1       Image: Shower       Image: Shower         20       Mother and Child Health       1982       Image: Shower       Image: Shower	5	Laboratory Fill by	1982	1						
Image: blockImage: blockImage: blockImage: block7Guardroom11Image: blockVCT, EHT Office, Zambart project office20001Fill place or activityX-ray, Ultrasound, TB office, male circumulation room20001Image: block10TB Shelter20111Image: block10TB Shelter20111Image: block11Store19861Image: block12Theater1Image: blockImage: block13Impatient(General)19861Image: block14Surgical ward / ART triage1986Image: blockImage: block15Laundry1Image: blockImage: block16Old incenerator1Image: blockImage: block19Medicne Container1Image: blockImage: block20Mother and Child Health1982Image: blockImage: block21ART record store1Image: blockImage: block22Mortury1Image: blockImage: block	6	Labor ward building		1				(		
VCT, EHT Office,Zambart project office20001Fill place or activityX-ray, Ultrasound, TB office, male circumulation room20001II10TB Shelter20111II11Store19861II12Theater1III13Impatient(General)19861II14Surgical ward / ART triage19861II15Laundry1IIII16Old incenerator1III19Medicne Container1III20Mother and Child Health19821II21ART record store1III22Mortury1IIII	0	block		1					&Shower	r
8project office20001Fill place or activityX-ray, Ultrasound, TB office, 9 male circumulation room2000110TB Shelter2011111Store1986112Theater113Impatient(General)1986114Surgical ward / ART triage1986115Laundry116Old incenerator117ART (Pharmacy,laboratory)1982118ART shelter119Medicne Container120Mother and Child Health198221ART record store122Mortury1	7	Guardroom		1						
8project office200011X-ray, Ultrasound, TB office, male circumulation room20001110TB Shelter2011111Store1986112Theater1113Impatient(General)1986114Surgical ward / ART triage1986115Laundry1116Old incenerator1117ART (Pharmacy,laboratory)1982118ART shelter1119Medicne Container1120Mother and Child Health1982121ART record store1122Mortury11		VCT, EHT Office,Zambart	2000	1			T:11	1	,	
9       male circumulation room       2000       1       1         10       TB Shelter       2011       1       1         11       Store       1986       1       1         12       Theater       1       1       1         13       Impatient(General)       1986       1       1         14       Surgical ward / ART triage       1986       1       1         15       Laundry       1       1       1       1         16       Old incenerator       1       1       1       1         17       ART (Pharmacy,laboratory)       1982       1       1       1         18       ART shelter       1       1       1       1         20       Mother and Child Health       1982       1       1       1         21       ART record store       1       1       1       1         22       Mortury       1       1       1       1       1	8	project office	2000	1			Fill p	lace or a	ctivity	
9       male circumulation room       2000       1       1         10       TB Shelter       2011       1       1         11       Store       1986       1       1         12       Theater       1       1       1         13       Impatient(General)       1986       1       1         14       Surgical ward / ART triage       1986       1       1         15       Laundry       1       1       1       1         16       Old incenerator       1       1       1       1         17       ART (Pharmacy,laboratory)       1982       1       1       1         18       ART shelter       1       1       1       1         20       Mother and Child Health       1982       1       1       1         21       ART record store       1       1       1       1         22       Mortury       1       1       1       1       1		X-ray, Ultrasound, TB office,	2000	1						
11       Store       1986       1	9	•	2000	1						
12       Theater       1       1         13       Impatient(General)       1986       1         14       Surgical ward / ART triage       1986       1         15       Laundry       1       1         16       Old incenerator       1       1         17       ART (Pharmacy,laboratory)       1982       1         18       ART shelter       1       1         19       Medicne Container       1       1         20       Mother and Child Health       1982       1         21       ART record store       1       1         22       Mortury       1       1	10	TB Shelter	2011	1						
13       Impatient(General)       1986       1	11	Store	1986	1						
14Surgical ward / ART triage1986115Laundry1116Old incenerator1117ART (Pharmacy,laboratory)1982118ART shelter1119Medicne Container1120Mother and Child Health1982121ART record store1122Mortury11	12	Theater		1						
15Laundry1116Old incenerator1117ART (Pharmacy,laboratory)1982118ART shelter1119Medicne Container1120Mother and Child Health1982121ART record store1122Mortury11	13	Impatient(General)	1986	1						
16Old incenerator117ART (Pharmacy,laboratory)1982118ART shelter119Medicne Container120Mother and Child Health1982121ART record store122Mortury1	14	Surgical ward / ART triage	1986	1						
17ART (Pharmacy,laboratory)1982118ART shelter119Medicne Container120Mother and Child Health1982121ART record store122Mortury1	15	Laundry		1						
18ART shelter119Medicne Container120Mother and Child Health198221ART record store122Mortury1	16	Old incenerator		1						
19Medicne Container120Mother and Child Health1982121ART record store122Mortury1			1982	1						
20Mother and Child Health1982121ART record store122Mortury1				1						
21         ART record store         1         1           22         Mortury         1         1	19			1						
22         Mortury         1	20		1982	-						
	21	ART record store		1						
23 Incenerator 2014 1		Mortury		1						
	23	Incenerator	2014	1						

#### 4.3. Hospital Round

The person in charge of infrastructure is going around the hospital to check for infrastructure's damage or trouble and fill-in the monitoring sheet. Pictures of the damaged or troubled areas should be taken, especially when the problem is serious.

The condition of building structures is filled-in by building blocks. Regarding the foundation of the building, distortion of the outer wall and erosion of the land must be checked. If there is a crack on the outer wall, the possibility of a crack on the inner wall should also be checked. Regarding the roof condition, it has to be checked not only from outside but also from inside, removing the maintenance plates on the ceiling, especially in case of water leaking from the ceiling. The roof structure (beams) should be checked removing the maintenance plates on the ceiling and the joints to the outer wall.

Damaged utilities, such as electric outlet, water tap, shower, pipe, wash basin, are mentioned on the sheet and as well as any trouble situation such as leakage of electricity, water leakage, sewage clogging and so on.

Regarding the interior of the rooms, floor damage, such as peeling tiles, scraping surface, unevenness, distortion and cracks, wall damage, such as peeling, crack, ash, mold and dust, ceiling damage, such as hole, distortion, crack, mold, water leakage and peeling must be checked. The presence of bird's nests, beehives and ant's nests in the toe room must also be checked. Troubles on doors and windows must also be noted on the monitoring sheet.

Regarding cracks and leakages, the degree of damage must also be described (example; L=Large Damage, S=Small Damage). L means serious trouble and needs to be repaired as soon as possible. S means minor trouble and it is possible to look at the situation.

Serious troubles are pointed out by numbers on the sheet and the pictures of the numbering points are put on Infrastructure Monitoring Photo Sheet (Form 4)

## Form 3-1

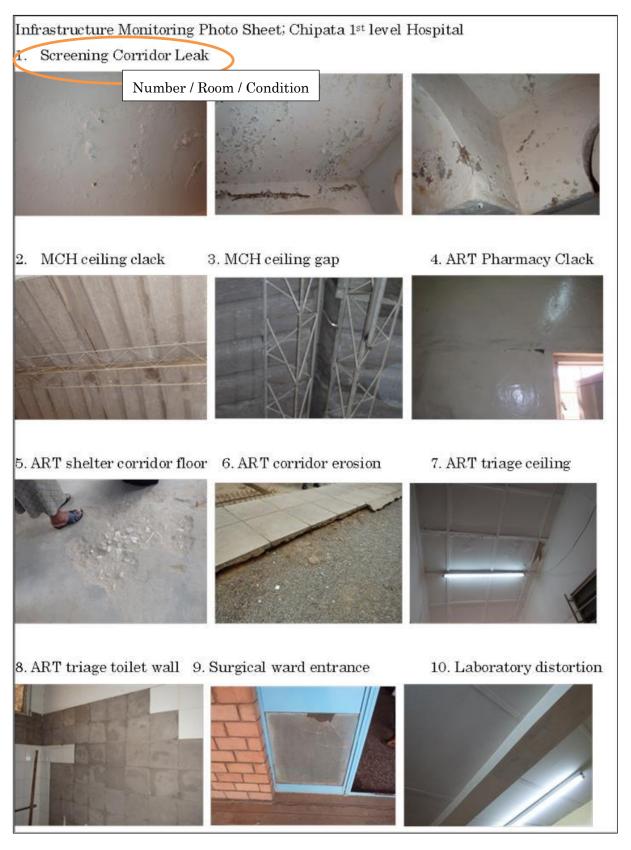
Monitiring She	et													
Name:	Chipat	a District Ho	spital		L= Large dai	mage and need	s repair soon							
Date:		-Oct-15		-	S= small dan	nage								
Surveyer:				-										
				-										
				Main St	ructure			Ut	ility			GF I	terior	
Building Name	Level	Room	Foundation	Wall	Roof	Roof Structure	Power	Water supply	Drainage	Sanitary	Floor	Wall	Ceiling	D/W
i mairon's once														
Screening room, 2 Registration														
Pharmacy, 3 Treatment room	Fro	m Form 5	2											
Screening room fo 4 children,Dental	×													
5 Laboratory														
6 Labor ward														
7 Guardroom														
VCT, EHT														
Office,Zambart 8 project office														
8 project office X-ray, Ultrasound	1.													
TB office, male														
9 circumulation room	n													
10 TB Shelter														
11 Store	-													
12 Theater	-													
13 Impatient(General Surgical ward /	0													
14 ART triage														
15 Laundry														
16 Old incenerator														
ART (Pharmacy, labora 17 ry)	to													
18 ART shelter														
19 Medicne Containe	er													
Mother and Child Health														
20 Health 21 ART record store	-		-					<u> </u>			<u> </u>			
21 ART record store 22 Mortury	-		+	+							+			
22 Mortury 23 Incenerator	<b>_</b>							-						
2.3 Incenerator		l	I	L	J		L	l	l	l	l	I		L

## Form 3-2

Мо	nitoring She	et													
Na	me:	Chipa	ata District H	ospital		L= Large da	mage and need	ls repair soon							
Dat	te:	10	6-Oct-15		_	S= small dar	nage								
Su	rveyor:														
	1		1		Main St	nucture		1	Lit	ility		1		GF Interior	
	Building Name	Level	Room	Foundation	Wall	Roof	Roof Structure	Power	Water	Drainage	Sanitary	Floor	Wall	Ceiling	D/W
1	Matron's office	1					Structure		supply						
		1	Screening room			1	1								
2	Screening room,	1	Toilet	Fill r	oom's r	name									
	Registration	1	registry	and l											
•	Pharmacy,	1	Pharmacy	and I	ever										
3	Treatment room	1	Treatment room				,								
	Screening room for	1	Screening room for children												
4	children,Dental	1	Dental												
		1	Corridor												
5	Laboratory	1													
		1	Postnatal ward												
		1	Checking room				L Ad	ld line	s 🖂						
6	Labor ward	1	Delivery room												
		1	Sluice												
		1	Corridor												
7	Guardroom	1													
_	VCT, EHT Office,Zambart	1	VCT office												
8	project office	1	EHT office												
	Fragers	1	Zambat project office												
		1	X-ray room												
	X-ray, Ultrasound,	1	Ultrasound			1		1			1				
9	TB office, male	1	TB office												
	circumulation room	1	Male Circumcision room												
10	TB Shelter	1	r sem	V		1		1		1	1				
11	Store	1													

