



THE REPUBLIC OF UGANDA

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES



Produced by Pharmacy Division
Ministry of Health, Government of Uganda

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FOREWORD

Various reports from supervision visits to health facilities have indicated that the infrastructure of the Essential Medicines and Health Supplies (EMHS) stores is poor in many facilities and that this is a major hindrance to the implementation of best practices in store and stock management.

In order to obtain up-to-date information on the status of the stores and dispensing rooms, the Ministry of Health commissioned a comprehensive assessment of public and private not-for-profit (PNFP) health facilities.

The Securing Ugandans' Right to Essential Medicines (SURE) programme supported the assessment by hiring a consultant to coordinate the data collection, analysis and report writing. The overall objective of the assessment were

- I. to establish the physical condition of EMHS stores and dispensing rooms in public and PNFP health facilities,
- II. to establish the readiness of medicine stores in public health facilities to embrace the e-governance policy and,
- III. to establish the capital investment required to bring the stores and dispensing areas up to an acceptable standard.

This report is a snapshot of the physical conditions of the store and dispensing area in the facilities on the day of inspection and it provides baseline data for future comparisons or interventions.

The main areas assessed were categorised as: key staff concerns (regarding EMHS), physical condition, adequacy, common services (such as electricity and water), and technology readiness. The extent of the defects was analysed and the rehabilitation costs were calculated.

It will be most appreciated if the report is used by stakeholders to mobilise the necessary resources for the rehabilitation of stores and dispensing areas. Readers will note that the report contains the full cost of rehabilitating the individual facilities assessed. The data has been aggregated by district to enable local authorities will understand the level of investment required for their particular districts. The report also provides the cost of individual items such as shelves, pallets and dispensing equipment to broaden the options, allowing choices to be made according to the level of support mobilised.

The Pharmacy Division will work with all stakeholders to coordinate the implementation of the recommendations in the report. We urge partners and stakeholders to use these finding when developing plans to support infrastructure rehabilitation in health facilities.



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LIST OF ACRONYMS

EMHS	Essential Medicines and Health Supplies
HC2-4	Health centres levels 2-4
HSSP	Health sector strategic plan
MoH	Ministry of Health
MSH	Management Sciences for Health
NDA	National Drug Authority
NRH	National referral hospital
PNFP	Private not-for-profit
RRH	Regional referral hospital
SCI	Store condition index
SoW	Scope of work
SURE	Securing Ugandans' Right to Essential Medicines
ToR	Terms of reference
USAID	United States Agency for International Development

1. EXECUTIVE SUMMARY

This report contains the results of the condition assessment of Essential Medicines and Health Supplies stores, housed in public health facilities in Uganda. The report is intended to inform the Ministry of Health, Management Sciences for Health and other stakeholders of the requirements to be fulfilled for the stores to meet the accepted standard. Ultimately, the information provided will serve as a basis for decision making.

The report is derived from the analysis of data on key functional elements of the stores' building structure. The results and findings are strictly a measure of the data and information obtained in the course of the fieldwork. The information was processed using a standard format and the results are presented in the same format. Below is a summary of the findings.

BACKGROUND

Securing Ugandans' Right to Essential Medicines (SURE) is a five-year programme financed by a grant from the United States government to Uganda and implemented by Management Services for Health (MSH) in conjunction with the Ministry of Health (MoH). The SURE programme is aimed at strengthening the national pharmaceutical supply system to ensure that Uganda's population has access to good quality essential medicines and health supplies.

MoH and the National Drug Authority (NDA) plan to implement a certification scheme for public sector medicine stores and dispensaries similar to the licensing system that applies to private outlets. Although the stores are reported to be in poor condition and/or in a state of disrepair, the physical state of the Essential Medicines and Health Supplies (EMHS) stores at public facilities has never been documented, making it difficult for the government to achieve the desired goal of providing quality essential medicines to Ugandans.

In line with the objectives of the SURE programme, MSH contracted Eng. Cyrus Sebwato to establish, among other things

- the physical condition of EMHS stores in public health facilities
- the EMHS shelving needs and draft specifications
- the adequacy of EMHS to support medicine storage
- the readiness of medicine stores in public health facilities to embrace the e-governance policy
- the capital investment required to bring the EMHS stores portfolio up to a reasonable standard for medicine storage

METHODOLOGY

The EMHS stores assessment was conducted in the standard phases of preparation, data collection, data management and analysis. First of all the functional elements of a standard medicine store were identified and then the defects in the functional elements of the assessed stores were registered according to certain pre-defined criteria. The overall condition was then determined by the weighted aggregation of the different conditions of each functional element.

An intervention strategy was identified and costed for each functional element condition. The overall investment requirement was obtained by summing the rectification costs of all the functional elements.

KEY FINDINGS

1. The operators of the health facilities identified the lack of shelves for both medicine stores and dispensaries as critical, followed by the poor physical condition of and/or the lack of storage space. These two elements constitute 79% of the shortfalls for medicine stores and 86% for dispensaries mentioned by operators.
2. Fifteen percent of the medical facilities lack medicine stores and 29% do not have an appropriate designated dispensing room. Kisubi Hospital is one of the facilities lacking both a store and a dispensary.
3. The overall physical condition of medicine stores and dispensaries is rated as *fair*. A better overall rating was, however, expected given that the majority of health facilities (over 90%) are HC2s and HC3s most of which are less than 10 years old. The *fair* condition rating is therefore an indication of either poor construction or insufficient maintenance.
4. A total of twenty two (22) HC4s and eight (8) hospitals have stores which are rated as *poor, very poor, improvised* or there is *no store* at all.
5. Almost 60% of the medicine stores nationwide and 80% of dispensaries need all their shelves replaced (100%) or the first time provision of shelves. A total of 14,802 stand-alone shelving units (measuring 600x1200x2000mm high) are required for medicine stores in all the 3,384 units assessed. A further 4,041 half-closed stand-alone shelving units of the same size are required for dispensing rooms/areas.
6. All of the medicine stores at service levels 2-4, with the exception of those in hospitals, cannot embrace e-governance due to their lack of basic infrastructure.
7. The overall required investment for all the necessary interventions is estimated to be USD 14.1million. Of this an estimated USD 6.7million is required for civil works on medicine stores, USD 1.0million for civil works on dispensaries, USD 4.4 million for medicine store shelves, USD1.6million for dispensary shelves, USD120,000 for pallets and the remaining USD200,000 for tools like fridges and dispensing trays. The estimates made for civil works on dispensaries considered only those health facilities with a properly designated dispensing room.

CONCLUSIONS AND RECOMMENDATIONS

This assessment provides information on the general condition of medicine stores and indicates the investment required to maintain the stores and dispensaries in a desirable condition.

We recommend that:

1. A condition assessment is carried out for 25% of the facilities every three years and a 100% assessment every fifteen years. This is a prerequisite for the meaningful maintenance and management of health infrastructure assets.
2. Medicine stores and dispensaries are housed together with other sections like OPD, maternity, laboratory, etc. Future condition assessments should target health facilities as a unit and the parts to be assessed should be chosen by sampling techniques rather than according to their function, the method adopted in this assessment.
3. Photographic evidence is part and parcel of any assets condition assessment. Although this was not possible in this assessment, future assessments should include photographs.

4. Health facility infrastructure mapping should be linked with the condition assessment in a database so that information about a particular health facility can easily be retrieved.

REPORT STRUCTURE

The report comprises the five (5) narrative sections:

Section 1 - Executive Summary

Section 2 - Introduction

Section 3 - Assessment Methodology and Approach

Section 4 - Findings

Section 5 - Conclusions and Recommendations

2. INTRODUCTION

WHY A STORES CONDITION ASSESSMENT?

The Government of Uganda, through the Ministry of Health, is committed to strengthening the national pharmaceutical supply system to ensure that Uganda's population has access to good quality essential medicines and health supplies, as outlined in Uganda's Health Sector Strategic Plan-II. The SURE programme, MoH and NDA plan to implement a certification scheme for public sector medicine stores and dispensaries, in line with the licensing system applicable for private medicine outlets. Public medicine stores and outlets must therefore meet the NDA standards for premises.

However, the EMHS stores at public facilities have been reported to be in poor condition and/or in a state of disrepair hindering the government from achieving the desired goal of providing quality essential medicines. Prior to this assessment, the condition of EMHS stores had not been properly assessed to establish the level of investment needed to bring them to the minimum desired standard.

Precise information on the state of the EMHS stores infrastructure was therefore needed to enable the development of the right policies and strategies to ensure that medicines are stored in safe and secure conditions and that the quality of the medicines is preserved. The assessment was designed to address the above-mentioned gap.

OBJECTIVES OF THE ASSESSMENT

Prior to this study, MSH prepared a description of the scope of work (SoW) listing what the study was expected to cover and indicating the anticipated timeframe. The original SoW was adjusted as the study progressed, culminating in the formulation of five major objectives. The assessment was to establish:

- 1) the overall average physical condition of the EMHS stores in public health facilities
- 2) the EMHS stores' shelving needs and to draft appropriate shelf specifications
- 3) the adequacy of the EMHS stores to support medicine storage in recommended conditions
- 4) the technology readiness of the medical stores in public health facilities to embrace the e-governance policy
- 5) the capital investment required to bring the stores' portfolio up to reasonable standards for medicine storage

DESCRIPTION OF EMHS STORES IN PUBLIC HEALTH FACILITIES IN UGANDA

Health services in Uganda are provided by national referral hospitals (NRHs), regional referral hospitals (RRHs), general hospitals and four levels of health centres (HCs) (Ministry of Health Uganda, 2010). The HC1, the lowest level in the health system, has no physical structure and is therefore of no significance in relation to this assessment.

Each of these health service delivery levels has a physical infrastructure which houses the EMHS store. In some cases, there is more than one store room per facility, particularly at hospital level.

Table 1 gives an indication of the number of health facilities at each level of service delivery. There are few hospitals and HC4s and this fact was taken into consideration in the choice of health facilities to be assessed in the study.

Table 1: Health facilities service delivery levels in Uganda

Level of facility	Ownership		Total	Percentage of total
	GOVT	NGO		
HOSPITAL	66	61	127	3.6
HC4	166	16	182	5.1
HC3	860	278	1138	32.1
HC2	1588	516	2104	59.3
TOTAL	2680	871	3551	100

(Source: Pharmacy Division, MoH)

Table 2: Distribution of health facilities in the MSH regions

Region	Districts	Hospitals	HC4s	HC3s	HC2s	Total
Central	23	43	51	304	508	906
Eastern	36	28	45	310	525	908
Northern	25	24	26	211	388	649
South western	16	20	39	165	450	674
Western	12	12	21	148	233	414
TOTALS	112	127	182	1,138	2,104	3,551

The structural makeup of a particular EMHS store is, by extension, a representation of the building morphology of a corresponding health facility and generally falls into the following categories commonly used in Uganda:

- a) Block wall construction
- b) Brickwork construction
- c) Mud and wattle
- d) Timber and plywood (in rare cases)

3. ASSESSMENT METHODOLOGY AND APPROACH

GENERAL PROCEDURE

The EMHS stores assessment was conducted in three distinct phases:

- Preparation
- Data collection
- Data management and Analysis

Phase 1- *preparation* - involved carrying out a comprehensive review of the relevant literature, identifying the functional elements of a typical EMHS store, identifying common defects in each of the functional elements and grouping them according to their level of defect, identifying general corrective/remedial strategies for each level of defect and developing a store condition assessment tool (a data collection tool).

During this phase, several discussions were held with the MoH's Pharmacy and Infrastructure Divisions, the SURE technical personnel and other stakeholders to fine-tune the assessment requirements and the collection tool and to make the assessors understand the need to respect the budgetary constraints. The tool was piloted during this phase. The outputs of this phase were an EMHS stores assessment form, a data collection instruction kit, a data collection budget, and the specifications for EMHS shelves.

Phase 2 - *data collection* - involved assessors (or data collectors) inspecting each of the stores and recording the observed defects by ticking off a corresponding defect in the data collection tool. The exercise was conducted by MSH and MoH staff at district level and was overseen by the MSH regional coordinators.

Phase 3 - *data management and analysis*- involved establishing the unit cost of the defect-remedial strategy for each functional element, analysing the data through standard activities like data sorting, data entry, data cleaning and calculating the required metrics and finally writing the report.

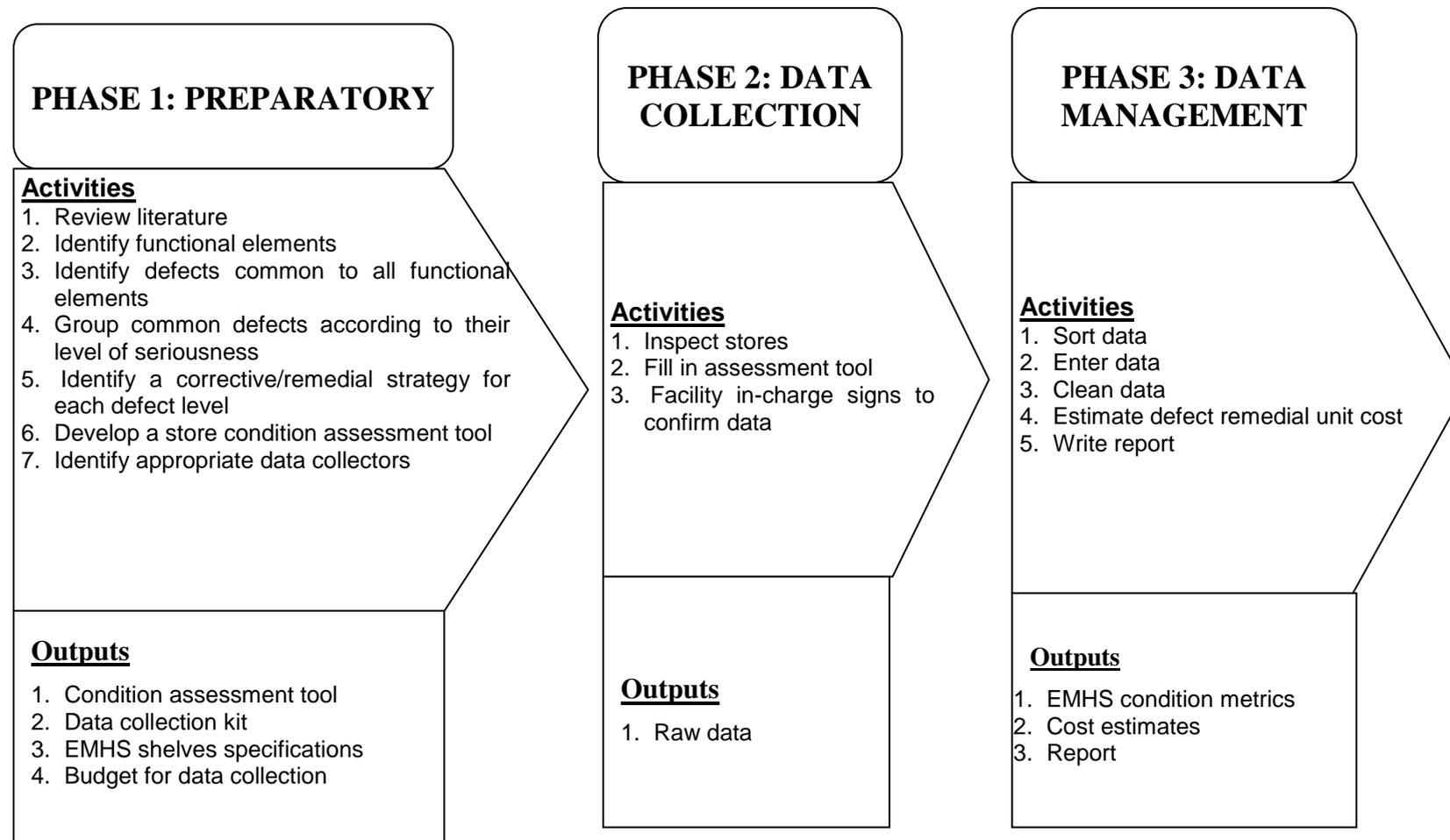
The procedure is presented schematically in Figure 1;

DATA COLLECTION TOOL/CHECKLIST

The condition of the EMHS stores was assessed by means of a visual inspection. A data collection tool (or checklist) was developed to be used by of the assessors for recording the condition of the stores (see Appendix 2). The tool was divided into seven sections: (i)identification, (ii) characterisation, (iii) key staff concerns regarding EMHS, (iv) physical condition assessment, (v) adequacy, (vi)shared/common services and (vii) technology readiness.

The *identification* section was used to capture the defining attributes of the health unit facility which in turn facilitated linking condition results to a particular health unit/store.

Figure 1: Process flow for EMHS store assessment



The *characterisation* section was used to collect data on the engineering and other features in the structural makeup of the health unit. These were necessary to establish any causation relationships and other statistical analysis.

The *key staff concerns* regarding EMHS section enabled the capture of defects that were not visible but known to users, and it also enabled the captures of users' priorities in relation to their stores.

The *physical condition assessment* section was used to capture defects in the stores. It was made up of ten subsections where each subsection targeted a particular functional element.

The *adequacy* section was intended to measure the adequacy of the stores to store drugs.

The *shared/common services* section captured information on the availability/state of shared services like electricity and water.

The *technology readiness* section was used to gauge whether the stores had the basic infrastructure required for a computerised store management system

Tool Piloting

The assessment tool was piloted in Mukono and Mityana districts to:

- i) Test its applicability to the various types of health facilities
- ii) Test the reliability/reproducibility of the tool
- iii) Test the validity of the tool
- iv) Estimate the time required to assess EMHS stores at the 4-levels of health facilities
- v) Identify problem in using the tool

Feedback from this exercise was used to further fine-tune the tool before the full-scale data collection exercise was launched.

SAMPLING DESIGN AND UNIT OF ANALYSIS

Sampling design

The sampling was designed to gather information from 100% of all health facilities and to cover at least one room in the medicine stores, supply stores and dispensaries at each health facility. Where more than one store category was present, as was the case at Mulago and other hospitals, the store room in the worst condition was assessed.

Unit of analysis

The basic unit of analysis for this assessment was the health centre unit. An aggregated unit of analysis at health service level was also used to allow for a comparison of health centre (HC) levels to be made.

The level of defect for each element was ticked off in a checklist and later aggregated using a formula to generate a numerical score for each store at a particular public health facility.

