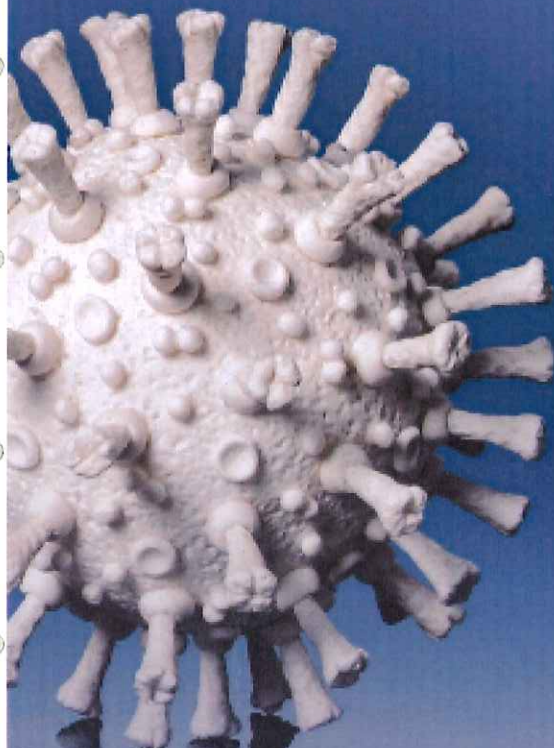


**SPECIAL AUDIT REPORT OF THE AUDITOR-GENERAL
ON
COVID 19 VACCINE ROLL OUT
FOR
NYAMIRA COUNTY
AS AT 31 MARCH 2022**

PAPERS LAID	
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June 2022

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LIST OF ABBREVIATIONS

The following abbreviations are used in this Report

Abbreviation	Full Description
CEPI	County Expanded Programme on Immunization
CHAI	Clinton Health Access Initiative
CHV	Community Health Volunteer
eLMIS	Electronic Logistics Management Information System
FIFO	First In, First Out
GOK	Government of Kenya
HR	Human Resource
SCEPI	Sub County Expanded Programme on Immunization
ULT	Ultra-Low Temperatures
WHO	World Health Organization

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1.0 EXECUTIVE SUMMARY

1.1 Background and introduction

The Auditor-General carried out a Special Audit on the efficiency and effectiveness of Covid-19 vaccines roll-out in Kenya. The Audit covered the period from inception of the vaccination exercise in March 2021 to 31 March, 2022. The primary objective of the audit was to determine the efficiency and effectiveness of the Covid-19 vaccines rollout in the Forty-Seven (47) Counties. This report however, specifically covers the portion of the audit performed for the Covid-19 vaccines rollout in Nyamira County. The audit involved review of budget, sources of the vaccines, storage, distribution, utilization and disposal of the vaccines, human resource financing, coordination of players, monitoring and supervision.

The Government of Kenya commissioned use of the Chanjo System to manage the Covid-19 vaccines rollout and utilized existing immunization structures for other routine vaccines.

1.2 Audit Scope, Limitations and Mitigation

The audit reviewed all processes relating to Covid-19 vaccines immunization which included budgeting, administration, and disposal of the expired stocks, governance, and monitoring structures.

Challenges experienced during the audit included low levels of staff proficiency in usage of the Chanjo System. It was also not clear to the staff which record was primary for the vaccination between the Chanjo System and manual records. The inadequacy and completeness of vaccine inventory records was also not assured. The Audit Team put in place several measures to mitigate the challenges including expanding the scope to near 100% coverage of the vaccinating facilities in the County.

1.3 Audit Approach and Methodology

The Audit exercise entailed planning, piloting of the vaccine roll-out audit in one of the counties before rolling out to the rest of the 47 Counties. Meetings were held with the auditee and the audit teams collected evidence through interviews, document reviews,

data analytics, analysis of audit evidence among others. The audit was performed using International Standards of Supreme Audit Institutions (ISSAIs).

1.4 Report Summary

1.4.1 Doses received and administered

Nyamira County received 308,000 doses of various types of vaccines during the period under review. Out of the total Covid-19 vaccine doses received in the County, 238,401 doses were administered while 7,673 vaccine doses were still in stock as at the time of the audit cutoff date on 31 March, 2022. The balance of 61,926 vaccine doses comprised of expired, damaged, wasted and unexplained deficit of 53,172 doses as at 31 March, 2022.

1.4.2 Budget

A review of the Nyamira County health services budget for the 2021/2022 financial year revealed that the County did not budget for the Covid-19 vaccination activities but instead used the budget for routine immunization to cater for the rollout exercise.

1.4.3 Sources and Distribution of Vaccines

The source of vaccines to the County was from the Government of Kenya (GOK) through the Kisumu Regional Store.

The distribution flow was from Regional Store to the Sub County stores and to the facilities which administered the vaccines.

1.4.4 Storage of Vaccines

The Nyamira County and Sub County Stores complied to some extent with the storage conditions set out by MOH for Covid-19 Vaccines. However, weaknesses were noted in the storage at the facilities including inadequate storage equipment and temperature monitoring tools.

1.4.5 Disposal of Vaccines

The Special Audit noted that a total of 8,754 vaccine doses had expired, were damaged or had gone to waste. Out of 8,754 vaccine doses 5,184 had been disposed with other

hospital waste while the balance of 3,570 vaccine doses were kept at the County Store awaiting return to the Regional Store.

1.4.6 Human Resource Matters

The financing for health care personnel was to be funded by the Government of Kenya, Donors and development partners. Nyamira County Management explained that their trainings were undertaken through the assistance of the development partners. However, there were no proper records or documentation maintained of actual trainings that took place.

1.4.7 Coordination of players

The coordination of the exercise was done by the Nyamira County Covid-19 Vaccine Deployment and Vaccination Taskforce. This was well done especially on mobilization and vaccination outreaches.

1.4.8 Monitoring and Supervision

The Audit established that Covid-19 Vaccines roll out was monitored and supervised by a committee to ensure smooth implementation of policies and guidelines issued from time to time by the National Government. However, some facilities had no computer tablets or they were not functional, airtime was not provided and adverse effects booklets were not supplied in some facilities.

1.4.9 Conclusions and Recommendation.

The audit concluded that the roll-out of the Covid-19 Vaccines was effective. However, weaknesses were noted in some of the processes including failure to budget for the rollout activities, practical adherence to waste disposal regulations, inadequate staff and training at the facilities, inadequate access to the Chanjo System due to lack of data bundles to the staff updating information in the system and the system having challenges in the way it is configured and downtime. This impacted on the real time recording of information in the Chanjo System and resulted to an unexplained deficit variance of 53,172 doses valued at Kshs 29,059,638 based on the average vaccine cost during the period.

The existing immunization structures for routine vaccines were functional but require scale up to handle unforeseen pandemics. Owing to the weaknesses noted it is recommended that the Nyamira County Government should work closely with National Government to strengthen the existing immunization structures and staffing to meet international standards.

2.0 BACKGROUND AND INTRODUCTION

Kenya received its first consignment of Oxford/AstraZeneca Covid-19 vaccine in March 2021 as part of the COVAX facility. This was followed by more vaccines of Moderna, Johnson & Johnson (Janssen), Pfizer and Sinopharm from other development partners. The Ministry of Health (MOH) launched a campaign and kicked off the deployment plan for the Covid-19 vaccines roll out on 5 March 2021 with priority being given to frontline health workers and essential staff including security personnel. According to the National Covid-19 vaccine deployment plan, the first vaccine plan was developed in March 2021, and was subsequently revised by the MOH in August 2021 in an effort to cover the entire adult population in the country.

Nyamira County received its first consignment of 3,000 Astra Zeneca-Oxford Covid-19 vaccines in March 2021, through the Kisumu Regional Vaccines Store. The vaccine doses were first administered at Nyamira County Referral Hospital before being rolled out to the facilities in the Five (5) Sub Counties. As of 31 March 2022, the special Audit Team established that the County had received 308,000 vaccines doses as tabulated below:

Type of Vaccine	Number of Doses
Moderna	29,680
Janssen (Ad26.COV2_S)	49,950
Oxford/AstraZeneca	141,790
Pfizer	86,580
Total	308,000

2.1 Objective of the Audit

The primary objective of the audit was to determine the efficiency and effectiveness of the Covid-19 vaccines rollout in Nyamira County. This was achieved through; review of budget,

sources of the vaccines, storage, distribution, utilization and disposal of the vaccines, human resource, and coordination of players, monitoring and supervision.

2.2 Terms of Reference

The following Terms of Reference (TORs) guided the special audit;

Table 1: Terms of Reference

TOR	Detailed Procedures
1. Budget	• How much was set aside for vaccines and related activities and how the figures were arrived at • Budget approval process • Allocation of the funds i.e. specific budget items • Source of funds i.e. GOK and Donors
2. Sources of Vaccines	• GOK Procured vaccines, development partners donations and COVAX • Procurement process for GOK procured vaccines • Local and international approval of vaccines and syringes • Types and quantities of the vaccines from the different sources; and the vaccine shelf life and prices where applicable • Consider whether vaccines came with syringes or not and the effect • Vaccine Batch Numbers • Storage of defective vaccines/ expired • Recording of vaccines • Government clearance process for vaccines sourced from outside the country • WHO rating of effectiveness of various vaccines. • Cost vs budget
3. Storage of Vaccines	• Manufacturer's requirements for storage of vaccines • Local storage capacity • Local storage conditions • Handling requirements • Transportation requirements • Recording including batch numbers • Stocking levels, process of issuing of vaccines as well as duration • Recording and accountability • Duration in store • Storage of defective vaccine and Syringes • Cost Vs Budget
4. Distribution	• How vaccines were distributed; logistics

TOR	Detailed Procedures
	- Quantities of vaccines distributed - Proportion of vaccines distributed per region - Basis of quantities and proportions distributed e.g. population - Storage issues - Recording and accountability - Cost vs budget
5. Utilization	- Awareness creation - Intended/ target population - Uptake per vaccine type - Rate of transition from first to second dose - Possibility of delayed administration of second dose - Matters relating to booster doses - Expired vaccines - Recording and accountability for vaccines received, utilized in stock and expired - Cost vs budget
6. Disposal	- Number of vaccines disposed - Criteria for disposal - Recording and accountability for the disposal - Reports and feedback - Reconciliation of what was procured, utilized, unused and disposals - Costs vs budgets
7. Human Resource Matters (National and County Staff)	- Number of persons involved - Roles and responsibilities - Expertise (capacity/skills) - Duplication of roles if any - Selection and appointment criteria - Training Plans and Roll Out - Costs vs budgets
8. Coordination of players	- Who are the key players? - Are the roles and responsibilities of the players clear? - Is there a framework for coordination and communication by the players? - Approval and appointment of taskforce and committees - Costs vs budgets
9. Monitoring and supervision	- Is there a framework for monitoring and supervision of players? - Approval and appointment of taskforce and committees - Costs vs budgets

2.3 Scope of the Audit and Limitations

2.3.1 Scope

The audit reviewed all processes from the inception of Covid-19 vaccines roll out, through budgeting to administration and disposal including the governance and monitoring structures. The period covered was from inception in March 2021 to 31 March, 2022.

2.3.2 Limitations

The special audit experienced challenges and limitations which were mitigated in several ways in order not to negatively affect the quality and results of the audit findings. Some of the challenges and measures taken included:

- i. 17 out of 87 vaccinating facilities in Nyamira County were not defined in the Chanjo Kenya System; This called for 100% coverage physical verification of records, stocks and visits to all facilities.
- ii. It was not clear to the staff which system was the primary record for the vaccination between the Chanjo System and the manual records; This also called for examining both records to establish gaps and reconcile the two.
- iii. Accuracy and completeness of inventory records. The Audit Team corroborated information in the physical records such as order sheets and vaccines stock ledgers with information in the Chanjo System. The Audit Team had to also use the data from the forms used for vaccines receipts, utilization and balances at the individual facility while reconciling it with the Chanjo System.
- iv. Challenges in identifying errors in the system, such as reversals done long after the original error entry was made. Engaged the help of the stores in-charge and manual records in trying to establish the errors and reconcile them to the Chanjo System data.
- v. Facilities sharing user rights without proper linkages being defined. The audit team was guided by the stores in-charge and tracked vaccines to sources.

The Audit Team had to also use the data from the forms used for vaccine receipts, utilization and balances at the individual facilities while reconciling them with the Chanjo System.

2.4 Audit Approach and Methodology

The Special Audit Team held entry and exit meetings with the County Health Management team on 9 May, 2022 and 2 June 2022, respectively. The Audit Team held planning meeting before the commencement of the exercise. During the entry meeting, the management were taken through the detailed plan and which the meeting adopted and was applied in the execution of the audit. The following were the main evidence gathering methods applied during the audit execution:

2.4.1 Document Review

To effectively plan for the audit and as a source of audit evidence, the Audit Team reviewed various documents including the vaccine order sheets, vaccine stock ledgers, various training reports, outreaches, co-ordination activities and seizure/destruction forms.

2.4.2 Analytical Review

The Audit Team extracted the vaccine data from the Chanjo System and carried out comparative analysis with records at the Regional Stores and vaccinating facilities.

2.4.3 Physical Verification

The Audit Team carried out physical verifications in the five (5) Sub County stores and the 87 vaccinating facilities in the County as detailed in **Appendix 1**.

2.4.4 Interviews

The Audit Team interviewed senior officers from Nyamira County Government to clarify the various issues to assist in making an informed report as detailed in **Table 2** below.

Table 2: Interviews

	Name	Organization	Designation
1.	Dr Geoffrey Nyabuti	Nyamira County	Ag. Director of Health
2.	Irene Bosire	Nyamira County	Head of County Vaccine and Immunization Programme
3.	Mr. Nebert Kigwa	Nyamira County	Accountant
4.	Mr. Peterson Ombati	Nyamira County	County Health Records Information Officer
5.	Gladys Momanyi	Nyamira County	In-Charge CEPI Store

2.5 Audit Phases

The audit was divided into Two Phases; Phase One involved review of processes at The National Treasury, Office of the Controller of Budget and the Ministry of Health. It also involved analysis of data maintained in eMIS, Chanjo System and Kenya Health Information System. The information was then shared with the Audit Teams to inform the next audit phase.

Phase two involved review of processes, data and verifications at Nyamira County Store, Sub County Stores and the vaccinating facilities in the County. This Phase also involved verification and interview of staff.

2.6 Report Structure

This report is presented in the following format:

- i. Executive Summary,
- ii. Background and Introduction,
- iii. Detailed Findings,
- iv. Irregularities and weaknesses in management and controls of Vaccines in Institutions,
- v. Conclusion and Recommendations, and
- vi. Appendices.

The report should be read in its entirety in order to comprehend fully the approach to and findings of our work. The report has covered analysis and facts as understood with the aim of informing The National Treasury and the Ministry of Health of the status of the Vaccines Roll Out in the County bearing in mind the challenges and limitations experienced.

3.0 DETAILED FINDINGS

3.1 Budget and Sources of Vaccines

3.1.1 Unconfirmed Funding of Covid-19 Vaccination Activities

A review of the County's health services budget for the financial year 2021/2022 revealed that the County did not budget for the Covid-19 vaccination activities. Covid-19 vaccination costs, including transportation, training and capacity building and procurement of auxiliary services such as syringes and safety boxes, could not, therefore, be traced to a specific budget, an indication that they were not budgeted for. This was contrary to Regulations 29. (1) of the Public Finance Management (County Governments) Regulations, 2015 which require the accounting officer to ensure draft estimates relating to her or his department are prepared in conformity with the Constitution, the Act and these Regulations. Management however, explained that the expenditures were met by the National Government and Donor Partners, but this was not fully supported by documentary evidence such as agreements with the Partners.

3.2 Sources of Vaccines

The County received 308,000 vaccines between March 2021 and 31 March 2022 from the National Government. A review of the County's Health Services Budget for the 2021/2022 financial year revealed that there were no provisions for the Covid-19 vaccine roll out. Further, the Special Audit revealed anomalies in budgeting and Expenditure of Covid-19 as summarized in **Table 3** below and detailed in **Appendix 2**:

Table 3: Weaknesses in Budgeting and Expenditure for Covid-19

Observation/Findings	Number of Compliant Sub Counties	Number of Non-Compliant Sub Counties
Failure to budget for associated Covid-19 vaccination costs, including transportation, training and procurement of auxiliary services such as syringes and safety boxes.	0	6
Lack of budgetary support for Covid-19 from donors/National government	6	0
Failure to spent budgetary support on Covid-19 vaccination.	6	0

Observation/Findings	Number of Compliant Sub Counties	Number of Non-Compliant Sub Counties
Failure by the Sub County/Facility to finance Distribution of Vaccines, Outreaches, Trainings costs related to Covid- 19 vaccination;	0	6

3.3 Storage of Vaccines

According to World Health Organization (WHO) Guidelines (Covid-19 vaccination: supply and logistics guidance, 12 February 2021) the Covid-19 vaccines should be stored as follows:

- i. Pfizer should be maintained at -80 °C to -60 °C in Ultra Low Temperatures (ULT) freezer, and for Undiluted thawed vaccine at +2 °C to +8 °C
- ii. Moderna should be maintained at -25 °C to -15 °C in ULT freezer, and unopened vials can be stored refrigerated between 2 °C to 8 °C for up to 30 days prior to first use.
- iii. Oxford/AstraZeneca should be maintained at 2 °C to 8 °C
- iv. Further, Centre for Disease Control (CDC) clinical guidance for Janssen Covid-19 Vaccine recommend storing of the vaccine at temperatures between 2°C and 8°C.