In Large damage and treach repair som	Ň	Monitoring Sheet	et													
Builty Num         Eventue         Auto Num         Matrix Num         Chinkin         Chinkin         Contract           Menolosidie         1         Long         Num         Key         Nation         Nati	Na Sur	me: te: rveyor:	Chip 1	ata District Ho 6-Oct-15	ospital		L= Large dar S= small dam	nage and need age	ls repair soon							
Butik Dirik         Less         Notation of state         Current of state <t< td=""><td></td><td></td><td></td><td></td><td></td><td>10 - TV</td><td></td><td></td><td></td><td>541 F</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>						10 - TV				541 F						
		Building Name	Level		Foundation	Wall St	Roof	Roof	Power	Water	Luty Draina ee	Sanitarv	Floor		Ceilino	M/C
	-	Matron's office	-					Structure		supply	0	,			0	
			-	Screening room												D/W broken
webender         1         petrode         Enderty         Rold (4)         Enderty         E	2	Screening room,	-	Toilet						Loose tap						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		kegistrauon	-	registry			S hole							Peel paint Mold 14		Two W/glass missing
	°	Pharmacy,	-	Pharmacy						M	lark Yello	w		L clack 12		
	°,	Treatment room	-	Treatment room			Fill condit	tion		aı	od numbε	ring			Distortion 13	W/broken
				Screening room for children		]				ss ds	ame as ph reet		Rain invade from floor 21			
	4	Screening room for children, Dental		Dental									Rain invade from floor	L clack 20		
			-	Corridor			<mark>Leack 1</mark>									
I       Destrutation       I       Destrutation       Solution       Solution       Solution         I       Checking room       I       Checking room       I       Checking room       Solution       Solution       Solution         I       Checking room       I       Delivery room       I       Solution       Solution       Solution         I       Solution       I       Solution       I       Solution       I       Solution	5	Laboratory	-							Loose tap				S clack,	Distortion 10	
			-	Postnatal ward										S clack		Fly screen broken
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			-	Checking room										S clack		
	9	Labor ward	-	Delivery room										S clack		Fly screen broken W/warp
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			-	Sluice							Water leak					
			-	Corridor										Peel paint	Leak 11	
VCT, EHT       1       VCT office       Floorboards         VCT, EHT       1       EHT office       Poel         Office,Zambatt       1       EHT office       Poel         project office       1       EHT office       No light       Poel         Y-ray. Ultrasound       1       Zambat project       No light       Poel       Poel         X-ray. Ultrasound       1       Ultrasound       No light       Poel       Poel       Poel         X-ray. Ultrasound       1       Ultrasound       Poel       Poel       Poel       Poel       Poel         TB office       1       Ultrasound       Poel       Poel       Poel       Poel       Poel       Poel         TB office       1       Ultrasound       Poel	7	Guardroom	-													W/broken
		VCT, EHT	-	VCT office									boards	S clack		
	ω	Office,Zambart project office	-	EHT office					No light				Floorboards peel 16			
Integration			-	Zambat project office					No light							
X-ray. Ultrasound     1     Ultrasound     Ventilator       TB office. make     1     TB office     Ventilator       TB office. make     1     TB office     Ventilator       Increase     Ventilator     Ventilator       Increase     Ventilator     Ventilator			-	X-ray room										L clack 17		
TB office. male 1 TB office Ventilator circumulation room Male		X-ray, Ultrasound,	-	Ultrasound								Ventilator broken				
Male Circumcision	6	TB office, male		TB office								Ventilator broken		L clack 18		
		circumution room		Male Circumcision room										S clack		

## Form 3-3



#### 4.4. Priority Analysis

Based on the results of monitoring (hospital round), the places to repair will be prioritized. First of all, the places to be repaired in the next three years must be selected and prioritized the locations to be repaired from among them (Form 5). The form is also utilized for infrastructure maintenance plan on MTEF.

For example, the degree of priority is considerable in the following situations:

- A problem which has already caused the enormous damages to the structure of the building and for which immediate measures are implemented. The absence of measures will cause the roof and walls to collapse.
- A trouble which restricts the provision of a necessary service to the department.
- A problem affecting a department which should be maintained preferentially

			_
cture Maintenance	e Plan		
<u>г</u>	I		
Building Name	Room	Condition	
			High Priority
			Low Priority
	Building Name Building Name	Image: select	Building NameRoomConditionImage: ConditionImage: Condition

#### Form-5

#### 4.5. Infrastructure Maintenance Plan

Actual repair methods and procedures should be considered for prioritized troubles (Form 6). It is possible to confirm the repair methods to ask the maintenance companies and also to request the estimation of the cost of the repair if necessary.

#### Form 6

Infrastru	cture Maintenance	e Plan							
Priority	Building Name	Room	Condition	Repair method	Repair period	Constrains	Alternati	ves against Constrain	Remarks
1									
2								1	
3						These Co	lumn		
4					Auu		iuiiii		
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

## 4.6. Annual Plan

Annual action plan for infrastructure maintenance is completed on Form 6 with cost data (Form7). Annual action has to be segregated works by the district and request to Provincial Health Office on the plan.

Infrastru	cture Maintenance	e Annual P	lan					Ad	d This Column	
Priority	Building Name	Room	Condition	Repair method	Repair period	Constrains	Alternatives against Constra	in	Estimated Cost	Remarks
1										
2										
3								_		
4										
5										
6								_		
7								_		
8								_		
9								_		
10								_		
11								_		
12								_		
13								_		
14										
15										
16										
17										'

#### 5. PPM for Medical Equipment

#### 5.1. Inventory of Medical Equipment

The person in charge of medical equipment (generally, medical equipment technician) checks the conditions of all of the medical equipment in the hospital using the inventory form of medical equipment guidelines (Form 8). The inventory of the medical equipment is organized at each department. It is possible to use the previous collected data if there is no updated equipment. If there are any updated data, the inventory shall be revised. The inventory shall be saved as an electronic file, and the person in charge can use it to print out when necessary.

Form 8

Equipment Invente	ory Checksheet (Hospi	tals)			Checked by	:													
			Facility Code :			Day/l h /Ye		Sheet o	of :			/			(6	e.g. 1/1	2)		
Operation Theatre Resusit Major Surgery Suction Suction						Year	ar	Man (Mark availa	(x), if	(Ma	ark (x)	nditio for aj tatus.)	pplica	ble	F	reque	ncy of	usage	y No.
	Item (Equipment name)	Manufacture	Model	Serial No.	Country	Manufacturing Ye	Commission Year	Service Manual	Operation Manual	Working	Minor repairer	Major repairer	Not working	Uncommissioned	Everyday	Few times per week	Few times per month	Not used (Choose the reasons from the list in the instruction.)	Temporary Inventory GRZ ID #
	Resusitator	Drager	Air Shields Resusiataire RW82-1C	EG05433	USA	2011			x	x						x			
	Suction Machine	-	Blue	-	-	-		x	x	x					x				
	Suction Machine	-	Electric Suction Apparatus	-	-	-			x	x					x				
	Examination Light	-	YD01A	-	-	-			x	x					x				

#### 5.1.1 Steps to Update the Inventory:

Medical equipment technician will also collect the following data in addition to the daily works.

- (1) To register newly purchased equipment on the <u>Equipment Acceptance record</u> (Form 9) at the time the new equipment has arrived at the hospital.
- (2) To update the inventory sheet when the equipment is maintained or repaired.
- (3) To update the inventory sheet when the equipment is discarded.

Form 9-1

## **Equipment Acceptance Record**

Date	e of Acceptance	8TH MAY,2015	
Equi	pment Information		
(1)	Equipment name	INFANT INCUBATOR	
(2)	Model name	BB - 100	
(3)	Serial number	2120322178	
(4)	Manufacturing date	MARCH 3,2015	
(5)	Actual or estimated cost	US DOLLAR 12,000	
Man	ufacturer's information		
(1)	Manufacturer name	DISON INFANT CARE	
(2)	Supplier name	ASIAN MEDICALS	
(3)	Contact of Suppler	0978170XXX	
(4)	Name of person	MR. GUPTA SANDEP	
(5)	Telephone	978170563	
Doc	uments		
(1)	Operation manual	Yes      No, Type:      Hard copy      CD / soft c	ору
(2)	Service manual	□ Yes □ No, Type: □ Hard copy □ CD / soft c	ору
(3)	Other documents (Including Main	tenance Service Contract and Insurance Documents)	
	WARRANTY FOR ONE YEAR	Type: 🛛 Hard copy 🗍 CI	O / soft copy
		Type: 🛛 Hard copy 🗍 CI	O / soft copy
		Type: I Hard copy I CI	D / soft copy
Com	position		
No.		Name	Q'ty
Acce	essories		
No.		Name	Q'ty
1	FUSES		6
2	FILTERS (SMALL PIECES)		2

## Form 9-2

Requ	ired maintenance work	Frequency
FILTER CLEANING		1/W
umables		I
Name of consumable	Consumed per / Need to	replace every
NONE		
parts		I
Name of spare parts	Parts number, Note f	or replacement
FILTERS (SMALL PIECES)	541-0021	1/6M
	FILTER CLEANING Imables Imables None Parts Name of spare parts Name of spare parts	Imables Name of consumable NONE  parts Name of spare parts Parts number, Note fe

#### 5.1.2 Formal Update of the Inventory

The inventory updates are prospected twice a year and are implemented before the Equipment Development Plan is created. The inventory data is utilized for developing the Equipment Development Plan.

#### 5.2. Inventory Analysis

Based on the revised inventory form (see above), the medical equipment which needs consumables and spare parts must be identified and the selected consumables and spare parts are filled on <u>Consumables Planning Form</u> (Form 10) and <u>Spare parts Planning Form</u> (Form11). Also, if there is new registered equipment, a new purchase equipment registration sheet will refer to the lists filled.

#### Form 10

Con	sumables pla	nning form										
	-									1-every day		
Nam	ne of facility	District Hospita	1						2-few t	imes per week		
Date	e of draft	12/17/11			1 - Not functi	oning			3- few tir	nes per month		
Dep	artment	MCH			2 - Working p	roperly			4-few	times per year		
No.	Equipment name	Manufacturer	Model	S/No.	Equipmen t condition	Name of consumables	Reference No. if any	Usage (quantity) per year	Required quantity	Frequency of usage	Estimated unit cost	Estimated total cost/year
1	Fridge	Dometic	RCW50EK	705011	1	wick	Size 32	10	10	1	K95	K950
						burner	Size 32	1	1	1	K750	K750
						blow glass	Size 32	2	2	1	K350	K700
2	BP Machine				1	Batteries	Double A	4 pairs	4pairs	1	K15	K60
3	Thermometers				1	Batteries	SG 6	6	6	1	K15	K90
	TOTAL											K2,550

Spai	e parts plann	ing form										
										1-every day		
Nan	ne of facility	District Hospita	1						2-few t	imes per week		
Date	e of draft	1 15/11/2015			1 - Not functi	oning			3- few tir	nes per month		
Dep	artment	Laboratory			2 - Working p	roperly			4-few	times per year		
No.	Equipment name	Manufacturer	Model	S/No.	Equipme nt condition	Name of spare parts	Reference No. if any	Required quantity	Date of trouble	Frequency of usage	Estimated unit cost	Estimated total cost/year
1	Microscopy	Olympus optica	CX32RBSF		1	Solar battery	N70	1	May-15	1	K950	K950
						Regulator	20 amps	1	May-15	1	K450	K450
						Inventor	300W	1	May-15	1	K550	K550
	TOTAL											K1,950

#### 5.3. ME Development Plan (MDP)

#### 5.3.1 Development of MDP

Based on comparing the inventory and the standard equipment list, procurement for shortage equipment is prioritized on MDP (Form 12). MDP shall be developed including the consideration of the following information on the inventory.

- (1) Equipment which is required for the provision of a necessary service
- (2) Equipment which is difficult to repair and which can only be replaced by a new one
- (3) Equipment which maintenance service has expired and which needs additional purchase of the equipment

It is necessary to evaluate whether the selected equipment should be purchased this year or on the medium or long-term budget plan.

#### Form 12

Medical E	quipment Developi	ing Plan Plannir	ng Sheet											
Name of H Date of D		District Hospi Apr-12					Short terr	n : 1 year ong term : 3-5	Vears					
			Informat	on				l team advice			Co	st for action		
No.	Equipment name	Model	Manufacturer	S/No.	Condition of equipment	Commissio- ning year (estimate)	Short term action required?	Middle term action required?	Cost of short term action	Contents of action	Expected source of funds		Contents of action	Expected source of funds
1	Analyser	Nova 5		No5599350	Not working			Replacement					Obsolate	GRZ
2	Calorimeter	Bilread		4N530	Not working			Replacement					Obsolate	GRZ
3	Autoclave	EAC2300		9510024	Not working			Replacement				10,000,000	No spares	GRZ
4	Centrifuge			1014				Replacement				8,000,000	Obsolate	GRZ
5	Oxygen concentrator	Newlife			Not working			Replacement				11,000,000	Obsolate	GRZ

#### 5.3.2 Budget estimation based on MDP

Budget for medical equipment shall be comprehensively estimated based on following information.

- (1) Price of Main body of equipment
- (2) Price of Accessories

Accessories, manuals, consumables, spare parts, training fee, etc.

(3) Transportation cost

Package cost, land transportation, sea transportation, customs clearance, taxation, etc.