METHOD FOR EMHS STORES CONDITION ASSESSMENT

General methods for building condition assessment

The overall condition of a building is assessed through the summation of the conditions of the building's components, a diagnosis having been made of the extent of deterioration in the building's functional elements. In many countries, building condition assessment methods are statutory, for example, *The Portuguese method for building condition assessment*, 2007, the UK's *Housing Health and Safety Rating System – HHSRS* (Office of Public Sector Information, 2005), the EU's *Standard Condition Assessment of Building and Installation Components* (NEN, 2006, 2007). In other instances, there are non-statutory guidance standards such as the USA's *Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process* (ASTM E2018-1, 2001). Some countries, like Uganda, do not have any standard concerning building assessment, but the building regulations provide some guidance on the required condition of a habitable building.

Although all the above-mentioned standards may have differences in objectives, the methods and processes are similar: a building's condition is assessed by systematically registering the defects of the elements of an entire building according to pre-defined criteria. This approach was adopted for this study as described in the following sections.

Assessment Principle

The assessment was made on the basis of visual inspection and historical knowledge/information. Although the use of qualified surveyors as inspectors is recommended, this study used available MSH and MoH staff. This was possible because public health facility structures in Uganda are very basic and the assessment tool detailed all possible defects in simple everyday language.

The structure of a typical EMHS store was found to be made up of nine functional elements: the roof, ceiling, floor, exterior walls, internal walls, windows, doors, ventilators and external environment. Common defects for each of the nine functional elements were identified and grouped into different levels of measurement as outlined below.

Level of measurement

The function element defects were measured using a 5-level ordinal scale where level 1 is critical, level 2 severe, level 3 medium, level 4 slight and 5 minor or no defect. Each of the defect levels was linked to the severity and extent of the defect. The rules for linking an actual defect with a particular level are defined in the Table 3.

Table 3: Defect severity and level rules

Defect level	Defect name	Description of defect (single or combination)
1	Critical	➤ Defects that endanger health or safety and may cause major accidents, usually requiring substantial repairs or replacements
2	Severe	➤ Defects that endanger health or safety and may cause minor accidents ➤ Defects which are prejudicial to use or comfort, requiring substantial repairs
3	Medium	➤ Defects prejudicial to aesthetics, requiring substantial repairs
4	Slight	➤ Defects prejudicial to aesthetics, requiring simple repairs
5	Minor/none	➤ No intervention required

Adopted from the Portuguese method for building condition assessment (Pedro, Paiva, & Vilhena, 2008)

The coding of the defects is such that the final calculated store condition index (SCI) is pro-intuitive (as opposed to counter-intuitive), i.e. low value represents poor condition and high value represents good condition.

Weighting of functional elements

A weighting coefficient was linked to each functional element to depict the importance of that element. This ranged from 1, least important, to 5, most important. The functional elements which are crucial for ensuring the preservation of the quality of medicines were weighted 5 and those which determine the building's aesthetics and comfort of users were weighted 1. This resulted in weight coefficients for the functional elements as shown in Table 4.

Table 4: Weight coefficients of functional elements

Functional element	Weight coefficient
Roof	5
Ceiling	3
Floor	4
Exterior walls	5
Internal walls	3
Windows	2
Doors	1
Ventilators	1
External environment	1

Store condition index and its classification

The score of each functional element was calculated as the product of the defect rating and the weighting coefficient for that particular element.

The store condition index (SCI) was calculated as the quotient of the total scores for all functional elements and the sum of their weighting coefficients. The classification of the store's condition was based on the calculated SCI as shown in Table 5.

Table 5: Classification of store's condition in relation to SCI

Score	SCI ≥ 4.5	4.5 ≥ SCI ≥ 3.5	3.5 ≥ SCI ≥ 2.5	2.5 ≥ SCI ≥ 1.5	SCI < 1.5
Condition	Excellent	Good	Fair	Poor	Very Poor

EMHS STORES INFRASTRUCTURE ADEQUACY ASSESSMENT METHODOLOGY

The adequacy of health facilities to store and dispense essential medicines and health supplies was evaluated by considering the basic requirements for the preservation of the medicines and supplies. Discussions with MSH, SURE and MoH technical officers resulted in the adoption of a checklist based on a modification of Survey Forms 5 and 13 of the *Guide for coordinators and data collector in the WHO operational package for assessing, monitoring and evaluating country pharmaceutical situations*.

Eight conditions were assessed: temperature control mechanisms, temperature measurement means, air circulation, lighting, elimination of direct sunlight, cold storage availability, use of pallets and availability of dispensing trays.

SHELVING NEEDS ASSESSMENT

A section on shelving needs assessment was included in the tool, largely based on a combination of what the key actors at the health facilities considered to be adequate and on the space available to accommodate shelves. In general, 50% of the available storeroom area was considered to be the maximum area that could be allocated to shelving, leaving the remaining 50% for movement and circulation. This area requirement consideration in combination with estimated number of shelves per level of care (Table 6) were the basis for the final numbers indicated in this report. A standard shelf was assumed to be of the following dimensions; 600mm deep x 1200mm wide and 2000mm high. The criteria are summarised in Appendix 4

Table 6: Estimated requirement of shelves when store area is not known

Facility Level	STORE SHELVES		DISPENSARY SHELVES	
	No of shelves units	Unit cost (USD)	No of shelves units	Unit cost (USD)
Hospital	20	300	4	400
HC4	8	300	3	400
HC3	4	300	2	400
HC2	2	300	1	400

COST ESTIMATION

Civil works

Costing was based on a unit rate analysis using current market rates of inputs and labour charges. A particular defect correction requires specific inputs and these were costed for every health facility.

Shelves, pallets fridges and dispensing trays

Market rates for these items were used in combination with the required numbers. The required numbers per facility were based either on area (as in the case of store shelves) or health service level requirements (for example, a dispensing area needs closed shelves, pallets, fridges and dispensing trays) as detailed in Appendix 5

TECHNOLOGY READINESS ASSESSMENT METHODOLOGY

The technology readiness assessment measures the capability of the existing infrastructure to support information technology and associated equipment. This was included after discussions with Pharmacy Division officials who envisage that public EMHS stores will be required to adopt the e-governance policy which is in the offing. This assessment did not involve assessing the actual technology devices but was rather a review of the capacity of the infrastructure to embrace the planned e-governance.

The assessment addressed only five basic requirements: office furniture, power supply, power outlet provisions, computer availability and internet accessibility.

DATA ANALYSIS

Data entry was in an Adobe format which was later transformed into MS Excel. The use of Adobe allowed data collectors to enter the data in exactly the same format as the data collection tool.

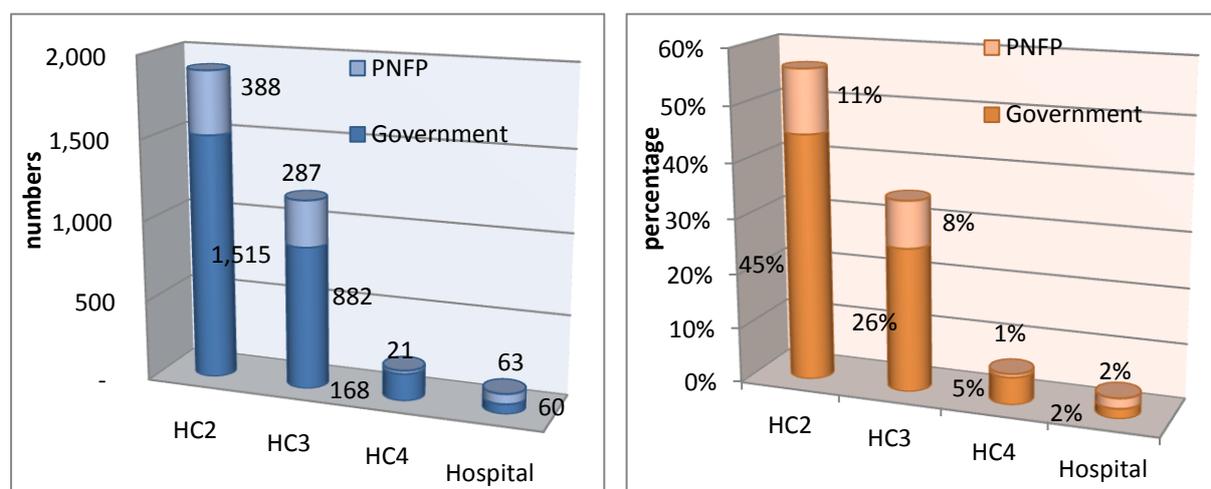
MS Excel was used for calculating costs and the store condition index and for preparing graphical presentations.

4. FINDINGS

COMPOSITION OF SURVEYED FACILITIES

Overall, a total of 3,384 health facilities were assessed constituting over 95% of the estimated 3,351 facilities in Uganda. The un-assessed facilities were in the three districts of Kabong, Kamuli and Kanungu. Of the assessed facilities, 78% were government owned and 22% were PNFP. The distribution at each health service level is as indicated in Figure 2.

Figure 2: Distribution of ownership and service level of assessed facilities



As expected, HC2s make up the majority at 56%, followed by HC3 at 34%, HC4 at 6% and hospitals are the least at 4%. This compares well with data obtained from the Pharmacy Division as shown in Table 7.

Table 7: Comparison of HF composition

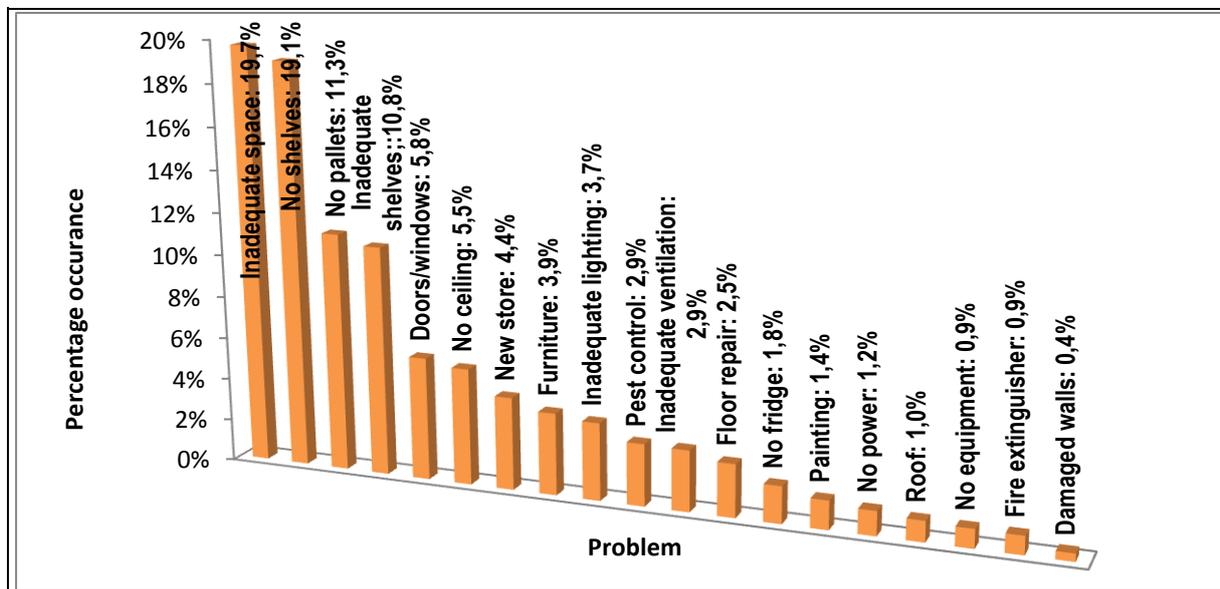
Service Level	Composition as per Pharmacy Division data		Composition as per this assessment	
	Numbers	%age	Numbers	%age
HC2	2,104	59.3	1,903	56.2
HC3	1,138	32.1	1,169	34.5
HC4	182	5.1	189	5.6
Hospital	127	3.6	123	3.6
Totals	3,551	100	3,384	100

FINDING 1: LACK OF SHELVES AND POOR PHYSICAL CONDITION MOST CRITICAL

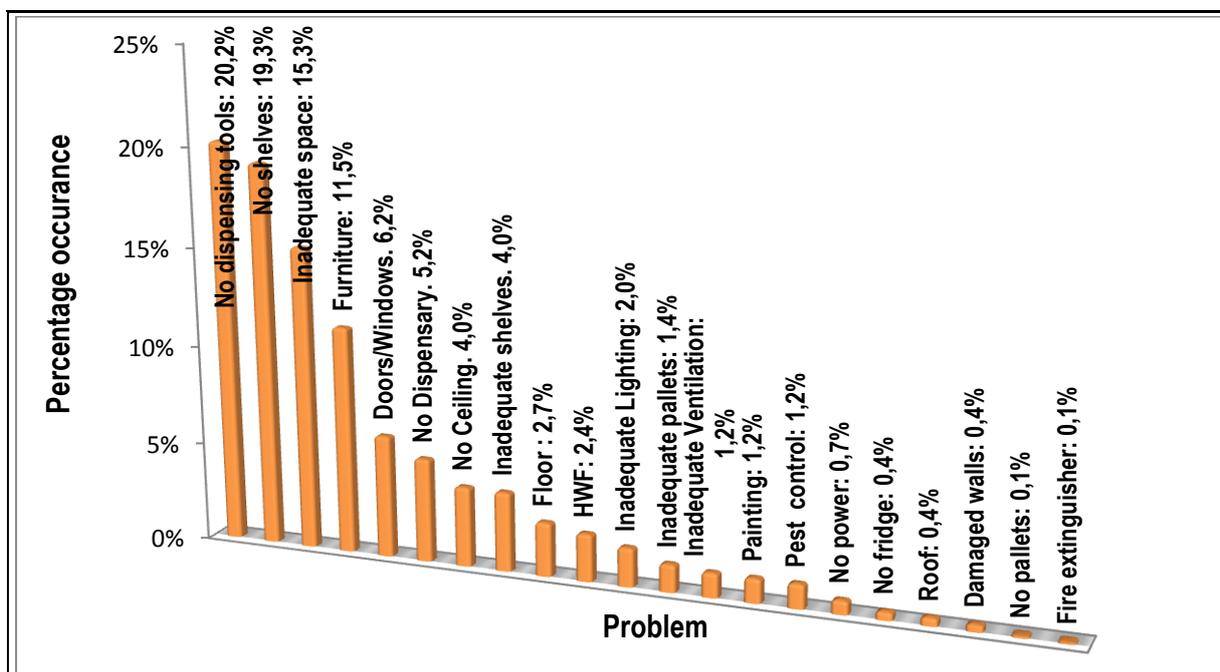
Two key health facility actors (in-charge and storekeeper) at each of the medical facilities assessed were required to state three major pressing problems associated with the physical condition of both the store and dispensary. In total, these officers identified 11,720 and 10,089 valid problems for medicine stores and dispensaries respectively, constituting over 200

different types of problems. The problems identified by the different actors were categorised in 21 and 19 themes for stores and dispensaries respectively and later grouped in six standard areas. The relative severity of these themes as reflected by the percentage number of times a particular problem was mentioned is shown in Figure 3.

Figure 3: Problems identified by health facility operators Medicine store

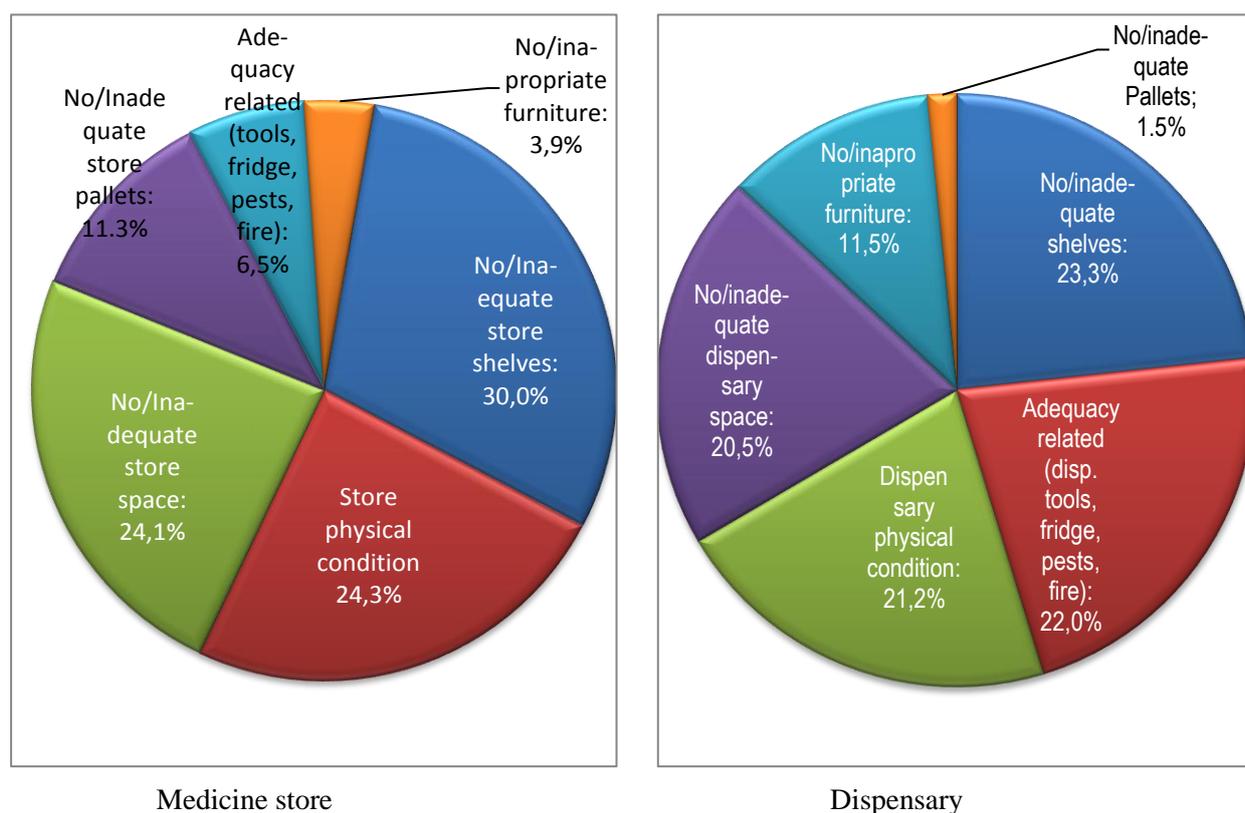


Problems identified by health facility operators Dispensary



The 19 and 21 problems were categorised in six broad groups as shown in Figure 4. The lack of shelves, the poor physical store conditions and the lack of storage space topped the list of problems identified by the key actors, representing almost 79% of the problems which facility operators want addressed in the medicine store category. In the case of dispensaries, the lack of shelves and dispensing tools, the poor physical condition of the dispensaries and the total lack of dispensaries constituted over 86% of the mentioned problems.