The storage conditions applied to the Regional, Sub- County and Facility Stores. However, visits to the stores revealed that the five Sub County stores did not have cleaning logs that must be completed, signed, and checked by the appropriately designated person and a written procedure and a program for pest control. The Audit also established that 44 facilities did not adhere to the broken or damaged items guideline which requires the items to be withdrawn from usable stock and stored separately.

3.3.1 Storage at the County and Sub- Counties Stores

A review of documents provided for audit and physical verification carried out at the 5 Sub County stores revealed issues as summarized below in **Table 5** and detailed in **Appendix 3**.

Table 5: Storage at the County and Sub County Stores

Observations/Findings	Number of Compliant Sub- County Stores	Number of Non-Compliant Sub- County Stores
Cold Chain and Supply Logistics		
Store has sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	5	0
Store has sufficient space for orderly receipt, warehousing, and dispatch of vaccines including a quarantine area for isolation when necessary, isolation of faulty packs and recalled goods. The vaccines and areas concerned were appropriately identified.	5	0
Broken or damaged items are withdrawn from usable stock and stored separately		0
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	5	0
All Covid-19 vaccines stored off the floor	5	0
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	5	0
The vaccines issued on a FIFO method and guided by the expiry date	5	0
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	5	0
General Storage Areas		
There were secure measures to ensure that rejected vaccines cannot be used. Rejected vaccines are stored separately from other products while awaiting destruction or return to the supplier	5	0
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	5	0

Observations/Findings	Number of Compliant Sub- County Stores	Number of Non-Compliant Sub- County Stores
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	0	5
There was a written procedure and a program for pest control. The pest control agents used did not pose any risk of contaminating the vaccines. There was a site flow plan indicating where the bait stations are situated.	0	5
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	5	0
The Covid-19 vaccines were stored in such a way as to prevent contamination or cross-contamination.	5	0
Storage Conditions		
The storage conditions were compatible with the storage conditions specified on their labels. (Storage facilities protected goods from deterioration.)	5	0
The warehouse was maintained at a temperature not exceeding 30 °C, and relative humidity not exceeding 75% Relative humidity (WHO zone IVb requirements) at all times.	5	0
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	5	0
There were continuous temperature monitoring devices. In addition, there were written procedures describing the action in case of temperature deviating outside of the set standards and conditions.	5	0
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	5	0

From the foregoing, the special audit team confirmed that except for the lack of completed logs, written procedure and program for pest control, the County stores and the five Sub County Stores complied with storage conditions as per the WHO and Covid-19 vaccines manufacturer's storage recommendations.

3.3.2 Storage at the Facilities Level

A review of documents provided for audit and physical verifications carried out at the 87 facilities revealed issues as summarized in Table 6 below and detailed in **Appendix 4**.

Table 4: Storage at the Facilities Level

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
Store has sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	87	0
Broken or damaged items are withdrawn from usable stock and stored separately	43	44
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	87	0
All Covid-19 vaccines stored off the floor	82	5
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	82	5
The vaccines issued on a FIFO method and guided by the expiry date	82	5
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	82	5
General Storage Areas		
There were Secure measures to ensure that rejected vaccines cannot be used. Rejected vaccines are stored separately from other products while awaiting destruction or return to the supplier	82	5
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	68	19
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	68	19
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	77	10

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
Storage Conditions		
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	85	2
There were continuous temperature monitoring devices. In addition, there were written procedures describing the action in case of temperature deviating outside of the set standards and conditions.	85	2
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	87	0

In view of the above, the Special Audit Team confirmed that a significant number of the vaccinating facilities did not separate store broken or damaged items from the usable stock. Additionally, they did not have written procedures on sanitation, pest control and clean-up of spillage. They also failed to maintain the cleaning logs.

3.3 Distribution of Vaccines

3.3.1 Distribution at County Level

Documents provided for audit revealed that Covid-19 Vaccines on arriving in the Country ideally should be transferred to the Central Stores where they are distributed to the Regional Stores. The Regional Stores then distribute to the County Stores, which in turn distribute to Sub County Stores and Sub County to Facilities. This was largely adhered to in Nyamira County except where facilities were not defined in the Chanjo System which received their vaccines through other defined facilities.

The 308,000 vaccines received in Nyamira County as at 31 March, 2022 were distributed as summarized in **Table 7** below and detailed in **Appendix 5**.

Table 5: Distribution at County Level

Vaccine Type	Distributed to County Stores	Distributed to Sub-County Stores	Distributed to Facilities	Variance between Sub-County and Facilities Distribution	Explanation for the Variance
Moderna	N/A	29,680	29,818	(138)	Failure to update records properly
Janssen (Ad26.COV2-S)		49,950	49,819	141	
Oxford/AstraZeneca		141,790	134,448	7,342	
Pfizer		86,580	84,730	1,830	
Total		308,000	298,835	9,864	

The Sub County EPI Store Coordinator indicated that vaccines that remained undistributed at the County Store were for Nyamira South Sub County, hence the conclusion that all the vaccines received at the County were distributed to Sub Counties.

According to the National Policy Guidelines on Immunization, 2013, storage and transportation of vaccines and diluents, at all stages of vaccine transportation, a cold chain monitor must always accompany all vaccines whether in cold boxes, vaccine carriers or portable fridges and the temperature reading must be maintained between +2°C and +8°C including age of conditioned ice packs. Diluents need not be transported at +2°C to +8°C unless they are being transported for outreach activities.

The special audit revealed that the 5 Sub County stores and the 87 vaccinating facilities monitored temperature during transportation of vaccines as per the guidelines.

3.4 Utilization of Vaccines

Ordinarily, Covid-19 vaccines flow through four levels before being administered; National Vaccine Store (NVS), Regional Vaccine Stores (RVS), Sub County Vaccine Stores (SCVs) and Health Facilities. Utilization of vaccines including Covid-19 vaccines takes place at a vaccinating facility.

Examination of records maintained in the Chanjo System revealed that as at 31 March, 2022, 308,000 vaccine doses had been received in the County.

Documents provided for audit revealed that there were 87 vaccinating facilities, with 70 facilities having been mapped in the Chanjo System.

Out of the total 308,000 Covid- 19 Vaccine doses received, 238,401 doses were administered, 7,673 were still in stock while the balance of 8,754 was either expired, damaged or had gone to waste as at 31 March, 2022 as summarized below in **Table 8** and detailed in **Appendix 6**. There was however an unexplained variance of 53,172 vaccine doses valued at Kshs.29,059,638.

Table 6: Utilization of Vaccines

Vaccine Type	Doses Received	Doses Administered	Doses In Stock	Doses Expired	Doses Damaged	Doses Wasted	Unexplained Variance Doses	Estimate Price per Dose (Kshs)	Total Amount (Kshs)
Janssen	49,950	35,139	7,395	0	100	498	6,818	753.02	5,134,090
Moderna	29,680	21,410	0	0	1	2060	6,209	505.05	3,135,855
Oxford/ AstraZeneca	141,790	109,377	140	3570	32	1369	27,302	446.22	12,182,698
Pfizer	86,580	72,475	138	0	83	1041	12,843	670.17	8,606,993
Total	308,000	238,401	7,673	3,570	216	4,968	53,172		29,059,638

3.4.1 Administered Doses

The Chanjo System indicates that a total of 238,401 doses had been administered in the County Nyamira from 01 March, 2021 to 31 March, 2022. The vaccine doses administered are as summarised in **Table 9** below.

Table 7: Administered Doses

S/N	Vaccine Type	First Doses	Second doses	Booster Doses	Total
1	Janssen (Ad26.COV2-S)	35,129	1	9	35,139
2	Oxford/AstraZeneca	66,405	41,828	1,144	109,377
3	Pfizer	50,118	21,485	872	72,475
4	Moderna	12,891	8,437	82	21410
	Total	164,543	71,751	2,107	238,401

¹ Janssen second dose indicated as one (1) is an error in data input in the Chanjo System had not been corrected yet the vaccine is a single dose.

3.4.2 Expired Doses

These are doses that had not been administered by the manufacturers' use by date indicated on the vials totalling to 3,570 doses which had not been disposed off by the time of the special audit. Expired doses from the facilities were reported to have been sent to Sub County Stores which in turn transported them to the County Store.

3.4.3 Damaged Doses

These were vaccines that were not administered as they had been damaged. All the 216 damaged vaccine doses recorded by the County had been disposed-off by the time of the special audit in May 2022.

3.4.4 Wasted Doses

These were vaccines that were not administered due to failure to utilize them within stipulated timelines upon opening of the vial. 4,968 vaccine doses were reported as wasted in the County and had been disposed-off by the time of the special audit in May 2022.

3.4.5 Unexplained Vaccine Variances

Documents provided for audit revealed that 308,000 vaccine doses were received in the County. However, reconciliation of the vaccines received, administered, in stock, expired, damaged and wasted revealed an unexplained variance of 53,172 doses valued at Kshs.29,059,638.

The following weakness observed during the audit could have contributed to the unexplained variance:

- i. Wastages not reported at the facilities,

- ii. vaccines doses utilized during the outreaches or in facilities not defined in the Chanjo System may not have been subsequently updated,
- iii. Vaccination data was not entered accurately, causing over-administration in some batches and under-administration in others, and
- iv. Extended system downtime occasioning delay or failure to upload data.

3.5 Disposal of Vaccines

The Special Audit noted that a total of 3,570 expired doses had not been disposed-off as at the time of audit. However, 5,184 damaged and wasted doses had been disposed-off.

A review of documents provided for audit revealed non-compliance with the disposal requirements as per Section 6.1 of the WHO Standard Operating Procedures (SOP) on waste management of Covid -19 vaccines vials and ancillary supplies. The procedure states that any used or discarded Covid-19 vaccine vials MUST be collected safely and separately from the rest of the waste. Both the empty vials and those with remaining vaccine doses discarded at the end of the daily vaccination activity shall be collected and safely stored until they are collected for final treatment and disposal. These vials should be counted and recorded by the responsible team for the purpose of vaccination activity analysis (e.g. utilization, coverage, wastage, etc.). Further, Section 6.6 provides that neutralized Covid-19 vaccine vials can be safely disposed in a manner that is not accessible or reusable, and neither being an environmental nor a health threat. The findings on disposal of vaccines are as summarized below in Table 9 and detailed in **Appendices 7 & 8**.

Table 8: Disposal of Vaccines

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a developed waste management plan	4	1	7	80
Lack of budget for disposal of Covid-19 waste	0	5	22	65

	Sub County Stores		Facilities	
Observation/Findings	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of NEMA clearance when transporting Covid-19 waste from one county to another or from one region to another for stores without a NEMA approved Waste Disposal Site.	N/A	N/A	N/A	N/A
Failure to record or to account for vaccine vials in the vaccine inventory report	0	5	44	43
Failure by the County/Store to fill any application form for disposal of pharmaceutical waste issued by the Pharmacy and Poisons Board in compliance with the Guidelines for safe management of pharmaceutical waste.	0	5	N/A	N/A
Failure to dispose in a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste	5	0	78	9
Disposal of pharmaceutical waste without supervision by a Pharmacy and Poisons Board inspector OR Public Health Officer in compliance with the Guidelines for safe management of pharmaceutical waste.	2	3	43	44
Disposing without a certificate of safe disposal of pharmaceutical waste in compliance with the Guidelines for secure management of pharmaceutical waste	N/A	N/A	0	87
Disposing pharmaceutical waste without separating from the sharp waste and other healthcare wastes and the different wastes not securely packaged in plastic bags or rigid containers which are clearly labelled as per the the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply	N/A	N/A	73	14

	Sub County Stores		Facilities	
Observation/Findings	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure to have a pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical	N/A	N/A	46	41
Lack of an incinerator, burning chamber or burning pit.	N/A	N/A	78	9

The disposal of the unused or discarded vaccines did not comply with the WHO Standard Operating Procedures (SOP) on waste management of Covid-19 vaccines vials and ancillary supplies because there was no budget and waste management plan in majority of the Sub-County stores and facilities. Consequently, the undisposed expired vaccines, the unused or discarded vaccines may pose a health risk to the general public and the health officers.

3.6 Human Resource Matters

Training at County Level

The health care workers were to be trained and were required to be competent on; knowledge on Covid-19 disease; knowledge and skills in Covid-19 Vaccine demand creation, health facility preparation, safe vaccine administration, infection control practices, patient data management, adverse event reporting and management, documentation and monitoring of vaccine utilization and logistics, communication, waste management, mental health and multi-disciplinary team work.

Immediately after the Covid-19 vaccines were rolled out, trainings for different levels of personnel in the National and County Governments were conducted. Nyamira County Health Management team indicated that trainings in all the five (5) Sub Counties were undertaken through the support of the National Government and Partners. However, other than the schedules and correspondences showing the donor funding, no partnership

agreements and documentation to support the National Government funding was provided for review.

The County and Sub Counties provided supporting documentation including the training plan, training timetable, venue, and the attendance lists.

A review of the documents provided for audit revealed anomalies as summarized below and detailed in **Appendices 9 and 10**

Table 9: Training at County Level

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
County and Sub- Counties were not represented in National training for ToT.	5	0	N/a	N/A
County and Sub- Counties health Management Teams not trained on Covid-19 immunization	5	0	N/a	N/A
Trainings not well spread to all necessary cadres	5	0	N/a	N/A
Lack of a training plan and trainings not done as per training plan	4	1	N/a	N/A
Lack of a specific training budget for Covid -19 immunization	5	0	N/a	N/A
Variance between budget and actual expenditure for training on Covid-19 vaccination.	0	5	N/a	N/A
Lack of details including designation, attendance dates, financier of staff at national/county/Sub County/facility	5	0	87	0
Lack of adequate staff to carry out the Covid-19 vaccination	N/a	N/A	49	38
Lack of separation of roles and duties	N/a	N/A	68	19
Lack of prior training on Covid – 19 including vaccine administration	N/a	N/A	85	02
Failure to use trained staff to train other staff	N/a	N/A	67	20

In the foregoing, the Special Audit Team could not establish the adequacy of Human Resources engagement in the Covid-19 vaccines roll out programme.

3.7 Coordination of players

Coordination at County Level

According to the National Covid-19 Vaccine Deployment Plan 2021, the County Emergency Covid-19 Response Committee were to be adopted to form the Steering Committee. A review of documents provided for audit at the County, Sub- Counties and Facilities revealed anomalies as summarized below and detailed in **Appendices 11, 12 and 13**

Table 10: Coordination at County Level

Observation/Findings	County	Sub County Stores		Facilities	
	Non-Compliance in County	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure to form coordination taskforce/committee	0	5	0	N/a	N/A
Task force /committee without terms of reference (TOR)	0	5	0	N/a	N/A
Failure to comply with the TORS	0	5	0	N/a	N/A
Lack of directives/advisory/instruction from higher levels in the Covid – 19 Vaccine management	0	5	0	87	0
Lack of upward/downward communication in Covid – 19 Vaccine Roll out	0	5	0	87	0
Lack of committee meetings	0	5	0	N/a	N/A
Failure to carry out advocacy	0	5	0	87	0
Failure to carry out mobilization	0	5	0	85	2
Failure to carry out mobilization outreaches	0	5	0	85	2

From the foregoing, only two facilities failed to carry out mobilization and outreaches which may not have adversely affected the vaccination exercise.

3.8 Monitoring and Supervision

Monitoring and Supervision at the County and Facilities Level

A review of documents provided for audit at the various levels of Covid-19 management revealed anomalies as summarized in Table 12 below and detailed in **Appendices 14, 15 and 16**

Table 11: Monitoring and Supervision at the County and Facilities Level

Observation/Findings	County		Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a designated officer as an in charge for monitoring Covid-19 vaccine roll out.	1	0	5	0	87	0
Lack tablets from the Ministry	1	0	5	0	75	12
Tablet not in good working conditions	1	0	5	0	59	18
Personnel involved in the rollout not facilitated with airtime	1	0	5	0	87	0
Lack of mechanism/measures where patients could report adverse effect after vaccination.	1	0	5	0	87	0
Lack of Adverse effect booklet etc. that are required to report adverse effects	1	0	5	0	82	5
Failure to monitor temperature during transportation of vaccines	1	0	5	0	87	0
Failure to record temperature every morning and evening in the temperature monitoring chart/tool	1	0	5	0	87	0
Failure to monitor for the expiry of the vaccines	1	0	5	0	87	0
Failure to monitor the Pfizer and Moderna vaccines for the 30 days expiry period after thawing	1	0	5	0	87	0

In view of the above, of the 87 facilities, 75 facilities had received tablets from the MOH for use in the recording of vaccine receipts and administration. 59 of the 75 facilities that had received the tablets, reported their tablets being functional and in use while 18 were not in good working condition. Further, 5 facilities did not have adverse effects booklets for reporting the adverse occurrences.