- (4) Installation cost
- (5) Maintenance fee

Maintenance contract, service charge, etc.

#### 5.3.3 Budget formulation of replacement of equipment

All medical equipment has a life span, and it depends on the type of equipment. For example, it is around 5 years for the patient monitor, around 10 years for the aspirator, around 15 years for the operating table and around 20 years for the generator. Since it is difficult to repair equipment that exceeded their life span, there is sometimes no other alternative than to replace the equipment.

Annual cost of equipment replacement is estimated as follows.

The replacement budget is

 $\frac{Equipment\ stock\ value}{Equipment\ life\ time} = Replacement\ budget\ required\ each\ year$ 

Examples:

A) Assume- Our Equipment Stock Value (Current Equipment on Our Inventory is

ZMW 500,000.00

Assume- All equipment had only a life of 1 year

Then we would need ZMW 500,000.00 each year to replace our equipment.

B) But- if the life of the equipment is in fact 5 years

Assume- the equipment will NOT all reach the end of its life at the same time So then- We can spread our replacement budget over equipment lifetime as follows:

Replacement budget each year = 
$$\frac{Value \ of \ stock}{Lifetime}$$
  
e.g. Replacement Budget per Annum =  $\frac{ZMW \ 500,000.00}{5 \ year}$  = ZMW 100,000.00 per Annum,

Given however that, our stock will actually be made up of different types of equipment, with different life-times; some 5 years, so 10 years, some 15 years and some 20 years. Based on such lifetimes an average life time is often taken to be 10 years thus a rough estimate of the replacement budget will be the <u>10% of the equipment stock value</u> each year.

To make more exact estimates, it will be necessary to be more specific and undertake calculations for each different type of equipment.

Equipment can reach its end of life within a short time if it is poorly maintained hence maintenance enhances the value for money spent on equipment, the replacement budget per annum is closely related to the budget you must spend for maintenance to avert or post-pond replacement.

#### 5.4. Annual plan

Annual action plan for medical equipment maintenance is developed on (Form13). Annual action has to be segregated works by the district and request to Provincial Health Office on the plan.

#### Form 13

Action Plan for Medical equioment Maintenance

Name of facility :

No.	Department / HC / HP	Equipment	Consumables / spare parts	Quantity	Unit cost (estimate)	Total cost (estimate)	Required due date	Note
1	Lab	Olympus Optical	Solar battery	1	950	950	2M	
2			Requlator	1	450	450	2M	
3			Invertor	1	550	550	2M	
	TOTAL					1950		

#### 5.5. Decommissioning

Based on the inventory analysis, the hospital contacts to the board of survey from the Ministry of Transport, Works, Supply and Communications (MTWSC) for the decommission list. Relevant authorities should be notified of this activity. Decommissioning will be implemented by following procedure:

- (1) List up decommissioning items
- (2) Submit the proposal of decommission to regional MTWSC.
- (3) MTWSC acknowledges the proposal and decide the schedule of survey mission.
- (4) Survey mission confirms decommissioning equipment item by item.
- (5) MTWSC sends Approval letter of decommission with BOD number.

#### 6. Budget allocation in the District

Annual action plans for infrastructure and medical equipment are referred to Action Plan of the district hospital. Even though the annual plan of the hospital shall be developed based on the prioritized component in the hospital, minimal budget allocation for the maintenance of infrastructure and medical equipment shall be secured utilizing the annual action plans with harmonizing to the other budget components as much as possible. Though the budget of the district hospitals are finally designated by District Health Office (DHO) as a part of the budget of the district health, the management team of the district hospital has to discuss to DHO to secure necessary budget allocation for infrastructure and medical equipment on Budget Planning Activity 16 (Table 1).

#### 7. Budget request for Provincial Health Office

Maintenance activities which is not able to be dealt by the district hospital and DHO; such as purchasing new medical device, construction of building and so on, shall be requested to Provincial Health Office (PHO). Even though requesting the activities to PHO, annual action plan has to be utilized for evidence based budget planning of PHO. Since the budget of PHO will be fixed before developing the budget of DHO, the management team of the district hospitals and DHO shall discuss the request for maintenance activities to PHO in the provincial budget launch between 3<sup>rd</sup> weeks of May (Activity 2).

#### 8. For the Practical Users

As mentioned, the purpose of the guidebook is to secure the necessary budget of maintenance for infrastructure and medical equipment. The book is guiding how to summarize the evidences to convince the hospital management team necessity of the budget allocation for the maintenance. Filling the forms on the Guidebook is not important. The most important matter on the guidebook is description of evidence based budget plan to secure the budget allocation. You, Medical equipment technicians and Environmental health officers, understand the troubles on the infrastructure and medical equipment through daily maintenance work. However the other hospital staff does not know how severe the trouble is like you, and then you has to explain the conditions properly with proper tools for explanation. The guidebook is not only supporting to your effort for budget collection of maintaining infrastructure and medical equipment but also reducing unnecessary your work burden for budget issues in the maintenance. We hope you to utilize the guidebook for good maintenance work.

Infrastructure Monitoring sheet	Year	
Facility Code		
Facility Name		Province
Facility Type		District
Establisement Year		
Utility		
Main Power	$\Box$ National Grid $\Box$ Solar $\Box$ Oth	ler
Generator:	Availability $\Box$ Yes ( $\Box$ Working $\Box$ N	lot working ) $\Box$ No
Water	□Council Mains Supply □Borel	nole :
Sewage	□Council sewer □Septic tanks □	Sewage ponds
Incinerator	Availability: 🗆 Yes (□Working □	Not working ) $\Box$ No
Communication	$\Box$ Land line $\Box$ Cell phone $\Box$ HI	F/VHF radio
Cost for Rehabilitation worl	5	Kwacha/

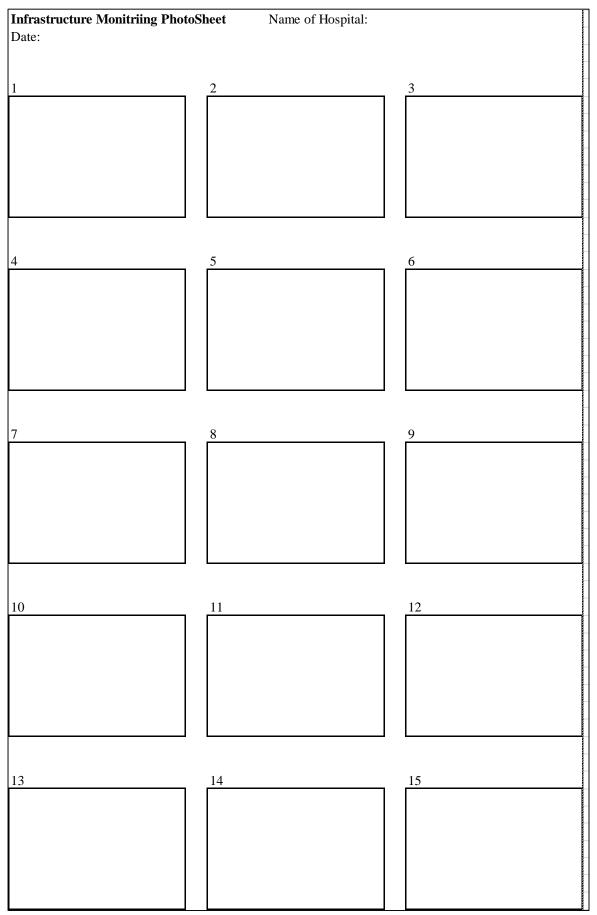
Form 2

SITE MAP: Satellite Image from Google, Digital Globe

# 1 2 3 4 5 6 7 8 9 10

Buildi	ng Block							
					R	Rehabilit	ation	_
No	Building Name	Year built	Storey	before 20	20	20	20	20
1								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

ž	<b>Monitiring Sheet</b>	يد													
2					<u> </u>	T = T arreadon	and and and								
Za Da	Name: Date:					L= Large damage S= small damage	L= Large damage and needs repair soon S= small damage	repair soon							
ů ř	Surveyer.						20								
5					_										
					Main Structure	ucture			Utility	lity			GF Interior	terior	
	Building Name	Level	Room	Foundation	Wall	Roof	Roof Structure	Power	Water supply	Drainage	Sanitary	Floor	Wall	Ceiling	D/W
-															
2															
3															
4															
5															
6															
7															
8															
6															
10															
11															
12															
13															
14															
15															



## Infrastructure Maintenance Plan

Priority	Building Name	Room	Condition
Fliolity	Dunung Name	ROOIII	Condition
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Infrastru	Infrastructure Maintenance Plan	e Plan						
Priority	Priority Building Name	Room	Condition	Repair method Repair period	Repair period	Constrains	Alternatives against Constrain Remarks	Remarks
1								
2								
3								
4								
5								
9								
L								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Infrastructure Maintenance Annual Plan	nance Annual	Plan					[]
Priority Building Name	me Room	Condition	Repair method Repair period	Constrains	Alternatives against Constrain	Estimated Cost Remarks	Remarks
1							
2							
3							
4							
5							
9							
7							
8							
6							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19				 			
20				 			

# Temporary Inventory No.Frequency of usage from the list in the instruction.) Not used (Choose the reasons Few times per month (e.g. 1/12) Few times per week Елегудау DanoissimmoonU Condition (Mark (x) for applicable status.) Not working Major repairer -Minor repairer Working Operation Manual Manuals (Mark (x), if available.) Sheet of : Service Manual Day/Month /Year Commission Year Manufacturing Year Checked by : Country Serial No. Facility Code Model Manufacture Equipment Inventory Checksheet (Hospitals) Item (Equipment name) Facility Name : Department

## Annex. Form 8 Medical Equipment Inventory Check sheet for Hospitals

Form 9	Equipment A	Acceptance	Record	(1)
--------	-------------	------------	--------	-----

Date of Acce	ptance									
Equipment In	oformation									
(1) Equipm	ent name									
(2) Model n	ame									
(3) Serial nu	umber									
(4) Manufa	cturing date									
(5) Actual of	or estimated cost									
Manufacture	r's information									
(1) Manufa	cturer name									
(2) Supplier	name									
(3) Contact	of Suppler									
(4) Name of	f person									
(5) Telepho	ne									
Documents										
(1) Operation	on manual	□Yes	🗆 No,	Туре: [	Hard copy	$\Box$ CD /	soft copy			
(2) Service	manual	□Yes	🗆 No,	Туре: [	Hard copy	$\Box$ CD /	soft copy			
(3) Other de	ocuments									
				Туре	$: \Box$ Hard co	ору 🗆 С	D / soft copy			
				Type: $\Box$ Hard copy $\Box$ CD / soft copy						
				Туре	$: \Box$ Hard co	ору 🗆 С	D / soft copy			
Composition										
No.		Nan	ne				Q'ty			
Accessories										
No.		Nan	ne				Q'ty			

Mainte	nance instruction								
No.	No. Required maintenance work								
Consur	nables								
No.	Name of consumable	Consumed per / Need to replace even							
Spare p	parts								
No.	Name of spare parts Parts number, Note for								

		ler 1							
		Re-order level							
		Estimated total cost/year							
ber week	per month per year	Estimated unit cost							
1-every day 2-few times per week	<ul><li>3- few times per month</li><li>4-few times per year</li></ul>	Frequency of usage							
- 0		Required quantity							
		Usage (quantity) per year							
		Reference No. if any							
	ning operly	Name of consumables							
	<ol> <li>1 - Not functioning</li> <li>2 - Working properly</li> </ol>	Equipment condition 6							
	- 7								
		Model S/No.				 			
		Equipment name Manufacturer							
Consumables planning form	Name of facility : Date of draft :	No. Department/HC/HP							
Consur	Name ( Date of	No. J							

		-			 	 	 	 		 	
			Re-order level								
			Estimated unit cost cost/year								
ber week	per month	per year	Estimated unit cost								
1-every day 2-few times per week	3- few times per month	4-few times per year	Frequency of usage								
- (1	(,)	4	Date of trouble								
			Required quantity								
		2 - Working properly	Reference No. if any								
	ning		Name of spare parts								
	1 - Not functioning		Equipment condition								
	1		S/No.								
			odel S								
			rer M			 					
			Manufacturer Model								
Spare parts planning form			Equipment name								
	Name of facility :	Date of draft :	Department/ HC/HP								
Spare	Name	Date (	No.								

				sted e of ls									
			action	Expected source or funds									
		MC	Middle term action	t decided Expected by funds MEMC									
		by ME	Mi	Cost									
		Judgement by MEMC	ction	Expected source of Cost funds									
		J	Short term action	Action decided by MEMC									
			S	Cost									
-2 years	Middle/long term : 3-5 years	on of the second		Middle term action									
Short term : 1-2 years	Middle/long te	Tachnical t	Technical team advice	Short term action									
				Commissioni ng year (estimate)									
			lent	Condition of equipment									
		aont.		S/No.									
		of Doning	idinha io	Model									
		Information	Information of Equipment	Information	Information	Information	Manufacturer						
Name of facility : Data of droft .				Equipment name									
	Date of draft :				Department/H Equipment C/HP name								
Name	Date o			No.									