Figure 4: Major problems facility operators want addressed



FINDING 2: PRESENCE OF MEDICINE STORES AND DISPENSARIES

Nationally, 15% of the medical facilities lack medicine stores and 29% do not have an appropriate designated dispensing room. The percentage prevalence of medicine stores, supplies stores and dispensing rooms at every service level and their ownership is as indicated in Table 8.

Table 8: Presence of medicine and supplies stores and dispensing room

Service level	Medicine store			Supplies store			Dispensing room		
	GoU	PNFP	Combined	GoU	PNFP	Combined	GoU	PNFP	Combined
HC2	82%	74%	81%	2%	3%	2%	59%	56%	64%
HC3	91%	86%	90%	5%	4%	5%	72%	72%	77%
HC4	89%	95%	90%	13%	14%	13%	83%	86%	87%
Hospital	100%	97%	98%	43%	25%	34%	90%	87%	90%
All levels	86%	81%	85%	4%	6%	5%	66%	66%	71%

It is striking that even some hospitals lack a proper medicine store and dispensing room. Kisubi Hospital in Wakiso District and Mukwaya Hospital in Kampala do not have a medicine store. The hospitals without a designated dispensing room are shown in Table 9.

Table 9: Hospitals without a proper designated dispensing room

District	Hospital name
Budaka	Riverside Medical Research Centre
Buikwe	St Charles Lwanga Buikwe Hospital
Buikwe	Nkokonjeru Hospital
Bukwo	Bukwo
Kampala	Kampala Children's Hospital
Kampala	Murchion Bay Hospital
Oyam	Aber Hospital
Sheema	Kitagata Hospital
Wakiso	Kisubi Hospital
Wakiso	Saidina Abubakar Islamic Hospital Wattuba
Yumbe	Yumbe Hospital

FINDING 3: OVERALL MEDICINE STORE CONDITION IS RATED 'FAIR'

The overall average physical condition of the medicine stores is 3.4, with a 25th percentile, median and 75th percentile of 3.1, 3.5 and 4.4 respectively. This condition is rated as *fair*. Of the 3,384 medicine store facilities assessed, 32.5% are in *excellent* condition, 36.2% in *good* condition, 13.3% in *fair* condition and 4.2% in *poor* and *very poor* condition and the remaining 13.8% have no proper stores. This therefore means that 18% of the facilities assessed have medicine stores in either unacceptable condition or have no stores at all. A better rating had been expected, however, in view of the fact that the majority of the health facilities (almost 90%) are HC3 and HC2 which are generally less than 10 years old. A *fair* condition is an indication of either fast deterioration or inadequate/absence of maintenance.

The condition of medicine stores as categorised in service level and ownership is shown in Figure 5 and Table 9.

Figure 5: Medicine store condition by ownership and service level

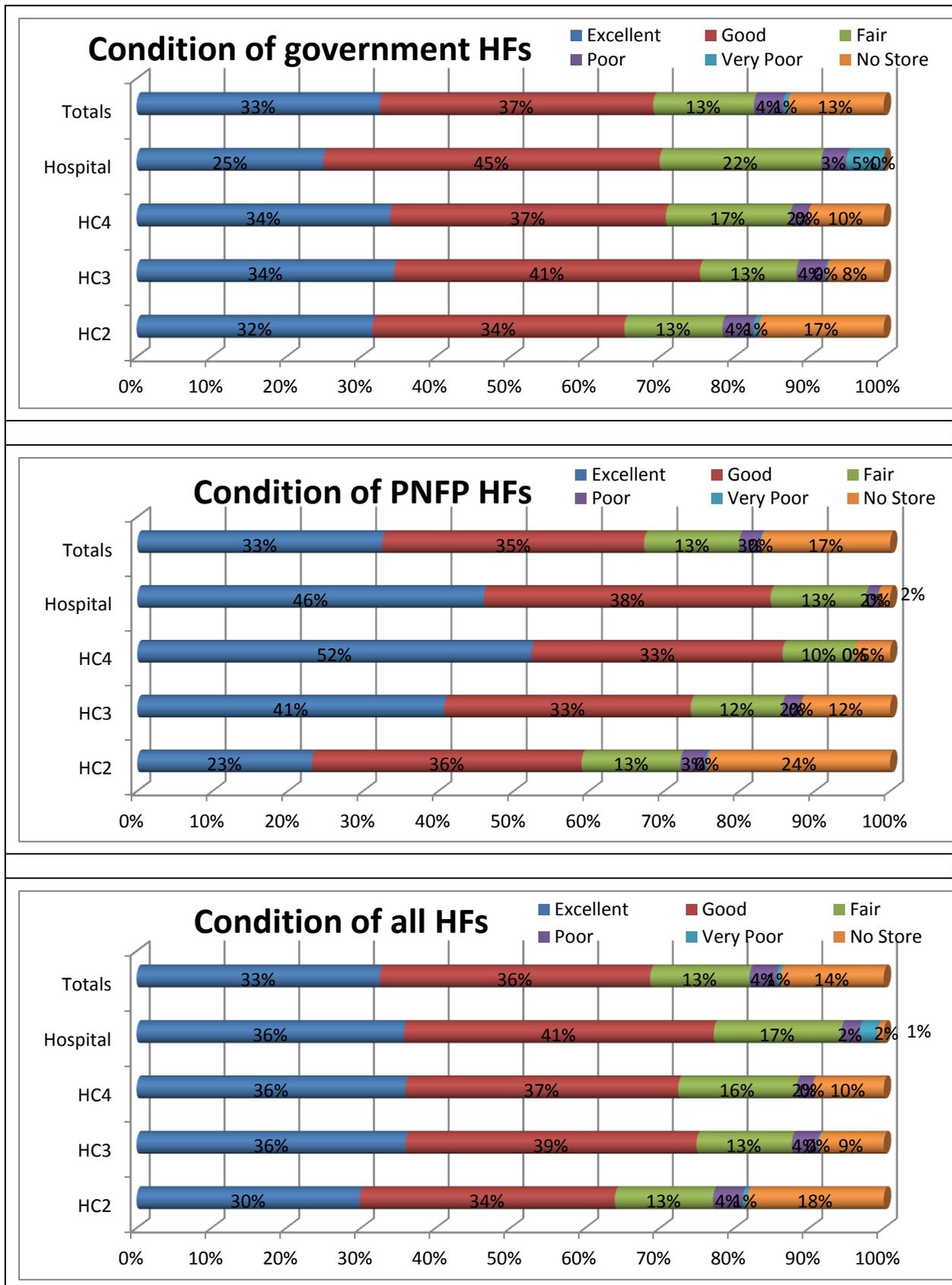


Table 10: Condition of medicine stores by ownership and service level

Ownership	Condition	HC2		HC3		HC4		Hospital		Totals	
Government	Excellent	478	32%	304	34%	57	34%	25%	25%	854	32.5%
	Good	511	34%	361	41%	62	37%	45%	45%	961	36.6%
	Fair	199	13%	114	13%	28	17%	22%	22%	354	13.5%
	Poor	63	4%	34	4%	4	2%	3%	3%	103	3.9%
	Very poor	11	1%	2	0%	-	0%	5%	5%	16	0.6%
	No store	253	17%	67	8%	17	10%	0%	0%	337	12.8%
	Subtotals	1,515		882		168		60		2,625	
PNFP	Excellent	90	23%	117	41%	11	52%	29	46%	247	32.5%
	Good	139	36%	94	33%	7	33%	24	38%	264	34.8%
	Fair	51	13%	35	12%	2	10%	8	13%	96	12.6%
	Poor	13	3%	7	2%	0	0%	1	2%	21	2.8%
	Very poor	1	0%	0	0%	0	0%	0	0%	1	0.1%
	No store	94	24%	34	12%	1	5%	2	3%	131	18.4%
	Subtotals	388		287		21		63		759	
Combined	Excellent	568	30%	421	36%	68	36%	44	36%	1101	32.5%
	Good	650	34%	455	39%	69	37%	51	41%	1225	36.2%
	Fair	250	13%	149	13%	30	16%	21	17%	450	13.3%
	Poor	76	4%	41	4%	4	2%	3	2%	124	3.7%
	Very poor	12	1%	2	0%	0	0%	3	2%	17	0.5%
	No store	347	18%	101	9%	18	10%	2	2%	467	13.8%
	Totals	1,903		1,169		189		123		3,384	

FINDING 4: OVERALL DISPENSARY CONDITION IS RATED 'FAIR'

The overall average physical condition of dispensaries is 2.96, with a 25th percentile, median and 75th percentile of 0 (no room), 3.8 and 4.6 respectively. As in case of medicine stores, the average condition is rated as fair. Out of the assessed 3,384 dispensaries, 29.8% are in excellent condition, 28.2% in good condition, 10.2% in fair condition, 2.4% in poor and very poor condition and 29.1 have no properly designated dispensing rooms. The condition of medicine stores categorised by service level and ownership is shown in Table 11.

These percentages and conditions are closely related to the figures for stores as shown in Figure 6, save for the absence of a dispensary or store room, largely because the two spaces are normally housed in the same building structure and are therefore exposed to similar environmental and maintenance interventions.

Table 11: Condition of dispensaries by ownership and service level

Owner	Condition	HC2		HC3		HC4		Hospital		Totals	
		no	%	no	%	no	%	no	%	no	%
Government	Excellent	478	26.3%	304	31.9%	57	37.5%	15	31.7%	854	29.0%
	Good	511	26.3%	361	30.4%	62	36.9%	27	41.7%	961	28.7%
	Fair	199	9.8%	114	11.7%	28	11.3%	13	16.7%	354	10.7%
	Poor	63	2.2%	34	2.0%	4	0.6%	2	3.3%	103	2.1%
	Very poor	11	0.5%	2	0.6%	0	0.0%	3	0.0%	16	0.5%
	No room	253	34.9%	67	23.5%	17	13.7%	0	6.7%	337	29.1%
	Subtotals	1,515		882		168		60		2,625	
PNFP	Excellent	90	23.2%	109	38.0%	14	66.7%	35	55.6%	248	32.7%
	Good	103	26.5%	81	28.2%	5	23.8%	13	20.6%	202	26.6%
	Fair	41	10.6%	27	9.4%	0	0.0%	7	11.1%	75	9.9%
	Poor	6	1.5%	6	2.1%	0	0.0%	0	0.0%	12	1.6%
	Very poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	No room	148	38.1%	64	22.3%	2	9.5%	8	12.7%	222	29.2%
	Subtotals	388		287		21		63		759	
Combined	Excellent	488	25.6%	390	33.4%	77	40.7%	54	43.9%	1009	29.8%
	Good	501	26.3%	349	29.9%	67	35.4%	38	30.9%	955	28.2%
	Fair	190	10.0%	130	11.1%	19	10.1%	17	13.8%	356	10.5%
	Poor	39	2.0%	24	2.1%	1	0.5%	2	1.6%	66	2.0%
	Very poor	8	0.4%	5	0.4%	0	0.0%	0	0.0%	13	0.4%
	No room	677	35.6%	271	23.2%	25	13.2%	12	9.8%	985	29.1%
	Subtotals	1,903		1,169		189		123		3,384	

Figure 6: Comparison of condition of medicine stores and dispensaries

FINDING 5: URGENT INTERVENTION NEEDED AT MEDICINES STORES IN 30 MAJOR HEALTH UNITS

Overall, 31% of medicine stores nationwide need some kind of intervention. A total of twenty-two (22) HC4s and eight (8) hospitals have stores which are categorised as poor, very poor, improvised or as having no store at all. These thirty facilities are shown in Table 12. The costing for interventions at the same thirty facilities is included as Appendix 6. The list of stores that are in fair and in less than fair condition per district and the relevant intervention costs are included as Appendix 7.

Table 12: Critical hospitals and HC4s

No	District	Name	Level	Owner	Score	Rating
1	Kampala	Mulago Referral Hospital	Hospital	MoH	2.12	Poor
2	Kampala	Mukwaya General Hospital	Hospital	PNFP others	NS	No Store
3	Mbale	Mbale Regional Referral Hospital	Hospital	MoH	1.36	Very Poor
4	Soroti	Soroti Regional Referral Hospital	Hospital	MoH	2.44	Poor
5	Tororo	St Anthony's Hospital	Hospital	Catholic	1.84	Poor
6	Tororo	Tororo General Hospital	Hospital	MoH	1.28	Very Poor
7	Wakiso	Kisubi Hospital	Hospital	Catholic	NS	No Store
8	Yumbe	Yumbe Hospital	Hospital	MoH	1.16	Very Poor
9	Arua	Oli HC	4	MoH	NS	No Store
10	Arua	Adumi HC	4	MoH	NS	No Store
11	Bulambuli	Muyembe HC	4	MoH	2.36	Poor
12	Dokolo	Dokolo HC	4	MoH	NS	No Store

No	District	Name	Level	Owner	Score	Rating
13	Gulu	Awach HC	4	MoH	1.84	Poor
14	Isingiro	Rugaaga HC	4	MoH	NS	No Store
15	Kaliro	Uganda Reproductive Health B	4	PNFP others	NS	No Store
16	Kaliro	Bumanya HC	4	MoH	NS	No Store
17	Katakwi	Astu HC	4	Police	NS	No Store
18	Koboko	Koboko HC	4	MoH	NS	No Store
19	Kotido	Kotido HC	4	MoH	NS	No Store
20	Kyankwanzi	Ntwetwe HC	4	MoH	NS	No Store
21	Kyegegwa	Kyegegwa HC	4	MoH	NS	No Store
22	Lira	Amach HC	4	MoH	NS	No Store
23	Masindi	Masindi Military HC	4	ARMY	NS	No Store
24	Masindi	Pts (Kabalye) HC	4	Police	NS	No Store
25	Mbarara	Bwizibwara HC	4	MoH	2.36	Poor
26	Nakaseke	Ngoma HC	4	MoH	NS	No Store
27	Rakai	Kakuuto HC	4	MoH	NS	No Store
28	Serere	Serere HC	4	MoH	NS	No Store
29	Sironko	Buwasa HC	4	MoH	NS	No Store
30	Wakiso	Buwambo HC	4	MoH	2.36	Poor

FINDING 6: SHELVING NEEDS

Almost 60% of the country's medicine stores and 80% of the dispensaries need either to have 100% of their shelves replaced or to have 100% new shelves provided. A total of 14,802 stand-alone shelving units (measuring 600x1200x2000mm high) are required for medicine stores in all the 3,384 units assessed. A further 4,041 half-closed stand-alone shelving units of the same size are required for dispensing rooms/areas. The numbers required for each service level and ownership is shown in Table 13.

Table 13: National shelving requirements for medicine stores and dispensaries

OWNERSHIP	Service level	Medicine store		Dispensary	
		No of facilities	No of shelves	No of facilities	No of shelves
Government	HC2	1,251	6,583	1,366	1,366
	HC3	583	3,341	724	1,444
	HC4	105	1,121	113	339
	Hospital	29	670	28	109
	Subtotal	1,968	11,715	2,231	3,258
PNFP	HC2	304	1,335	306	306
	HC3	188	1,190	171	341
	HC4	12	105	12	36
	Hospital	27	457	26	100
	Subtotal	531	3,087	515	783
Combined	HC2	1,555	7,918	1,672	1,672
	HC3	771	4,531	895	1,785
	HC4	117	1,226	125	375
	Hospital	56	1,127	54	209
	TOTAL	2,499	14,802	2,746	4,041

A similar breakdown for each district is included as Appendix 8.

FINDING 7: EMHS ADEQUACY FOR DRUGS STORAGE

The assessment evaluated the appropriateness of the areas being used by EMHS for

- i) storing medicines and related supplies in the case of their being used as medicine stores
- ii) dispensing medicines in the case of their being used as dispensaries.

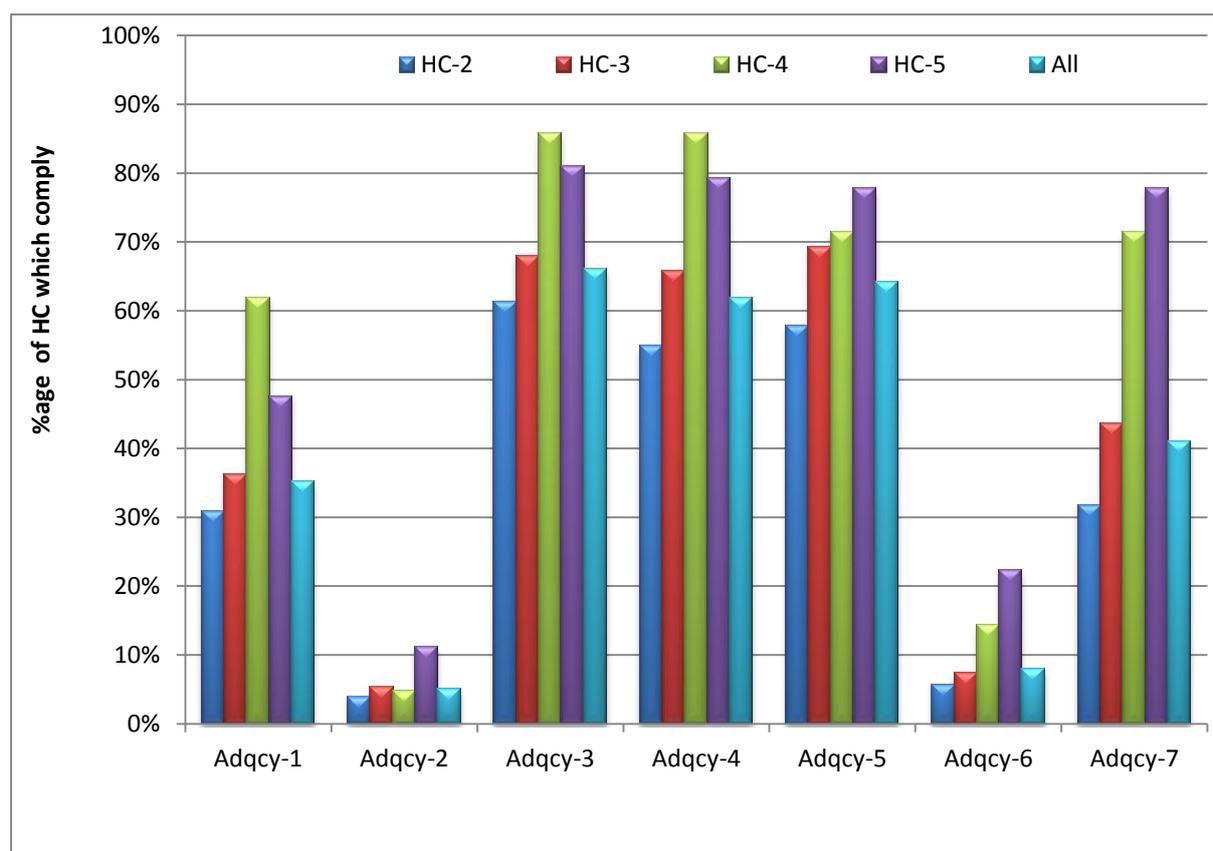
Seven required criteria were assessed for medicine stores and six for dispensaries. Table 14 and Figure 7 present the adequacy findings for stores and dispensaries respectively.