Consequently, the facilities were not fully supported to record the receipts and administration of vaccines and monitor adverse effects.

4.0 IRREGULARITIES AND WEAKNESSES IN MANAGEMENT AND CONTROLS OF VACCINES IN INSTITUTIONS

4.1 Irregularities and Weaknesses at the County and Sub County Level

The following irregularities and weaknesses and the corresponding recommendations were observed by the special audit at the Nyamira County and Sub County levels

Table 12: Irregularities and Weaknesses at the County and Sub County Level

	Irregularities and Weaknesses	Recommendations
1.	Inconsistent use and delays in updating of the Chanjo System.	Proper accountability of vaccines receipts, issues and utilization should be done through consistent use and updating in Chanjo System
2.	Most of the facilities that were not defined in the Chanjo system were using eLMIS which is not the official system for the Covid-19 vaccine roll out and vaccine doses management. Consequently, there were notable inaccuracies and incomplete records	We recommend use of the Chanjo System to account for covid-19 vaccines. For the facilities not defined in Chanjo System, should be defined.
3.	Inadequate staffing of the vaccinators who at times doubled up to register the people being vaccinated	The County Government should have adequate staff in the health facilities to meet the increasing demand for the services
4.	The health records information officers/data clerks would at times feed in the system wrong batch numbers and wrong dates for vaccine administration. There would be instances of late data entries leading to loss of data where the information captured manually was not clear.	The County should do follow-ups or reviews of work done by the officers to improve service delivery. Data should be captured on real or near real time basis in the Chanjo system.
5.	Lack of proper inventory records on the tablets in regard to distribution up to the facility level and condition of the tablets.	The County Government should maintain proper and up-to-date inventory records of the tablets under in custody undertake regular maintenance.

5.0 CONCLUSION

The objective of the special audit was to determine the efficiency and effectiveness of the Covid-19 vaccine roll out in Nyamira County. Following the findings, the County should ensure that all vaccinating facilities are defined in the Chanjo System and effective supervision of the activities at the County, Sub County and facilities on all matters relating to receipts, issues and utilization of vaccines. The above weaknesses resulted in an unexplained deficit variance of 53,172 of vaccine doses valued at Kshs 29,059,638 based on the average Vaccine cost during the period.

The County should also adhere to the cold chain and supply logistics guidelines as issued by WHO and MOH. In order to meet the increasing service demands, there is need to continuously assess demand for health workers and build their capacity for effective service delivery to the citizens of Nyamira County.



CPA Nancy Gathungu, CBS
Auditor General

24 June 2022

Nairobi

6.0 APPENDICES

Appendix 1: Vaccinating Facilities in Nyamira County

Sub County	Sub County Store	Facilities Under Sub County	Defined In Chanjo System
Borabu	Kijauri Sub County Hospital	Amatierio Health Centre	Yes
		Chepngombe Health Centre	Yes
		Endiba Health Centre	Yes
		Ensakia Dispensary	Yes
		Eturungi Dispensary	Yes
		Isoge Health Centre	Yes
		Kahawa Dispensary	Yes
		Kerumbe Dispensary	Yes
		Kijauri Sub County Hospital	Yes
		Kineni Dispensary	Yes
		Mecheo Dispensary	Yes
		Mokomoni Health Centre	Yes
		Mwongori Dispensary	Yes
		Nyagacho Dispensary	Yes
		Nyansiongo Nursing Home	Yes
		Nyaronde Dispensary	Yes
		Raitigo Dispensary	Yes
		Riontonyi Dispensary	Yes
		Tindereti Dispensary	Yes
		Nyandoche Ibere Dispensary	No
Manga	Manga District Hospital	Bogwendo Health Centre	Yes
		Gatuta Dispensary	Yes
		Gesure Health Centre	Yes
		Getare Health Centre	Yes
		Holsoms Nursing Home	Yes
		Ikobe Health Centre	Yes
		Kianungu Dispensary	Yes
		Magombo Community Dispensary	Yes
		Manga District Hospital	Yes
		Nyangena Sub District Hospital	Yes
		Ogango Dispensary	Yes

Sub County	Sub County Store	Facilities Under Sub County	Defined In Chanjo System
		Sirate Dispensary	Yes
		Tombe Health Centre	Yes
		Nyakegogi Dispensary	No
		Amaiga Dispensary	No
		Gekano Mission Hospital	No
		Kiangoso Dispensary	No
Masaba North	Masaba District Hospital	Esani Sub-District Hospital	Yes
		Gesima Sub-County Hospital	Yes
		Geteni Dispensary	Yes
		Girango Dispensary	Yes
		Karantini Dispensary	Yes
		Magombo Health Centre	Yes
		Masaba District Hospital	Yes
		Mochenwa Dispensary	Yes
		Mong'Oni	Yes
		Nyagancha Dispensary	Yes
		Nyangori Dispensary	Yes
		Rigoma Dispensary	Yes
		Kambini Dispensary	No
Nyamira North	Ekerenyo Sub-District Hospital	Ekerenyo Sub-District Hospital	Yes
		Esianyi Dispensary	Yes
		Kerobo Health Centre	Yes
		Nyabweri Dispensary	Yes
		Nyamusi Sub-District Hospital	Yes
		Orwaki Dispensary	Yes
		Rianyambweke Dispensary	Yes
		Riechieri Health Centre	Yes
		Etono Health Centre	No
		Kenयो Health Centre	No
		Kiamanyomba Dispensary	No
		Kemunchugu Dispensary	No
		Kiomara Dispensary	No
		Chaina Dispensary	No
		Magwagwa Health Centre	No

Sub County	Sub County Store	Facilities Under Sub County	Defined In Chanjo System
Nyamira South	Nyamira County Refferal Hospital	Bosiango Health Centre	Yes
		Gianchore Health Centre	Yes
		Igena-Itambe Dispensary	Yes
		Kenyambi Health Centre	Yes
		Kenyerere Health Centre	Yes
		Kinara Hospital	Yes
		Mongorisi Health Centre	Yes
		Motagara Health Centre	Yes
		Nyakeore Dispensary	Yes
		Nyamaiya Health Centre	Yes
		Nyamira County Refferal Hospital	Yes
		Nyamwectureko	Yes
		Nyangweta Health Centre	Yes
		Oasis Maternity and Nursing Home	Yes
		Ogango Health Centre	Yes
		Riakinaro Health Centre	Yes
		Riongige Dispensary	Yes
		Tinga Health Centre	Yes
		Embonga Health Centre	No
		Nyansangio Dispensary	No
		Ramba Health Centre	No
		Kenyanya	No

Appendix 2: Budget at County and Sub County Level – Nyamira County

County / Sub County	B1	B2	B3	B4	B5	B6	B7	B8
Nyamira County	No	Yes	Yes	No	No	No	No	No
Nyamira South	No	Yes	Yes	No	No	No	No	No
Nyamira North	No	Yes	Yes	No	No	No	No	No
Masaba North	No	Yes	Yes	No	No	No	No	No
Borabu	No	Yes	Yes	No	No	No	No	No
Manga	No	Yes	Yes	No	No	No	No	No
Compliance	0	6	6	0	0	0	0	0
Non-Compliance	6	0	0	6	6	6	6	6

KEY/DETAILS:

B1	Were the associated Covid-19 vaccination costs, including transportation, training and procurement of auxiliary services such as syringes and safety boxes, budgeted for?
B2	Did the county receive any Covid-19 related budgetary support from donors/National government?
B3	Did the county spend on Covid-19 vaccination?
B4	Did the Sub County/Facility finance the following costs related to Covid-19 vaccination;
B5	i) Distribution of Vaccines/

B6	ii) Outreaches
B7	iii) Trainings
B8	iv) Acquisition of auxiliary facilities (Temperature monitoring tools, Adverse effect reporting booklet, Needles etc.)?

Appendix 3: Storage at Sub County Level – Nyamira County

Sub County	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
Borabu	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Manga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Masaba North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Nyamira North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Nyamira South	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Compliant	5	5	5	5	5	5	5	5	5	3	0	1	1	5	5	0	5	5	5
Non-Compliant	0	0	0	0	0	0	0	0	0	2	5	4	4	0	0	5	0	0	0

KEY/DETAILS:

S1	Does the building have sufficient security to prevent loss of Covid-19 vaccines as well as prevent unauthorized access?
S2	Is there sufficient space for orderly receipt, warehousing, and dispatch of vaccines? In particular, a quarantine area for isolation when necessary, including isolation of faulty packs and recalled goods? (The vaccines and areas concerned should be appropriately identified.)
S3	Are the Broken or damaged items withdrawn from usable stock and stored separately?
S4	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
S5	Are all Covid-19 vaccines stored off the floor?
S6	Are Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed? (The signal should permit resetting only by the authorized person.)
S7	Are the vaccines issued on a FIFE method and guided by the expiry date?
S8	Is there a contingency plan put in place in case of power failure, equipment breakdown, or cold chain breach?
S9	Are there Secure measures to ensure that rejected vaccines cannot be used? Are they stored separately from other products while awaiting destruction or return to the supplier?
S10	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas?
S11	Is there a cleaning log that must be completed, signed, and checked by the appropriately designated person?

S12	Is there a written procedure and a program for pest control? Do the pest control agents used pose any risk of contaminating the vaccines? (A site flow plan indicating where the bait stations are situated must be available.)
S13	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
S14	Are the Covid-19 vaccines stored in such a way as to prevent contamination or cross-contamination?
S15	Are the storage conditions compatible with the storage conditions specified on their labels? (Storage facilities should protect goods from deterioration.)
S16	Are the warehouse maintained at a temperature not exceeding 30 °C, and relative humidity not exceeding 75% Relative humidity (WHO zone IVb requirements) at all times?
S17	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
S18	Are there continuous temperature monitoring devices? If Yes, are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?
S19	Dose the county have any stock in the Cold Room? If Yes perform Physical count of doses in the cold room (Grouped per vaccine and Batch X.) and populate the remarks and hyperlink in the remarks column a paper tabulating the results of the count.

Appendix 4: Storage at Facility Level – Nyamira County

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
Nyamira South	Motagara Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyakeore Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamira County Referral Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Oasis Maternity and Nursing Home	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Kinara Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Bosiango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kenyaambi Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangweta Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Igena Itambe Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Mongorisi Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Tinga Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamaia Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kenyerere Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Riakinaro Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kenyenya Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Embonga Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ramba Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyansangio Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Riongige Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamwetuareko Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Borabu	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mokomoni Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Amatierio Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kineni Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Endiba Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Isoqe Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Kerumbe Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Riontonyi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes
	Nyandoche Ibere Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	St Josephs Nyansiong Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Mwongori Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyagacho Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Eturungi Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Tindereti Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Kahawa Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Raitigo Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Ensakia Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Chepngombe Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mecheo Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyaronde Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Manga	Manga District Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Holsoms Nursing Home	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Nyangena Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Getare Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Tombe Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kiangoso Health Centre	Yes	No	Yes	No	No	No	No	No	No	Yes	Yes	Yes
	Magombo Community Dispensary	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Ikobe Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyakegogi Dispensary	Yes	No	No	No	No	No	No	No	No	Yes	Yes	Yes
	Bogwendo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gatuta Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gesure Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Amaiga Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Gekano Mission Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Sirate Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kianungu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nyamira North	Nyamusi Sub District Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ekerenyo Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Magwagwa Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Etono Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kenyoro Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Esianyi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Kerobo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Rianyambweke Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Orwaki Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyabweri Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Riecheri Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kiamanyomba Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kemunchugu Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kiomara Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	Chaina Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Masaba North	Esani Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gesima Sub County Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Masaba District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Magombo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Girango Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mochenwa Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mong'oni Dispensary	Yes	No	Yes	No	No	No	No	No	No	Yes	Yes	Yes
	Nyagancha Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Rigoma Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Kambini Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Geteni Dispensary	Yes	No	Yes	No	No	No	No	No	No	No	Yes	Yes
	Compliant	87	43	87	82	82	82	82	82	68	77	85	85
	Non-Compliant	0	44	0	5	5	5	5	5	19	10	2	2

KEY/DETAILS:

ST1	Is the refrigerator well secured to prevent unauthorized access?
ST2	Were broken or damaged items withdrawn from usable stock and stored separately?
ST3	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
ST4	Are all Covid-19 vaccines (Fridge) stored off the floor?
ST5	Is the Refrigerator is fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)
ST6	Are the vaccines issued on a FIFO method and guided by the expiry date?
ST7	Is there a contingency plan in case of power failure, equipment breakdown, or cold chain breach

ST8	Are there measures to ensure that rejected vaccines cannot be used? (They should be stored separately from other products while awaiting destruction or return to the supplier)
ST9	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas (There should be a chart on the wall that i signed after every cleaning and a poster giving cleaning instructions)
ST10	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
ST11	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
ST12	Is there Continuous temperature monitoring devices? If ☐ , are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?

Appendix 5 – Receipts at Nyamira County Facilities as at 31 March 2022

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
Borabu	Amatierio Health Centre	100	250	146	200
	Chepengombe Health Centre	0	350	68	98
	Endiba Health Centre	0	50	318	300
	Ensakia Dispensary	0	105	65	10
	Eturungi Dispensary	0	400	300	50
	Isoge Health Centre	0	200	96	100
	Kahawa Dispensary	0	520	50	45
	Kerumbe Dispensary	0	800	96	100
	Kijauri Sub County Hospital	4970	17623	7883	5337
	Kineni Dispensary	0	940	872	190
	Mecheo Dispensary	0	598	196	50
	Mokomoni Health Centre	50	400	95	50
	Mwongori Dispensary	0	270	268	150
	Nyagacho Dispensary	0	200	446	100
	Nyansiongo Nursing Home	342	834	0	50
	Nyaronde Dispensary	0	250	326	100
	Raitigo Dispensary	0	200	0	100
Manga	Riontonyi Dispensary	0	100	0	50
	Tindereti Dispensary	0	140	228	150
	Nyandoche Ibere	0	10	30	100
	Bogwendo Health Centre(Manga)	0	230	174	100
	Gatuta Dispensary	0	0	0	50
	Gesure Health Centre (Manga)	0	200	120	100
	Getare Health Centre(Manga)	0	70	120	100
	Holsoms Nursing Home	1020	2220	2670	1250

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
	Ikobe Health Centre(Manga)	0	240	180	150
	Kianungu Dispensary	0	370	120	200
	Magombo Community Dispensary (Manga)	0	240	120	50
	Manga District Hospital	1702	8620	4490	2490
	Nyangena Sub District Hospital (Manga)	1018	1550	720	450
	Ogongo Dispensary	0	0	0	50
	Sirate Dispensary (Manga)	0	20	30	100
	Tombe Health Centre (Manga)	0	2670	360	560
	Amaiga Dispensary	0	30	30	30
	Kiangoso Dispensary	0	240	0	50
	Gekano Dispensary	0	10	48	50
Masaba North	Esani Sub-District Hospital	1036	6396	3720	1440
	Gesima Sub-County Hospital	588	5590	3414	1100
	Geteni Dispensary	0	370	360	50
	Girango Dispensary	140	600	60	410
	Karantini Dispensary	0	40	60	20
	Magombo Health Centre	0	1500	420	200
	Masaba District Hospital	3504	10858	5612	3300
	Masaba North Sub County	0	416	0	0
	Mochenwa Dispensary	270	490	172	200
	Mong'Oni	0	0	36	50
	Nyagancha Dispensary	0	50	48	100
	Nyangori Dispensary (Masaba North)	0	1200	240	150
	Rigoma Dispensary	0	2060	1200	580
	Kambini	0	0	0	0
Nyamira North	Ekerenyo Sub-District Hospital	5318	18760	13660	9475