Medical Equipment Developing Plan planning sheet

19		1						
	Note							
	Required due date							
	Total cost (estimate)							
	Unit cost (estimate)							
	Quantity							
	Consumables / spare parts							
	Equipment							
Name of facility :	Department / HC / HP							
Nam	No.							

Action Plan for Medical equioment Maintenance

# Annex.

Form 13

# **Annex 1: Equipment Standards Guidelines**

# Standard Equipment For Health Post

STANDARD EQUIPMEN	T FOR HEALTH POST

Items	Method to calculate adequate quantity for HP with qualified staff (CO, nurse or EHT)	Priority Ranking
Screening room and pre-and postnatal room		
Ambu bag for adults (resuscitator)	1 per HP	5
Ambu bag for children (resuscitator)	1 per HP	5
Autoclave, electrical, small (if electricity available)	1 per HP	5
Autoclave, non-electrical, 39 litres (if no electricity)	1 per HP	5
Bed-side screen	2 per HP	4
BP machine, adult	1 per HP	5
Chair for consulting staff	1 per HP	5
Chair for patient	2 per HP	5
Desk for consulting staff	1 per HP	5
Drainage set	1 per HP	5
Dressing set	1 per HP	5
Dressing tray	1 per HP	5
Ear syinge	1 per HP	3
Equipment cabinet	1 per HP	3
Examination couch without leg holders	1 per HP	5
Examination light	1 at HP with electricity or suitable solar energy supply	4
Gallipots, large	2 in addition to sets	3
Gallipots, medium	2 in addition to sets	5
Hospital bed, health centre/health post model	1 for observation	5
Indicator, TST control spot, pac 300	1 per HP	5
Instrument tray, large	1 per HP	3
Instrument tray, medium	1 per HP	5
Instrument trolley	1 per HP	2
Kidney dish, large	1 in addition to sets	3
Kidney dish, medium	1 in addition to sets	5
Meter, arm circumference	1 per HP	4
Otoscope set in case	1 per HP	4
Salter scale	1 per HP	5
Sterilising drum, small	1 per HP	5
Stethoscope	1 per HP	5

Items	Method to calculate adequate quantity for HP with qualified staff (CO, nurse or EHT)	Priority Ranking
Stove, kerosene, single burner	1 per HP	5
Stretcher, folding type	1 per HP	3
Suction pump, foot operated	1 per HP	5
Suturing set	1 per HP	5
Thermometer jar	1 per HP	3
Thermometer, digital	1 per HP	5
Timer, 60 min	1 per HP	5
Torch, medical, pen-sized	1 per HP	5
Vaginal speculum, large	2 per HP	4
Vaginal speculum, medium	2 per HP	5
Vaginal speculum, small	2 per HP	3
Wastebin with lid	3 per HP	3
Weighing scale, adult	1 per HP	5
Weighing trousers	5 per salter scale (because they are sold this way only)	5
Equipment specifically for delivery room		
Bed pan	2 per HP	3
Bowl, lotion, large	1 per HP	4
Bowl, lotion, medium	2 per HP	5
Bowl, lotion, small	1 per HP	3
Bucket, stainless steel	1 per HP	4
Delivery bed	2 per HP	5
Drip stand	1 per HP	5
Footstool, one-step	2 per HP	4
Stethoscope, foetal, Pinard	1 per HP	5
Vaginal delivery/episiotomy set	2 per HP	5
Wall clock	1 per HP	5
Weighing scale, infant, beam type	1 per HP	5
Equipment specifically for ante-/postnatal room		
Bed-side cabinet (locker), health centre/health post model	1 per bed	3
Hospital bed bednet, treated	1 per bed	3
Hospital bed, health centre/health post model, with mattress	2 for ante/postnatal room	5
Infant cot bednet, treated	1 per cot	3
Infant cot with mattress	1 per post-natal bed	3
Pharmacy		
20 ml medicine cup	1 per HP	3

# STANDARD EQUIPMENT FOR HEALTH POST

Items	Method to calculate adequate quantity for HP with qualified staff (CO, nurse or EHT)	Priority Ranking
Lockable drug cabinet	1 per HP	4
Refrigerator for vaccines	1 per HP	5
Vaccine carrier	1 per HP	5
Vaccine coldbox	1 per HP	5
Laboratory equipment		
Glucometer	1 per HP	5
Haemoglobinometer	1 per HP	5
Rapid Diagnostic Test kit for malaria		5
RPR shaker, electric if possible	1 per HP	5
Environmental health equipment		
Bucket for mixing chemicals	3 per HP	5
Food and water sample box	1 per HP	5
Lovibond Comparator	1 per HP	5
Measuring jar	3 per HP	5
Meat inspection kit	1 per HP	5
Personal Protective Equipment	1 per staff involved in EH activities	5
Rodent control apparatus	1 per HP	3
Squirt gun	1 per HP	5
Tape measure	1 per HP	5
Vector control sprayer	1 per HP	5
Water level meter	1 per HP	5
Miscellaneous equipment		
Camping equipment set	1 per HP	5
Fire extinguisher	1 per HP	2
Health Post solar power supply system for light, cold chain and laboratory	1 per HP	5
Health Post/Health Centre maintenance kit	1 per HP	2
Hurricane lamp	1 per HP	1