Table 14: Medicine store adequacy

Owner	Service level	Adqcy-1		Adqcy-2		Adqcy-3		Adqcy-4		Adqcy-5		Adqcy-6		Adqcy-7	
		No	%												
Government	HC2	585	39%	34	2%	1038	69%	970	64%	1021	67%	65	4%	96	6%
	HC3	366	41%	49	6%	563	64%	612	69%	572	65%	97	11%	120	14%
	HC4	84	50%	32	19%	107	64%	121	72%	117	70%	47	28%	47	28%
	Hospital	22	37%	13	22%	38	63%	45	75%	43	72%	24	40%	31	52%
	Total	1057	40%	128	5%	1746	67%	1748	67%	1753	67%	233	9%	294	11%
PNFP	HC2	128	33%	10	3%	236	61%	238	61%	225	58%	37	10%	35	9%
	HC3	118	41%	24	8%	184	64%	204	71%	205	71%	70	24%	41	14%
	HC4	15	71%	2	10%	18	86%	16	76%	17	81%	11	52%	7	33%
	Hospital	34	54%	17	27%	49	78%	51	81%	51	81%	39	62%	42	67%
	Total	295	39%	53	7%	487	64%	509	67%	498	66%	157	21%	125	16%
Combined	HC2	713	37%	44	2%	1274	67%	1208	63%	1246	65%	102	5%	131	7%
	HC3	484	41%	73	6%	747	64%	816	70%	777	66%	167	14%	161	14%
	HC4	99	52%	34	18%	125	66%	137	72%	134	71%	58	31%	54	29%
	Hospital	56	46%	30	24%	87	71%	96	78%	94	76%	63	51%	73	59%
	Total	1352	40%	181	5%	2233	66%	2257	67%	2251	67%	390	12%	419	12%

Note: Adqcy-1: Method in place to control temperature, Adqcy-2: Max.-min. thermometer, Adqcy-3: Adequate air circulation, Adqcy-4: No direct sunlight, Adqcy-5: Adequate lighting, Adqcy-6: Cold storage, Adqcy-7: Pallets

Figure 7: Adequacy of dispensaries



Note: Adqcy-1: Method in place to control temperature, Adqcy-2: Max.-min. thermometer, Adqcy-3: Air circulation is adequate, Adqcy-4: No direct sunlight, Adqcy-5: Adequate lighting, Adqcy-6: Pallets, Adqcy-7: Dispensing trays

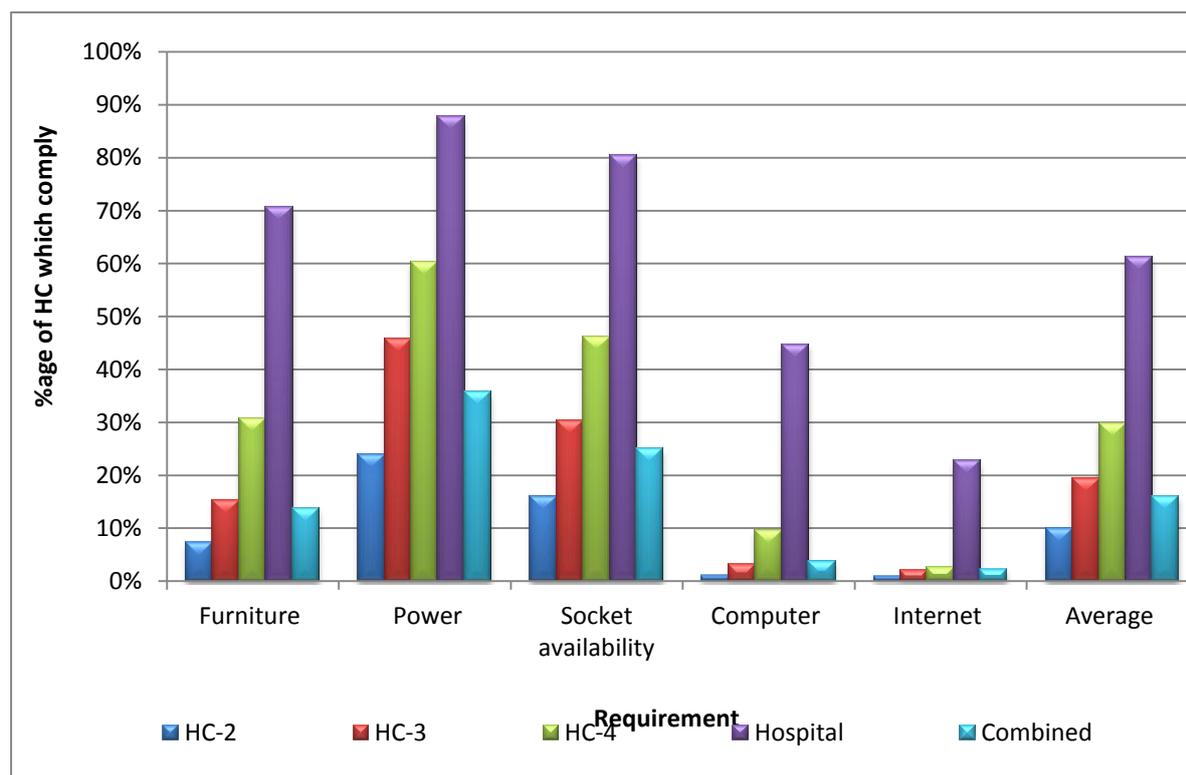
FINDING 8: TECHNOLOGY READINESS

With the exception of hospitals, medicine stores at all other health service levels are not ready to embrace e-governance as shown in Table 15 and Figure 8. If e-governance is to be rolled out to all medicine stores at all service levels, there are some basic power installations to be made and some re-tooling to be done.

Table 15: Readiness for e-governance at health facility medicine store level

Service level	Furniture	Power supply	Sockets	Computer	Internet	Average
HC2	7%	24%	16%	1%	1%	10%
HC3	15%	46%	30%	3%	2%	19%
HC4	31%	60%	46%	10%	3%	30%
Hospital	71%	88%	80%	45%	23%	61%
ALL	14%	36%	25%	4%	2%	16%

Figure 8: Readiness for e-governance at health facility medicine store level



FINDING 9: REQUIRED INVESTMENT

The required investment per facility was estimated using the procedure explained in Chapter 2. An overall required investment for all the necessary interventions is estimated to be USD 14,127,879. The breakdown per service level, intervention strategy and ownership is as shown in Table -16.

Note that issues concerning information technology readiness intervention were not costed and not included in the estimate.

Table 16: National required investment for medicine stores and dispensaries

Owner	Description	HC2	HC3	HC4	Hospital	Total
Government	Medicine store civil works	3,277,137	1,171,753	311,474	175,440	4,935,804
	Dispensary civil works	434,998	251,098	56,975	79,171	822,243
	Medicine store shelves	1,974,900	1,002,300	336,300	201,000	3,514,500
	Dispensary shelves	546,400	577,600	135,600	43,600	1,303,200
	Pallets (only stores)	35,725	38,250	15,250	6,000	95,225
	Fridges (only stores)	-	-	71,995	28,620	100,615
	Dispensing trays (only dispensaries)	24,580	12,800	4,360	1,800	43,540
	Subtotal	6,293,740	3,053,802	931,954	535,631	10,815,127
PNFP	Medicine store civil works	1,155,240	507,645	21,007	138,219	1,822,111
	Dispensary civil works	85,195	74,943	3,708	25,570	189,416
	Medicine store shelves	400,500	357,000	31,500	137,100	926,100
	Dispensary shelves	122,400	136,400	14,400	40,000	313,200
	Pallets (only stores)	8,925	12,400	1,750	4,200	27,275
	Fridges (only stores)	-	-	5,950	19,080	25,030
	Dispensing trays (only dispensaries)	5,300	3,240	240	840	9,620
	Subtotal	1,777,560	1,091,627	78,555	365,009	3,312,752
Combined	Medicine store civil works	4,432,377	1,679,398	332,481	313,658	6,757,915
	Dispensary civil works	520,193	326,041	60,683	104,742	1,011,659
	Medicine store shelves	2,375,400	1,359,300	367,800	338,100	4,440,600
	Dispensary shelves	668,800	714,000	150,000	83,600	1,616,400
	Pallets (only stores)	44,650	50,650	17,000	10,200	122,500
	Fridges (only stores)	-	-	77,945	47,700	125,645
	Dispensing trays (only dispensaries)	29,880	16,040	4,600	2,640	53,160
	TOTALS	8,071,300	4,145,429	1,010,510	900,640	14,127,879

The required investment per district for each recommended intervention strategy is shown in Appendix 9.

5. CONCLUSION AND RECOMMENDATIONS

CONCLUSION

An infrastructure condition assessment is a prerequisite for successful asset management. This assessment provides information on the general conditions of medicine stores and indicates the required investment to maintain the stores and dispensaries in a desirable condition.

RECOMMENDATIONS

- 1) As the condition of infrastructural assets change with time, it is important to make provisions for a condition assessment at least once every three years to update planning figures. This could be done by applying the generally accepted principle of a 25% survey on a 3-year basis and 100% survey on 15-year basis.
- 2) As medicine stores and dispensaries are housed together with other sections, such as the OPD, maternity unit, laboratory etc, the next assessment should target the health facility as a unit and the parts to be assessed should be chosen using sampling techniques rather than being chosen according to their function as was the case in this assessment.
- 3) Photographs form an important part of assessment but photographs were not included in this assessment. The next assessment should include photographic evidence.
- 4) Although the MoH has undertaken a health facility mapping, this needs to be done in conjunction with the condition assessment and the data from both exercises linked in a database so that information about a particular health facility can easily be retrieved.

6. REFERENCES

- 1) ASTM International. (2002). *Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process*1. West Conshohocken: ASTM International.
- 2) Chew, M. Y. (1998). *Maintainability of Facilities for Building Professionals*. Singapore: World Scientific Publishing Co. Pte. Ltd.
- 3) Chew, M., Wong, C., & Kang, L. (1998). *Building Facades; A Guide to Common Building Defects in Tropical Climates*. Singapore: World Scientific.
- 4) John Snow, DELIVER-World Health Organization. (2003, December). *Guidelines for Storage of Essential Medicines and other Health Commodities*. Retrieved April 2012, from World Health Organisation:
http://deliver.jsi.com/dlvr_content/resources/allpubs/guidelines/GuidStorEsse_Pock.pdf
- 5) Ministry of Health Uganda. (2010). *Health Sector Strategic Plan-III, 2010/11-2014/15*. Retrieved 06 11, 2012, from http://www.health.go.ug/docs/HSSP_III_2010.pdf
- 6) Parliament of Uganda. (Revision 2000). The public health (building) regulations. *Statutory Instrument 281-1* . Uganda.
- 7) Pedro, J. A., Paiva, J. A., & Vilhena, a. A. (2008). Portuguese method for building condition assessment. *Structural Survey* , Vol. 26 (No. 4, 2008), 322-335.
- 8) USA Naval Facilities Engineering Command. (1993). *Inspection of Shore Facilities*. Alexandria-Virginia: Naval Publications and Forms Center.
- 9) Vilhena, A., Pedro, J. B., & Brito, J. d. (2011). Comparison of Methods used in European Countries to Assess Buildings' Condition. *International conference on durability of building materials and components*. Portal - Portugal: XII DBMC.
- 10) World Health Organisation. (2007, December). *WHO operational package for assessing, monitoring and evaluating country pharmaceutical situations - Guide for coordinators and data collectors*. Retrieved April 2012, from World Health Organisation:
apps.who.int/medicinedocs/documents/s14877e/s14877e.pdf

7. APPENDICES

APPENDIX 1: SCOPE OF WORK (TOR)

TERMS OF REFERENCE FOR A CONSULTANT TO ASSESS MEDICINE STORES AND PHARMACY REHABILITATION & ESSENTIAL EQUIPMENT NEEDS

1. Background

The US Agency for International Development (USAID)-funded programme, Securing Ugandans' Right to Essential Medicines (SURE), aims to assist the Government of Uganda's and the Ministry of Health's commitment to strengthen the national pharmaceutical supply system to ensure that Uganda's population has access to good quality essential medicines and health supplies.

In part, the SURE programme is supporting health facilities through the MMS structures to implement best practices in medicines management including, among others, the application of best practices in stores and stock management. Various reports point to poor health facility store design and/or a state of disrepair contributing to waste and inappropriate medicines management.

There is a need to assess the level of investment required to bring all health facility stores to a state of good repair and to provide the minimum essential equipment to enable the health facility to apply good practices in store and stock management.

The SURE programme, the Ministry of Health and the National Drug Authority (NDA) are collaborating to implement a certification scheme for public sector stores, pharmacies and dispensaries in line with the licensing system applicable in the private sector medicines outlets. This certification requires that Public sector medicines outlets meet the NDA standards for premises. In this respect, support to rehabilitation and equipping of health facilities stores is much needed.

Therefore, the SURE programme seeks to recruit a consultant to assess the state of the stores, pharmacies and dispensaries within the public sector to provide an overview of the needs in terms of construction modification, rehabilitation, repairs, shelving etc that will be required to sufficiently upgrade the facilities to the required level for certification.

2. Purpose of the Consultancy

The purpose of the store infrastructural rehabilitation assessment is to document and accurately describe the public sector store/pharmacy and dispensary room including but not limited to their dimension/size & sketch, location, walls, floor, ceiling, roof, temperature control (fans, A.C, windows), temperature monitoring, cool & cold storage facilities, shelves/cupboards (size, number & state), pallets, ventilation, security provisions, power supply & back up, lighting, fire extinguisher, furniture, dispensing facilities, water supply, IT equipment, windows/doors, etc.

An accurate understanding of the current state of the existing facility store infrastructure shall increase the probability of successful planning, development, and deployment of rehabilitation solutions.

3. Scope of Work

- Develop a data collection tool and self explanatory guidelines for the national medicine stores assessment. The tool will be developed in close collaboration with the MOH infrastructure division, Pharmacy Division, Ministry of Public works, Districts, Implementing Partners and SURE and will be piloted before finalized.
- Data collection tool will be filled by districts, MMS, IP or others using the tool and the guidelines and data will be collected for central analysis by the consultant. Present planned assessment approach to Ministry of Health and SURE for approval.
- Undertake data analysis and where needed obtain further data by phone and if required undertake field visits to clarify or obtain further data.
- The consultant will for each facility provide specifications and cost estimates of the store rehabilitation works and equipment for all districts.
- Working with SURE and Ministry of Health capture any additional information/data that may be relevant to the planned physical rehabilitation and or shelving of the medicine stores.
- To address the immediate shelving needs, assess needs and develop alternative shelving construction designs, prepare product and material specifications and cost estimates for improving shelving in health facilities for the 45 SURE-supported districts.

4. Deliverable

- An activity implementation plan of the assignment
- Data collection Tools & guidelines
- Meeting with Pharmacy and Infrastructure Divisions to present and review the assessment tool
- Specification and costing of the essential store equipment per level of care
- Recommended changes in store construction specifications and cost estimates based on average volume and nature of medicines and medical supplies at a representative facility in each facility category.
- Findings of the study; a Stores Assessment & Equipment Needs Report and presentation
- Recommended rehabilitation plans (specification and cost estimates of the store rehabilitation works and equipment needs per facility per district)
- Shelving Needs Assessment and approved shelving design concepts and specifications (3 days)

5. Time lines

- Shelving Design and specifications 2 days
- Methodology and tools development including piloting: 2 weeks
- Data analysis and costing: 6 weeks
- Reporting: 2 weeks
- Total level of effort: 10 weeks (1 week = 5 working days) or 52 days

- Starting date: 1st February, 2012.

6. Desired Qualification (Education, experience and competencies)

- A degree in Civil Engineering or related training or certification.
- A minimum of 6 years of experience providing Cost Estimating/Quantity Survey services in construction or construction management companies.
- Strong technical background and working knowledge of construction work of comparable scope and nature particularly in the health sector.
- Good analytical capability and attention to detail and ability to interpret and develop engineering documentation such as drawings, specifications, scope of works, etc
- Excellent working knowledge for preparing cost estimates of all phases of engineering design, including Structural, Mechanical, Electrical and Plumbing.
- Good communication and negotiation skills, ability to work effectively and harmoniously with colleagues from varied cultures and professional backgrounds
- The Consultant shall have working knowledge of Uganda's medicines management matters and demonstrate familiarity with Uganda's health sector and socio-economic issues.

APPENDIX 2: DATA COLLECTION TOOL

CONDITION ASSESSMENT OF ESSENTIAL MEDICINES AND HEALTH SUPPLIES (EMHS) STORES IN PUBLIC HEALTH FACILITIES IN UGANDA

SECTION-0 INTRODUCTION

This Data collection tool is intended to obtain information that will be used in establishing the ‘Condition of Essential Medicines & Health Supplies (EMHS) Stores in Public Health Facilities’ within Uganda for purposes of developing policies and strategies which will ensure that Medicines are stored in safe and secure conditions that preserve medicines quality. The assessment is to be conducted on all the about 3,400 public health facilities (Government owned and PNFP) in Uganda.

The assessment is sectioned into seven parts namely

- Section 1; Identification
- Section 2: Characterisation
- Section3: Key staff concerns regarding EMHS
- Section 4: Physical condition assessment
- Section 5: Adequacy,
- Section 6: Shared/Common services and
- Section 7: Technology readiness.

Brief Procedure

At District offices, District supervisors ensure that;

All Assessors/Data collectors have the necessary Introduction letters and other logistics

Identify location of the facilities and the most efficient way and sequence to cover all of them

Read through the data collection tool with all assessors and ascertain that all understand and know what is expected on then

Allocates the number of Health facilities to be covered by each assessor

At the facility level (public health facility)

Fill in your details (the Assessor) and the time you arrive at the health facility on page 3

Introduce yourself to Key facility staff/ IN-CHARGE.