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
	Esianyi Dispensary	28	260	48	200
	Kerobo Health Centre	280	200	80	50
	Nyabweri Dispensary	56	100	42	50
	Nyamusi Sub-District Hospital	280	900	740	275
	Orwaki Dispensary	0	380	220	150
	Rianyambweke Dispensary	101	240	288	50
	Riechieri Health Centre	45	100	120	150
	Kiomara Dispensary	0	100	60	100
	Kemunchugu Dispensary	0	50	156	100
	Chaina Dispensary	100	900	462	200
	Kenयोरो Health Centre	290	720	914	1320
	Magwagwa Health Centre	600	1370	0	155
	Kiamanyomba Dispensary	224	910	718	254
	Nyakegogi Dispensary	0	40	30	80
	Etono Health Center	400	700	462	550
Nyamira South	Bosiango Health Centre	0	1200	1770	600
	Gianchore Health Centre	0	350	420	40
	Igena-Itambe Dispensary	0	300	450	50
	Kenyambi Health Centre (Nyamira)	0	340	824	250
	Kenyerere Health Centre (Nyamira)	0	0	132	190
	Kinara Hospital	1090	2673	848	225
	Mongorisi Health Centre	0	550	620	150
	Motagara Health Centre	0	0	60	100
	Nyakeore Dispensary	0	0	44	120
	Nyamaiya Health Centre	0	600	1420	400
	Nyamira County Referral Hospital	6338	28997	22654	12445

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
	Nyamwetuereko	0	0	0	100
	Nyangweta Health Centre	0	400	390	350
	Oasis Maternity and Nursing Home	328	1738	30	60
	Ogango Health Centre	0	680	440	220
	Riakinaro Health Centre	0	0	0	150
	Riongige Dispensary	0	0	0	100
	Tinga Health Centre	0	220	228	430
	Nyansangio Dispensary	0	250	701	150
	Embonga Health Centre	0	0	0	50
	Kenyenya Health Centre	0	600	174	270
	Ramba Health Centre	0	0	0	50
TOTAL		30,218	135,148	85,212	50,369

Appendix 6 – Utilization at Nyamira County Facilities as at 31 March 2022

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
Janssen (Ad26.COV2-S)	Amatierio Health Centre	200	913	9	-	-	-	722
	Bogwendo Health Centre	100	69	-	-	-	-	31
	Bosiango Health Centre	600	567	65	-	100	-	132
	Chepgombe Health Centre	98	54	-	-	-	-	44
	Ekerenyo Sub-District Hospital	9,475	5,858	153	-	-	-	3,464
	Endiba Health Centre	300	166	22	-	-	29	83
	Ensakia Dispensary	10	19	-	-	-	-	9
	Esani Sub-District Hospital	1,440	1,470	195	-	-	-	225
	Esianyi Dispensary	200	287	75	-	-	-	162
	Eturungi Dispensary	50	51	-	-	-	50	51
	Gatuta Dispensary	50	-	45	-	-	-	5

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Gesima Sub-County Hospital	1,100	790	66	-	-	24	220
	Gesure Health Centre	100	16	-	-	-	5	79
	Getare Health Centre	100	14	-	-	-	43	43
	Geteni Dispensary	50	13	20	-	-	7	10
	Gianchore Health Centre	40	80	-	-	-	-	-
	Girango Dispensary	410	202	-	-	-	11	197
	Holsoms Nursing Home	1,250	2,452	2	-	-	122	1,326
	Igena-Itambe Dispensary	50	108	-	-	-	-	-
	Ikobe Health Centre	50	4	-	-	-	4	42
	Ikobe Health Centre	100	49	-	-	-	-	51
	Isoge Health Centre	100	164	-	-	-	-	-
	Kahawa Dispensary	45	28	-	-	-	-	17

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Karantini Dispensary	20	8	-	-	-	-	12
	Kenyambi Health Centre	150	68	30	-	-	-	52
	Kenyambi Health Centre	100	41	-	-	-	-	59
	Kenyerere Health Centre	190	21	-	-	-	-	169
	Kerobo Health Centre	50	126	3	-	-	-	- 79
	Kerumbe Dispensary	100	58	-	-	-	-	42
	Kianungu Dispensary	200	28	-	-	-	-	172
	Kijauri Sub County Hospital	5,337	2,487	40	-	-	-	2,810
	Kinara Hospital	225	1,131	-	-	-	7	- 913
	Kineni Dispensary	190	563	-	-	-	-	- 373
	Magombo Community Dispensary	50	55	10	-	-	3	- 18
	Magombo Health Centre	200	779	-	-	-	-	- 579

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Manga District Hospital	2,490	2,204	57	-	-	15	214
	Masaba District Hospital	3,300	2,354	164	-	-	-	782
	Mecheo Dispensary	50	94	-	-	-	-	-
	Mochenwa Dispensary	200	52	-	-	-	-	44
	Mokomoni Health Centre	50	740	7	-	-	-	148
	Mong'Oni	50	6	8	-	-	-	-
	Mongorisi Health Centre	150	198	-	-	-	19	67
	Motagara Health Centre	100	32	31	-	-	46	-
	Mwongori Dispensary	150	295	-	-	-	-	9
	Nyabweri Dispensary	50	81	22	-	-	-	-
	Nyagacho Dispensary	100	260	3	-	-	-	53
	Nyagancha Dispensary	100	-	55	-	-	-	-
								163
								45

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Nyakeore Dispensary	120	112	99	-	-	-	91
	Nyamaiya Health Centre	400	667	182	-	-	-	449
	Nyamira County Referral Hospital	12,445	2,961	1,840	-	-	127	7,517
	Nyamusi Sub-District Hospital	275	1,896	85	-	-	-	1,706
	Nyamwetuereko	100	10	28	-	-	10	52
	Nyangena Sub District Hospital	450	1,118	5	-	-	18	691
	Nyangori Dispensary	150	124	21	-	-	-	5
	Nyangweta Health Centre	350	149	170	-	-	-	31
	Nyansiongo Nursing Home	50	62	2	-	-	-	14
	Nyaronde Dispensary	100	357	1	-	-	-	258
	Oasis Maternity and Nursing Home	60	166	36	-	-	-	142
	Ogango Dispensary	50	2	45	-	-	3	-

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Ogango Health Centre	220	286	93	-	-	-	159
	Orwaki Dispensary	150	165	35	-	-	-	20
	Raitigo Dispensary	100	1	-	-	-	-	99
	Riakinaro Health Centre	150	-	138	-	-	-	12
	Rianyambweke Dispensary	50	205	-	-	-	-	155
	Riechieri Health Centre	150	457	-	-	-	-	307
	Rigoma Dispensary	580	386	40	-	-	-	154
	Riongige Dispensary	100	5	57	-	-	-	38
	Riontonyi Dispensary	50	33	-	-	-	-	17
	Sirate Dispensary (Manga)	100	6	75	-	-	2	17
	Tindereti Dispensary	150	370	-	-	-	-	220
	Tinga Health Centre	430	203	297	-	-	-	70

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Tombe Health Centre	560	297	44	-	-	-	219
	At Sub County Stores/Not in Chanjo	3,090	46	3,090			47	
Total		49,950	35,139	7,395	-	100	498	6,817
Moderna	Amatiero Health Centre	50	2	-	-	-	-	48
	Ekerenyo Sub-District Hospital	5,318	2,109	-	-	-	6	3,203
	Esani Sub-District Hospital	1,036	980	-	-	-	-	56
	Esianyi Dispensary	28	150	-	-	-	-	-
								122
	Gesima Sub-County Hospital	588	537	-	-	-	21	30
	Girango Dispensary	140	235	-	-	-	92	-
								187
	Holsoms Nursing Home	1,020	754	-	-	-	328	-
								62
	Kerobo Health Centre	280	105	-	-	-	-	175

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Kijauri Sub County Hospital	4,970	5,587	-	-	-	-	617
	Kinara Hospital	1,090	1,001	-	-	-	481	392
	Manga District Hospital	1,702	899	-	-	-	396	407
	Masaba District Hospital	3,504	2,931	-	-	-	-	573
	Masaba North Sub County	-	-	-	-	-	-	-
	Mochenwa Dispensary	270	223	-	-	-	-	47
	Mokomoni Health Centre	50	96	-	-	1	-	47
	Nyabweri Dispensary	56	47	-	-	-	-	9
	Nyamira County Referral Hospital	6,338	3,837	-	-	-	309	2,192
	Nyamusi Sub-District Hospital	280	675	-	-	-	-	395
	Nyangena Sub District Hospital	1,018	519	-	-	-	296	203
	Nyansiongo Nursing Home	342	164	-	-	-	-	178

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Oasis Maternity and Nursing Home	328	435	-	-	-	-	107
	Rianyambweke Dispensary	101	85	-	-	-	-	16
	Riechieri Health Centre	45	40	-	-	-	-	5
	St. Joseph's Nyansiongo Health Centre							-
	At Sub County Stores/Not in Chanjo	1,126	1				131	996
Total		29,680	21,410	-	-	1	2,060	6,209
Oxford/AstraZeneca	Amatierio Health Centre	250	563	-	-	-	-	313
	Bogwendo Health Centre	230	95	-	-	-	-	135
	Bosiango Health Centre	1,200	1,451	-	-	32	-	283
	Chepngombe Health Centre	350	1,454	-	-	-	-	1,104
	Ekerenyo Sub-District Hospital	18,760	9,637	-	-	-	-	9,123

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Endiba Health Centre	50	9	-	-	-	14	27
	Ensakia Dispensary	105	43	-	-	-	-	62
	Esani Sub-District Hospital	6,396	5,618	-	-	-	-	778
	Esianyi Dispensary	260	671	-	-	-	45	456
	Eturungi Dispensary	400	228	-	-	-	257	85
	Gekano Health Centre							-
	Gesima Sub-County Hospital	5,590	3,494	8	-	-	247	1,841
	Gesure Health Centre	200	10	-	-	-	-	190
	Getare Health Centre	70	27	-	-	-	31	12
	Geteni Dispensary	370	295	-	-	-	37	38
	Gianchore Health Centre	350	281	-	-	-	-	69
	Girango Dispensary	600	1,725	-	-	-	194	1,319

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Holsoms Nursing Home	2,220	4,155	-	-	-	255	2,190
	Igena-Itambe Dispensary	300	243	-	-	-	-	57
	Ikobe Health Centre	240	317	-	-	-	13	90
	Isoge Health Centre	200	142	-	-	-	-	58
	Kahawa Dispensary	520	55	-	-	-	-	465
	Karantini Dispensary	40	39	-	-	-	-	1
	Kenyambi Health Centre	340	429	-	-	-	-	89
	Kenयो Health Centre							-
	Kerobo Health Centre	200	288	-	-	-	-	88
	Kerumbe Dispensary	800	221	-	-	-	-	579
	Kiangoso Health Centre							-
	Kianungu Dispensary	370	34	-	-	-	-	336

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Kijauri Sub County Hospital	17,623	13,698	-	-	-	3	3,922
	Kinara Hospital	2,673	4,018	-	-	-	6	1,351
	Kineni Dispensary	940	1,160	-	-	-	-	220
	Magombo Community Dispensary	240	100	-	-	-	61	79
	Magombo Health Centre	1,500	928	-	-	-	-	572
	Manga District Hospital	8,620	6,509	-	-	-	1,003	1,108
	Masaba District Hospital	10,858	13,659	-	-	-	-	2,801
	Masaba North Sub County	416	485	-	-	-	-	69
	Mecheo Dispensary	598	192	-	-	-	-	406
	Mochenwa Dispensary	490	649	-	-	-	-	159
	Mokomoni Health Centre	400	1,548	-	-	-	5	1,153
	Mongorisi Health Centre	550	722	-	-	-	52	224

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Mwongori Dispensary	270	305	-	-	-	-	- 35
	Nyabweri Dispensary	100	335	-	-	-	-	- 235
	Nyagacho Dispensary	200	220	-	-	-	-	- 20
	Nyagancha Dispensary	50	43	-	-	-	3	4
	Nyakegogi Dispensary							-
	Nyamaiya Health Centre	600	826	160	-	-	36	- 422
	Nyamira County Referral Hospital	28,997	16,826	1	-	-	524	11,646
	Nyamusi Sub-District Hospital	900	3,498	-	-	-	-	- 2,598
	Nyandoche Dispensary							-
	Nyangena Sub District Hospital	1,550	2,133	-	-	-	300	- 883
	Nyangori Dispensary	1,200	1,113	1	-	-	-	86
	Nyangweta Health Centre	400	247	-	-	-	-	- 153

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Nyansiongo Nursing Home	834	806	-	-	-	-	28
	Nyaronde Dispensary	250	587	-	-	-	-	337
	Oasis Maternity and Nursing Home	1,738	2,672	-	-	-	210	1,144
	Ogango Health Centre	680	333	-	-	-	21	326
	Ogango Dispensary							-
	Orwaki Dispensary	380	453	30	-	-	-	43
	Raitigo Dispensary	200	36	-	-	-	-	164
	Rianyambweke Dispensary	240	205	-	-	-	-	35
	Riechieri Health Centre	100	378	-	-	-	-	278
	Rigoma Dispensary	2,060	1,621	-	-	-	-	439
	Riontonyi Dispensary	100	19	-	-	-	-	81
	Sirate Dispensary	20	14	-	-	-	-	6

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count at 31/03/22	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	St. Joseph's Nyansiongo Health Centre							-
	Tindereti Dispensary	140	292	-	-	-	-	152
	Tinga Health Centre	220	255	-	-	-	4	39
	Ting'Ángá Dispensary							-
	Tombe Health	2,670	487	-	-	-	-	2,183
	At Sub County Stores/Not in Chanjo	12,572	481		3,570		1,952	10,473
Total		141,790	109,377	140	3,570	32	1,369	27,302
Pfizer	Amatierio Health Centre	146	1,091	4	-	-	-	949
	Bogwendo Health Centre	174	85	-	-	-	-	89
	Bosiango Health Centre	1,770	1,759	-	-	83	-	72
	Chepngombe Health Centre	68	328	-	-	-	-	260

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Ekerenyo Sub-District Hospital	13,660	9,140	1	-	-	-	4,519
	Endiba Health Centre	318	394	1	-	-	51	128
	Ensakia Dispensary	65	321	-	-	-	-	256
	Esani Sub-District Hospital	3,720	2,244	-	-	-	-	1,476
	Esianyi Dispensary	48	435	-	-	-	-	387
	Etono Health Centre							-
	Eturungi Dispensary	300	188	-	-	-	-	112
	Gekano Health Centre							-
	Gesima Sub-County Hospital	3,414	2,878	2	-	-	45	489
	Gesure Health Centre	120	11	-	-	-	16	93
	Getare Health Centre	120	60	-	-	-	27	33
	Geteni Dispensary	360	305	-	-	-	18	37

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Gianchore Health Centre	420	412	-	-	-	-	8
	Girango Dispensary	60	52	-	-	-	-	8
	Holsoms Nursing Home	2,670	3,947	-	-	-	264	- 1,541
	Igena-Itambe Dispensary	450	426	-	-	-	-	24
	Ikobe Health Centre	180	329	-	-	-	25	- 174
	Isoge Health Centre	96	474	-	-	-	-	- 378
	Itibo Mission Health Centre							-
	Kahawa Dispensary	50	14	-	-	-	-	36
	Karantini Dispensary	60	19	-	-	-	-	41
	Kenyanbi Health Centre	824	441	-	-	-	-	383
	Kenyerere Health Centre	132	42	-	-	-	-	90
	Kenyoro Dispensary							-
	Kenyoro Health Centre							-

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Kerobo Health Centre	80	254	-	-	-	-	- 174
	Kerumbe Dispensary	96	103	6	-	-	-	- 13
	Kiangoso Health Centre							-
	Kianungu Dispensary	120	88	-	-	-	-	32
	Kijauri Sub County Hospital	7,883	6,367	5	-	-	-	1,511
	Kinara Hospital	848	1,394	-	-	-	95	- 641
	Kineni Dispensary	872	1,637	-	-	-	-	- 765
	Magombo Community Dispensary	120	45	-	-	-	25	50
	Magombo Health Centre	420	632	-	-	-	-	- 212
	Manga District Hospital	4,490	3,188	-	-	-	224	1,078
	Masaba District Hospital	5,612	6,478	-	-	-	-	- 866
	Masaba North Sub County	-	-	-	-	-	-	-

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Mecheo Dispensary	196	16	-	-	-	-	180
	Mochenwa Dispensary	172	524	-	-	-	-	352
	Mokomoni Health Centre	95	805	3	-	-	-	713
	Mong'Oni	36	37	-	-	-	-	1
	Mongorisi Health Centre	620	704	-	-	-	32	116
	Motagara Health Centre	60	23	-	-	-	17	20
	Mwongori Dispensary	268	360	4	-	-	-	96
	Nyabweri Dispensary	42	361	1	-	-	-	320
	Nyagacho Dispensary	446	603	15	-	-	-	172
	Nyagancha Dispensary	48	52	-	-	-	8	12
	Nyakegogi Dispensary							-
	Nyakeore Dispensary	44	43	2	-	-	-	1

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Nyamaiya Health Centre	1,420	1,177	18	-	-	-	225
	Nyamira County Referral Hospital	22,654	8,305	11	-	-	109	14,229
	Nyamusi Sub-District Hospital	740	4,279	-	-	-	-	-
	Nyandoche Ibere Dispensary							3,539
	Nyangena Sub District Hospital	720	1,973	16	-	-	26	-
	Nyangori Dispensary	240	383	1	-	-	-	1,295
	Nyangweta Health Centre	390	336	-	-	-	-	-
	Nyaronde Dispensary	326	902	-	-	-	-	54
	Nyansiongo Nursing Home							-
	Oasis Maternity and Nursing Home	30	250	-	-	-	-	576
	Ogango Health Centre	440	1,296	38	-	-	-	-
	Orwaki Dispensary	220	330	12	-	-	-	894
								-
								98

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Rianyambwe Dispensary	288	450	-	-	-	-	- 162
	Riechieri Health Centre	120	1,733	1	-	-	-	- 1,614
	Rigoma Dispensary	1,200	1,084	-	-	-	-	- 116
	Sirate Dispensary	30	18	-	-	-	2	- 10
	Tindereti Dispensary	228	205	-	-	-	-	- 23
	Tinga Health Centre	228	259	21	-	-	-	- 52
	Tombe Health Centre	360	308	-	-	-	-	- 52
	At Sub County Stores/Not in Chanjo	5,153	78				57	- 5,018
Total		86,580	72,475	138	-	83	1,041	12,843

Appendix 7: Disposal at Sub County Level – Nyamira County

Sub County	D1	D2	D3	D4	D5	D6	D7
Nyamira South	Yes	No	No	No	No	No	No
Nyamira North	Yes	No	No	No	No	No	No
Masaba North	Yes	No	No	No	No	No	Yes
Borabu	Yes	No	No	No	No	No	Yes
Manga	No	No	No	No	No	No	No
Compliant	4	0	0	0	0	0	2
Non-Compliant	1	5	5	5	5	5	3

KEY/DETAILS:

D1	Was waste management plan developed at either the National and/or County level?
D2	Was there a budget developed for disposal of Covid-19 waste? (Compare actual with the budget and Report under observation if the budget was adequate or not)
D3	Did Covid-19 waste transported from one county to another have clearance from NEMA?
D4	Were disposed vaccine vials recorded and accounted for in the vaccine inventory report?
D5	Did the County/Store fill any application form for disposal of pharmaceutical waste issued by the Pharmacy and Poisons Board in compliance with the Guidelines for safe management of pharmaceutical waste?
D6	Are the disposals done at a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste
D7	Was disposal of pharmaceutical waste supervised by a Pharmacy and Poisons Board inspector OR Public Health Officer in compliance with the Guidelines for safe management of pharmaceutical waste?