# STANDARD EQUIPMENT FOR HEALTH POST

# **Standard Equipment For Health Centres**

Equipment and furniture for OPD and wards. Including maternity         2         per HC: 1 for OPD/wards + 1 for maternity ward         5           Ambu bag for adults (resuscitator)         1 per HC         5           Autoclave, electrical, small         1 at OPD and 1 for wards         5           Autoclave, electrical, small         1 at OPD and 1 for wards         5           Bed pan         1 per HC         3           Dedside cabinet (locker), health centre/health         1 per hospital bed         3           Bed-side screen         1 per HC         4           Bowl, lotion, small         2 per HC         3           Bucket, stainless steel         1 per delivery bed         4           Chair for patient         2 per consulting room, 1 per ward         5           Delivery bed         1 per delivery room         5           Delivery bed         1 per delivery room         5           Delivery bed         1 per HC         5           Derssing set         1 for OPD + 1 for wards         5           Dressing set         1 per HC         3 <td< th=""><th>Items</th><th>Method to calculate adequate quantity</th><th>Priority rating</th></td<>	Items	Method to calculate adequate quantity	Priority rating
Ambu bag for adults (resuscitator)2 per HC: 1 for OPD/wards + 1 for maternity ward5Ambu bag for children (resuscitator)1 per HC5Autoclave, electrical, small1 at OPD and 1 for wards5Autoclave, non-electrical, 39 litres1 per HC5Bed pan1 per 4 beds4Ded-side cabinet (locker), health centre/health post model1 per consulting room and 1 per 4 beds in wards2Bed-side screen1 per consulting room and 1 per 4 beds in wards2Bowl, lotion, Iarge2 per HC4Bowl, lotion, medium3 per HG3Bowl, lotion, small2 per HC4Bowl, lotion, small2 per G4Chair for consulting staff1 per qualified staff, minimum 25Bucket, stainless steel1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Desk for consulting staff1 per onsulting room, 1 per ward5Drainage set1 per HC5Drainage set1 per HC5Drainage set1 per HC3Equipment cabinet2 per HC3 <td></td> <td></td> <td></td>			
Autoclave, electrical, small1 at OPD and 1 for wards5Autoclave, non-electrical, 39 litres1 per HC5Bed pan1 per 4 beds4Bed-side cabinet (locker), health centre/health1 per hospital bed3Dest model1 per consulting room and 1 per 4 beds in wards2Bowl, lotion, large2 per HC4Bowl, lotion, medium3 per HC3Bowl, lotion, small2 per HC3Bowl, lotion, small1 per qualified staff, minimum 25Bowl, lotion, small2 per HC3Brackine, adult1 per qualified staff, minimum 25Bucket, stainless stele1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Delivery bed1 per delivery room5Delivery bed1 per delivery room5Delivery bed1 per delivery room5Derssing set1 for OPD + 1 for wards5Dressing set1 per 4 beds, including couches5Drip stand1 per delivery bed3Ear syringe1 per HC3Equipment cabinet2 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room at HC with electricity or surfable solar energy supply2Foot stool, one-step1 per consulting room at HC with electricity or surfable solar energy supply4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, nerdium<		2 per HC: 1 for OPD/wards + 1 for maternity ward	5
Autoclave, non-electrical, 39 litres1 per HC5Bed pan1 per 4 beds4Bed-side cabinet (locker), health centre/health1 per nospital bed3post model1 per consulting room and 1 per 4 beds in wards2Bowl, lotion, large2 per HC4Bowl, lotion, small2 per HC3Bowl, lotion, small2 per HC3Bowl, lotion, small1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Delivery bed1 per delivery room5Desk for consulting staff1 per delivery room5Derivery bed1 per delivery room5Derivery bed1 per delivery room5Drainage set1 for OPD + 1 for wards5Dressing set1 for OPD + 1 for wards5Dressing set1 per consulting room, 1 per ward5Drip stand1 per consulting room5Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per HC5Examination couch, gynaecological1 per HC5Examination couch, gynaecological1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, large2 per HC as part of sets +1 as loose item5Examination couch, without leg holders1 per consulting room at HC with electricity or sutables of are nergy supply5 <td>Ambu bag for children (resuscitator)</td> <td>1 per HC</td> <td>5</td>	Ambu bag for children (resuscitator)	1 per HC	5
Bed pan1 per 4 beds4Bed-side cabinet (locker), health centre/health post model1 per hospital bed3Bed-side screen1 per consulting room and 1 per 4 beds in wards2Bowl, lotion, large2 per HC4Bowl, lotion, medium3 per HC5Bowl, lotion, small2 per HC3BP machine, adult1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Chair for patient2 per consulting room, 1 per ward5Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per delivery room5Dressing set1 for OPD + 1 for wards5Drissing set1 per 4 beds, including couches5Drissing set1 per consulting room5Ear syringe1 per room5Ear syringe1 per consulting room5Ear syringe1 per consulting room5Ear syringe1 per consulting room5Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per delivery bed4Gallipots, large2 per HC3Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per consulting room at HC with electricity or suitable solar energy supply2 <td>Autoclave, electrical, small</td> <td>1 at OPD and 1 for wards</td> <td>5</td>	Autoclave, electrical, small	1 at OPD and 1 for wards	5
Bed-side cabinet (locker), health centre/health post model1 per hospital bed3Bed-side screen1 per consulting room and 1 per 4 beds in wards2Bowl, lotion, large2 per HC4Bowl, lotion, medium3 per HC5Bowl, lotion, small2 per HG3BP machine, adult1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per HC5Dressing set1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Eax syringe1 per consulting room5Examination couch without leg holders1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per Consulting room at HC with electricity or suitable solar energy supply5Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed bedret	Autoclave, non-electrical, 39 litres	1 per HC	5
post model1 per consulting room and 1 per 4 beds in wards2Bed-side screen1 per consulting room and 1 per 4 beds in wards2Bowl, lotion, large2 per HC3Bowl, lotion, small2 per HC3BP machine, adult1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Chair for patient2 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per HC5Dressing set1 for OPD + 1 for wards5Dris stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets + 1 as loose item3Gallipots, large2 per HC as part of sets + 1 as loose item3Gallipots, large2 per HC as part of sets + 1 as loose item3Gallipots, large2 per HC as part of sets + 1 as loose item3	Bed pan	1 per 4 beds	4
Bowl, lotion, large2 per HC4Bowl, lotion, medium3 per HC5Bowl, lotion, small2 per HC3BP machine, adult1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Delivery bed1 per consulting room, 1 per ward5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per HC5Dressing set1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch synaecological1 per consulting room at HC with electricity or subable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, large1 per hospital bed3Hospital bed back rest1 per hospital bed3Hospital bed back rest1 per hospital bed3Indicator, TST control spot, pac-300consumable5Infant cot with mattress1 per nost-natal bed3	post model		_
Bowl, lotion, medium3 per HC5Bowl, lotion, small2 per HC3BP machine, adult1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Chair for patient2 per consulting room + 1 per beds in wards5Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per C5Dressing set1 for OPD + 1 for wards5Dressing set1 for OPD + 1 for wards5Drip stand1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item3Hospital bed back rest1 per Apet apt of sets +1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed heakrest1 per hospital bed3Hospital bed heakrest1 per onsulting guidelines available5Infant cot with mattress1 per infant cot3Infant cot with mattress1 per onsultal bed3			
Bowl, lotion, small2 per HC3BP machine, adult1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Chair for patient2 per consulting room + 1 per beds in wards5Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per room5Dressing set1 for OPD + 1 for wards5Dressing tray, medium1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, synaecological1 per HC5Examination light1 per delivery bed4Gallipots, large2 per HC3Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, large2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed back rest1 per hospital bed3Hospital bed heack, treated1 per hospital bed3Indicator, TST control spot, pac-300consumable5Infant cot with mattress1 per ost-natal bed3		-	
BP machine, adult1 per qualified staff, minimum 25Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Chair for patient2 per consulting room, 1 per ward5Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per roomulting room, 1 per ward5Dressing set1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per roomulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per 4 beds1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, large2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed holder, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot with mattress1 per post-natal bed3		•	
Bucket, stainless steel1 per delivery bed4Chair for consulting staff1 per consulting room, 1 per ward5Chair for patient2 per consulting room, 1 per ward5Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per roomulting room, 1 per ward5Dressing set1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room at HC with electricity or suitable solar energy supply5Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per 4 beds2 or 3Hospital bed holder, treated1 per hospital bed3Hospital bed holder, treated1 per hospital bed3Indicator, TST control spot, pac-300consumable5Infant cot with mattress1 per nost-natal bed3Infant cot with mattress1 per post-natal bed3		•	3
Chair for consulting staff1 per consulting room, 1 per ward5Chair for patient2 per consulting room + 1 per beds in wards5Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per consulting room, 1 per ward5Dressing set1 for OPD + 1 for wards5Dressing tray, medium1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per room3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets + 1 as loose item3Gallipots, medium2 per HC as part of sets + 1 as loose item3Hospital bed back rest1 per hospital bed3Hospital bed back rest1 per hospital bed3Indicator, TST control spot, pac-300consumable5Infant cot with mattress1 per post-natal bed3Infant cot with mattress1 per post-natal bed3	BP machine, adult	1 per qualified staff, minimum 2	5
Chair for patient2 per consulting room + 1 per beds in wards5Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per HC5Dressing set1 for OPD + 1 for wards5Dressing tray, medium1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room at HC with electricity or suitable solar energy supply5Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item3Hospital bed back rest1 per hospital bed3Hospital bed bednet, treated1 per hospital bed3Hospital bed bednet, treated1 per hospital bed3Indicator, TST control spot, pac-300consumable5Infant cot with mattress1 per post-natal bed3Infant cot with mattress1 per post-natal bed3	Bucket, stainless steel	1 per delivery bed	4
Delivery bed1 per delivery room5Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per HC5Dressing set1 for OPD + 1 for wards5Dressing set1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item3Gallipots, medium1 per 4 beds2 or 3Hospital bed back rest1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot with mattress1 per infant cot3Infant cot with mattress1 per post-natal bed3	Chair for consulting staff	1 per consulting room, 1 per ward	5
Desk for consulting staff1 per consulting room, 1 per ward5Drainage set1 per HC5Dressing set1 for OPD + 1 for wards5Dressing tray, medium1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item3Hospital bed back rest1 per 4 beds2 or 3Hospital bed health centre/health post model, with mattress1 per hospital bed3Infant cot with mattress1 per infant cot3Infant cot with mattress1 per post-natal bed3	Chair for patient	2 per consulting room + 1 per beds in wards	5
Drainage set1 per HC5Dressing set1 for OPD + 1 for wards5Dressing tray, medium1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per HC5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets + 1 as loose item5Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	Delivery bed	1 per delivery room	5
Dressing set1 for OPD + 1 for wards5Dressing tray, medium1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per delivery bed5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets + 1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	Desk for consulting staff	1 per consulting room, 1 per ward	5
Dressing tray, medium1 for OPD + 1 for wards5Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per HC5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets + 1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	Drainage set	1 per HC	5
Drip stand1 per 4 beds, including couches5Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per HC5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets + 1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3Infant cot with mattress1 per post-natal bed3	Dressing set	1 for OPD + 1 for wards	5
Ear syringe1 per HC3Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per HC5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	Dressing tray, medium	1 for OPD + 1 for wards	5
Equipment cabinet2 per HC3Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per HC5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3Infant cot with mattress1 per post-natal bed3	Drip stand	1 per 4 beds, including couches	5
Examination couch without leg holders1 per consulting room5Examination couch, gynaecological1 per HC5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	Ear syringe	1 per HC	3
Examination couch, gynaecological1 per HC5Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per hospital bed2 or 3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	Equipment cabinet	2 per HC	3
Examination light1 per consulting room at HC with electricity or suitable solar energy supply2Foot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per hospital bed3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	Examination couch without leg holders	1 per consulting room	5
suitable solar energy supplyFoot stool, one-step1 per delivery bed4Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets + 1 as loose item5Hospital bed back rest1 per 4 beds2 or 3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Indicator, TST control spot, pac-300consumable5Infant cot bednet, treated1 per post-natal bed3Infant cot with mattress1 per post-natal bed3	Examination couch, gynaecological	1 per HC	5
Gallipots, large2 per HC as part of sets +1 as loose item3Gallipots, medium2 per HC as part of sets +1 as loose item5Hospital bed back rest1 per 4 beds2 or 3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Indicator, TST control spot, pac-300consumable5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	-	suitable solar energy supply	
Gallipots, medium2 per HC as part of sets + 1 as loose item5Hospital bed back rest1 per 4 beds2 or 3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Indicator, TST control spot, pac-300consumable5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3			4
Hospital bed back rest1 per 4 beds2 or 3Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Indicator, TST control spot, pac-300consumable5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3			-
Hospital bed bednet, treated1 per hospital bed3Hospital bed, health centre/health post model, with mattressno planning guidelines available5Indicator, TST control spot, pac-300consumable5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	•		_
Hospital bed, health centre/health post model, with mattressno planning guidelines available5Indicator, TST control spot, pac-300consumable5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	•	•	2 or 3
with mattressdefendenceIndicator, TST control spot, pac-300consumable5Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3	, ,	1 per hospital bed	3
Infant cot bednet, treated1 per infant cot3Infant cot with mattress1 per post-natal bed3		no planning guidelines available	5
Infant cot with mattress 1 per post-natal bed 3	Indicator, TST control spot, pac-300	consumable	5
	Infant cot bednet, treated	1 per infant cot	3
Infection prevention trolley ? ?	Infant cot with mattress	1 per post-natal bed	3
	Infection prevention trolley	?	?
Instrument tray, large 1 per treatment room 3	Instrument tray, large	1 per treatment room	3

# STANDARD EQUIPMENT FOR HEALTH CENTRES

STANDARDE	QUIPMENT FOR HEALTH CENTRES	Driority
Items	Method to calculate adequate quantity	Priority rating
Instrument tray, medium	1 per treatment room	5
Kidney dish, large	1 kidney dish per HC as part of sets + 1 as a loose item	3
Kidney dish, medium	1 kidney dish per HC as part of sets + 3 as a loose item	5
Otoscope set in case	1 per consulting room, maximum 2.	4
Salter scale	1 per consulting room and 3 for outreach activities	5
Sterilising drum, medium	1 per HC	5
Sterilising drum, small	1 per HC	4
Stethoscope	1 per qualified staff, minimum 2	5
Stethoscope, foetal, Pinard	1 per consulting room + 1 for maternity + 1 for outreach	5
Stove, kerosene, single burner	1 per HC	5
Stretcher, foldable	1 per HC	3
Suction pump, electrical	3 per HC: 1 for OPD/wards + 1 for maternity ward	4
Suction pump, foot -operated	2 per HC: 1 for OPD/wards + 1 for maternity ward	4
Suturing set	1 for OPD + 1 for wards	5
Thermometer jar	1 per consulting room, 1 per ward	3
Thermometer, digital	1 per consulting room, 1 per ward	5
Timer, 60 min	1 for wards and OPD together	5
Torch, medical, pen-sized	2 per HC	5
Trolley, medicine	1 per HC	4
Urinal, male	1 per 4 beds	3
Vaginal delivery/episiotomy set	3-5 per HC	5
Vaginal speculum, large	2 per HC	4
Vaginal speculum, medium	5 per HC	5
Vaginal speculum, small	1 per HC	3
Wall clock	1 for OPD + 1 for maternity ward	5
Wastebin with lid	1 per consulting room, 1 per ward	3
Weighing scale, adult	1 per consulting room	5
Weighing scale, infant, beam type	1 for OPD + 1 for maternity ward	5
Weighing trousers	1 set of 5 per salter scale (because they are sold this way)	5
Dental equipment		
Dental chair	1 per HC with dental therapist	2
Dental syringe	1 per HC with 10 trained in dental care	2
Mirror set	1 per HC with 10 trained in dental care	2
Molar extraction set	1 per HC with 10 trained in dental care	2
Probe set	1 per HC with 10 trained in dental care	2
Set of tweezers	1 per HC with 10 trained in dental care	2
Upper incisor forceps set	1 per HC with 10 trained in dental care	2

# STANDARD EQUIPMENT FOR HEALTH CENTRES

Pharmacy equipment

Items	Method to calculate adequate quantity	Priority rating
20 ml medicine cup	2 per HC	3
Drug cabinet, lockable	1 per HC	4
Refrigerator, domestic	1 per HC	5
Tablet counting tray	1 per HC	3
Cold chain equipment		
Refrigerator for vaccines	1 per HC	5
Vaccine carrier	1 per HC	5
Vaccine coldbox		5
Laboratory Equipment		
Flammable liquid cabinet	1 per HC with laboratory	3
Autoclave, portable	1 per HC with laboratory technician or microscopist	4
Binocular microscope	1 per HC with laboratory technician or microscopist	5
Glucometer	1 per HC	5
Haemoglobinometer	1 per HC	5
Hand Tally counter	1 per HC with laboratory technician or microscopist	3
Manual centrifuge	1 per HC with laboratory technician or microscopist	4
Rapid Diagnostic Test for malaria	consumable	5
RPR rotator	1 per HC	5
Spirit lamp	1 per HC with laboratory technician or microscopist	5
Stool for laboratory worker	1 per laboratory worker	4
Timer	1 per HC with laboratory technician or microscopist	5
Tripple beam balance	1 per HC with laboratory technician or microscopist	5
Water distiller	1 per HC with laboratory technician or microscopist and no water filter; if none is available, the distiller is preferred option	3
Water filter	1 per HC with laboratory technician or microscopist and no water distiller, but water distiller is preferred option	3
Environmental health equipment		
Bucket for mixing chemicals	3 per HC	5
Food and water sample box	1 per HC	5
Lovibond Comparator	1 per HC	3
Measuring jar	3 per HC	5
Meat inspection kit	2 per HC	4
Personal Protective Equipment	2 per HC	5
Rodent control apparatus	1 per HC	3
Squirt gun	2 per HC	3
Tape measure Vector control sprayer	2 per HC 1 per HC	5 5
Water level meter	1 per HC	5
Miscellaneous		5
Camping equipment set	2 per Rural HC	2

# STANDARD EQUIPMENT FOR HEALTH CENTRES

Items	Method to calculate adequate quantity	Priority rating
Fire extinguisher	1 per designated area	1
Health Centre solar power supply system for light, cold chain and laboratory	1 per HC	5
Health Post/health centre maintenance kit	1 per HC	2
Hurricane lamp	1 per ward	1