The introduction should be as follows;

My name is I am
(Mention your job designated title and branch office, and present your identification)

I am sent here by the Ministry of Health to assess the condition of medicines and Health supplies stores at your health facility. The information obtained from this assessment will be used to plan for the efficient and proper storage of drugs at all health facilities in Uganda. Your participation in this assessment is therefore extremely important in order to correctly obtain this information. The assessment will take approximately 50minutes which I request you to spare.

Proceed and get answers to sections 1& 3, and parts of section 2(specifically item 2.1, 2.6 and 2.7 of the collection tool.

Request the IN-CHARGE to introduce you to both the store-keeper and the Dispensing staff

Enquire whether IN-CHARGE is able to join you in the assessment, otherwise proceed with the assessment of the medicine store as per data collection tool order.

Where no particular store-room is provided at the facility, indicate this by filling in section 2.1 as zero and skip sections 4.1 to 4.10

Assessor's Name _____ Assessor's Title _____

Assessment Date _____ Time of arrival at Facility: _____

SECTION 1: IDENTIFICATION

1,1	HC Name:				
1,2	HC code Number:				
1,3	HC level (<i>Tick appropriately</i>)	<i>Hospital</i>	<i>HC4</i>	<i>HC3</i>	<i>HC2</i>
1,4	Ownership (<i>Tick appropriate box</i>)	Government Owned		Private Not For Profit (PNFP)	
		<i>Authority</i>	<i>Box</i>	<i>Authority</i>	<i>Box</i>
		Ministry of Health(MoH)		Catholic Church	
		Police		Church of Uganda	
		Prison		Muslim Supreme Council	
		Army		Orthodox	
		Others		Others....	
1,5	District				
1,6	County				
1,7	Sub-county/Town Council				
1,8	Parish				
1,9	Village				

SECTION 2: CHARACTERISATION

2, 1	No. of rooms for store/dispensary	Medicine Store		Supplies Store		Dispensary
	Room sizes/dimensions	Room -1	Room -2	Room -1	Room -2	Dispensary
2, 2	Length (m)					
2, 3	Width (m)					
2, 4	Headroom(height)-(m)					
2, 5	Room shape					
2, 6	Year Constructed:					
2, 7	Type of construction (for medicine store/dispensary)	Mud & wattle	Earth blocks	Timber	Burnt clay bricks	Cement blocks

SECTION 3: KEY STAFF CONCERNS REGARDING MEDICINE STORE (*Interview the In-Charge, Store Keeper and Dispenser*)

Administer the following question to two respondents as indicated below;

Respondent-1; FACILITY IN-CHARGE/ADMINISTRATOR

Name of Respondent..... Position,

What are the most three pressing problems concerning MEDICINES STORAGE AND DISPENSING AREA that you would want corrected? (e.g. re-arranging store, shelves repair, constructing floor etc.)

3,1	Medicine Stores
A	
B	
C	

3,2	Dispensing Area
a	
b	
c	

Respondent-2; STORE KEEPER/DISPENSING STAFF

Name of Respondent..... Position

What are the most three pressing problems concerning MEDICINES STORAGE AND DISPENSING AREA that you would want corrected? (E.g. re-arranging store, shelves repair, constructing floor etc.)

3,1	Medicine stores
A	
B	
C	

3,2	Dispensing Area
a	
b	
c	

SECTION 4: PHYSICAL CONDITIONS ASSESSMENT**‘4.1 Roof;**

Inspect ROOF, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a	b	c	d		
			Medicine store	Supplies store	Dispensary
Identifier	Defect Category	Common ROOF Deficiencies	TICK-OFF		
			Medicine store	Supplies store	Dispensary
1	Critical defect	Sagging/deflected roof due to rotten truss			
		Sagging/deflected roof due to violent storm			
		Major leakage			
2	Severe defect	Substantial leakage due to poor workmanship			
		Substantial leakage due to damage, Asbestos is the used roofing material			
		Insufficient eave width (rain is blown into store's window)			
3	Medium defect	Sagging/deflected due to poor workmanship			
		Isolated Leakage near/around sheet fixing nails, missing tiles			
4	Slight defect	Rusted iron sheets			
		Unpainted			
5	None/ Minor defect	Free of evidence of leakage			
		No Visible defect			

‘4.2 Ceiling;

Inspect CEILING, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a Identifier	b Defect Category	c Common CEILING Deficiencies	d TICK-OFF		
			Medicine store	Supplies store	Dispensary
1	Critical defect	Sagging/deflected ceiling			
		Major Failure cracks			
		Termite infestation			
2	Severe defect	No ceiling			
3	Medium defect	Moderate cracks			
		Heavy infestation by Bats			
		Missing ceiling tiles or boards			
		Ceiling Damp			
		Ceiling Defaced			
4	Slight defect	Minor cracks			
		Water stain			
		Unpainted			
5	None/Minor defect	Well painted			
		No Visible defect			

‘4.3 Floor;

Inspect FLOOR, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a	b	c	d		
Identifier	Defect Category	Common FLOOR Deficiencies	TICK-OFF		
			Medicine store	Supplies store	Dispensary
1	Critical defect	No floor			
		Excessive damage-pothole type			
2	Severe defect	Severe cracking			
		Floor Highly delaminated/peeling off concrete			
		Water highly ponds on floor			
		Defaced-difficult to clean			
3	Medium defect	Moderate cracks			
		Some areas are delaminated			
		Missing tiles			
4	Slight defect	Minor cracks			
		Starting to deface			
5	None/Minor defect	Smooth and easy to clean			
		No Visible defect			

‘4.4 External Walls; (Walls with ‘outside’ contact)

Inspect External walls, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a	b	c	d		
Identifier	Defect Category	Common WALL Deficiencies	TICK-OFF		
			Medicine store	Supplies store	Dispensary
1	Critical defect	Wall looking dangerous			
		Severely cracked			
		Wall separation			
		Wall slanting/not vertical			
2	Severe defect	Damaged wall			
		Major crack but still strong			
		Wall separation			
		Bulges			
3	Medium defect	Major Water penetration /Dampness(>150mm high)			
		Weak/Loose plaster			
		Plaster Spalls/peels off walls			
		No plaster			
4	slight defect	paint peeling/defacing			
		Slight Water penetration /Dampness (<150mm high)			
5	None-Minor defect	Minor			
		No Visible defect			

‘4.5 Internal Walls; (Walls without any ‘outside’ contact)

Inspect internal walls, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a	b	c	d		
			TICK-OFF		
Identifier	Defect Category	Common WALL Deficiencies	Medicine store	Supplies store	Dispensary
1	Critical defect	Wall looking dangerous			
		Severely cracked			
		Wall separation			
		Wall damaged by termites			
		Wall slanting/not vertical			
2	Severe defect	Damaged wall			
		Major crack but still strong			
		Wall separation			
		Bulges			
3	Medium defect	Major Water penetration /Dampness(>150mm high)			
		Weak/Loose plaster			
		Plaster Spalls/peels off wall			
		No plaster			
4	Slight defect	Paint peeling/defacing			
		No paint			
		Slight Water penetration /Dampness (<150mm high)			
5	None-Minor defect	Minor			
		No Visible defect			

‘4.6 Windows;

Inspect Windows, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a	b	c	d		
			TICK-OFF		
Identifier	Defect Category	Common WINDOW Deficiencies	Medicine store	Supplies store	Dispensary
1	Critical defect	No window			
		Main frame rotted/insect damaged			
		Main frame heavily rusted			
2	Severe defect	Window too narrow for store			
		No burglar proofing/sash			
		No/difficult locking			
3	Medium defect	Window is level is low(<i>less than 1.5m from floor/dpc</i>) and easily blocked by shelves			
		Difficult opening/closing			
		No/missing glass panes			
4	Slight defect	Broken/cracked glass panes			
		Water intrusion			
		Paint peeling/defacing			
5	None-Minor defect	No insect mesh			
		No paint			
		No Visible defect			
		Looks perfect			

‘4.7 Door;

Inspect Door, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a	b	c	d		
			TICK-OFF		
Identifier	Defect Category	Common DOOR Deficiencies	Medicine store	Supplies store	Dispensary
1	Critical defect	No door			
		Frame & shutter rotted/insect damaged			
		Main frame heavily rusted			
2	Severe defect	Door too small for store			
		Rotten/warped shutter but good frame			
		Shrinkage with cracking			
3	Medium defect	Damaged shutter			
		Poor fitting preventing easy operation			
		No/difficult locking			
4	Slight defect	Good door but Defaced			
		No paint			
5	None-Minor defect	No Visible defect			
		Looks perfect			

‘4.8 Ventilators;

Inspect Ventilators, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a	b	c	d		
			TICK-OFF		
Identifier	Defect Category	Common VENTILATOR Deficiencies	Medicine store	Supplies store	Dispensary
1	Critical defect	There are no ventilators on the store			
		Ventilators are too small and ineffective			
2	Severe defect	Water leakage through vents			
		Extremely dirty and clogged			
		Missing/damaged bird screens			
3	Medium defect	Missing/tear insect screen			
4	Slight defect	Paint peeling/defacing			
		No paint			
5	None-Minor defect	No Visible defect			
		Looks perfect			

‘4.9 Shelves;

4.9.1; Shelves/Cupboards Inventory

a) Open shelves

Tick off identified type

Total length			
Height			
Depth			
Nr of shelves			
Make	Type	Description	Tick-off
	1	Concrete posts and shelves	
	2	Slotted/perforated steel posts and cross beams with I plywood shelves	
	3	Slotted/perforated steel posts and cross beams with steel plate shelves	
	4	Slotted/perforated steel posts & cross beams with timber board shelves	
	5	Solid steel posts and cross beams with plywood shelves	
	6	Solid steel posts and cross beams with steel plate shelves	
	7	Solid steel posts and cross beams with timber board shelves	
	8	Timber posts and cross beams with timber board shelves	
9	Others (specify)....		

4.9.2; Shelves Condition

Inspect Shelves, identify the particular deficiency/defect as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a Identifier	b Defect Category	c Common SHELVES Deficiencies	d TICK-OFF		
			Medicine store	Supplies store	Dispensary
1	Critical	Not available			
		Available but covers less than half of possible maximum shelving provision for store area			
		Broken			
		Damaged by termites			
		Rotten/heavily Rusted			
2	Severe	A lot of shelves (but less than half of available shelves) are sagging			
		The shelf structure is Heavily Swayed			
		Shelf Narrow (< 300mm depth)			
3	Medium	A few shelves are sagging			
		The shelf structure is slightly swayed			
4	Slight	Not varnished or painted			
		Not tightened			
5	Minor/non e	Well painted/varnished			
		Looks perfect			

4.10 External Environment

Inspect the external environment of the stores, identify the particular condition as listed in column-c, and tick corresponding column-d for each type of store. *Note that several number of boxes may be selected/ticked for each type of store*

a Identifier	b Defect Category	c Common ROOF Deficiencies	d TICK-OFF		
			Medicine store	Supplies store	Dispensary
1	Critical	The plinth wall raises, or DPC-level is, only <100mm above ground level			
		When it rains, water ponds/stagnates around store			
2	Severe	The entrance walkway is water logged when it rains			
3	Medium	A nearby tree is caused a structural threat to the building housing store (roots causing cracks, tree may fall on building)			

a	b	c	d		
		etc)			
		Nearby tree causes aesthetics & health problems to the store(e.g tree attracts seasonal caterpillars, etc)			
4	Slight	A smelly pit latrines causes scent nuisance in the store			
5	Minor/non e	No external threat identified			

section 5, Adequacy

For A & B, Indicate score '1' if all parts of the statement are true for the storeroom or dispensary respectively and "0" if any part of it is false.

	Checklist	[A] Medicine store-room True=1, False=0	B] Supplies store-room True=1, False=0	[C] Dispensary area True=1, False=0
6,1	There is a method in place to control temperature (e.g. Roof under tree shade, roof and ceiling with space between them, air conditioners, and fans etc.).			
6,2	The facility is equipped with a Maxi-Min thermometer			
6,3	Air circulation is adequate (i.e. There are windows that can be opened or there are air vents).			
6,4	Direct sunlight cannot enter the area (e.g. window panes are painted or there are curtains/blinds to protect against the sun).			
6,5	There is adequate lighting in the store			
6,6	There is a cold storage in the facility for non-vaccine items.		Not Applicable	Not Applicable
6,7	The Store uses pallets to keep bulk deliveries off the floor			
6,8	Facility has dispensing trays and spoons/spatulas(they don't use bare hands to count tablets/capsules)	Not Applicable	Not Applicable	

Section 6, Shared/Common Facilities;

Score "1" if all parts of the statement are true for the storeroom or dispensary respectively and "0" if any part of it is false.

	Checklist	Score True=1, False=0
5,1	Water supply for the facility is available (e.g. borehole, water harvesting or piped water)	
5,2	The facility has functioning toilet facilities	
5,3	The facility has electricity supply (national grid, solar or generator)	

Section 7, Technology Readiness for stores Keeper's space

	Checklist	Score True=1, False=0
4.10.1	The Medical Store keeper's office area has office desk, chair and filing cabinet	
4.10.2	There is power supply to the medicines and health supplies store area	
4.10.3	There are power sockets installed in the store keeper's office area	
4.10.4	There is a computer installed in store keeper's office area	
4.10.5	There is internet access in store keeper's space (modem or thorough facility network)	

Time at End of assessment: _____

SIGN OFF BY FACILITY IN-CHARGE OR ADMINISTRATOR

Name: _____

Position at HF _____

Telephone contact _____

Signature (Review & Confirmation of the assessment): _____

APPENDIX 3: INTERVENTION STRATEGIES AND ASSOCIATED UNIT RATES FOR PHYSICAL DEFECTS

Functional Element	Condition score	Description	Remedy	Unit	Unit cost (USD)
Roof	1	Critical defect	Reconstruct roof	m ²	86.0
	2	Severe defect	Replace/refit roofing sheets/tiles and trusses	m ²	32.0
	3	Medium defect	Seal leaking holes, replace missing tiles	m ²	5.5
	4	Slight defect	Minor repair and repaint	m ²	4.5
	5	None/minor defect	No action necessary	m ²	-
Ceiling	1	Critical defect	Demolish and construct new ceiling	m ²	24.5
	2	Severe defect	Construct new ceiling	m ²	20.5
	3	Medium defect	Major repair with re-painting	m ²	7.0
	4	Slight defect	Minor repair and repaint	m ²	4.0
	5	None/minor defect	No action necessary	m ²	-
Floor	1	Critical defect	Demolish and Construct new floor	m ²	19.4
	2	Severe defect	Construct screed	m ²	6.0
	3	Medium defect	Major repair: rework on debonded areas, re-fix tiles, seal cracks and paint floor	m ²	5.5
	4	Slight defect	Minor repair: crack sealing and paint with floor paint	m ²	4.5
	5	None/minor defect	No action necessary	m ²	-
Exterior walls	1	Critical defect	Demolish and construct new wall	m ²	55.0
	2	Severe defect	Major repair: re-plaster and repaint	m ²	29.0
	3	Medium defect	Remove plaster, install new DPM, re-plaster & repaint	m ²	19.0
	4	Slight defect	Minor repair; crack sealing and repaint	m ²	6.4
	5	None/minor defect	No action necessary	m ²	-
Internal walls	1	Critical defect	Demolish and Construct new wall	m ²	51.0
	2	Severe defect	Major Repair, re-plaster and repaint	m ²	31.5
	3	Medium defect	Remove plaster, install new DPM, re-plaster & Repaint	m ²	22.0
	4	Slight defect	Minor repair: crack sealing and repaint	m ²	6.5
	5	None/minor defect	No action necessary	m ²	-
Windows	1	Critical defect	Install new window complete with all accessories	no	285.0
	2	Severe defect	Major repair: fix sash, insect mesh, closing and locking	no	65.5

Functional Element	Condition score	Description	Remedy	Unit	Unit cost (USD)
			mechanism, repaint		
	3	Medium defect	Fix/replace glass panes, fix sills & repaint	no	28.0
	4	Slight defect	Fix insect mesh and repaint	no	18.0
	5	None/minor defect	No action necessary	no	-
Doors	1	Critical defect	Install new door complete with lock and frame	no	328.5
	2	Severe defect	Major repair: replace door complete with lock	no	232.0
	3	Medium defect	Refit with new lock and hinges	no	76.0
	4	Slight defect	Re-varnish/repaint	no	38.0
	5	None/minor defect	No action necessary	no	-
Ventilators	1	Critical defect	Cut through wall and fix new ventilators	m ²	35.0
	2	Severe defect	Install sill, install new bird screens, repaint	m ²	18.0
	3	Medium defect	Install new insect screen, repaint	m ²	3.5
	4	Slight defect	Repaint	m ²	2.5
	5	None/minor defect	No action necessary	m ²	-
External Environment	1	Critical defect	Earthworks to a depth of 300mm below plinth	Lumpsum (30m ²)	150.0
	2	Severe defect	Create mitres, spread 32mm aggregate & compact	Lumpsum (Max 1.2m wide 10m long)	36.0
	3	Medium defect	Trim/cut trees and plant new one further away	Lumpsum (Max 1 trees)	30.0
	4	Slight defect			10.0
	5	None/minor defect	No action necessary		-
NO STORE		Hospitals	Provide for building extension (15x10 store)	5	20,000.0
		HC4	Provide for building extension (5x5 store)	5	10,000.0
		HC3	Provide for building extension (5x5store)	5	10,000.0
		HC2	Provide for building extension (5x5 store)	5	10,000.0

APPENDIX 4: INTERVENTION STRATEGIES FOR SHELVING DEFECTS

Functional Element	Condition		Remedy	Unit	Amount
STORE SHELVES	NS	NOT KNOWN	Provide 100% replacement of requirement	% PROVISION	100%
	1	Critical defect	Provide 100% replacement of requirement	% PROVISION	100%
	2	Severe defect	Provide 75% replacement of total requirement	% PROVISION	75%
	3	Medium defect	Provide 50% replacement of total requirement	% PROVISION	50%
	4	Slight defect	Provide 25% replacement of total requirement	% PROVISION	25%
	5	None/minor defect	No action necessary	% PROVISION	0%
DISPENSARY SHELVES	NS	NOT KNOWN	Provide 100% replacement of requirement	% PROVISION	100%
	1	Critical defect	Provide 100% replacement of requirement	% PROVISION	100%
	2	Severe defect	Provide 75% replacement of total requirement	% PROVISION	75%
	3	Medium defect	Provide 50% replacement of total requirement	% PROVISION	50%
	4	Slight defect	Provide 25% replacement of total requirement	% PROVISION	0%
	5	None/minor defect	No action necessary	% PROVISION	0%