Appendix 8: Disposal at Facility Level – Nyamira County

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Nyamira South	Motagara Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Nyakeore Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Nyamira County Referral Hospital	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Oasis Maternity and Nursing Home	No	Yes	No	No	No	No	Yes	No	No	No	No	No
	Kinara Hospital	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Bosiango Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Kenyanbi Health Centre	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
	Nyangweta Health Centre	No	No	Yes	No	Yes	No	No	No	Yes	No	No	No
	Igena Itambe Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mongorisi Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	No
	Tinga Health Centre	No	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Nyamaiya Health Centre	No	No	Yes	No	Yes	No	No	No	Yes	No	No	No
Borabu	Kenyerere Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Riakinaro Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kenyenya Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes
	Embonga Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Ramba Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Nyansangio Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Riongige Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	Yes
	Nyamwetreko Dispensary	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes
	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Mokomoni Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Amaterio Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Kineni Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Endiba Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Isoge Health Centre	No	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Kerumbe Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Riontonyi Dispensary	No	Yes	Yes	No	No	No	No	No	No	No	No	Yes
	Nyandoche Ibere Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	St Josephs Nyansiongo Hospital	Yes	No	Yes	Yes	No	Yes	No	No	Yes	No	No	Yes
	Mwongori Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Nyagacho Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Eturungi Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Tindereti Dispensary	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	No	Yes	Yes
	Kahawa Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Raitigo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Ensakia Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Chepengombe Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No
	Mecheo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Nyaronde Dispensary	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No	Yes	Yes
	Manga District Hospital	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
Manga	Holsoms Nursing Home	Yes	Yes	No	No	Yes	No	Yes	No	No	No	No	No
	Nyangena Sub District Hospital	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Getare Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Tombe Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kiangoso Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes
	Magombo Community Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Ikobe Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Nyakegogi Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Bogwendo Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Gatuta Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Gesure Health Centre	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Amaiga Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
	Gekano Mission Hospital	No	Yes	No	No	No	No	Yes	No	No	No	No	No
	Sirate Dispensary	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes
	Kianungu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
Nyamira North	Nyamusi Sub District Hospital	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
	Ekerenyo Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Magwagwa Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Etono Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Kenyoro Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Esianyi Dispensary	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
	Kerobo Health Centre	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Rianyambweke Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Orwaki Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Nyabweri Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Riecheri Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kiamanyomba Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Kemunchugu Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kiomara Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Chaina Dispensary	Yes	No	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
Masaba North	Esani Sub District Hospital	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Gesima Sub County Hospital	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Masaba District Hospital	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Magombo Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Girango Dispensary	Yes	No	No	No	Yes	No	No	No	Yes	No	No	No
	Mochenwa Health Centre	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Mong'oni Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Nyagancha Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Rigoma Dispensary	Yes	No	Yes	Yes	No	Yes	No	No	Yes	No	No	Yes
	Kambini Dispensary	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Geteni Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	No
	Compliant	80	22	74	61	43	41	5	3	78	73	46	44
	Non-Compliant	7	65	13	26	44	46	82	84	9	14	41	43

KEY/Details

D1	Does the facility have a waste management plan?
D2	Was there a budget for the disposal of Covid-19 Waste?
D3	Was there pharmaceutical waste separated from the sharp waste and other healthcare wastes and the different wastes securely packaged in plastic bags or rigid containers which are clearly labeled?
D4	Was there pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical? (Applicable to facilities with large volumes of daily waste, that do not transport/dispose daily)

D5	Is the public health officer involved in the disposal of Covid-19 Waste? (Storage, Transportation and Supervision of Disposal)
D6	Does the Facility Transport Pharmaceutical Waste? (For facilities that do not have a NEMA approved Waste Disposal Site. These sites have an incinerator. N/B: A burning chamber is not an incinerator)
D7	Was there pharmaceutical waste is transported to a NEMA approved Waste Disposal Site. (Facility should have a copy for the approval of the site/incinerator and a separate documentation regarding approval for the transportation)
D8	Was there a pharmaceutical waste transported from one county to another had clearance from NEMA
D9	Does the facility have an incinerator, burning chamber or burning pit?
D10	Was the method used to dispose of sharp waste (syringes and needles) by the Healthcare facility and whether complying with the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply (Treatment should be by Incineration, Sharps are to be incinerated while other waste is to be burnt in a burning chamber)
D11	Did the quantity and the method used in the disposal of any vaccine vials (both wasted and expired) by the Healthcare facility comply with the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply? (requirement is Treatment by disinfection with solution, encapsulation, autoclaving or inertization)
D12	Were the disposed vaccine vials recorded and accounted for in the vaccine inventory report?

Appendix 9: HR at Sub County Level – Nyamira County

Sub County	HR1	HR2	HR3	HR4	HR5	HR6	HR7
Nyamira South Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Manga Subcounty	Yes	Yes	Yes	Yes	No	Yes	Yes
Nyamira North Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Borabu Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Masaba North Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Compliant	5	5	5	5	4	1	5
Non-Compliant	0	0	0	0	1	4	0

KEY/DETAILS:

HR1	Was the county represented in National training for ToTs? If ☒ indicate in the remarks column number of people involved
HR2	Were the Sub County health management team trained on Covid-19immunization?
HR3	Was the training well spread to all cadres supposed to be trained? Establish the composition of the Sub County health management team trained and what was covered in the training
HR4	Was there a training plan and were the trainings done as per training plan?
HR5	Was there a specific training budget for covid -19 immunization?
HR6	Does comparison of Expenditure with actual expenditure for training on Covid-19vaccination give rise to a variance?
HR7	Did you Obtain details of staff at national/county/Sub County/facility for the following Categories indicating their designation, attendance dates, Financier, etc.?

Appendix 10: HR at Facility Level – Nyamira County

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
Nyamira South Subcounty	Nyamaiya Health Centre Facility	Yes	Yes	Yes	Yes	Yes	Yes
	Kinara Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamira County Referral Hospital (MCH)	Yes	No	Yes	Yes	Yes	Yes
	Tingá Health Center	Yes	Yes	Yes	Yes	Yes	Yes
	Oasis Maternity and Nursing Home	No	Yes	Yes	Yes	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangweta Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Bosiango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Kenyambi Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Mongorisi Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Riongige Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Kenya	No	Yes	Yes	Yes	Yes	Yes
	Kenyerere Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Igena Itambe Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Ramba Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Riakinaro Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamwetuereko Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Motagara Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Nyakeore Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Nyansangio Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Embonga Health Centre	No	No	Yes	Yes	Yes	No
Manga Subcounty	Manga District Hospital	Yes	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Holsoms Nursing Home	No	Yes	Yes	Yes	Yes	Yes
	Nyangena Sub District Hospital (Manga)	No	Yes	Yes	Yes	Yes	Yes
	Getare Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Tombe Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Kiangoso Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Magombo Dispensary	✓	Yes	Yes	Yes	Yes	Yes
	Ikobe Health Centre (Manga)	No	Yes	Yes	Yes	Yes	Yes
	Nyakegogi Dispensary	✓	Yes	Yes	Yes	Yes	Yes
	Bogwendo Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Gatuta Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Gesure Health Centre	✓	Yes	Yes	Yes	Yes	Yes
	Amaiga Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Gekano Mission Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Sirate Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kianungu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
Nyamira North Sub-County	Nyamusi Sub-District Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Ekerenyo Sub-District Hospital	No	Yes	Yes	Yes	Yes	Yes
	Magwagwa Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Etono Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Kenyo Health Centre	No	Yes	Yes	Yes	No	Yes
	Esianyi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kerobo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Rianyambweke Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Orwaki Dispensary	No	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Nyabweri Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Riechieri Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Kiamanyomba Dispensary	No	Yes	Yes	Yes	No	Yes
	Kemunchugu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kiomara Dispensary	Yes	No	Yes	Yes	Yes	No
	Chaina Dispensary	No	Yes	Yes	Yes	Yes	Yes
Masaba North Sub-County	Esani Sub-District Hospital	No	Yes	Yes	Yes	Yes	Yes
	Gesima Sub-County Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Masaba District Hospital	No	Yes	Yes	Yes	Yes	Yes
	Magombo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Girango Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Mochenwa Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Mong'oni Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Nyagancha Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Rigoma Dispensary	Yes	No	Yes	Yes	Yes	No
	Kambini Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	No	Yes	Yes	Yes	No
	Geteni Dispensary	No	Yes	Yes	Yes	Yes	Yes
Borabu Subcounty	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Mokomoni Health centre	No	No	Yes	Yes	Yes	No
	Amatierio Health Centre	No	No	Yes	Yes	Yes	No
	Kineni Dispensary	Yes	No	Yes	Yes	Yes	No
	Endiba Health Centre	No	No	Yes	Yes	Yes	No

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Isoge health center	Yes	Yes	Yes	Yes	Yes	Yes
	Kerumbe Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Riontonyi Dispensary	Yes	Yes	No	Yes	Yes	Yes
	Nyandoche Ihere Dispensary	Yes	Yes	Yes	Yes	Yes	No
	St Josephs Nyansiongo Hospital	Yes	Yes	No	Yes	Yes	Yes
	Mwongori Dispensary	No	No	Yes	Yes	Yes	No
	Nyagacho Dispensary	No	No	Yes	Yes	No	No
	Eturungi Dispensary	No	No	Yes	Yes	Yes	No
	Tindereti Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kahawa Dispensary	No	No	Yes	Yes	No	No
	Raitigo Dispensary	Yes	No	Yes	Yes	Yes	No
	Ensakia Dispensary	No	No	Yes	Yes	No	No
	Chepngombe Dispensary	No	No	Yes	Yes	Yes	No
	Mecheo Dispensary	No	No	Yes	Yes	No	No
	Nyaronde dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Compliant	47	70	85	87	81	66
	Non-Compliant	40	17	2	0	6	21

KEY/DETAILS:

HR1	Did the facility have adequate staff to carry out the Covid-19vaccination (See guide from 5.1 below)
HR2	Did these staff have separation of roles and if not was the staff trained to handle other roles? (See guide from 5.1 below)
HR3	Were health Care Workers (HCW) trained before commencement of Covid-19Vaccination at the facility? (HCW should be trained before being issued with vaccines. Compare date of training with the date the first dose of vaccine were received)
HR4	Were the health care workers trained on vaccine administration (i.e. what was covered in the training)?
HR5	Have you obtained the details of the facility's staff(involved in Covid-19vaccination) as follows
HR6	Has any staff of the facility been used in training other staff? I.e. CHV with Job Description of Trained on Mobilization, Awareness creation

Appendix 11: Coordination of Players at County Level – Nyamira County

County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Nyamira County	Yes			Yes	Yes	Yes	Yes	Yes	Yes
Compliant	1	1	1	1	1	1	1	1	1
Non-Compliant	0	0	0	0	0	0	0	0	0

KEY/Details:

CP1	Was a coordination taskforce/committee at the county and Sub County formed?
CP2	Did the task force /committee have terms of reference?
CP3	Were the tors executed?
CP4	Did the county receive any directives/advisory/instruction from the national government in relation to Covid-19vaccination?
CP5	Did the county/Sub County taskforce communicate to the National Task force?
CP6	Did the committee/task force keep minutes of their meetings?
CP7	Did the county/Sub County carry out any advocacy?
CP8	Did the county/Sub County carried out mobilization?
CP9	Did the county/Sub County carry out any outreaches?

Appendix 12: Coordination of Players at Sub County Level – Nyamira County

Sub County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Nyamira South	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nyamira North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Masaba North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Borabu	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Manga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	5	5	5	5	5	5	5	5	5
Non-Compliant	0	0	0	0	0	0	0	0	0

KEY/DETAILS:

CP1	Was a coordination taskforce/committee at the county and Sub County formed?
CP2	Did the task force /committee have terms of reference?
CP3	Were the tors executed?
CP4	Did the county receive any directives/advisory/instruction from the national government in relation to Covid-19vaccination?
CP5	Did the county/Sub County taskforce communicate to the National Task force?
CP6	Did the committee/task force keep minutes of their meetings?
CP7	Did the county/Sub County carry out any advocacy?
CP8	Did the county/Sub County carried out mobilization?
CP9	Did the county/Sub County carry out any outreaches?

Appendix 13: Coordination of Players at Facility Level – Nyamira County

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
Nyamira South	Motagara Health Centre	Yes	Yes	Yes	No	No
	Nyakeore Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyamira County Referral Hospital	Yes	Yes	Yes	Yes	Yes
	Oasis Maternity and Nursing Home	Yes	Yes	Yes	Yes	Yes
	Kinara Hospital	Yes	Yes	Yes	Yes	Yes
	Bosiango Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenyambi Health Centre	Yes	Yes	Yes	Yes	Yes
	Nyangweta Health Centre	Yes	Yes	Yes	Yes	Yes
	Igena Itambe Health Centre	Yes	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	Yes
	Mongorisi Health Centre	Yes	Yes	Yes	Yes	Yes
	Tinga Health Centre	Yes	Yes	Yes	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	Yes
	Nyamaiya Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenyerere Health Centre	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Riakinaro Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenyenya Health Centre	Yes	Yes	Yes	Yes	Yes
	Embonga Health Centre	Yes	Yes	Yes	No	No
	Ramba Health Centre	Yes	Yes	Yes	Yes	Yes
	Nyansangio Dispensary	Yes	Yes	Yes	Yes	Yes
	Riongige Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyamwitureko Dispensary	Yes	Yes	Yes	Yes	Yes
Borabu	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	Yes
	Mokomoni Health Centre	Yes	Yes	Yes	Yes	Yes
	Amatierio Health Centre	Yes	Yes	Yes	Yes	Yes
	Kineni Dispensary	Yes	Yes	Yes	Yes	Yes
	Endiba Health Centre	Yes	Yes	Yes	Yes	Yes
	Isoge Health Centre	Yes	Yes	Yes	Yes	Yes
	Kerumbe Dispensary	Yes	Yes	Yes	Yes	Yes
	Riontonyi Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyandoche Ibere Dispensary	Yes	Yes	Yes	Yes	Yes
	St Josephs Nyansiongong Hospital	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Mwongori Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyagacho Dispensary	Yes	Yes	Yes	Yes	Yes
	Eturungi Dispensary	Yes	Yes	Yes	Yes	Yes
	Tindereti Dispensary	Yes	Yes	Yes	Yes	Yes
	Kahawa Dispensary	Yes	Yes	Yes	Yes	Yes
	Raitigo Dispensary	Yes	Yes	Yes	Yes	Yes
	Ensakia Dispensary	Yes	Yes	Yes	Yes	Yes
	Chepengombe Dispensary	Yes	Yes	Yes	Yes	Yes
	Mecheo Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyaronde Dispensary	Yes	Yes	Yes	Yes	Yes
Manga	Manga District Hospital	Yes	Yes	Yes	Yes	Yes
	Holsoms Nursing Home	Yes	Yes	Yes	Yes	Yes
	Nyangena Sub District Hospital	Yes	Yes	Yes	Yes	Yes
	Getare Health Centre	Yes	Yes	Yes	Yes	Yes
	Tombe Health Centre	Yes	Yes	Yes	Yes	Yes
	Kiangoso Health Centre	Yes	Yes	Yes	Yes	Yes
	Magombo Community Dispensary	Yes	Yes	Yes	Yes	Yes

**SPECIAL AUDIT REPORT OF THE AUDITOR-GENERAL
ON
COVID 19 VACCINE ROLL OUT
FOR
NYAMIRA COUNTY
AS AT 31 MARCH 2022**



PAPERS LAID	
DATE	11 TH OCT 2022
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COMMITTEE	—
CLERK AT THE TABLE	M. ADI BODDU

June 2022

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LIST OF ABBREVIATIONS

The following abbreviations are used in this Report

Abbreviation	Full Description
CEPI	County Expanded Programme on Immunization
CHAI	Clinton Health Access Initiative
CHV	Community Health Volunteer
eLMIS	Electronic Logistics Management Information System
FIFO	First In, First Out
GOK	Government of Kenya
HR	Human Resource
SCEPI	Sub County Expanded Programme on Immunization
ULT	Ultra-Low Temperatures
WHO	World Health Organization

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1.0 EXECUTIVE SUMMARY

1.1 Background and introduction

The Auditor-General carried out a Special Audit on the efficiency and effectiveness of Covid-19 vaccines roll-out in Kenya. The Audit covered the period from inception of the vaccination exercise in March 2021 to 31 March, 2022. The primary objective of the audit was to determine the efficiency and effectiveness of the Covid-19 vaccines rollout in the Forty-Seven (47) Counties. This report however, specifically covers the portion of the audit performed for the Covid-19 vaccines rollout in Nyamira County. The audit involved review of budget, sources of the vaccines, storage, distribution, utilization and disposal of the vaccines, human resource financing, coordination of players, monitoring and supervision.