# STANDARD EQUIPMENT FOR HEALTH CENTRES

# **Standard Equipment For Zonal Health Centres**

Items	method to calculate adequate quantity	Priority rating
Equipment and furniture for OPD and wards, including maternity		
Ambu bag for adults (resuscitator)	1 for OPD + 1 per ward	5
Ambu bag for children (resuscitator)	3 per ZHC: 1 for OPD + 1 for paediatric ward + 1 for delivery room	5
Autoclave, electrical, small	3 at ZHC with electricity: 1 for OPD + 1 for wards + 1 for delivery room	5
Autoclave, non-electrical, 39 litres	3: 1 for OPD + 1 for wards + 1 for delivery room	5
Bed pan	1 per 4 beds	4
Bed-side cabinet (locker), health centre/health post model	1 per hospital bed	3
Bed-side screen	1 per consulting room and 1 per 4 beds in wards	4
Bowl, lotion, large	2 for OPD + 2 per ward	4
Bowl, lotion, medium	3 for OPD + 3 per ward	5
Bowl, lotion, small	2 for OPD + 2 per ward	3
BP machine, adult	1 per qualified staff, minimum 2	5
BP machine, child	1 per qualified staff, minimum 2	3
Bucket, stainless steel	1 per delivery bed	4
Chair for consulting staff	1 per consulting room, 1 per ward	5
Chair for patient	2 per consulting room + 1 per beds in wards	5
Delivery bed	2 per delivery room	5
Desk for consulting staff	1 per consulting room, 1 per ward	5
Diagnostic set	1 per consulting room, maximum 2.	4
Drainage set	2 per ZHC	5
Dressing set	2 per ZHC: 1 for OPD + 1 for wards	5
Dressing tray, medium	2 per ZHC: 1 for OPD + 1 for maternity ward	5
Drip stand	1 per 4 beds	5
Ear syringe	2 per ZHC	3
Equipment cabinet	1 for OPD and 1 per ward	3
Examination couch without leg holders	1 per consulting room	5
Examination couch, gynaecological	2 per ZHC	5
Examination light	1 per consulting room at HC with electricity or suitable solar energy supply	4
Foot stool, one-step	1 per delivery bed	4
Gallipots, large	3 per ZHC: 2 per HC as part of sets +1 as loose item	3
Gallipots, medium	3 per ZHC: 2 per HC as part of sets + 1 as loose item	5
Hospital bed back rest	1 per 4 beds	2 or 3
Hospital bed bednet, treated	1 per hospital bed	3

Items	method to calculate adequate quantity	Priority rating
Hospital bed, health centre/health post model, with mattress	no planning guidelines available	5
Indicator, TST control spot, pac-300	consumable	5
Infant cot bednet, treated	1 per infant cot	3
Infant cot with mattress	1 per post-natal bed	3
Infection control trolley	?	?
Instrument tray, large	1 per treatment room + 1 per ward	3
Instrument tray, medium	1 per treatment room + 1 per ward	5
Instrument trolley		B?
Kidney dish, large	2 kidney dishes per HC as part of sets + 1 as a loose item/ward	3
Kidney dish, medium	1 kidney dish per HC as part of sets + 1 as a loose item/ward	5
Mayo table	1 per ZHC	5
Medicine trolley	1 for OPD and 1 per ward	5
Salter scale	1 per consulting room and 3 for outreach activities	5
Sterilising drum, medium	2: 1 for OPD + 1 for delivery room	5
Sterilising drum, small	3: 1 for OPD + 1 for wards + 1 for delivery room	5
Stethoscope	1 per qualified staff, minimum 2	5
Stethoscope, foetal, Pinard	1 per consulting room + 2 for maternity + 1 for outreach	5
Stove, kerosene, single burner	1 per ZHC	5
Stretcher, foldable	2 per ZHC	3
Suction pump, electrical	3 per ZHC with electricity: 1 for OPD + 1 for wards + 1 for delivery room	4
Suction pump, foot -operated	3 per ZHC: 1 for OPD + 1 for wards + 1 for delivery room	4
Suturing set	3 per ZHC: 2 for OPD + 1 for wards	5
Thermometer jar	1 per consulting room, 1 per ward	3
Thermometer, digital	1 per consulting room, 1 per ward	5
Timer, 60 min	3: 1 for OPD + 1 for wards + 1 for delivery room	5
Torch, medical	1 at OPD and 2 for wards	5
Urinal, male	1 per 4 beds	3
Vacuum aspirator, manual (MVA)	2-4 per ZHC	5
Vaginal delivery/episiotomy set	3-5 per ZHC	5
Vaginal speculum, large	2 per ZHC	4
Vaginal speculum, medium	1 per consulting room, 3 for maternity and 4 for MCH room	5
Vaginal speculum, small	2 per ZHC	3
Wall clock	2 per ZHC: 1 for OPD + 1 for maternity ward	5
Wastebin with lid	1 per consulting room, 1 per ward	3

# STANDARD EQUIPMENT FOR ZONAL HEALTH CENTRES

STANDARD EQUIPMENT FOR ZONAL HEALTH CENTRES
---

Items	method to calculate adequate quantity	Priority rating
Weighing scale, adult	1 per consulting room +1 for wards	5
Weighing scale, infant, beam type	2 per ZHC: 1 for OPD + 1 for maternity ward	5
Weighing trousers	1 set of 5 per salter scale (they are sold this way)	5
Dental equipment		
Bench top autoclave	1 per ZHC with qualified dental practitioner	2
Dental amalgamator	1 per ZHC with qualified dental practitioner	2
Dental chair	1 per ZHC with qualified dental practitioner	2
Dental compressor	1 per ZHC with qualified dental practitioner	2
Dental film processor or developer	1 per ZHC with qualified dental practitioner	2
Dental instrument cabinet	1 per ZHC with qualified dental practitioner	2
Dental instrument set	2 per ZHC with qualified dental practitioner	2
Dental instrument tray	2 per ZHC with qualified dental practitioner	2
Dental light	1 per ZHC with qualified dental practitioner	2
Dental light curing unit	1 per ZHC with qualified dental practitioner	2
Dental syringe	2 per ZHC with qualified dental practitioner	2
Dental x-ray unit	1 per ZHC with qualified dental practitioner	2
Dentist stool	1 per ZHC with qualified dental practitioner	2
Treatment unit	1 per ZHC with qualified dental practitioner	2
Ultrasonic dental scaler	1 per ZHC with qualified dental practitioner	2
Pharmacy equipment		
20 ml medicine cup	5 per HC	3
Drug cabinet, lockable	1 per HC	4
Refrigerator, domestic	1 per HC	5
Tablet counting tray	2 per HC: 1 for pharmacy + 1 for ART pharmacy	3
Cold chain equipment		
Refrigerator for vaccines	1 per HC	5
Vaccine carrier	1 per HC	5
Vaccine coldbox		5
Laboratory Equipment		
Analytical balance	1 per ZHC with laboratory technician	5
Autoclave for laboratory, small	1 per ZHC with laboratory technician	A1 OR A2
Blood Bank Refrigerator	1 per ZHC with laboratory technician	5
Bunsen burner	1 per ZHC with laboratory technician	5
CD 4 Counting machine	1 per ZHC with laboratory technician	5
Centrifuge, electrical	1 per ZHC with electricity and laboratory technician or microscopist	4
Centrifuge, manual	1 per ZHC with laboratory technician or microscopist	4
Chair for administrative duties	1 per ZHC	2
Chemistry analyser	1 per ZHC with laboratory technician	5
Differential counter		NOT/
Flammable liquid cabinet	1 per ZHC	3
Glucometer	1 per ward	5

	TFOR ZONAL REALTH CENTRES	
Items	method to calculate adequate quantity	Priority rating
Haematology analyser	1 per ZHC with laboratory technician	5
Haemoglobinometer, Colorimeter type	?	4
Haemoglobinometer, Haemocue Hb 201+	1 per ZHC	4
Haemoglobinometer, Colour scale, WHO model	?	4
Hand tally counter	1 per ZHC with laboratory technician or microscopist	5
Hot air oven		5
Laboratory Refrigerator/freezer		5
Microhaematocrit centrifuge	1 per ZHC with laboratory technician	5
Microscope, binocular	2 per ZHC with laboratory technician and/or microscopist	5
pH meter		3
Rapid Diagnostic Test for malaria		4
RPR rotator	1 per ZHC	5
Spirit lamp	1 per ZHC with laboratory technician or microscopist	5
Stool for laboratory worker	1 per laboratory worker	2
Table for administrative duties	1 per laboratory	2
Timer	1 per ZHC with laboratory technician or microscopist	5
Water bath	1 per ZHC with laboratory technician or microscopist	A3 A1
Water distiller for laboratory	1 per ZHC with laboratory technician or microscopist and no water filter; in the absence of both, the distiller is the preferred option	4
Water filter for laboratory	1 per ZHC with laboratory technician or microscopist and no water distiller, but water distiller is preferred option	3
Environmental health equipment		
Bucket for mixing chemicals	3 per ZHC	5
Food and water sample box	2 per ZHC	5
Lovibond Comparator	1 per HC	3
Measuring jar	3 per ZHC	5
Meat inspection kit	2 per HC	4
Personal Protective Equipment	1 per sprayer and 1 per incinerator	5
Rodent control apparatus	20 per ZHC	3
Squirt gun	2 per HC	3
Tape measure	2 per HC	5
Vector control sprayer	3 per ZHC	5
Water level meter	1 per HC	5
Kitchen equipment		
Bain Marie		
Boiling pot		
Cooking pot of 10 litres		
Cooking pot of 20 litres		
Cooking pot of 40 litres		
Food trolley		
Freezer, domestic, chest model, for kitchen		
Heated Bain Marie Trolley		1
Preparation table		
Stove, domestic, gas		

# STANDARD EQUIPMENT FOR ZONAL HEALTH CENTRES

Items	method to calculate adequate quantity	Priority rating
Stove, industrial		
Weighing Scale for kitchen, 0-120 kg		
Laundry equipment		
Clean linen trolley		
Industrial ironer		
Laundry press		
Laundry Trolley		
Sewing machine		
Tumble dryer		
Washer-extractor		
Water heater		
Mortuary equipment		_
Mortuary fridge/unit (4 trays)		2
Mortuary trolley		1
Miscellaneous		_
Camping equipment set	2 per ZHC (RURAL ZHC ONLY)	2
Fire extinguisher	1 per designated area	1
Health Centre solar power supply system for light, cold chain and laboratory	1 per ZHC	5
Health Post/Health Centre maintenance kit	2 per ZHC	2
Hurricane lamp	1 per ward	1

# STANDARD EQUIPMENT FOR ZONAL HEALTH CENTRES

# Standard Equipment And Furniture For First Referral Level Hospitals

Items	Method to calculate adequate quantity (assuming qualified staff)	Priority rating
1. Hospital Affiliated Health Centre		
1.1. Medical equipment and furniture		
Desk for consulting staff	1 per consulting room + 1 per ward	A1
Chair for consulting staff	1 per consulting room + 1 per ward	A1
Chair for patient	2 per consulting room	A1
Wastebin with lid	1 per consulting room + 1 per ward	A3
Wall clock	1 for OPD and 1 for maternity	A3
Equipment cabinet	2 per HC	A3
Stretcher, folding type	1 per HC	A3
Examination couch, gynaecological	1 per HC	A1
Examination couch without leg holders	1 per consulting room	A1
Bed-side screen	1 per consulting room + 1 per ward	A2
Examination light	1 per consulting room at HC with electricity or suitable solar energy supply	A2
Torch, medical, pen-sized	2 per HC	A1
Thermometer, digital	1 per consulting room + 1 per ward	A1
Thermometer, mercury type	1 per consulting room + 1 per ward	A1
Thermometer jar	1 per consulting room + 1 per ward	A3
Salter scale	1 per consulting room and 3 for outreach activities	A1
Weighing trousers	1 set of 5 per salter scale (because they are sold this way)	A1
Weighing scale, adult	1 per consulting room	A1
Stethoscope, binaural	1 per qualified staff, minimum 2	A1
BP machine, adult	1 per qualified staff, minimum 2	A1
Ear syinge	1 per HAHC	A3
Otoscope set in case	1 per consulting room, maximum of 2	A2
Vaginal speculum, small	1 per HC	A3
Vaginal speculum, medium	5 per HC	A1
Vaginal speculum, large	2 per HC	A2
Trolley, medicine	1 per HC	A1
Autoclave, electric, small	1 per HC with electricity	A1
Autoclave, non-electric, small (39 litres)	1 per HC without electricity	A1
Sterilising drum, small	1 per HC	A2
Sterilising drum, medium	1 per HC	A1
Timer, 60 min	1 per HC	A1
Indicator, TST control spot	1 per HC	A1
Instrument tray, medium	1 per consulting/treatment room	A1
Instrument tray, large	1 per consulting/treatment room	A3
Suction pump, foot operated	1 per HC without electricity	A2
Suction pump, electric	1 per HC with electricity	A2
Ambu bag for adults (resuscitator)	2 per HC: 1 for OPD/wards + 1 for maternity ward	A1
Ambu bag for children (resuscitator)	1 per HC	A1
Drainage set	1 per HC	A1
Dressing set	1 for HAHC OPD + 1 for HAHC wards	A1
Dressing tray, medium	1 for HAHC OPD + 1 for HAHC wards	A1