Estimated requirement of shelves when store area is not known

STORE SHELVES			DISPENSARY SHELVES		
Facility Level	No of shelf units	Unit cost (USD)	Facility Level	No of shelf units	Unit cost (USD)
Hospital	20	300	Hospital	4	400
HC4	8	300	HC4	3	400
HC3	4	300	HC3	2	400
HC2	2	300	HC2	1	400

APPENDIX 5: CRITERIA AND UNIT COSTS FOR PALLETS, FRIDGES AND DISPENSING TRAYS

Facility Level	PALLETS		COLD STORAGE		DISPENSING TRAYS	
	<i>No of standard pallets (1x1m)</i>	<i>Unit rate (USD)</i>	<i>Capacity (litres)</i>	<i>Unit rate (USD)</i>	<i>Number of trays</i>	<i>Unit rate (USD)</i>
Hospital	8	30	100	795.0	3	20.0
HC4	5		75	595.0	2	
HC3	2		-	-	1	
HC2	1		-	-	1	

APPENDIX 6: COSTING FOR 30 CRITICAL HEALTH FACILITIES AT HOSPITAL AND SERVICE LEVEL 4

HF Name	District	Service level	Owner-ship	Area (m ²)		Overall condition		COSTS (USD)							
				Store	Dispensary	Medicine store	Dispensary	Store repair	Dispensary repair	Store shelf	Dispensary shelf	Pallet	Fridge	Dispensing tray	Total
Mulago Referral Hospital	KAMPA-LA	Hospital	MoH	220.80	21.58	2.12	3.56	30,591.90	2,079.12	46,200.00	1,600.00	-	-	60.00	80,531.02
Kisubi Hospital	WAKISO	Hospital	CC	-	-	NS	NS	20,000.00	-	6,000.00	1,600.00	200.00	795.00	-	28,595.00
Mukwaya General Hospital	KAMPA-LA	Hospital	PNFP Others	-	25.20	NS	5.00	20,000.00	-	6,000.00	-	200.00	795.00	-	26,995.00
Mbale Regional Referral Hospital	MBALE	Hospital	MoH	58.90	41.04	1.36	4.44	13,073.15	652.18	9,300.00	1,600.00	200.00	-	60.00	24,885.33
St Anthony's Hospital	TORORO	Hospital	CC	69.16	12.00	1.84	3.36	15,434.30	1,623.00	3,900.00	1,600.00	200.00	795.00	60.00	23,612.30
Soroti Regional Referral Hospital	SOROTI	Hospital	MoH	48.18	18.90	2.44	2.40	6,770.11	2,695.35	10,200.00	-	-	795.00	60.00	20,520.46
Yumbe Hospital	YUMBE	Hospital	MoH	22.05	-	1.16	NS	6,490.10	-	3,600.00	1,600.00	200.00	795.00	60.00	12,745.10
Tororo General Hospital	TORORO	Hospital	MoH	36.34	48.19	1.28	4.12	9,585.52	2,799.42	-	-	-	-	-	12,384.94
Kyegegwa Health Centre	KYEGE-GWA	HC4	MoH	15.64	5.89	NS	NS	10,000.00	589.00	2,400.00	1,200.00	125.00	595.00	40.00	14,949.00
Serere Health Centre	SERERE	HC4	MoH	-	11.60	NS	3.80	10,000.00	422.04	2,400.00	1,200.00	125.00	595.00	-	14,742.04
Kakuuto Health Centre	RAKAI	HC4	MoH	-	13.69	NS	4.24	10,000.00	295.44	2,400.00	1,200.00	125.00	595.00	40.00	14,655.44
Oli Health Centre	ARUA	HC4	MoH	-	11.56	NS	4.44	10,000.00	253.02	2,400.00	1,200.00	125.00	595.00	40.00	14,613.02
Adumi Health Centre	ARUA	HC4	MoH	-	8.75	NS	4.04	10,000.00	234.25	2,400.00	1,200.00	125.00	595.00	-	14,554.25
Astu Health Centre	KATAK-WI	HC4	Police	-	9.30	NS	4.84	10,000.00	41.85	2,400.00	1,200.00	125.00	595.00	40.00	14,401.85

HF Name	District	Service level	Owner-ship	Area (m ²)		Overall condition		COSTS (USD)							
				Store	Dispensary	Medicine store	Dispensary	Store repair	Dispensary repair	Store shelf	Dispensary shelf	Pallet	Fridge	Dispensing tray	Total
Rugaaga Health Centre	ISINGI-RO	HC4	MoH	-	4.32	NS	4.48	10,000.00	41.04	2,400.00	1,200.00	125.00	595.00	40.00	14,401.04
Koboko Health Centre	KOBOKO	HC4	MoH	19.22	-	NS	4.88	10,000.00	36.00	2,400.00	1,200.00	125.00	595.00	40.00	14,396.00
Dokolo Health Centre	DOKOLO	HC4	MoH	-	-	NS	NS	10,000.00	-	2,400.00	1,200.00	125.00	595.00	40.00	14,360.00
Kotido Health Centre	KOTIDO	HC4	MoH	-	-	NS	NS	10,000.00	-	2,400.00	1,200.00	125.00	595.00	40.00	14,360.00
Masindi Military Health Centre	MASINDI	HC4	Army	-	-	NS	NS	10,000.00	-	2,400.00	1,200.00	125.00	595.00	40.00	14,360.00
PTS (Kabalye) Health Centre	MASINDI	HC4	Police	-	-	NS	NS	10,000.00	-	2,400.00	1,200.00	125.00	595.00	40.00	14,360.00
Uganda Reproductive Health B Health Centre	KALIRO	HC4	PNFP Others	-	7.54	NS	NS	10,000.00	754.00	2,400.00	-	125.00	595.00	-	13,874.00
Ngoma Health Centre	NAKA-SEKE	HC4	MoH	-	7.44	NS	3.56	10,000.00	699.68	2,400.00	-	125.00	595.00	40.00	13,859.68
Amach Health Centre	LIRA	HC4	MoH	-	7.56	NS	4.68	10,000.00	280.38	2,400.00	-	125.00	595.00	40.00	13,440.38
Buwasa Health Centre	SIRON-KO	HC4	MoH	-	11.56	NS	4.68	10,000.00	108.02	2,400.00	-	125.00	595.00	40.00	13,268.02
Bumanya Health Centre	KALIRO	HC4	MoH	-	4.20	NS	5.00	10,000.00	-	2,400.00	-	125.00	595.00	40.00	13,160.00
Ntwetwe Health Centre	KYANK-WANZI	HC4	MoH	-	4.80	NS	2.80	10,000.00	1,130.70	-	1,200.00	125.00	595.00	-	13,050.70
Muyembe Health Centre	BULAM-BULI	HC4	MoH	25.09	4.68	2.36	4.96	4,903.90	10.00	5,400.00	1,200.00	125.00	-	40.00	11,678.90
Awach Health Centre	GULU	HC4	MoH	6.96	6.24	1.84	2.00	1,641.84	1,255.96	1,500.00	1,200.00	125.00	595.00	40.00	6,357.80

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

HF Name	District	Service level	Owner-ship	Area (m ²)		Overall condition		COSTS (USD)							
				Store	Dispensary	Medicine store	Dispensary	Store repair	Dispensary repair	Store shelf	Dispensary shelf	Pallet	Fridge	Dispensing tray	Total
Buwambo Health Centre	WAKISO	HC4	MoH	11.40	-	2.36	NS	1,487.60	-	1,800.00	1,200.00	125.00	595.00	40.00	5,247.60
Bwizibwara Health Centre	MBARA-RA	HC4	MoH	14.40	8.96	2.36	4.04	2,218.80	311.06	-	1,200.00	-	595.00	40.00	4,364.86
			Total					312,197.21	16,311.51	134,700.00	28,400.00	3,625.00	16,470.00	1,020.00	512,723.72

APPENDIX 7: CRITICAL HEALTH FACILITIES PER DISTRICT (ALL SERVICE LEVELS)

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
ABIM	1	Alerek Health Centre	3	Government	1.96	2890.5	3,300.0	800.0	50.0	0.0	20.0	7,060.5
	2	Orwamuge Health Centre	3	Government	2.36	2533.0	3,600.0	800.0	50.0	0.0	20.0	7,003.0
	3	Amita Prison Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Koya Health Centre	2	Government	2.00	2431.5	2,400.0	400.0	25.0	0.0	20.0	5,276.5
	5	Church of Uganda Kanu Health Centre	2	PNFP	2.04	2216.5	2,400.0	400.0	25.0	0.0	20.0	5,061.5
	6	Awach Health Centre	2	Government	2.12	1489.0	1,500.0	400.0	25.0	0.0	20.0	3,434.0
ADJUMANI	1	Maaji A Health Centre	2	Government	1.24	3499.1	2,400.0	400.0	25.0	0.0	20.0	6,344.1
	2	Mabwuru Health Centre	2	Government	1.72	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Agojo Health Centre	2	Government	2.28	1726.6	1,500.0	400.0	25.0	0.0	-	3,651.6
AGAGO	1	Acuru Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Kuywee Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
ALEBTONG	1	Apala Health Centre	3	Government	2.12	1918.5	3,000.0	800.0	50.0	0.0	20.0	5,788.5
	2	Akura Health Centre	2	Government	1.44	2197.1	2,100.0	400.0	25.0	0.0	20.0	4,742.1
	3	Oteno Health Centre	2	Government	1.48	2541.0	2,100.0	400.0	25.0	0.0	20.0	5,086.0
	4	Obim Rock Health Centre	2	Government	1.84	2108.0	2,700.0	400.0	25.0	0.0	20.0	5,253.0
AMOLATAR	1	Aputi Health Centre	3	Government	2.48	10000.0	300.0	-	50.0	0.0	20.0	10,370.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
AMUDAT	1	Chepfa Poyo Health Centre	2	Government	2.04	1886.3	2,400.0	400.0	25.0	0.0	20.0	4,731.3
AMURU	1	Mutema Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Parabongo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Palukere Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Bira Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Otong Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
APAC	1	Inomo Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Apwori Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Teboke Health Centre	3	Government	1.76	1552.9	1,200.0	800.0	50.0	0.0	20.0	3,622.9
	4	Atar Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
ARUA	1	Oli Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Adumi Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	-	14,320.0
	3	Odupi Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Cilio Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	5	Drivu Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	6	Opia Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	7	Pajulu Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	8	Ayivuni Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	9	Oje Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	10	Arua Prison Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	11	Otumbari Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	12	Ewanga Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	13	Aripea Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	14	Affaka Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	15	Ajia Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	16	Odraka Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	17	Ogoko Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	18	Gili Gili Prisons Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	19	Gbuluku-Atuni Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	20	Anyavu Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	21	Lazebu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	22	Oduobu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	23	St. Jude Uleppe Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	24	Arua Military Health Centre	2	Government	1.40	1015.4	900.0	400.0	25.0	0.0	20.0	2,360.4
BUDAKA	1	Kebula Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Bulucheke Health Centre	3	Government	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	3	Bukigai Sda Dispensary	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
BUGIRI	1	Kyemeire Health Centre	2	PNFP	2.28	1244.5	1,800.0	400.0	25.0	0.0	-	3,469.5
	2	Bugiri T/C Health Centre	2	Government	2.48	1920.2	2,400.0	400.0	25.0	0.0	-	4,745.2
	3	Buwuni Health Centre	2	Government	2.48	863.7	1,200.0	400.0	25.0	0.0	-	2,488.7
	4	Kasokwe Cida Health Centre	2	Government	2.48	1326.0	2,100.0	400.0	25.0	0.0	20.0	3,871.0
BUHWEJU	1	Butare Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Rubengye Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Kikamba Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
BUIKWE	1	Buikwe Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	2	Nkokonjeru Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Ngogwe Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Engineering Brigade	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	5	Makindu Health Centre	3	Government	0.00	10000.0	-	800.0	50.0	0.0	20.0	10,870.0
	6	Bugungu Yp Health Centre	3	Government	2.20	3920.0	4,200.0	800.0	50.0	0.0	20.0	8,990.0
	7	Bugungu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Lugazi Police Station Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Kasaku Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Lugazi 2 Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	11	Bubiro Health Centre	2	Government	1.52	1394.7	1,500.0	400.0	25.0	0.0	20.0	3,339.7
	12	Bugungu Health Centre	2	Government	2.36	2426.0	3,900.0	400.0	25.0	0.0	20.0	6,771.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	13	Kisimba Muslim Health Centre	2	PNFP	2.36	735.4	900.0	400.0	25.0	0.0	20.0	2,080.4
BUKEDEA	1	Kachumbala Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Bukedea Mission Health Centre	2	PNFP	1.28	2211.4	1,500.0	400.0	25.0	0.0	20.0	4,156.4
BUKOMANSIMBI	1	Kisojjo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
BUKWO	1	Amanang Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Kapsoruri Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
BULAMBULI	1	Muyembe Health Centre	4	Government	2.36	4903.9	5,400.0	1,200.0	125.0	0.0	40.0	11,668.9
	2	Buwagobo Health Centre	3	Government	0.00	10000.0	-	800.0	50.0	0.0	20.0	10,870.0
	3	Buyaga Health Centre	3	Government	2.36	1101.8	-	-	50.0	0.0	20.0	1,171.8
	4	Atari Health Centre	2	Government	2.32	1757.2	2,700.0	400.0	25.0	0.0	20.0	4,902.2
BUNDIBUGYO	1	Kayenje Health Centre	2	Government	1.48	1130.1	900.0	400.0	25.0	0.0	20.0	2,475.1
	2	Mantoroba Health Centre	2	PNFP	2.20	1561.3	2,100.0	400.0	0.0	0.0	-	4,061.3
BUSIA	1	Amonikakine Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Majanji Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Bulumbi Health Centre	2	Government	1.76	941.2	600.0	400.0	0.0	0.0	20.0	1,961.2
BUTALEJA	1	Naweyo Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Kangalaba Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Madungha Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	4	Nakasanga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Hahoola Health Centre	2	Government	1.76	2930.7	2,700.0	400.0	25.0	0.0	-	6,055.7
BUTAMBALA	1	Kalamba Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Sanyu Domicilliary Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Kidawalime Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Kawohawo Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Nsozibiryie Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Bugobango Health Centre	2	PNFP	1.96	1329.8	900.0	400.0	25.0	0.0	20.0	2,674.8
	7	Kabasanda Health Centre	2	Government	2.44	1367.5	2,100.0	400.0	25.0	0.0	20.0	3,912.5
BUVUMA	1	Busamuzi Health Centre	3	Government	1.72	3109.5	-	800.0	0.0	0.0	20.0	3,929.5
	2	Bweema Health Centre	3	Government	1.92	977.1	1,200.0	800.0	50.0	0.0	20.0	3,047.1
	3	Lubya Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Namiti Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
BUYENDE	1	St Lwanga Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Iraapa C.O.G Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	3	Nkdu Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Wesunile Flep Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
DOKOLO	1	Dokolo Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Kwera Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	3	Adok Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Dokolo Central Police Station Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Amuda Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	6	Abalang Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	7	Awiri Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	8	Anyacoto Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Koroto Prison Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Atabu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	11	Amwoma Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
GOMBA	1	Kanzira Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
GULU	1	Awach Health Centre	4	Government	1.84	1641.8	1,500.0	1,200.0	125.0	595.0	40.0	5,101.8
	2	Police Health Centre	3	Government	2.24	2267.3	2,400.0	800.0	50.0	0.0	20.0	5,537.3
	3	Te-Got Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Loyoazonga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Lapeta Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Acet Health Centre	2	Government	1.40	1590.1	900.0	400.0	0.0	0.0	20.0	2,910.1
	7	Pece Prison Health Centre	2	Government	1.72	1795.0	1,800.0	400.0	25.0	0.0	20.0	4,040.0
HOIMA	1	Sebagwo Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	2	Kisaru Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	3	Lucy Bisereko Health Centre	2	Government	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	4	DHO Health Centre / District Medical Store	2	Government	2.36	7367.1	8,400.0	400.0	25.0	0.0	-	16,192.1
IBANDA	1	Nyamirima Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
IBANDA	2	Kihani Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	3	Kakatsi Health Centre	2	Government	2.12	1645.8	1,800.0	400.0	25.0	0.0	20.0	3,890.8
	4	Kigunga Health Centre	2	Government	2.20	1381.8	600.0	400.0	25.0	0.0	20.0	2,426.8
	5	Kasangura Health Centre	2	Government	2.32	1873.3	2,700.0	400.0	25.0	0.0	-	4,998.3
IGANGA	1	Iganga Prison Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Kasolo Methodist Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Mawagala Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Reproductive Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Bulyansime Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Walyol Police Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	Bunyiro Health Centre	2	PNFP	1.72	1379.9	-	400.0	25.0	0.0	20.0	1,824.9
	8	Buyanga Health Centre	2	Government	2.08	1062.0	1,200.0	400.0	25.0	0.0	20.0	2,707.0
	9	Nabitende Health Centre	2	PNFP	2.32	676.6	-	400.0	25.0	0.0	-	1,101.6
	10	Buzaya Health Centre	2	Government	2.44	1913.6	2,100.0	400.0	25.0	0.0	20.0	4,458.6