The Government of Kenya commissioned use of the Chanjo System to manage the Covid-19 vaccines rollout and utilized existing immunization structures for other routine vaccines.

1.2 Audit Scope, Limitations and Mitigation

The audit reviewed all processes relating to Covid-19 vaccines immunization which included budgeting, administration, and disposal of the expired stocks, governance, and monitoring structures.

Challenges experienced during the audit included low levels of staff proficiency in usage of the Chanjo System. It was also not clear to the staff which record was primary for the vaccination between the Chanjo System and manual records. The inadequacy and completeness of vaccine inventory records was also not assured. The Audit Team put in place several measures to mitigate the challenges including expanding the scope to near 100% coverage of the vaccinating facilities in the County.

1.3 Audit Approach and Methodology

The Audit exercise entailed planning, piloting of the vaccine roll-out audit in one of the counties before rolling out to the rest of the 47 Counties. Meetings were held with the auditee and the audit teams collected evidence through interviews, document reviews,

data analytics, analysis of audit evidence among others. The audit was performed using International Standards of Supreme Audit Institutions (ISSAIs).

1.4 Report Summary

1.4.1 Doses received and administered

Nyamira County received 308,000 doses of various types of vaccines during the period under review. Out of the total Covid-19 vaccine doses received in the County, 238,401 doses were administered while 7,673 vaccine doses were still in stock as at the time of the audit cutoff date on 31 March, 2022. The balance of 61,926 vaccine doses comprised of expired, damaged, wasted and unexplained deficit of 53,172 doses as at 31 March, 2022.

1.4.2 Budget

A review of the Nyamira County health services budget for the 2021/2022 financial year revealed that the County did not budget for the Covid-19 vaccination activities but instead used the budget for routine immunization to cater for the rollout exercise.

1.4.3 Sources and Distribution of Vaccines

The source of vaccines to the County was from the Government of Kenya (GOK) through the Kisumu Regional Store.

The distribution flow was from Regional Store to the Sub County stores and to the facilities which administered the vaccines.

1.4.4 Storage of Vaccines

The Nyamira County and Sub County Stores complied to some extent with the storage conditions set out by MOH for Covid-19 Vaccines. However, weaknesses were noted in the storage at the facilities including inadequate storage equipment and temperature monitoring tools.

1.4.5 Disposal of Vaccines

The Special Audit noted that a total of 8,754 vaccine doses had expired, were damaged or had gone to waste. Out of 8,754 vaccine doses 5,184 had been disposed with other

hospital waste while the balance of 3,570 vaccine doses were kept at the County Store awaiting return to the Regional Store.

1.4.6 Human Resource Matters

The financing for health care personnel was to be funded by the Government of Kenya, Donors and development partners. Nyamira County Management explained that their trainings were undertaken through the assistance of the development partners. However, there were no proper records or documentation maintained of actual trainings that took place.

1.4.7 Coordination of players

The coordination of the exercise was done by the Nyamira County Covid-19 Vaccine Deployment and Vaccination Taskforce. This was well done especially on mobilization and vaccination outreaches.

1.4.8 Monitoring and Supervision

The Audit established that Covid-19 Vaccines roll out was monitored and supervised by a committee to ensure smooth implementation of policies and guidelines issued from time to time by the National Government. However, some facilities had no computer tablets or they were not functional, airtime was not provided and adverse effects booklets were not supplied in some facilities.

1.4.9 Conclusions and Recommendation.

The audit concluded that the roll-out of the Covid-19 Vaccines was effective. However, weaknesses were noted in some of the processes including failure to budget for the rollout activities, practical adherence to waste disposal regulations, inadequate staff and training at the facilities, inadequate access to the Chanjo System due to lack of data bundles to the staff updating information in the system and the system having challenges in the way it is configured and downtime. This impacted on the real time recording of information in the Chanjo System and resulted to an unexplained deficit variance of 53,172 doses valued at Kshs 29,059,638 based on the average vaccine cost during the period.

The existing immunization structures for routine vaccines were functional but require scale up to handle unforeseen pandemics. Owing to the weaknesses noted it is recommended that the Nyamira County Government should work closely with National Government to strengthen the existing immunization structures and staffing to meet international standards.

2.0 BACKGROUND AND INTRODUCTION

Kenya received its first consignment of Oxford/AstraZeneca Covid-19 vaccine in March 2021 as part of the COVAX facility. This was followed by more vaccines of Moderna, Johnson & Johnson (Janssen), Pfizer and Sinopharm from other development partners. The Ministry of Health (MOH) launched a campaign and kicked off the deployment plan for the Covid-19 vaccines roll out on 5 March 2021 with priority being given to frontline health workers and essential staff including security personnel. According to the National Covid-19 vaccine deployment plan, the first vaccine plan was developed in March 2021, and was subsequently revised by the MOH in August 2021 in an effort to cover the entire adult population in the country.

Nyamira County received its first consignment of 3,000 Astra Zeneca-Oxford Covid-19 vaccines in March 2021, through the Kisumu Regional Vaccines Store. The vaccine doses were first administered at Nyamira County Referral Hospital before being rolled out to the facilities in the Five (5) Sub Counties. As of 31 March 2022, the special Audit Team established that the County had received 308,000 vaccines doses as tabulated below:

Type of Vaccine	Number of Doses
Moderna	29,680
Janssen (Ad26.COV2_S)	49,950
Oxford/AstraZeneca	141,790
Pfizer	86,580
Total	308,000

2.1 Objective of the Audit

The primary objective of the audit was to determine the efficiency and effectiveness of the Covid-19 vaccines rollout in Nyamira County. This was achieved through; review of budget,

sources of the vaccines, storage, distribution, utilization and disposal of the vaccines, human resource, and coordination of players, monitoring and supervision.

2.2 Terms of Reference

The following Terms of Reference (TORs) guided the special audit;

Table 1: Terms of Reference

TOR	Detailed Procedures
1. Budget	• How much was set aside for vaccines and related activities and how the figures were arrived at • Budget approval process • Allocation of the funds i.e. specific budget items • Source of funds i.e. GOK and Donors
2. Sources of Vaccines	• GOK Procured vaccines, development partners donations and COVAX • Procurement process for GOK procured vaccines • Local and international approval of vaccines and syringes • Types and quantities of the vaccines from the different sources; and the vaccine shelf life and prices where applicable • Consider whether vaccines came with syringes or not and the effect • Vaccine Batch Numbers • Storage of defective vaccines/ expired • Recording of vaccines • Government clearance process for vaccines sourced from outside the country • WHO rating of effectiveness of various vaccines. • Cost vs budget
3. Storage of Vaccines	• Manufacturer's requirements for storage of vaccines • Local storage capacity • Local storage conditions • Handling requirements • Transportation requirements • Recording including batch numbers • Stocking levels, process of issuing of vaccines as well as duration • Recording and accountability • Duration in store • Storage of defective vaccine and Syringes • Cost Vs Budget
4. Distribution	• How vaccines were distributed; logistics

TOR	Detailed Procedures
	• Quantities of vaccines distributed • Proportion of vaccines distributed per region • Basis of quantities and proportions distributed e.g. population • Storage issues • Recording and accountability • Cost vs budget
5. Utilization	• Awareness creation • Intended/ target population • Uptake per vaccine type • Rate of transition from first to second dose • Possibility of delayed administration of second dose • Matters relating to booster doses • Expired vaccines • Recording and accountability for vaccines received, utilized in stock and expired • Cost vs budget
6. Disposal	• Number of vaccines disposed • Criteria for disposal • Recording and accountability for the disposal • Reports and feedback • Reconciliation of what was procured, utilized, unused and disposals • Costs vs budgets
7. Human Resource Matters (National and County Staff)	• Number of persons involved • Roles and responsibilities • Expertise (capacity/skills) • Duplication of roles if any • Selection and appointment criteria • Training Plans and Roll Out • Costs vs budgets
8. Coordination of players	• Who are the key players? • Are the roles and responsibilities of the players clear? • Is there a framework for coordination and communication by the players? • Approval and appointment of taskforce and committees • Costs vs budgets
9. Monitoring and supervision	• Is there a framework for monitoring and supervision of players? • Approval and appointment of taskforce and committees • Costs vs budgets

2.3 Scope of the Audit and Limitations

2.3.1 Scope

The audit reviewed all processes from the inception of Covid-19 vaccines roll out, through budgeting to administration and disposal including the governance and monitoring structures. The period covered was from inception in March 2021 to 31 March, 2022.

2.3.2 Limitations

The special audit experienced challenges and limitations which were mitigated in several ways in order not to negatively affect the quality and results of the audit findings. Some of the challenges and measures taken included:

- i. 17 out of 87 vaccinating facilities in Nyamira County were not defined in the Chanjo Kenya System; This called for 100% coverage physical verification of records, stocks and visits to all facilities.
- ii. It was not clear to the staff which system was the primary record for the vaccination between the Chanjo System and the manual records; This also called for examining both records to establish gaps and reconcile the two.
- iii. Accuracy and completeness of inventory records. The Audit Team corroborated information in the physical records such as order sheets and vaccines stock ledgers with information in the Chanjo System. The Audit Team had to also use the data from the forms used for vaccines receipts, utilization and balances at the individual facility while reconciling it with the Chanjo System.
- iv. Challenges in identifying errors in the system, such as reversals done long after the original error entry was made. Engaged the help of the stores in-charge and manual records in trying to establish the errors and reconcile them to the Chanjo System data.
- v. Facilities sharing user rights without proper linkages being defined. The audit team was guided by the stores in-charge and tracked vaccines to sources.

The Audit Team had to also use the data from the forms used for vaccine receipts, utilization and balances at the individual facilities while reconciling them with the Chanjo System.

2.4 Audit Approach and Methodology

The Special Audit Team held entry and exit meetings with the County Health Management team on 9 May, 2022 and 2 June 2022, respectively. The Audit Team held planning meeting before the commencement of the exercise. During the entry meeting, the management were taken through the detailed plan and which the meeting adopted and was applied in the execution of the audit. The following were the main evidence gathering methods applied during the audit execution:

2.4.1 Document Review

To effectively plan for the audit and as a source of audit evidence, the Audit Team reviewed various documents including the vaccine order sheets, vaccine stock ledgers, various training reports, outreaches, co-ordination activities and seizure/destruction forms.

2.4.2 Analytical Review

The Audit Team extracted the vaccine data from the Chanjo System and carried out comparative analysis with records at the Regional Stores and vaccinating facilities.

2.4.3 Physical Verification

The Audit Team carried out physical verifications in the five (5) Sub County stores and the 87 vaccinating facilities in the County as detailed in **Appendix 1**.

2.4.4 Interviews

The Audit Team interviewed senior officers from Nyamira County Government to clarify the various issues to assist in making an informed report as detailed in **Table 2** below.

Table 2: Interviews

	Name	Organization	Designation
1.	Dr Geoffrey Nyabuti	Nyamira County	Ag. Director of Health
2.	Irene Bosire	Nyamira County	Head of County Vaccine and Immunization Programme
3.	Mr. Nebert Kigwa	Nyamira County	Accountant
4.	Mr. Peterson Ombati	Nyamira County	County Health Records Information Officer
5.	Gladys Momanyi	Nyamira County	In-Charge CEPI Store

2.5 Audit Phases

The audit was divided into Two Phases; Phase One involved review of processes at The National Treasury, Office of the Controller of Budget and the Ministry of Health. It also involved analysis of data maintained in eMIS, Chanjo System and Kenya Health Information System. The information was then shared with the Audit Teams to inform the next audit phase.

Phase two involved review of processes, data and verifications at Nyamira County Store, Sub County Stores and the vaccinating facilities in the County. This Phase also involved verification and interview of staff.

2.6 Report Structure

This report is presented in the following format:

- i. Executive Summary,
- ii. Background and Introduction,
- iii. Detailed Findings,
- iv. Irregularities and weaknesses in management and controls of Vaccines in Institutions,
- v. Conclusion and Recommendations, and
- vi. Appendices.

The report should be read in its entirety in order to comprehend fully the approach to and findings of our work. The report has covered analysis and facts as understood with the aim of informing The National Treasury and the Ministry of Health of the status of the Vaccines Roll Out in the County bearing in mind the challenges and limitations experienced.

Table 5: Storage at the County and Sub County Stores

Observations/Findings	Number of Compliant Sub- County Stores	Number of Non-Compliant Sub- County Stores
Cold Chain and Supply Logistics		
Store has sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	5	0
Store has sufficient space for orderly receipt, warehousing, and dispatch of vaccines including a quarantine area for isolation when necessary, isolation of faulty packs and recalled goods. The vaccines and areas concerned were appropriately identified.	5	0
Broken or damaged items are withdrawn from usable stock and stored separately		0
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	5	0
All Covid-19 vaccines stored off the floor	5	0
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	5	0
The vaccines issued on a FIFO method and guided by the expiry date	5	0
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	5	0
General Storage Areas		
There were secure measures to ensure that rejected vaccines cannot be used. Rejected vaccines are stored separately from other products while awaiting destruction or return to the supplier	5	0
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	5	0

Observations/Findings	Number of Compliant Sub-County Stores	Number of Non-Compliant Sub-County Stores
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	0	5
There was a written procedure and a program for pest control. The pest control agents used did not pose any risk of contaminating the vaccines. There was a site flow plan indicating where the bait stations are situated.	0	5
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	5	0
The Covid-19 vaccines were stored in such a way as to prevent contamination or cross-contamination.	5	0
Storage Conditions		
The storage conditions were compatible with the storage conditions specified on their labels. (Storage facilities protected goods from deterioration.)	5	0
The warehouse was maintained at a temperature not exceeding 30 °C, and relative humidity not exceeding 75% Relative humidity (WHO zone IVb requirements) at all times.	5	0
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	5	0
There were continuous temperature monitoring devices. In addition, there were written procedures describing the action in case of temperature deviating outside of the set standards and conditions.	5	0
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	5	0

3.0 DETAILED FINDINGS

3.1 Budget and Sources of Vaccines

3.1.1 Unconfirmed Funding of Covid-19 Vaccination Activities

A review of the County's health services budget for the financial year 2021/2022 revealed that the County did not budget for the Covid-19 vaccination activities. Covid-19 vaccination costs, including transportation, training and capacity building and procurement of auxiliary services such as syringes and safety boxes, could not, therefore, be traced to a specific budget, an indication that they were not budgeted for. This was contrary to Regulations 29. (1) of the Public Finance Management (County Governments) Regulations, 2015 which require the accounting officer to ensure draft estimates relating to her or his department are prepared in conformity with the Constitution, the Act and these Regulations. Management however, explained that the expenditures were met by the National Government and Donor Partners, but this was not fully supported by documentary evidence such as agreements with the Partners.