Items	Method to calculate adequate quantity	Priority
	(assuming qualified staff)	rating
Suturing set	1 for HAHC OPD + 1 for HAHC wards	A1
Bowl, lotion, small	2 per HC	A3
Bowl, lotion, medium	3 per HC	A1
Bowl, lotion, large	2 per HC	A2
Gallipots, medium	2 per HC as part of sets + 1 as loose item	A1
Gallipots, large	2 per HC as part of sets +1 as loose item	A3
Kidney dish, medium	1 kidney dish per HC as part of sets + 3 as a loose item	A1
Kidney dish, large	1 kidney dish per HC as part of sets + 1 as a loose item	A3
Bed pan	1 per 4 beds	A2
Urunal, male	1 per 4 beds	A3
Drip stand	1 per 4 beds, including couches	A1
Delivery bed	1 per delivery room	A1
Footstool, one-step	1 per delivery bed	A3
Stethoscope, foetal, Pinard	1 per consulting room + 1 for maternity + 1 for outreach	A1
Delivery/episiotomy set	3-5 per HC	A1
Weighing scale, infant, beam type	1 for OPD + 1 for maternity ward	A1
Hospital bed, health centre/health post model	NO STANDARDS POSSIBLE GIVEN VARIETY OF CATCHMENT AREAS AND SIZE OF BUILDINGS	A1
Hospital bed bednet, treated	1 per hospital bed	3
Hospital bed back rest	1 per 4 beds	A3 or B?
Infant cot with mattress	1 per post-natal bed	A3
Infant cot bednet, treated	1 per infant cot	3
Bed-side cabinet (locker), health centre/health post model	1 per bed	A3
1.2 Pharmacy equipment		
20 ml medicine cup	2 per HC	A3
Drug cabinet, lockable	1 per HC	A2
Refrigerator, domestic	1 per HC	A1
Tablet counting tray	1 per HC	A3
1.3 Cold chain equipment		
Refrigerator for vaccines	1 per HC	A1
Vaccine coldbox		A1
1.4. Environmental health equipment		
Bucket for mixing chemicals	3 per HC	A1
Food and water sample box	1 per HC	A1
Lovibond Comparator	1 per HC	A3
Measuring jar	3 per HC	A1
Meat inspection kit	2 per HC	A2
Personal Protective Equipment	2 per HC	A1
Rodent control apparatus	1 per HC	A3
Squirt gun	2 per HC	A3
Tape measure	2 per HC	A1
Vector control sprayer	1 per HC	A1
Water level meter	1 per HC	A1
1.5 Miscellaneous		
Camping equipment set	2 per Rural HAHC	В
Hurricane lamp	1 per ward	С
Fire extinguisher	1 per designated area	В

Items	Method to calculate adequate quantity (assuming qualified staff)	Priority rating
2. OPD and Casualty		raang
2.1. Hospital equipment		
Wheelchair	2	A3
Stretcher, folding type	1 per ambulance/patient transporting	A2
	vehicle	
2.2 Office furniture and medical equipment for		
screening and consultation rooms (nurses, clinical		
officers, doctors) Desk for Consulting staff	1 per consulting room	A1
Chair for Consulting staff	1 per consulting room	A1
Chair for patient	2 per consulting room	A1
Equipment Cabinet	1 per consulting room	Al
Wastebin with lid	1 per consulting room	A3 A3
	1 per consulting room	A3 A1
Examination couch, gynaecological		A1 A1
Examination couch without leg holders	1 per consulting room	
Bed-side screen	1 per consulting room	A2
Examination light	1 per consulting room	A2
Torch, medical, pen-sized	1 per consulting room	A1
Thermometer, digital	1 per consulting room	A1
Thermometer, mercury type	1 per consulting room	A1
Thermometer Jar	1 per consulting room	A3
Salter scale	1 per consulting room	A1
Wheighing trousers	1 set of 5 per salter scale (because they are sold this way)	A1
Weighing scale, adult	1 per consulting room	A1
Stethoscope, binaural	1 per consulting room	A1
BP machine, adult	1 per consulting room	A1
BP machine, child	1 per consulting room	A1
Ear syringe	1 per consulting room	A3
Diagnostic set (otoscope and ophthalmoscope)	1 per consulting room	A1
Chart, vison-testing, Snellen type	1 per consulting room	A3
Patella hamer	1 per consulting room	A3
Vaginal speculum, small	1 per consulting room	A3
Vaginal speculum, medium	3 per consulting room	A1
Vaginal speculum, large	1 per consulting room	A2
Stethoscope, foetal, Pinard	1 for entire OPD	A1
Drip stand	1 at casualty and 1 at OPD	A1
Suction pump, foot-operated	1 for entire OPD without electricity	A2
Suction pump, electric	1 for entire OPD with electricity	A2
Ambu bag for adults (resuscitator)	1 at casualty and 1 at OPD	A1
Ambu bag for children (resuscitator)	1 at casualty and 1 at OPD	A1
Medicine trolley	1 at casualty and 1 at OPD	A1
2.3 Medical equipment for dressing and injection rooms		
Autoclave, electric, small	1 for entire OPD with electricity	A1
Autoclave, non-electric, small (39 litres)	1 for entire OPD without electricity	A1
Sterilising drum, small	1 for entire OPD	A1
Timer, 60 min	1 for entire OPD	A1
Indicator, TST control spot	1 for entire OPD	A1
Drainage set	3 per OPD (one in use, one being	A1

Items	Method to calculate adequate quantity (assuming qualified staff)	Priority rating
Dressing set	3 per OPD (one in use, one being sterilised, one spare)	A1
Suturing set	3 per OPD (one in use, one being sterilised, one spare)	A1
Instrument tray, medium	1 per consulting/treatment room	A1
Bowl, lotion, small	1 for entire OPD	A3
Bowl, lotion, medium	1 for entire OPD	A1
Bowl, lotion, large	1 for entire OPD	A2
2.4 Medical equipment for observation ward		
Hospital bed, hospital model, two-sectioned, with mattress	1 or 2 beds in prototype L1H? Elsewhere depending upon space	A1
Hospital bed bednet, treated	1 per observation bed	A3
Hospital bed cradle	1 per 4 beds	A3
Bed-side screen	1 per 4 beds	A2
Bed-side cabinet, hospital model	1 per bed	A3
Over-bed table	1 per bed	A3 A2
Bed pan	1 per 4 beds	A2 A2
Urinal, male	1 per 4 beds	A2 A2
,	•	
Sputum mug	1 per 5 beds	A3
Drip stand	1 per 4 beds	A1
Oxygen concentrator	1 for the observation ward	A2
Suction pump, foot operated	1 for the observation ward	A2
Suction pump, electric	1 for the observation ward at observation wards with electricity	A2
3. All wards, except maternity ward		
3.1. Nursing stations		
Cupboard, lockable	1 per nursing station	A3
Desk	1 per nursing station	A3 OR B?
Chair	4 per nursing station	A3
Equipment Cabinet	1 per nursing station	A3 OR B?
Wastebin with lid	1 per nursing station	
3.2 Wards		
Hospital bed, hospital model, two-sectioned, with mattress	no official guidelines anymore	A1
Hospital bed bednet, treated	1 per hospital bed	a3
Infant cot	2 per paediatric ward	A3
Infant cot bednet, treated	1 per infant cot	A3
Hospital bed back rest	1 per 4 hospital beds without head section (HP/HC model)	A3 OR B
Hospital bed cradle	1 per 5 beds	A3 OR B
Hospital bed elevator	1 per 4 beds	A3 OR B
Traction frame	1 per 20 beds, excluding maternity beds	A3 OR B
Bed-side screen	1 per 4 beds	A3 ON B
Bed-side cabinet, hospital model	1 per bed	A3
Over-bed table	1 per bed	A3 A2
Bed pan	1 per 4 beds	A2 A2
Urinal, male	1 per 4 beds	A2 A2
Sputum mug	1 per 5 beds	A2
Thermometer, digital	5 per ward	A1
Thermometer jar	1 per ward 1 per adult ward, excluding surgery	A3 A2
Weighing scale, adult		

Items	Method to calculate adequate quantity	Priority
	(assuming qualified staff)	rating
Salter scale	1 per paediatric ward	A1
Wheighing trousers	5 per scale/ward	A1
Stethoscope, binaural	2 per ward	A1
BP machine, adult	2 per ward	A1
BP machine, child	1 per paediatric ward	A1
Diagnostic set (otoscope and ophthalmoscope)	2 for all wards together	A1
Glucometer	1 per ward	A1
Rapid Diagnostic Test kits for malaria	1 per ward	A1
Trolley, medicine	1 per ward	A1
Autoclave, electric, small	1 per ward	A2
Sterilising drum, small	1 per ward	A3
Timer, 60 min	1 per ward	A2
Indicator, TST control spot	1 set per ward	A2
Instrument tray, medium	1 per ward	A2
Instrument tray, large	1 per ward	A3
Dressing tray, medium	1 per ward	A2
Dressing trolley	1 per ward	A2
Dressing set	2 per ward (or 3: including one spare set?)	A1
Bowl, lotion, small	2 per ward	A3
Bowl, lotion, medium	3 per ward	A1
Bowl, lotion, large	2 per ward	A2
Drip stand	1 per 4 beds	A1
Oxygen concentrator	1 for paediatric ward	A2
Oxygen cylinder	1 for paediatric ward	A1
Suction pump, foot operated	1 for all wards together	A1
Suction pump, electric	1 for all wards together (hospitals with electr.)	A1
3.3. Miscellaneous		
Heater, electric	1 per ward	С
Fire extinguisher	1 per ward	В
4. Equipment for labour ward/maternity		
4.1 Sister' office		
Desk for Consulting staff	1	A2
Chair for Consulting staff	2	A2
Chair for patient	2	A2
Cupboard, lockable	1	A2
Wastebin with lid	1	A3
4.2 First stage room		
Examination couch, gynaecological	1	A1
Footstool, one-step	1	A2
Bed-side screen	1	A2
CT machine	1	A1
Examination light	1	A1
Stethoscope, foetal, Pinard	2	A1
Foetal heart detector	1	A1
Vaginal speculum, smalll	1	A3
Vaginal speculum, medium	2	A1
Vaginal speculum, large	1	A2
RPR rotator	1	A1
4.3 Delivery room		

Items	Method to calculate adequate quantity	Priority
	(assuming qualified staff)	rating
Instrument cabinet	1	A3
Instrument trolley	2	A1
Delivery bed	1 per delivery bed, so: 2	A1
Drip stand	1	A1
Footstool, one-step	1	A2
Bed-side screen	1	A2
Operating stool, revolving	2	A2
Vaginal delivery /episiotomy set	5	A1
Kick-about bowl	2	A1
Manual vacuum aspiration (MVA) kit	5	A1
Vacuum extractor, manual	1	A2
Vacuum extractor, electrical	2	A1
Weighing scale, infant, beam type	1	A1
Wall clock	1	A2
Resuscitaire	1	A1
Neonatal incubator	2	A2
Suction pump, electric	1	A1
Suction pump, foot-operated	1	A1
4.4 For recovery room		
Hospital bed, hospital model, two-sectioned, with	2	A1
mattress		
Infant cot with mattress	1 per bed	A2
Bed-side screen	1	A2
Bed-side cabinet, hospital model	1 per bed	A3
Over-bed table	1 per bed	A2
Bed pan	1	A2
Drip stand	1	A1
4.5 For postnatal ward		
Hospital bed, hospital model, two-sectioned, with mattress	depends, prototype L1H: 10 beds	A1
Bednet, long lasting insecticide treated, for hospital bed	1 per bed	A1
Infant cot with mattress	1 for 4 beds	A2
Bednet, long lasting insecticide treated, for hospital cot?	1 per cot	A2
Bed-side screen	1 per 5 beds	A2
Bed-side cabinet, hospital model	1 per bed	A3
Over-bed table	1 per bed	A3 A2
Bed pan	1 per 2 beds	A2 A2
Phototherapy machine	1	NOT
Filototherapy machine		RATED
Oxygen concentrator	1	A1
Oxygen cylinder	4	A1
4.6 Equipment for use in various parts of maternity wa	rd	
Vaginal speculum, small	2	A3
Vaginal speculum, medium	2	A1
Vaginal speculum, large	2	A2
		A1
	1 per 5 beds	
Thermometer, digital	1 per 5 beds 1 per 5 beds	
Thermometer, digital Thermometer jar	1 per 5 beds 1 per 5 beds 1	В
Thermometer, digital	1 per 5 beds	