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
ISINGIRO	1	Rugaaga Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Kakoma Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Isibuka Nursing Home	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Kashumba Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	5	Kikokwa Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	6	Endiizi Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	7	Kasana Health Centre	3	Government	1.60	1931.4	1,500.0	800.0	50.0	0.0	20.0	4,301.4
	8	Ruyanga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Rwantahah Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Birunduma Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	11	Kakamba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	12	Busheka Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Rwetango Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	14	Nyamarungi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	15	Kahanda Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	16	Nyamisindo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	17	Kyarugaju Health Centre	2	Government	1.00	2648.0	1,800.0	400.0	25.0	0.0	20.0	4,893.0
	18	Kyabinunga Health Centre	2	Government	1.64	1898.4	1,500.0	400.0	25.0	0.0	20.0	3,843.4
JINJA	1	All Saints Health Centre	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	2	Jinja Main Prisons Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Jinja Remand Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Kisiima Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Lumuli Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Masebse, Danida Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	St Benedicts Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
	8	Masebe Port Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Kirinya, Jinja Women's Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Mutai Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	11	Masbse Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	12	Muguluka Flep Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	KABALE	1	Kyerero Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0
2		Kicumbi Health Ce Health Centre ntre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
3		Kitanga Health Centre	2	Government	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
4		Green Valley Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
5		Shebeya Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
6		Mugyera Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	7	Ihunga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Kagarama Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Bucundura Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Nyamabale Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	11	Nyaryhanga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	12	Mushanje Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Kigazi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	14	Ikamiro Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	15	Police Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	16	Habubare Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	17	Kashekye Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	18	Muko Butare Health Centre	2	Government	2.48	1862.8	3,000.0	400.0	25.0	0.0	20.0	5,307.8
KABAROLE	1	Mitandi Health Centre	3	PNFP	2.24	1210.9	-	800.0	50.0	0.0	20.0	2,080.9
KABERAMAIDO	1	Mureem Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	2	Abalang Community Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Bululu Church of Uganda Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KALANGALA	1	Mazinga Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Lulamba Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	3	Jaana Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Mulabana Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Kalangala Police Health Centre	2	Government	0.00	10000.0	-	400.0	25.0	0.0	20.0	10,445.0
KALIRO	1	Bumanya Health Centre	4	Government	0.00	10000.0	2,400.0	-	125.0	595.0	40.0	13,160.0
	2	Uganda Reproductive Health Health Centre	4	PNFP	0.00	10000.0	2,400.0	-	125.0	595.0	-	13,120.0
	3	Mirembe Marternity Home	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	4	Dr Ambrosoli Memorial Health Care Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	5	Kaliro Medical Center	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	-	11,250.0
	6	St Jude Nursing Home	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	7	Kaliro Health Centre Health Centre	2	Government	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
	8	Genesis Medical Clinic	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	9	Doctor's Clinic	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
	10	Hope Medical Clinic	2	Government	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
	11	Nansololo Flep Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	12	Nawaikoke Flep Health Centre Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Dorudo	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	14	Life Care Medical Clinic	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	15	Kaliro Flep Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	16	Kamankamba Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	17	Bulumba Medical & Maternity Centre	2	Government	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
KALUNGU	1	Lusango Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KAMPALA	1	Mukwaya General Hospital	5	PNFP	0.00	20000.0	6,000.0	-	200.0	795.0	-	26,995.0
	2	Mulago Referral Hospital	5	Government	2.12	30591.9	46,200.0	1,600.0	0.0	0.0	60.0	78,451.9
	3	Nateeti General Clinic	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	4	Safe Guard Nursing Home	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	-	11,250.0
	5	M And S General Clinic	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	St Anthony Clinic	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	7	Virgo Clinic	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	8	Globe Clinic	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
	9	Katwe Police Clinic	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Kololo Summit View Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	11	Wandegeya Police Clinic	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
KAMWENGE	1	Kiziba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Kiyagara Health Centre	2	Government	2.28	1748.7	2,100.0	400.0	25.0	0.0	20.0	4,293.7
KAPCHORWA	1	Sansara Health Centre	2	Government	2.40	2744.6	3,300.0	400.0	25.0	0.0	20.0	6,489.6
	2	Chemosong Health Centre	2	Government	2.48	1385.0	1,500.0	400.0	25.0	0.0	-	3,310.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
KASESE	1	Ibuga Prison Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Kabatunda Health Centre	3	Government	1.80	1629.8	1,800.0	800.0	50.0	0.0	20.0	4,299.8
	3	Kitwamba Health Centre	3	Government	2.28	1061.6	1,800.0	-	50.0	0.0	20.0	2,931.6
	4	Nyabugando Health Centre	3	PNFP	2.28	1450.2	1,500.0	800.0	50.0	0.0	20.0	3,820.2
	5	Bubothyo Health Centre	3	Government	2.44	959.9	1,200.0	800.0	50.0	0.0	20.0	3,029.9
	6	Katholhu Health Centre	2	Government	2.36	803.3	1,200.0	400.0	25.0	0.0	20.0	2,448.3
KATAKWI	1	Astu Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Katakwi Police Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Olilim Sufaad Health Centre	2	Government	2.40	2097.7	2,700.0	400.0	25.0	0.0	20.0	5,242.7
KAYUNGA	4	Busaale Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Namagabi Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
KIBALE	1	Kishanye Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KIBOGA	1	Kikwalambogo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KIRUHURA	1	Buremba Health Centre	3	Government	2.28	721.5	1,200.0	800.0	50.0	0.0	20.0	2,791.5
	2	Ngomba Health Centre	2	Government	1.60	2959.4	3,000.0	400.0	25.0	0.0	20.0	6,404.4
	3	Nkungu Health Centre	2	Government	2.28	1145.6	1,200.0	400.0	25.0	0.0	20.0	2,790.6
KIRYANDONGO	1	Mutunda Health Centre	3	Government	1.68	3453.0	3,600.0	800.0	50.0	0.0	20.0	7,923.0
	2	Diima Health Centre	3	Government	2.24	1064.9	1,500.0	800.0	50.0	0.0	20.0	3,434.9

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	3	Apodorwa Health Centre	2	Government	2.44	1146.6	1,500.0	400.0	25.0	0.0	20.0	3,091.6
KISORO	1	Busengo Health Centre	2	Government	2.32	663.7	1,200.0	400.0	25.0	0.0	20.0	2,308.7
KITGUM	1	Lagot Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
KOBOKO	1	Koboko Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Dricile Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Koboko Army Barracks Health Centre	3	Government	2.28	2053.3	2,400.0	800.0	50.0	0.0	20.0	5,323.3
	4	Kuluba Health Centre	2	Government	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	5	Bamure Health Centre	2	Government	2.40	2157.6	2,700.0	400.0	25.0	0.0	20.0	5,302.6
	6	Luruyo Health Centre	2	Government	2.48	2541.5	-	400.0	25.0	0.0	20.0	2,986.5
KOLE	6	Opeta Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KOTIDO	1	Kotido Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Kanawat Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	3	405 Bn Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Rengen Health Centre	3	Government	1.20	3102.1	2,100.0	800.0	50.0	0.0	-	6,052.1
	5	Church of Uganda Kotido Health Centre	3	PNFP	1.60	1625.5	-	800.0	50.0	0.0	20.0	2,495.5
	6	Nakapeli Moru Health Centre	3	Government	2.08	2892.0	3,000.0	800.0	50.0	0.0	20.0	6,762.0
	7	Kacheri Health Centre	3	Government	2.28	2286.8	3,000.0	800.0	50.0	0.0	20.0	6,156.8
	8	Kotido Prison Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	9	Losilang Catholic Mission Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Lokiding Health Centre	2	Government	1.44	3362.2	3,000.0	400.0	25.0	0.0	20.0	6,807.2
	11	Lopuyo Health Centre	2	Government	1.44	3852.4	2,700.0	400.0	25.0	0.0	20.0	6,997.4
	12	Kamoru Health Centre	2	Government	1.72	2724.0	2,400.0	400.0	25.0	0.0	20.0	5,569.0
	13	Nakwakwa Health Centre	2	Government	1.76	1916.3	1,500.0	400.0	25.0	0.0	20.0	3,861.3
	14	Lookoro Health Centre	2	Government	1.84	1011.7	1,200.0	400.0	25.0	0.0	20.0	2,656.7
	15	Rikitae Health Centre	2	Government	2.08	1305.3	1,200.0	400.0	25.0	0.0	20.0	2,950.3
	16	Napupum Health Centre	2	Government	2.16	1674.6	1,800.0	400.0	25.0	0.0	20.0	3,919.6
	17	Losakucha Health Centre	2	Government	2.44	1537.0	2,100.0	400.0	25.0	0.0	20.0	4,082.0
KUMI	1	Kumi Police Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Kanyumu NGO Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Nyero NGO Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Mukongo NGO Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KWEEN	1	Chemwom Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Ngenge Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Terenboi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Mengya Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Benet Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Likil Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	7	Kongta Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Atar Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Kiriki Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Kapteror Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KYANKWANZI	1	Ntwetwe Health Centre	4	Government	0.00	10000.0	-	1,200.0	125.0	595.0	-	11,920.0
	2	Kyankwanzi Health Centre	3	Government	0.00	10000.0	-	800.0	50.0	0.0	-	10,850.0
	3	Massodde Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
KYELEGWA	1	Kyegegwa Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Kazinga Health Centre	3	Government	2.44	2021.7	2,400.0	800.0	50.0	0.0	20.0	5,291.7
	3	Ruhawgire Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Kishegati Health Centre	2	Government	1.68	2379.4	2,400.0	400.0	25.0	0.0	20.0	5,224.4
KYENJOJO	1	Nyankwanzi Health Centre	3	Government	2.32	695.0	-	800.0	50.0	0.0	20.0	1,565.0
	2	St Martin Health Centre	2	PNFP	0.00	10000.0	-	-	25.0	0.0	-	10,025.0
	3	St.Mary's Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Mbale Health Centre	2	Government	2.12	1182.9	1,200.0	400.0	25.0	0.0	-	2,807.9
	5	St Adolf Health Centre	2	PNFP	2.24	2574.0	3,300.0	400.0	25.0	0.0	-	6,299.0
	6	Kyankaramata Health Centre	2	Government	2.40	1012.5	1,500.0	400.0	25.0	0.0	20.0	2,957.5
LIRA	1	Amach Health Centre	4	Government	0.00	10000.0	2,400.0	-	125.0	595.0	40.0	13,160.0
	2	Lira Military Barracks Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	3	Lira Prison Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Lira Women's Prison Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Abala Health Centre	2	Government	2.12	3102.1	2,700.0	400.0	25.0	0.0	20.0	6,247.1
LUUKA	1	Waibuga Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Nawansega Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	3	Lwaki Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Bulanga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Nairika Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Bukendi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	Nantamali Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Nawanyago Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Busanda Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Kiwalazi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	11	Busalamu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	12	Busiuro Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Inuula Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	14	Bugambo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	15	Ntayigirwa Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	16	Bulalu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	17	Busalamu Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	18	Budhana Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	19	Naigobya NGO Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	20	Naigobya Lutheran Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	21	Buyoga NGO Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	22	Buwologoma Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	23	Kibbinga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
LUWERO	1	Bombo Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	2	Kyeunze Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Bamugolodde Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Luwero Police Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Kigombe Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	6	Mazzi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	Bamugolodde Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Kirumandagi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
LWENGO	1	Pemte Castal (Bukoto) Health Centre	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	-	11,250.0
	2	Mbirizi Moslem Health Centre	3	PNFP	1.80	1260.4	900.0	800.0	50.0	0.0	20.0	3,030.4

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
LYANTONDE	1	Buyaga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Kyensama Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Kyemamba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Namutamba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Kyakuterekera Health Centre	2	Government	2.12	1876.7	-	400.0	25.0	0.0	20.0	2,321.7
MARACHA	1	Yivu Aboa Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
MASINDI	1	Masindi Military Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	PTS (Kabalye) Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	3	Nyakitibwa Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Kimengo Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	5	Kyatiri Health C Health Centre entre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	6	Nyatowzi	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	7	Kinyara Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	8	Kitara Medical Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	9	Masindi Police Barracks Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Kilanyi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	11	Kibwona Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	12	Budongo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	13	Kitanyata Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	14	Kigezi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	15	Biizi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	16	St Kizito Clinic Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	17	Kasalizi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	18	Isimba Prisons Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	19	Kibyama Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	20	Katasenyuma Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	21	Nyebyeya Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	22	Kasenene Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	23	Ntooma Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	24	Kichandi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	25	Mihembero Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	26	Nyamigisa Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	27	Kyamaiso Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	28	St Jude Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	29	Kikingura Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	30	Ikoba Health Centre	2	Government	1.96	1219.8	1,200.0	400.0	25.0	0.0	20.0	2,864.8

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
MAYUGE	1	Udha Maina Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
	2	Mayuge Police Clinic	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Bukaleba Health Centre	2	Government	1.28	4602.4	3,600.0	400.0	25.0	0.0	20.0	8,647.4
	4	Busuyi Health Centre	2	Government	1.56	3299.4	3,600.0	400.0	25.0	0.0	20.0	7,344.4
	5	Buwaaya Health Centre	2	PNFP	2.32	1428.9	1,500.0	400.0	25.0	0.0	20.0	3,373.9
MBALE	1	Mbale Regional Referral Hospital	5	Government	1.36	13073.2	9,300.0	1,600.0	200.0	0.0	60.0	24,233.2
	2	Bushikor Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	3	Joy Medical Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Bunapongo Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	5	Mahonje Health Centre	3	Government	0.00	10000.0	300.0	800.0	50.0	0.0	20.0	11,170.0
	6	Nyondo Health Centre	3	PNFP	2.40	5938.5	5,700.0	800.0	50.0	0.0	20.0	12,508.5
	7	Naiku Health Centre	3	Government	2.48	718.8	1,500.0	800.0	50.0	0.0	20.0	3,088.8
	8	Makhai Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Mbale Police Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	St Austin Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	11	Nasasa Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	12	Muruba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Female Prison Mbale Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	14	Kigezi Health Centre	2	Government	1.76	946.6	-	-	25.0	0.0	-	971.6
MBARARA	1	Bwizibwara Health Centre	4	Government	2.36	2218.8	-	1,200.0	0.0	595.0	40.0	4,053.8
MITOOMA	2	Rwamuniori Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
MITYANA	1	Kakonde Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Nkiyogamyi Health Centre	2	Government	2.12	2096.6	2,700.0	400.0	25.0	0.0	20.0	5,241.6
	3	Kalangalo 1 Health Centre	2	Government	2.12	2274.4	2,400.0	400.0	25.0	0.0	20.0	5,119.4
MPIGI	1	Mitala Maria (St Anthony) Health Centre	3	PNFP	0.00	10000.0	1,200.0	400.0	50.0	0.0	-	11,650.0
	2	Kibanga Health Centre	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	3	Bujuuko Health Centre	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	4	Nabyewanga Health Centre	2	Government	2.16	1637.0	1,800.0	400.0	25.0	0.0	20.0	3,882.0
MUBENDE	1	Nabingola Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	2	Kibalinga Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	3	Kabamba Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	-	12,050.0
	4	Kasambya Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	5	Myanzi Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	6	M R C Health Centre	3	Government	2.48	7539.9	9,600.0	-	50.0	0.0	20.0	17,209.9
	7	Lubimbiri Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	8	Mundadde Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Kansambya Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	10	Buseregenyu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	11	Kyakasa Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	12	Buwata Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Nabikakala Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	14	Gayaza Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	15	Bugonzi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	16	Kabyuma	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	17	Mawujjo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	18	Nkandwa Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	19	Kanseera Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	20	Kakigando Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	21	Kikoma Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	22	Kituule Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	23	Mugungulu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	24	Kiryanongo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	25	Kyasanswa Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	26	Kiyita Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	27	Namabale Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	28	Kabbo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	29	Kayinja Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	30	Lwemikomago Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	31	Kabulubutu Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	32	Kasaana Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	33	Kabowa Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	34	Kyakatebe Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	35	Kayebe Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	36	Nabugonjo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	37	Kabalungi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
NAKAPIRIPIRIT	1	Natirae Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Moruita Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Nabilatuk Mission Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	4	Police Health Clinic	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Namalu Prison Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Lemusui Health Centre	2	Government	1.52	2347.4	2,100.0	400.0	25.0	0.0	20.0	4,892.4
NAKASEKE	1	Ngoma Health Centre	4	Government	0.00	10000.0	2,400.0	-	125.0	595.0	40.0	13,160.0
	2	Kinyogoga Health Centre	3	Government	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	3	Biddabugya Health Centre	3	Government	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	4	Kalagala Health Centre	2	Government	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	5	St James Bukatira Health Centre	2	PNFP	0.00	10000.0	-	400.0	25.0	0.0	20.0	10,445.0
	6	Lusanja Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	20.0	10,645.0
NAMAYINGO	1	Kifuyo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Siuro Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Dohwe Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Isinde Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Uganda Round Health For Community Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
NAMUTUMBA	1	Nabitula Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Namusita Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Bukonte Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	4	Kisowozi Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Nangonde Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Mukama Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	Kikalu Health Centre	2	Government	1.32	3956.0	3,000.0	400.0	25.0	0.0	-	7,381.0
NEBBI	1	Kucwiny Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Nyaravur Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Akworo Health Centre	3	Government	1.92	1413.5	1,200.0	-	50.0	0.0	20.0	2,683.5
	4	Pakia Health Centre	3	Government	1.92	2294.0	2,400.0	800.0	50.0	0.0	-	5,544.0
	5	Kikobe Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	6	Koch Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	Erussi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Ragem Health Centre	2	Government	2.44	1035.9	1,200.0	400.0	25.0	0.0	-	2,660.9
NTOROKO	1	Rwebisenga Material and Child Care Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
NTUNGAMO	2	Iterero Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
NWOYA	3	Good Shepherd Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
OTUKE	1	Olilim Health Centre	3	Government	1.96	2198.1	2,700.0	800.0	0.0	0.0	-	5,698.1
	2	Aliwang Health Centre	3	PNFP	2.44	2454.5	5,100.0	-	50.0	0.0	-	7,604.5
	3	Ogwette Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Barocok Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Anepmoroto Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
OYAM	1	Atipe Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Ocokara Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
PADER	1	Rackoko (Community) Health Centre	3	PNFP	2.16	968.4	1,200.0	800.0	50.0	0.0	20.0	3,038.4
	2	All Saints Health Centre	2	PNFP	1.56	1322.2	300.0	400.0	25.0	0.0	20.0	2,067.2
PALLISA	1	Petete Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	2	Kamuge Health Centre	3	Government	2.32	2246.8	2,400.0	-	50.0	0.0	20.0	4,716.8
	3	Limoto Health Centre	2	Government	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	4	Putti Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
RAKAI	1	Kakuuto Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	40.0	14,360.0
	2	Kimuli Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	St Gyaviira Dom. Kalisizo Health Centre	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	4	Mukisa Health Services	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	5	Kiziba Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	6	Lwanda Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	7	Byakabanda Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	8	Kibanda Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	9	Kabuwoko Health Centre	3	Government	2.04	2412.0	2,700.0	800.0	50.0	0.0	20.0	5,982.0
	10	Gwanda Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	11	Kibuuka Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	12	Kyabigondo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Kakundi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	14	Kasankala Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	15	Lwakaloolo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	16	Kabusota Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	17	Kayanja Prisons Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	18	Lwamagwa NGO Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	19	Rakai Community Based Health Project Kasankala Br.	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	20	Bethlehem Dispensing & Maternity Unit	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	21	St Martin Dom Bukunda Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	22	Magabi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	23	Kayanja Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	24	Butiti Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	25	Kibaale Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	26	Lwembajjo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	27	Lukerere Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	28	Heal the Nation Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	29	Kayayumbe Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	30	Kijonjo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	31	Ndoro Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	32	Kagamba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	33	Bugona Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	34	Lwabakooba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	35	Nazareth Dispensary and Maternity Unit	2	PNFP	2.04	1071.9	1,200.0	400.0	25.0	0.0	20.0	2,716.9
	36	Nakatoogo Health Centre	2	Government	2.20	1043.7	1,200.0	400.0	25.0	0.0	20.0	2,688.7
	37	Butembe Health Centre	2	Government	2.24	1563.7	1,800.0	400.0	25.0	0.0	20.0	3,808.7
RUBIRIZI	1	Mushumba Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Rutoto Sda Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Kyabakara Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Kishenyi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Butoha Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	6	Kazinga Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	Rugazi Mission Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Kashaka Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Ndangaro Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	10	Rumuri Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
RUKUNGIRI	1	Murama Health Centre	2	PNFP	1.56	1850.5	900.0	400.0	25.0	0.0	20.0	3,195.5
	2	St Sabina Health Centre	2	PNFP	1.72	1440.7	300.0	-	25.0	0.0	-	1,765.7
	3	Marumba Health Centre	2	Government	2.00	1898.7	1,800.0	400.0	25.0	0.0	20.0	4,143.7
SERERE	1	Serere Health Centre	4	Government	0.00	10000.0	2,400.0	1,200.0	125.0	595.0	-	14,320.0
	2	Kyere Health Centre	3	Government	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	3	Atiira Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	4	Bugondo Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	5	St Martin Amakio Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	6	Kateta Moru Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	7	Kamusala Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Miria Clinic	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	9	Kateta Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
SHEEMA	1	Rugarama Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	2	Rweibaare Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Kasaana Health Centre West	2	Government	2.44	967.7	2,100.0	400.0	25.0	0.0	-	3,492.7
	4	Bigona Health Centre	2	Government	2.44	1223.0	2,100.0	400.0	25.0	0.0	20.0	3,768.0
SIRONKO	1	Buwasa Health Centre	4	Government	0.00	10000.0	2,400.0	-	125.0	595.0	40.0	13,160.0
	2	Buyobo in Charge Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Kyesa Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Buyaya Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	5	Bubeza Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
SOROTI	1	Soroti Regional Referral Hospital	5	Government	2.44	6770.1	10,200.0	-	0.0	795.0	60.0	17,825.1
	2	Western Division Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	Ojom Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	4	Islamic Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
TORORO	1	Tororo General Hospital	5	Government	1.28	9585.5	-	-	0.0	0.0	-	9,585.5
	2	St Anthony's Hospital	5	PNFP	1.84	15434.3	3,900.0	1,600.0	200.0	795.0	60.0	21,989.3
	3	Kirewa Health Centre	3	Government	1.12	3302.0	2,400.0	800.0	50.0	0.0	20.0	6,572.0
	4	Kiyeyi	3	Government	2.16	3392.9	3,300.0	800.0	50.0	0.0	-	7,542.9
	5	Iyolwa Health Centre	3	Government	2.32	1463.7	1,200.0	800.0	50.0	0.0	-	3,513.7
	6	Kisoko Health Centre	3	Government	2.36	1311.3	1,800.0	800.0	50.0	0.0	-	3,961.3
	7	Mudodo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	8	Osia Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	9	Nyamalogo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	10	Police Health Centre	2	Government	1.72	4721.0	3,900.0	400.0	25.0	0.0	20.0	9,066.0
	11	Apetai Health Centre	2	Government	2.08	1312.3	1,800.0	400.0	25.0	0.0	-	3,537.3
	12	Pusere Health Centre	2	Government	2.16	949.9	900.0	400.0	25.0	0.0	-	2,274.9
	13	Gwaragwara Health Centre	2	Government	2.32	1174.9	1,500.0	400.0	25.0	0.0	20.0	3,119.9
WAKISO	1	Buwambo Health Centre	4	Government	2.36	1487.6	1,800.0	1,200.0	125.0	595.0	40.0	5,247.6
	2	Lufuka Valley Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	3	St.Uruka Kiziba Health Centre	3	PNFP	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	4	Bussi Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
	5	Hassan Tourab Health Centre	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	-	11,250.0
	6	Kawanda Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0
	7	Kyebando Nursing Home	3	PNFP	0.00	10000.0	1,200.0	-	50.0	0.0	20.0	11,270.0
	8	Kajansi Health Centre	3	Government	2.16	993.2	-	800.0	50.0	0.0	20.0	1,863.2
	9	Kakiiri Health Centre	3	Government	2.32	1612.3	1,800.0	800.0	50.0	0.0	20.0	4,282.3
	10	Crane Health Services	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
	11	Muzinda-Katereke Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	12	Nabbingo Parish Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	13	Bbira Dispensary Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	14	Uvri Clinic	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	15	Kimwanyi Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	16	Nalugala Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	17	St Luke Kazo Medical Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	18	St Luke Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	19	Well Spring Health Centre	2	PNFP	0.00	10000.0	600.0	-	25.0	0.0	-	10,625.0
	20	Ssentema Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	21	Kitaliya Prison Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	22	Maganjo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	#	HF Name	Service level	Ownership	Store's overall condition	Estimated required investment (USD)						
						Civil works	Medicine shelf	Dispensary shelf	Pallet	Fridge cost	Dispensing tray	Total
YUMBE	1	Yumbe Hospital	5	Government	1.16	6490.1	3,600.0	1,600.0	200.0	795.0	60.0	12,745.1
	2	Okuyo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	3	Abiriamajo Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
	4	Barakala Health Centre	2	Government	0.00	10000.0	600.0	400.0	25.0	0.0	-	11,025.0
	5	Al Noor Health Centre	2	PNFP	0.00	10000.0	600.0	400.0	25.0	0.0	20.0	11,045.0
ZOMBO	1	Alangi Health Centre	3	Government	0.00	10000.0	1,200.0	800.0	50.0	0.0	20.0	12,070.0