3.2 Sources of Vaccines

The County received 308,000 vaccines between March 2021 and 31 March 2022 from the National Government. A review of the County's Health Services Budget for the 2021/2022 financial year revealed that there were no provisions for the Covid-19 vaccine roll out. Further, the Special Audit revealed anomalies in budgeting and Expenditure of Covid-19 as summarized in **Table 3** below and detailed in **Appendix 2**:

Table 3: Weaknesses in Budgeting and Expenditure for Covid-19

Observation/Findings	Number of Compliant Sub Counties	Number of Non-Compliant Sub Counties
Failure to budget for associated Covid-19 vaccination costs, including transportation, training and procurement of auxiliary services such as syringes and safety boxes.	0	6
Lack of budgetary support for Covid-19 from donors/National government	6	0
Failure to spent budgetary support on Covid-19 vaccination.	6	0

Observation/Findings	Number of Compliant Sub Counties	Number of Non-Compliant Sub Counties
Failure by the Sub County/Facility to finance Distribution of Vaccines, Outreaches, Trainings costs related to Covid- 19 vaccination;	0	6

3.3 Storage of Vaccines

According to World Health Organization (WHO) Guidelines (Covid-19 vaccination: supply and logistics guidance, 12 February 2021) the Covid-19 vaccines should be stored as follows:

- i. Pfizer should be maintained at -80 °C to -60 °C in Ultra Low Temperatures (ULT) freezer, and for Undiluted thawed vaccine at +2 °C to +8 °C
- ii. Moderna should be maintained at -25 °C to -15 °C in ULT freezer, and unopened vials can be stored refrigerated between 2 °C to 8 °C for up to 30 days prior to first use.
- iii. Oxford/AstraZeneca should be maintained at 2 °C to 8 °C
- iv. Further, Centre for Disease Control (CDC) clinical guidance for Janssen Covid-19 Vaccine recommend storing of the vaccine at temperatures between 2°C and 8°C.

The storage conditions applied to the Regional, Sub- County and Facility Stores. However, visits to the stores revealed that the five Sub County stores did not have cleaning logs that must be completed, signed, and checked by the appropriately designated person and a written procedure and a program for pest control. The Audit also established that 44 facilities did not adhere to the broken or damaged items guideline which requires the items to be withdrawn from usable stock and stored separately.

3.3.1 Storage at the County and Sub- Counties Stores

A review of documents provided for audit and physical verification carried out at the 5 Sub County stores revealed issues as summarized below in **Table 5** and detailed in **Appendix 3**.

From the foregoing, the special audit team confirmed that except for the lack of completed logs, written procedure and program for pest control, the County stores and the five Sub County Stores complied with storage conditions as per the WHO and Covid-19 vaccines manufacturer's storage recommendations.

3.3.2 Storage at the Facilities Level

A review of documents provided for audit and physical verifications carried out at the 87 facilities revealed issues as summarized in **Table 6** below and detailed in **Appendix 4**.

Table 4: Storage at the Facilities Level

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
Store has sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	87	0
Broken or damaged items are withdrawn from usable stock and stored separately	43	44
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	87	0
All Covid-19 vaccines stored off the floor	82	5
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	82	5
The vaccines issued on a FIFO method and guided by the expiry date	82	5
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	82	5
General Storage Areas		
There were Secure measures to ensure that rejected vaccines cannot be used. Rejected vaccines are stored separately from other products while awaiting destruction or return to the supplier	82	5
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	68	19
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	68	19
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	77	10

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
Storage Conditions		
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	85	2
There were continuous temperature monitoring devices. In addition, there were written procedures describing the action in case of temperature deviating outside of the set standards and conditions.	85	2
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	87	0

In view of the above, the Special Audit Team confirmed that a significant number of the vaccinating facilities did not separate store broken or damaged items from the usable stock. Additionally, they did not have written procedures on sanitation, pest control and clean-up of spillage. They also failed to maintain the cleaning logs.

3.3 Distribution of Vaccines

3.3.1 Distribution at County Level

Documents provided for audit revealed that Covid-19 Vaccines on arriving in the Country ideally should be transferred to the Central Stores where they are distributed to the Regional Stores. The Regional Stores then distribute to the County Stores, which in turn distribute to Sub County Stores and Sub County to Facilities. This was largely adhered to in Nyamira County except where facilities were not defined in the Chanjo System which received their vaccines through other defined facilities.

The 308,000 vaccines received in Nyamira County as at 31 March, 2022 were distributed as summarized in **Table 7** below and detailed in **Appendix 5**.

Table 5: Distribution at County Level

Vaccine Type	Distributed to County Stores	Distributed to Sub-County Stores	Distributed to Facilities	Variance between Sub-County and Facilities Distribution	Explanation for the Variance
Moderna	N/A	29,680	29,818	(138)	Failure to update records properly
Janssen (Ad26.COv2-S)		49,950	49,819	141	
Oxford/AstraZeneca		141,790	134,448	7,342	
Pfizer		86,580	84,730	1,830	
Total		308,000	298,835	9,864	

The Sub County EPI Store Coordinator indicated that vaccines that remained undistributed at the County Store were for Nyamira South Sub County, hence the conclusion that all the vaccines received at the County were distributed to Sub Counties.

According to the National Policy Guidelines on Immunization, 2013, storage and transportation of vaccines and diluents, at all stages of vaccine transportation, a cold chain monitor must always accompany all vaccines whether in cold boxes, vaccine carriers or portable fridges and the temperature reading must be maintained between +2°C and +8°C including age of conditioned ice packs. Diluents need not be transported at +2°C to +8°C unless they are being transported for outreach activities.

The special audit revealed that the 5 Sub County stores and the 87 vaccinating facilities monitored temperature during transportation of vaccines as per the guidelines.

3.4 Utilization of Vaccines

Ordinarily, Covid-19 vaccines flow through four levels before being administered; National Vaccine Store (NVS), Regional Vaccine Stores (RVS), Sub County Vaccine Stores (SCVs) and Health Facilities. Utilization of vaccines including Covid-19 vaccines takes place at a vaccinating facility.

Examination of records maintained in the Chanjo System revealed that as at 31 March, 2022, 308,000 vaccine doses had been received in the County.

Documents provided for audit revealed that there were 87 vaccinating facilities, with 70 facilities having been mapped in the Chanjo System.

Out of the total 308,000 Covid- 19 Vaccine doses received, 238,401 doses were administered, 7,673 were still in stock while the balance of 8,754 was either expired, damaged or had gone to waste as at 31 March, 2022 as summarized below in **Table 8** and detailed in **Appendix 6**. There was however an unexplained variance of 53,172 vaccine doses valued at Kshs.29,059,638.

Table 6: Utilization of Vaccines

Vaccine Type	Doses Received	Doses Administered	Doses In Stock	Doses Expired	Doses Damaged	Doses Wasted	Unexplained Variance Doses	Estimate Price per Dose (Kshs)	Total Amount (Kshs)
Janssen	49,950	35,139	7,395	0	100	498	6,818	753.02	5,134,090
Moderna	29,680	21,410	0	0	1	2060	6,209	505.05	3,135,855
Oxford/AstraZeneca	141,790	109,377	140	3570	32	1369	27,302	446.22	12,182,698
Pfizer	86,580	72,475	138	0	83	1041	12,843	670.17	8,606,993
Total	308,000	238,401	7,673	3,570	216	4,968	53,172		29,059,638

3.4.1 Administered Doses

The Chanjo System indicates that a total of 238,401 doses had been administered in the County Nyamira from 01 March, 2021 to 31 March, 2022. The vaccine doses administered are as summarised in **Table 9** below.

Table 7: Administered Doses

S/N	Vaccine Type	First Doses	Second doses	Booster Doses	Total
1	Janssen (Ad26.COVS-S)	35,129	1 ¹	9	35,139
2	Oxford/AstraZeneca	66,405	41,828	1,144	109,377
3	Pfizer	50,118	21,485	872	72,475
4	Moderna	12,891	8,437	82	21410
	Total	164,543	71,751	2,107	238,401

¹ Janssen second dose indicated as one (1) is an error in data input in the Chanjo System had not been corrected yet the vaccine is a single dose.

3.4.2 Expired Doses

These are doses that had not been administered by the manufacturers' use by date indicated on the vials totalling to 3,570 doses which had not been disposed off by the time of the special audit. Expired doses from the facilities were reported to have been sent to Sub County Stores which in turn transported them to the County Store.

3.4.3 Damaged Doses

These were vaccines that were not administered as they had been damaged. All the 216 damaged vaccine doses recorded by the County had been disposed-off by the time of the special audit in May 2022.

3.4.4 Wasted Doses

These were vaccines that were not administered due to failure to utilize them within stipulated timelines upon opening of the vial. 4,968 vaccine doses were reported as wasted in the County and had been disposed-off by the time of the special audit in May 2022.

3.4.5 Unexplained Vaccine Variances

Documents provided for audit revealed that 308,000 vaccine doses were received in the County. However, reconciliation of the vaccines received, administered, in stock, expired, damaged and wasted revealed an unexplained variance of 53,172 doses valued at Kshs.29,059,638.

The following weakness observed during the audit could have contributed to the unexplained variance:

- i. Wastages not reported at the facilities,

- ii. vaccines doses utilized during the outreaches or in facilities not defined in the Chanjo System may not have been subsequently updated,
- iii. Vaccination data was not entered accurately, causing over-administration in some batches and under-administration in others, and
- iv. Extended system downtime occasioning delay or failure to upload data.

3.5 Disposal of Vaccines

The Special Audit noted that a total of 3,570 expired doses had not been disposed-off as at the time of audit. However, 5,184 damaged and wasted doses had been disposed-off.

A review of documents provided for audit revealed non-compliance with the disposal requirements as per Section 6.1 of the WHO Standard Operating Procedures (SOP) on waste management of Covid-19 vaccines vials and ancillary supplies. The procedure states that any used or discarded Covid-19 vaccine vials **MUST** be collected safely and separately from the rest of the waste. Both the empty vials and those with remaining vaccine doses discarded at the end of the daily vaccination activity shall be collected and safely stored until they are collected for final treatment and disposal. These vials should be counted and recorded by the responsible team for the purpose of vaccination activity analysis (e.g. utilization, coverage, wastage, etc.). Further, Section 6.6 provides that neutralized Covid-19 vaccine vials can be safely disposed in a manner that is not accessible or reusable, and neither being an environmental nor a health threat. The findings on disposal of vaccines are as summarized below in Table 9 and detailed in **Appendices 7 & 8**.

Table 8: Disposal of Vaccines

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a developed waste management plan	4	1	7	80
Lack of budget for disposal of Covid-19 waste	0	5	22	65

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of NEMA clearance when transporting Covid-19 waste from one county to another or from one region to another for stores without a NEMA approved Waste Disposal Site.	N/A	N/A	N/A	N/A
Failure to record or to account for vaccine vials in the vaccine inventory report	0	5	44	43
Failure by the County/Store to fill any application form for disposal of pharmaceutical waste issued by the Pharmacy and Poisons Board in compliance with the Guidelines for safe management of pharmaceutical waste.	0	5	N/A	N/A
Failure to dispose in a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste	5	0	78	9
Disposal of pharmaceutical waste without supervision by a Pharmacy and Poisons Board inspector OR Public Health Officer in compliance with the Guidelines for safe management of pharmaceutical waste.	2	3	43	44
Disposing without a certificate of safe disposal of pharmaceutical waste in compliance with the Guidelines for secure management of pharmaceutical waste	N/A	N/A	0	87
Disposing pharmaceutical waste without separating from the sharp waste and other healthcare wastes and the different wastes not securely packaged in plastic bags or rigid containers which are clearly labelled as per the the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply	N/A	N/A	73	14

	Sub County Stores		Facilities	
Observation/Findings	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure to have a pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical	N/A	N/A	46	41
Lack of an incinerator, burning chamber or burning pit.	N/A	N/A	78	9

The disposal of the unused or discarded vaccines did not comply with the WHO Standard Operating Procedures (SOP) on waste management of Covid-19 vaccines vials and ancillary supplies because there was no budget and waste management plan in majority of the Sub-County stores and facilities. Consequently, the undisposed expired vaccines, the unused or discarded vaccines may pose a health risk to the general public and the health officers.

3.6 Human Resource Matters

Training at County Level

The health care workers were to be trained and were required to be competent on; knowledge on Covid-19 disease; knowledge and skills in Covid-19 Vaccine demand creation, health facility preparation, safe vaccine administration, infection control practices, patient data management, adverse event reporting and management, documentation and monitoring of vaccine utilization and logistics, communication, waste management, mental health and multi-disciplinary team work.

Immediately after the Covid-19 vaccines were rolled out, trainings for different levels of personnel in the National and County Governments were conducted. Nyamira County Health Management team indicated that trainings in all the five (5) Sub Counties were undertaken through the support of the National Government and Partners. However, other than the schedules and correspondences showing the donor funding, no partnership

agreements and documentation to support the National Government funding was provided for review.

The County and Sub Counties provided supporting documentation including the training plan, training timetable, venue, and the attendance lists.

A review of the documents provided for audit revealed anomalies as summarized below and detailed in **Appendices 9 and 10**

Table 9: Training at County Level

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
County and Sub- Counties were not represented in National training for ToT.	5	0	N/a	N/A
County and Sub- Counties health Management Teams not trained on Covid-19 immunization	5	0	N/a	N/A
Trainings not well spread to all necessary cadres	5	0	N/a	N/A
Lack of a training plan and trainings not done as per training plan	4	1	N/a	N/A
Lack of a specific training budget for Covid -19 immunization	5	0	N/a	N/A
Variance between budget and actual expenditure for training on Covid-19 vaccination.	0	5	N/a	N/A
Lack of details including designation, attendance dates, financier of staff at national/county/Sub County/facility	5	0	87	0
Lack of adequate staff to carry out the Covid-19 vaccination	N/a	N/A	49	38
Lack of separation of roles and duties	N/a	N/A	68	19
Lack of prior training on Covid – 19 including vaccine administration	N/a	N/A	85	02
Failure to use trained staff to train other staff	N/a	N/A	67	20

In the foregoing, the Special Audit Team could not establish the adequacy of Human Resources engagement in the Covid-19 vaccines roll out programme.

3.7 Coordination of players

Coordination at County Level

According to the National Covid-19 Vaccine Deployment Plan 2021, the County Emergency Covid-19 Response Committee were to be adopted to form the Steering Committee. A review of documents provided for audit at the County, Sub- Counties and Facilities revealed anomalies as summarized below and detailed in **Appendices 11, 12 and 13**

Table 10: Coordination at County Level

Observation/Findings	County	Sub County Stores		Facilities	
	Non-Compliance in County	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure to form coordination taskforce/committee	0	5	0	N/a	N/A
Task force /committee without terms of reference (TOR)	0	5	0	N/a	N/A
Failure to comply with the TORS	0	5	0	N/a	N/A
Lack of directives/advisory/instruction from higher levels in the Covid – 19 Vaccine management	0	5	0	87	0
Lack of upward/downward communication in Covid – 19 Vaccine Roll out	0	5	0	87	0
Lack of committee meetings	0	5	0	N/a	N/A
Failure to carry out advocacy	0	5	0	87	0
Failure to carry out mobilization	0	5	0	85	2
Failure to carry out mobilization outreaches	0	5	0	85	2

From the foregoing, only two facilities failed to carry out mobilization and outreaches which may not have adversely affected the vaccination exercise.

3.8 Monitoring and Supervision

Monitoring and Supervision at the County and Facilities Level

A review of documents provided for audit at the various levels of Covid-19 management revealed anomalies as summarized in Table 12 below and detailed in **Appendices 14, 15 and 16**

Table 11: Monitoring and Supervision at the County and Facilities Level

Observation/Findings	County		Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a designated officer as an in charge for monitoring Covid-19 vaccine roll out.	1	0	5	0	87	0
Lack tablets from the Ministry	1	0	5	0	75	12
Tablet not in good working conditions	1	0	5	0	59	18
Personnel involved in the rollout not facilitated with airtime	1	0	5	0	87	0
Lack of mechanism/measures where patients could report adverse effect after vaccination.	1	0	5	0	87	0
Lack of Adverse effect booklet etc. that are required to report adverse effects	1	0	5	0	82	5
Failure to monitor temperature during transportation of vaccines	1	0	5	0	87	0
Failure to record temperature every morning and evening in the temperature monitoring chart/tool	1	0	5	0	87	0
Failure to monitor for the expiry of the vaccines	1	0	5	0	87	0
Failure to monitor the Pfizer and Moderna vaccines for the 30 days expiry period after thawing	1	0	5	0	87	0

In view of the above, of the 87 facilities, 75 facilities had received tablets from the MOH for use in the recording of vaccine receipts and administration. 59 of the 75 facilities that had received the tablets, reported their tablets being functional and in use while 18 were not in good working condition. Further, 5 facilities did not have adverse effects booklets for reporting the adverse occurrences.