Items	Method to calculate adequate quantity (assuming qualified staff)	Priority rating
Glucometer	1	A3
Rapid Diagnostic Test kits for malaria	not done by group	A1
Medicine trolley	1 per ward	A1
Autoclave, electric, medium	1 per ward	A2
Sterilising drum, small	1 per ward	A3
Sterilising drum, medium	1 per ward	A2
Timer, 60 min	1 per ward	A1
Indicator, TST control spot	depend on cosumption	A1
Instrument tray, medium	1 per ward	A2
Instrument tray, large	1 per ward	A3
Dressing tray, medium	1 per ward	A2
Dressing trolley	1 per ward	A2
Dressing set	2 per ward	A1
Bowl, lotion, small	2 per ward	A3
Bowl, lotion, medium	2 per ward	A1
Bowl, lotion, large	2 per ward	A2
Drip stand	1 per 5 beds or 1 per ward in prototype	A1
5. Operating theatre equipment (the operating u		
theatres)		
Ambu bag for adults (resuscitator)	1 per hospital operating unit	A1
Ambu bag for children (resuscitator)	1 per hospital operating unit	A1
Anaesthetic machine	2 per hospital	A1
Bowl, lotion, large	3 per operating table	A2
BP machine, adult	2 per hospital operating unit	A1
Bucket, stainless steel with cover	4 per operating table	A3
Coagulation Unit	1 per hospital operating unit	A2
Dangerous drugs, cabinet	1 per operating theatre	A3
Defibrillator	1 per hospital	A1
Dressing tray, large	3 per operating theatre	A1
Dressing tray, medium	2 per operating theatre	A2
Dressing tray, small	1 per operating theatre	A2
Dressing trolley	1 per operating theatre	A1
Drip stand	2 per operating table	A1
Ear syringe	1 for all wards (to be kept in minor theatre)	A3
Footstool, one-step	2 per operating table	A3
Instrument cabinet	1 per operating theatre	A3
Instrument tray, large	8 per operating unit	A1
Instrument trolley	1 per operating table	A1
Kick-about bowl	3 per operating table	A2
Laryngoscope set	5 per hospital	A2 A1
Mayo table	2 per operating table	A1 A1
Neonatal resuscitaire	1 per hospital operating unit	A1 A2
Operating stools, revolving	3 per operating table	A2 A2
Operating stools, revolving	2 per hospital	A2 A1
Operating room light, fixed, ceiling mounted	1per operating theatre	A1 A1
Operating-room light, portable, with stand	2 per hospital	A2
Oxygen concentrator	2 per operating unit	A3
Oxygen cylinder	4 per operating unit	A3
Patient trolley	2 per operating unit	A1
Pulse oximeter, separate		A1

Items	Method to calculate adequate quantity	Priority
	(assuming qualified staff)	rating
Recovery bed	1 per operating theatre	В
Stand, single bowl	2 per operating table	В
Stetoscope, binaural	2 per hospital operating unit	A1
Suction pump, electric	3 (one for surgeon, two for anaesthetist)	A1
Ventilator	1 per operating theatre	A1
Vital signs monitor, portable	1 per hospital	A1
Wall clock	1 per operating theatre	A1
X-Ray film viewing box (negatoscope)	1 per operating theatre	A3
Theatre instrument sets		
Set, amputation	2	A1
Set, bilateral tubal ligation	3 or 5?	A3
Set, caesarian section	4 or 10?	A1
Set, decapitation	1	A3
Set, dilatation and curetage Set (D+C set)	3 or 10?	A1
Set, general	6?	A1
Set, laparatomy	3 or 4?	A1
Set, minor surgery	3	A1
Sterilisation equipment		
Autoclave, electric, 400 litres	1 per operating theatre	A1
Bed pan washer	1 per ward	
Sterilising drum, large	2 per operating unit	A1
Sterilising drum, medium	2 per operating unit	A1
Ultrasonic cleaner	1 per operating theatre	A3
6. Dental unit		
Bench top autoclave	1	В
Dental amalgamator	1	B
Dental chair	1	B
Dental compressor	1	B
Dental film processor or developer	1	B
Dental instrument cabinet	1	C
Dental instrument set	1	B
	2	B
Dental Instrument tray		B
Dental light	1	1_
Dental light curing unit	1	B C
Dental treatment trolley	1	
Dental treatment unit	1	B
Dental x-ray unit	1	В
Dentist stool	1	В
Ultrasonic dental scaler	1	В
7. Pharmacy		40
20 ml medicine cup	?	A3
Drug cabinet, lockable	1	A2
Graduated glass measure	?	В
Mixer	1	В
Mortar and pesttle	2	В
Pharmacy balance	1	В
Pharmacy heavy duty trolley	1	В
Pharmacy refrigerator	1	A1
Tablet and capsule counter	1	В
Tablet counting tray	1	В
Vaccine refrigerator	1	A1

Items	Method to calculate adequate quantity (assuming qualified staff)	Priority rating
Water distiller	1	В
Water filter	?	В
8. Equipment for the Medical Laboratory		
8.1. Furniture for medical laboratory		
Stool for laboratory worker	1 per laboratory staff, minimum 2	A2
Chair for laboratory worker (adm. duties)	1	A3
Table for laboratory worker (adm. Duties)	1	A3
8.2. Laboratory equipment		
Anaerobic jar	3	A1
Analytical balance	1	A1
Autoclave for labobatory, medium	1	A1
Binocular microscope	2	A1
Blood bank refrigerator	1	A1
Bunsen burner	1	A1
CD4 counting machine	1	A1
Centrifuge, small	1	A1
Chemistry analyser	1	A1
Differential counter	1	A2
Flammable liquid cabinet	1	A3
Haematology analyser	1	A1
Hot air oven	1	A2
Hot plate, controlled temperature	not done by group	A1
Laboratory incubator, medium	1	A1
Laboratory refrigerator/freezer	2	A2
Microhaematocrit centrifuge	1	A1
Micropipettes, automated	not done by group	A1
pH meter	1	A3
Roller/mixer	1	A1
RPR rotator	1	A1
Spirit lamp	2	A1
Timer	2	A1
Voltex for CD4 counting	not done by group	A1
Water bath	1	A3
Water distiller	1	A2
8.3 Miscellaneous		7.12
Cold box for sample referral	1	В
Fire extinguisher	1	В
First aid box	1	B
Sharps boxes	not done by group	B
Voltage stablisiliser/UPS on all electric equipment	1 for each electric device	A1
Wall clock	1	В
9. Radiology department		
Actinic marker	1	A1
Film processor, automatic	1	A2
Darkroom safety light holder	2	В
Dryer for manual film processor	1	A1
Electrolyte Silver Recovery Kit	1	В
Film hanger (set of five sizes)	4	 A1
HSG kit	not done by group	not rated
Lead apron	1 for patient, 1 for staff	A1

Method to calculate adequate quantity (assuming qualified staff)	Priority rating
1 pair	A1
1	A1
1	A1
not done by group	not rated
1	A2
1	A1
1	A3
1	С
2	В
1	В
1	В
1	В
1	В
1	С
1	В
1	С
2	В
	В
1	С
1	В
1	С
1	В
1	В
1	В
1	С
	C
	C
	B
	B
	C
1	С
	B
	B
	B
	B
1	B
1	В
	1 pair         1

# DHIS Equipment Budget Report

001	(AII)
Ownership	(All)
OUType	(AII)
OURurUrb	(AII)
SortOrder	(AII)
IndicatorShort	(AII)
IndType	(AII)
yPeriod	(AII)

Sum of SumCalc1		dPeriod
IndGroup	IndicatorName	2008/01/01
Equipment - BHCP Essential	Ambu bag for adults budget	450.00
	Ambu bag for children budget	0.00
	Autoclave, electrical, small budget	162.00
	Autoclave, non-electrical, 39litres budget	0.00
	Bed pan budget	0.00
	Bed side screen budget	-460.00
	Bowl, lotion, large budget	20.00
	Bowl, lotion, medium budget	60.00
	BP machine adult budget	0.00
	Bucket, stainless steel budget	0.00
	Chair for consulting staff budget	-60.00
	Chair for patient budget	-60.00
	Delivery bed budget	200.00
	Desk for consulting staff budget	-200.00
	Drainage set budget	0.00
	Dressing set budget	-60.00
	Dressing tray, medium budget	144.00
	Drip stand budget	282.00
	Examination couch without leg holders budget	-600.00

**Equipment Planning and Monitoring Procedures Manual** 

Examination couch, gynaecological budget Examination light budget	-1,300.00 -500.00
Foot stool, one-step budget	12.00
Galliport, medium budget Hospital bed. health centre/health post model with mattress	124.00
budget	2,400.00
Indicator, TST control spot, pac-300 budget	-2.00
Instrument tray, medium budget	0.00
Kidney dish medium, budget	0.00
Medicine trolley budget	0.00
Sterilising drum, medium budget	0.00
Sterilising drum, small budget	0.00
Stethoscope, foetal, pinard budget	65.00
Stove, kerosene, single burner budget	0.00
Suction pump electrical budget	1,350.00
Thermometer digital budget	-52.00
Timer 60 min budget	0.00
Vaccine coldbox budget	0.00
Vaccine fridge budget	-6,200.00
Vaginal speculum large budget	60.00
Wall clock budget	15.00
Food and water sample box budget	0.00
Suction pump foot-operated budget	230.00
Suturing set budget	156.00
Vaginal delivery/episotomy set budget	-8.00
Vaginal speculum medium budget	144.00
Torch medical budget	2.00
Weighing scale adult budget	100.00
Weighing trousers budget	180.00
Weighing scale infant beam type budget	300.00
Rapid diagnostic test for malaria budget	00.0
RPR rotator budget	-495.00
Spirit lamp budget	-40.00
Stool for laboratory worker budget	-60.00
	0.00

**Equipment Planning and Monitoring Procedures Manual** 

	Bucket for mixing chemicals budget Mayo table budget	40.00 0.00
Equipment - BHCP Essential Total		-3,601.00
Equipment - BHCP Non-Essential	Bed side cabinet locker budget	360.00
	Bowl, lotion, small budget	20.00
	BP machine child budget	0.00
	Ear syringe budget	0.00
	Equipment cabinet budget	2,500.00
	Galliport, large budget	136.00
	Lovibond comparator budget	0.00
	Stretcher, foldable budget	0.00
	Wastebin with lid budget	30.00
	Vaginal speculum small budget	10.00
	Thermometer jar budget	-12.00
	Infant cot bednet, treated budget	2.00
	Instrument tray, large budget	0.00
	Hospital bed back rest budget	0.00
	Urinal male budget	0.00
	Hospital bednet, treated budget	12.00
	Kidney dish large, budget	0.00
	Water filter for laboratory budget	0.00
	Water distiller for laboratory budget	0.00
Equipment - BHCP Non-Essential Total		3,058.00
Equipment - Non BHCP	Dental chair budget	0.00
	Dental syringe budget	0.00
	Bench top autoclave budget	10,000.00
	Instrument trolley budget	0.00
	Dental x-ray unit budget	0.00
	Dental amalgamator budget	0.00
	Dental film processor or developer budget	0.00
	Dental compressor budget	0.00
	Dentist stool budget	00.0
	Dental instrument cabinet budget	00.0
	Dental instrument tray budget Dental light curing unit budget	00.0
_	)	-

Dental light budget	0.00
Dental instrument set budget	00.0
Equipment - Non BHCP Total	10,000
Grand Total	9,457.00