APPENDIX 8: SHELVING REQUIREMENTS PER DISTRICT

District	Medicine store		Dispensary	
	No of facilities	No of shelves	No of facilities	No of shelves
Abim	13	82	13	15
Adjumani	23	96	20	26
Agago	14	84	25	29
Alebtong	13	104	13	21
Amolatar	10	63	9	15
Amudat	5	37	4	6
Amuria	27	169	28	37
Amuru	16	63	21	27
Apac	27	149	26	39
Arua	53	338	60	109
Budaka	11	39	19	36
Bududa	13	54	13	22
Bugiri	40	275	39	47
Buhweju	14	61	11	15
Buikwe	26	181	27	45
Bukedea	10	139	10	16
Bukomansimbi	11	59	12	21
Bukwo	6	46	12	17
Bulambuli	13	84	16	28
Bullisa	9	64	9	13
Bundibugyo	25	144	24	34
Bushenyi	12	77	23	28
Busia	16	76	15	18
Butaleja	14	59	16	26
Butambala	14	54	17	23
Buvuma	8	35	10	15
Buyende	15	59	13	18
Dokolo	16	43	14	19
Gomba	8	38	7	9
Gulu	43	343	46	73
Hoima	23	179	32	54
Ibanda	29	186	35	45

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	Medicine store		Dispensary	
	No of facilities	No of shelves	No of facilities	No of shelves
Iganga	41	186	45	60
Isingiro	45	265	56	82
Jinja	46	147	48	65
Kabale	89	483	95	125
Kabarole	42	306	52	87
Kaberamaido	14	38	16	25
Kalangala	10	74	11	19
Kaliro	22	75	12	15
Kalungu	14	59	15	23
Kampala	37	407	24	47
Kamwenge	28	142	30	44
Kapchorwa	16	79	17	23
Kasese	76	415	78	120
Katakwi	15	71	22	31
Kayunga	19	107	20	31
Kibaale	35	173	38	58
Kiboga	14	73	18	28
Kibuku	9	67	12	23
Kiruhura	29	195	35	46
Kiryandongo	13	76	16	25
Kisoro	20	139	29	48
Kitgum	14	70	20	32
Koboko	13	118	14	25
Kole	7	32	9	13
Kotido	18	114	19	29
Kumi	9	41	14	25
Kween	13	33	13	16
Kyankwanzi	10	55	15	21
Kyegegwa	12	81	14	23
Kyenjojo	23	134	21	32
Lamwo	17	158	18	29
Lira	13	83	19	28
Luuka	31	94	31	37
Luwero	41	183	38	56
Lwengo	15	240	16	29

District	Medicine store		Dispensary	
	No of facilities	No of shelves	No of facilities	No of shelves
Lyantonde	16	94	18	25
Manafwa	14	141	18	30
Maracha	14	94	13	25
Masaka	21	165	25	40
Masindi	34	113	37	55
Mayuge	27	154	32	41
Mbale	30	185	35	59
Mbarara	30	187	42	61
Mitooma	22	97	24	35
Mityana	40	280	42	57
Moroto	10	65	13	19
Moyo	35	201	38	48
Mpigi	17	62	13	20
Mubende	55	205	59	76
Mukono	34	151	37	53
Nakapiripirit	24	133	27	41
Nakaseke	9	39	10	14
Nakasongola	29	206	29	40
Namayingo	26	239	25	30
Namutumba	29	181	34	41
Napak	1	8	1	2
Nebbi	34	174	34	53
Ngora	6	25	11	19
Ntoroko	5	42	7	11
Ntungamo	26	145	29	43
Nwoya	4	20	13	16
Otuke	9	54	8	11
Oyam	21	208	23	30
Pader	15	115	22	33
Pallisa	28	143	26	49
Rakai	79	363	77	107
Rubirizi	14	39	16	21
Rukungiri	41	232	43	54
Sembabule	20	129	24	37
Serere	17	74	17	25

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

District	Medicine store		Dispensary	
	No of facilities	No of shelves	No of facilities	No of shelves
Sheema	31	163	30	38
Sironko	14	433	27	43
Soroti	21	140	25	33
Tororo	41	249	44	69
Wakiso	74	362	71	112
Yumbe	19	123	20	30
Zombo	16	76	18	29
TOTAL	2,499	14,802	2,746	4,041

APPENDIX 9: OVERALL INVESTMENT REQUIRED PER DISTRICT

District	Civil Works		Shelving		Pallets	Fridges	Trays	Total Cost
	Store	Dispensary	Store	Dispensary				
Abim	36,347	23,992	24,600	6,000	450	-	280	91,668
Adjumani	70,370	3,428	28,800	10,400	1,125	595	620	115,338
Agago	49,463	6,136	25,200	11,600	875	-	660	93,934
Alebtong	15,051	8,208	31,200	8,400	575	595	260	64,289
Amolatar	16,931	6,531	18,900	6,000	525	795	80	49,762
Amudat	7,014	5,545	11,100	2,400	150	-	80	26,288
Amuria	14,044	8,640	50,700	14,800	1,225	595	760	90,764
Amuru	57,227	5,349	18,900	10,800	725	-	540	93,541
Apac	48,245	19,126	44,700	15,600	1,225	795	480	130,170
Arua	265,919	19,401	101,400	43,600	2,725	3,175	1,200	437,420
Budaka	15,115	528	11,700	14,400	500	595	440	43,278
Bududa	26,399	4,945	16,200	8,800	575	-	300	57,218
Bugiri	23,601	16,064	82,500	18,800	1,000	1,390	60	143,415
Buhweju	42,821	3,113	18,300	6,000	625	1,390	380	72,629
Buikwe	130,110	12,824	54,300	18,000	1,650	1,590	560	219,033
Bukedea	26,946	10,477	41,700	6,400	275	595	160	86,553
Bukomansimbi	18,087	5,939	17,700	8,400	500	595	300	51,521
Bukwo	25,398	1,627	13,800	6,800	725	1,390	140	49,880
Bulambuli	20,922	4,237	25,200	11,200	750	-	360	62,669
Buliisa	24,481	3,058	19,200	5,200	225	-	180	52,344
Bundibugyo	16,649	16,083	43,200	13,600	825	1,985	360	92,702
Bushenyi	17,421	11,382	23,100	11,200	1,300	1,985	800	67,189
Busia	25,337	4,595	22,800	7,200	1,150	795	280	62,157
Butaleja	57,275	7,867	17,700	10,400	1,450	2,385	240	97,317
Butambala	60,721	5,944	16,200	9,200	725	795	380	93,965
Buvuma	27,974	930	10,500	6,000	325	595	220	46,544
Buyende	43,172	5,026	17,700	7,200	625	595	340	74,658
Dokolo	112,499	2,042	12,900	7,600	625	595	220	136,481
Gomba	15,234	1,155	11,400	3,600	250	-	160	31,800
Gulu	68,580	15,602	102,900	29,200	1,850	1,985	1,060	221,177
Hoima	56,375	10,450	53,700	21,600	1,825	1,390	540	145,880
Ibanda	43,194	20,181	55,800	18,000	1,225	595	740	139,735

ASSESSMENT OF THE PHYSICAL CONDITION OF MEDICINE STORES IN PUBLIC HEALTH FACILITIES

	Store	Dispensary	Store	Dispensary				
Iganga	80,961	20,368	55,800	24,000	1,650	1,190	860	184,829
Isingiro	174,567	16,033	79,500	32,800	1,850	1,785	1,180	307,715
Jinja	140,274	12,154	44,100	26,000	1,725	3,970	880	229,103
Kabale	216,719	18,501	144,900	50,000	3,175	1,390	2,020	436,705
Kabarole	32,612	22,128	91,800	34,800	2,075	3,375	700	187,490
Kaberamaido	33,687	2,719	11,400	10,000	1,000	-	320	59,126
Kalangala	66,120	1,223	22,200	7,600	650	-	260	98,052
Kaliro	181,512	3,123	22,500	6,000	1,050	1,190	360	215,735
Kalungu	35,823	2,803	17,700	9,200	875	795	380	67,576
Kampala	218,549	23,995	122,100	18,800	2,425	7,550	760	394,179
Kamwenge	20,040	8,419	42,600	17,600	1,175	1,190	500	91,524
Kapchorwa	11,061	6,162	23,700	9,200	625	795	100	51,642
Kasese	47,898	21,727	124,500	48,000	3,400	1,190	1,380	248,095
Katakwi	35,738	3,981	21,300	12,400	875	1,390	200	75,885
Kayunga	27,734	4,506	32,100	12,400	1,025	1,390	280	79,435
Kibaale	31,788	8,281	51,900	23,200	1,900	-	780	117,849
Kiboga	17,091	7,070	21,900	11,200	600	1,390	280	59,531
Kibuku	9,546	8,576	20,100	9,200	675	-	280	48,377
Kiruhura	19,843	16,509	58,500	18,400	1,325	595	840	116,013
Kiryandongo	13,070	7,987	22,800	10,000	825	795	360	55,837
Kisoro	3,892	2,671	41,700	19,200	1,300	2,580	680	72,022
Kitgum	21,264	6,674	21,000	12,800	950	1,390	280	64,358
Koboko	52,650	18,178	35,400	10,000	750	1,190	300	118,467
Kole	13,076	2,014	9,600	5,200	450	595	220	31,155
Kotido	80,953	5,938	34,200	11,600	775	595	360	134,422
Kumi	46,182	1,862	12,300	10,000	475	595	380	71,795
Kween	101,460	1,084	9,900	6,400	600	595	320	120,359
Kyankwanzi	36,963	3,601	16,500	8,400	650	595	200	66,909
Kyegegwa	31,484	3,199	24,300	9,200	625	595	260	69,663
Kyenjojo	45,501	9,208	40,200	12,800	1,200	1,390	280	110,579
Lamwo	7,331	7,952	47,400	11,600	775	1,190	200	76,449
Lira	72,137	14,894	24,900	11,200	1,275	1,190	480	126,076
Luuka	232,556	93	28,200	14,800	1,050	595	680	277,975
Luwero	91,934	14,756	54,900	22,400	2,075	1,785	620	188,470
Lwengo	32,573	14,298	72,000	11,600	1,325	2,380	440	134,616
Lyantonde	49,757	2,685	28,200	10,000	725	-	380	91,747
Manafwa	9,378	3,800	42,300	12,000	975	1,190	340	69,984

	Store	Dispensary	Store	Dispensary				
Maracha	13,723	974	28,200	10,000	725	-	200	53,823
Masaka	29,264	10,996	49,500	16,000	750	595	400	107,505
Masindi	295,861	17,627	33,900	22,000	1,625	2,580	700	374,293
Mayuge	48,433	14,477	46,200	16,400	1,050	1,985	760	129,305
Mbale	136,919	9,608	55,500	23,600	1,725	2,380	540	230,272
Mbarara	18,242	9,181	56,100	24,400	1,775	1,390	760	111,847
Mitooma	21,915	270	29,100	14,000	700	595	460	67,040
Mityana	33,610	18,813	84,000	22,800	1,900	595	380	162,098
Moroto	7,866	1,521	19,500	7,600	550	1,390	260	38,687
Moyo	10,815	8,819	60,300	19,200	1,575	795	600	102,104
Mpigi	39,304	8,458	18,600	8,000	975	-	260	75,597
Mubende	379,709	5,502	61,500	30,400	1,950	1,190	1,060	481,311
Mukono	33,741	10,406	45,300	21,200	1,525	2,580	180	114,932
Nakapiripirit	87,283	7,425	39,900	16,400	925	1,190	500	153,623
Nakaseke	64,564	8,671	11,700	5,600	925	1,190	420	93,070
Nakasongola	10,975	7,447	61,800	16,000	1,050	595	400	98,267
Namayingo	74,677	13,953	71,700	12,000	825	-	600	173,755
Namutumba	102,289	11,430	54,300	16,400	1,050	595	400	186,463
Napak	-	-	2,400	800	250	795	20	4,265
Nebbi	71,722	32,301	52,200	21,200	1,150	595	540	179,708
Ngora	4,213	2,227	7,500	7,600	725	1,390	220	23,875
Ntoroko	13,096	3,865	12,600	4,400	400	-	100	34,461
Ntungamo	30,088	14,754	43,500	17,200	1,475	3,175	800	110,992
Nwoya	17,703	7,175	6,000	6,400	450	795	220	38,743
Otuke	40,062	8,379	16,200	4,400	325	595	200	70,161
Oyam	33,890	10,260	62,400	12,000	400	595	260	119,805
Pader	12,695	9,136	34,500	13,200	850	1,190	420	71,991
Pallisa	48,020	21,648	42,900	19,600	1,400	1,590	480	135,638
Rakai	366,889	18,988	108,900	42,800	3,250	1,985	1,720	544,532
Rubirizi	103,150	111	11,700	8,400	575	595	340	124,871
Rukungiri	21,447	12,031	69,600	21,600	2,575	-	1,260	128,513
Sembabule	11,183	9,477	38,700	14,800	1,000	1,190	520	76,870
Serere	96,663	4,108	22,200	10,000	950	1,190	400	135,512
Sheema	37,617	6,874	48,900	15,200	1,425	1,985	460	112,462
Sironko	126,691	2,251	129,900	17,200	1,125	595	600	278,362
Soroti	62,384	7,553	42,000	13,200	1,175	1,985	500	128,797
Tororo	98,779	39,687	74,700	27,600	2,275	3,375	560	246,977

	Store	Dispensary	Store	Dispensary				
Wakiso	261,163	22,867	108,600	44,800	4,025	4,765	1,520	447,740
Yumbe	52,584	5,556	36,900	12,000	1,000	1,390	480	109,910
Zombo	16,041	7,234	22,800	11,600	625	-	340	58,640
TOTALS	6,757,915	1,011,659	4,440,600	1,616,400	122,500	125,645	53,160	14,127,879

APPENDIX 10: REQUIRED INVESTMENT PER FACILITY