Consequently, the facilities were not fully supported to record the receipts and administration of vaccines and monitor adverse effects.

4.0 IRREGULARITIES AND WEAKNESSES IN MANAGEMENT AND CONTROLS OF VACCINES IN INSTITUTIONS

4.1 Irregularities and Weaknesses at the County and Sub County Level

The following irregularities and weaknesses and the corresponding recommendations were observed by the special audit at the Nyamira County and Sub County levels

Table 12: Irregularities and Weaknesses at the County and Sub County Level

	Irregularities and Weaknesses	Recommendations
1.	Inconsistent use and delays in updating of the Chanjo System.	Proper accountability of vaccines receipts, issues and utilization should be done through consistent use and updating in Chanjo System
2.	Most of the facilities that were not defined in the Chanjo system were using eLMIS which is not the official system for the Covid-19 vaccine roll out and vaccine doses management. Consequently, there were notable inaccuracies and incomplete records	We recommend use of the Chanjo System to account for covid-19 vaccines. For the facilities not defined in Chanjo System, should be defined.
3.	Inadequate staffing of the vaccinators who at times doubled up to register the people being vaccinated	The County Government should have adequate staff in the health facilities to meet the increasing demand for the services
4.	The health records information officers/data clerks would at times feed in the system wrong batch numbers and wrong dates for vaccine administration. There would be instances of late data entries leading to loss of data where the information captured manually was not clear.	The County should do follow-ups or reviews of work done by the officers to improve service delivery. Data should be captured on real or near real time basis in the Chanjo system.
5.	Lack of proper inventory records on the tablets in regard to distribution up to the facility level and condition of the tablets.	The County Government should maintain proper and up-to-date inventory records of the tablets under in custody undertake regular maintenance.

5.0 CONCLUSION

The objective of the special audit was to determine the efficiency and effectiveness of the Covid-19 vaccine roll out in Nyamira County. Following the findings, the County should ensure that all vaccinating facilities are defined in the Chanjo System and effective supervision of the activities at the County, Sub County and facilities on all matters relating to receipts, issues and utilization of vaccines. The above weaknesses resulted in an unexplained deficit variance of 53,172 of vaccine doses valued at Kshs 29,059,638 based on the average Vaccine cost during the period.

The County should also adhere to the cold chain and supply logistics guidelines as issued by WHO and MOH. In order to meet the increasing service demands, there is need to continuously assess demand for health workers and build their capacity for effective service delivery to the citizens of Nyamira County.


CPA Nancy Gathunga, CBS
Auditor General

24 June 2022

Nairobi

6.0 APPENDICES

Appendix 1: Vaccinating Facilities in Nyamira County

Sub County	Sub County Store	Facilities Under Sub County	Defined In Chanjo System
Borabu	Kijauri Sub County Hospital	Amatierio Health Centre	Yes
		Chepngombe Health Centre	Yes
		Endiba Health Centre	Yes
		Ensakia Dispensary	Yes
		Eturungi Dispensary	Yes
		Isoge Health Centre	Yes
		Kahawa Dispensary	Yes
		Kerumbe Dispensary	Yes
		Kijauri Sub County Hospital	Yes
		Kineni Dispensary	Yes
		Mecheo Dispensary	Yes
		Mokomoni Health Centre	Yes
		Mwongori Dispensary	Yes
		Nyagacho Dispensary	Yes
		Nyansiongo Nursing Home	Yes
		Nyaronde Dispensary	Yes
		Raitigo Dispensary	Yes
		Riontonyi Dispensary	Yes
		Tindereti Dispensary	Yes
		Nyandoche Ibere Dispensary	No
Manga	Manga District Hospital	Bogwendo Health Centre	Yes
		Gatuta Dispensary	Yes
		Gesure Health Centre	Yes
		Getare Health Centre	Yes
		Holsoms Nursing Home	Yes
		Ikobe Health Centre	Yes
		Kianungu Dispensary	Yes
		Magombo Community Dispensary	Yes
		Manga District Hospital	Yes
		Nyangena Sub District Hospital	Yes
		Ogango Dispensary	Yes

Sub County	Sub County Store	Facilities Under Sub County	Defined In Chanjo System
		Sirate Dispensary	Yes
		Tombe Health Centre	Yes
		Nyakegogi Dispensary	No
		Amaiga Dispensary	No
		Gekano Mission Hospital	No
		Kiangoso Dispensary	No
Masaba North	Masaba District Hospital	Esani Sub-District Hospital	Yes
		Gesima Sub-County Hospital	Yes
		Geteni Dispensary	Yes
		Girango Dispensary	Yes
		Karantini Dispensary	Yes
		Magombo Health Centre	Yes
		Masaba District Hospital	Yes
		Mochenwa Dispensary	Yes
		Mong'Oni	Yes
		Nyagancha Dispensary	Yes
		Nyangori Dispensary	Yes
		Rigoma Dispensary	Yes
		Kambini Dispensary	No
Nyamira North	Ekerenyo Sub-District Hospital	Ekerenyo Sub-District Hospital	Yes
		Esianyi Dispensary	Yes
		Kerobo Health Centre	Yes
		Nyabweri Dispensary	Yes
		Nyamusi Sub-District Hospital	Yes
		Orwaki Dispensary	Yes
		Rianyambweke Dispensary	Yes
		Riechieri Health Centre	Yes
		Etono Health Centre	No
		Kenyoro Health Centre	No
		Kiamanyomba Dispensary	No
		Kemunchugu Dispensary	No
		Kiomara Dispensary	No
		Chaina Dispensary	No
		Magwagwa Health Centre	No

Sub County	Sub County Store	Facilities Under Sub County	Defined In Chanjo System
Nyamira South	Nyamira County Refferal Hospital	Bosiango Health Centre	Yes
		Gianchore Health Centre	Yes
		Igena-Itambe Dispensary	Yes
		Kenyanbi Health Centre	Yes
		Kenyerere Health Centre	Yes
		Kinara Hospital	Yes
		Mongorisi Health Centre	Yes
		Motagara Health Centre	Yes
		Nyakeore Dispensary	Yes
		Nyamaiya Health Centre	Yes
		Nyamira County Refferal Hospital	Yes
		Nyamwectureko	Yes
		Nyangweta Health Centre	Yes
		Oasis Maternity and Nursing Home	Yes
		Ogango Health Centre	Yes
		Riakinaro Health Centre	Yes
		Riongige Dispensary	Yes
		Tinga Health Centre	Yes
		Embonga Health Centre	No
		Nyansangio Dispensary	No
		Ramba Health Centre	No
		Kenyenya	No

Appendix 2: Budget at County and Sub County Level – Nyamira County

County / Sub County	B1	B2	B3	B4	B5	B6	B7	B8
Nyamira County	No	Yes	Yes	No	No	No	No	No
Nyamira South	No	Yes	Yes	No	No	No	No	No
Nyamira North	No	Yes	Yes	No	No	No	No	No
Masaba North	No	Yes	Yes	No	No	No	No	No
Borabu	No	Yes	Yes	No	No	No	No	No
Manga	No	Yes	Yes	No	No	No	No	No
Compliance	0	6	6	0	0	0	0	0
Non-Compliance	6	0	0	6	6	6	6	6

KEY/DETAILS:

B1	Were the associated Covid-19 vaccination costs, including transportation, training and procurement of auxiliary services such as syringes and safety boxes, budgeted for?
B2	Did the county receive any Covid-19 related budgetary support from donors/National government?
B3	Did the county spend on Covid-19 vaccination?
B4	Did the Sub County/Facility finance the following costs related to Covid-19 vaccination;
B5	i) Distribution of Vaccines/

B6	ii) Outreaches
B7	iii) Trainings
B8	iv) Acquisition of auxiliary facilities (Temperature monitoring tools, Adverse effect reporting booklet, Needles etc.)?

Appendix 3: Storage at Sub County Level – Nyamira County

Sub County	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
Borabu	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Manga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Masaba North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Nyamira North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Nyamira South	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Compliant	5	5	5	5	5	5	5	5	5	3	0	1	1	5	5	0	5	5	5
Non-Compliant	0	0	0	0	0	0	0	0	0	2	5	4	4	0	0	5	0	0	0

KEY/DETAILS:

S1	Does the building have sufficient security to prevent loss of Covid-19 vaccines as well as prevent unauthorized access?
S2	Is there sufficient space for orderly receipt, warehousing, and dispatch of vaccines? In particular, a quarantine area for isolation when necessary, including isolation of faulty packs and recalled goods? (The vaccines and areas concerned should be appropriately identified.)
S3	Are the Broken or damaged items withdrawn from usable stock and stored separately?
S4	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
S5	Are all Covid-19 vaccines stored off the floor?
S6	Are Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed? (The signal should permit resetting only by the authorized person.)
S7	Are the vaccines issued on a FIFE method and guided by the expiry date?
S8	Is there a contingency plan put in place in case of power failure, equipment breakdown, or cold chain breach?
S9	Are there Secure measures to ensure that rejected vaccines cannot be used? Are they stored separately from other products while awaiting destruction or return to the supplier?
S10	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas?
S11	Is there a cleaning log that must be completed, signed, and checked by the appropriately designated person?

S12	Is there a written procedure and a program for pest control? Do the pest control agents used pose any risk of contaminating the vaccines? (A site flow plan indicating where the bait stations are situated must be available.)
S13	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
S14	Are the Covid-19 vaccines stored in such a way as to prevent contamination or cross-contamination?
S15	Are the storage conditions compatible with the storage conditions specified on their labels? (Storage facilities should protect goods from deterioration.)
S16	Are the warehouse maintained at a temperature not exceeding 30 °C, and relative humidity not exceeding 75% Relative humidity (WHO zone IVb requirements) at all times?
S17	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
S18	Are there continuous temperature monitoring devices? If Yes, are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?
S19	Dose the county have any stock in the Cold Room? If Yes perform Physical count of doses in the cold room (Grouped per vaccine and Batch X.) and populate the remarks and hyperlink in the remarks column a paper tabulating the results of the count.

Appendix 4: Storage at Facility Level – Nyamira County

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
Nyamira South													
	Motagara Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyakeore Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamira County Referral Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Oasis Maternity and Nursing Home	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Kinara Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Bosiango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kenyambi Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangweta Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Igena Itambe Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Mongorisi Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Tinga Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamaiya Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kenyerere Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Riakinaro Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kenyanya Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Embonga Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ramba Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyansangio Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Riongige Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamwetuereko Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Borabu	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mokomoni Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Amatierio Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kineni Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Endiba Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Isoge Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Kerumbe Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Riontonyi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes
	Nyandoche Ibere Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	St Josephs Nyansionggo Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Mwongori Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyagacho Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Eturungi Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Tindereti Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Kahawa Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Raitigo Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Ensakia Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Chepngombe Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mecheo Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyaronde Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Manga	Manga District Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Holsoms Nursing Home	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Nyangena Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Getare Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Tombe Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kiangoso Health Centre	Yes	No	Yes	No	No	No	No	No	No	Yes	Yes	Yes
	Magombo Community Dispensary	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Ikobe Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyakegogi Dispensary	Yes	No	No	No	No	No	No	No	No	Yes	Yes	Yes
	Bogwendo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gatuta Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gesure Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Amaiga Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Gekano Mission Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Sirate Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kianungu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nyamira North	Nyamusi Sub District Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ekerenyo Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Magwagwa Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Etono Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kenयो Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Esianyi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Kerobo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Rianyambweke Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Orwaki Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyabweri Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Riecheri Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kiamanyomba Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kemunchugu Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kiomara Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	Chaina Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Masaba North	Esani Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Gesima Sub County Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Masaba District Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Magombo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Girango Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mochenwa Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mong'oni Dispensary	Yes	No	Yes	No	No	No	No	No	No	Yes	Yes	Yes
	Nyagancha Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Rigoma Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Kambini Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Geteni Dispensary	Yes	No	Yes	No	No	No	No	No	No	No	Yes	Yes
	Compliant	87	43	87	82	82	82	82	82	68	77	85	85
	Non-Compliant	0	44	0	5	5	5	5	5	19	10	2	2

KEY/DETAILS:

ST1	Is the refrigerator well secured to prevent unauthorized access?
ST2	Were broken or damaged items withdrawn from usable stock and stored separately?
ST3	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
ST4	Are all Covid-19 vaccines (Fridge) stored off the floor?
ST5	Is the Refrigerator is fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)
ST6	Are the vaccines issued on a FIFO method and guided by the expiry date?
ST7	Is there a contingency plan in case of power failure, equipment breakdown, or cold chain breach

ST8	Are there measures to ensure that rejected vaccines cannot be used? (They should be stored separately from other products while awaiting destruction or return to the supplier)
ST9	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas (There should be a chart on the wall that is signed after every cleaning and a poster giving cleaning instructions)
ST10	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
ST11	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
ST12	Is there Continuous temperature monitoring devices? If ☐ , are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?

Appendix 5 – Receipts at Nyamira County Facilities as at 31 March 2022

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
Borabu	Amaterio Health Centre	100	250	146	200
	Chepngombe Health Centre	0	350	68	98
	Endiba Health Centre	0	50	318	300
	Ensakia Dispensary	0	105	65	10
	Eturungi Dispensary	0	400	300	50
	Isoge Health Centre	0	200	96	100
	Kahawa Dispensary	0	520	50	45
	Kerumbe Dispensary	0	800	96	100
	Kijauri Sub County Hospital	4970	17623	7883	5337
	Kineni Dispensary	0	940	872	190
	Mecheo Dispensary	0	598	196	50
	Mokomoni Health Centre	50	400	95	50
	Mwongori Dispensary	0	270	268	150
	Nyagacho Dispensary	0	200	446	100
	Nyansiongo Nursing Home	342	834	0	50
	Nyaronde Dispensary	0	250	326	100
	Raitigo Dispensary	0	200	0	100
Manga	Riontonyi Dispensary	0	100	0	50
	Tindereti Dispensary	0	140	228	150
	Nyandoche Ibere	0	10	30	100
	Bogwendo Health Centre(Manga)	0	230	174	100
	Gatuta Dispensary	0	0	0	50
	Gesure Health Centre (Manga)	0	200	120	100
	Getare Health Centre(Manga)	0	70	120	100
	Holsoms Nursing Home	1020	2220	2670	1250

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
	Ikobe Health Centre(Manga)	0	240	180	150
	Kianungu Dispensary	0	370	120	200
	Magombo Community Dispensary (Manga)	0	240	120	50
	Manga District Hospital	1702	8620	4490	2490
	Nyangena Sub District Hospital (Manga)	1018	1550	720	450
	Ogango Dispensary	0	0	0	50
	Sirate Dispensary (Manga)	0	20	30	100
	Tombe Health Centre (Manga)	0	2670	360	560
	Amaiga Dispensary	0	30	30	30
	Kiangoso Dispensary	0	240	0	50
	Gekano Dispensary	0	10	48	50
Masaba North	Esani Sub-District Hospital	1036	6396	3720	1440
	Gesima Sub-County Hospital	588	5590	3414	1100
	Geteni Dispensary	0	370	360	50
	Girango Dispensary	140	600	60	410
	Karantini Dispensary	0	40	60	20
	Magombo Health Centre	0	1500	420	200
	Masaba District Hospital	3504	10858	5612	3300
	Masaba North Sub County	0	416	0	0
	Mochenwa Dispensary	270	490	172	200
	Mong'Oni	0	0	36	50
	Nyagancha Dispensary	0	50	48	100
	Nyangori Dispensary (Masaba North)	0	1200	240	150
	Rigoma Dispensary	0	2060	1200	580
	Kambini	0	0	0	0
Nyamira North	Ekerenyo Sub-District Hospital	5318	18760	13660	9475

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
	Esianyi Dispensary	28	260	48	200
	Kerobo Health Centre	280	200	80	50
	Nyabweri Dispensary	56	100	42	50
	Nyamusi Sub-District Hospital	280	900	740	275
	Orwaki Dispensary	0	380	220	150
	Rianyambweke Dispensary	101	240	288	50
	Riechieri Health Centre	45	100	120	150
	Kiomara Dispensary	0	100	60	100
	Kemunchugu Dispensary	0	50	156	100
	Chaina Dispensary	100	900	462	200
	Kenयो Health Centre	290	720	914	1320
	Magwagwa Health Centre	600	1370	0	155
	Kiamanyomba Dispensary	224	910	718	254
	Nyakegogi Dispensary	0	40	30	80
	Etono Health Center	400	700	462	550
Nyamira South	Bosiango Health Centre	0	1200	1770	600
	Gianchore Health Centre	0	350	420	40
	Igena-Itambe Dispensary	0	300	450	50
	Kenyamambi Health Centre (Nyamira)	0	340	824	250
	Kenyerere Health Centre (Nyamira)	0	0	132	190
	Kinara Hospital	1090	2673	848	225
	Mongorisi Health Centre	0	550	620	150
	Motagara Health Centre	0	0	60	100
	Nyakeore Dispensary	0	0	44	120
	Nyamaiya Health Centre	0	600	1420	400
	Nyamira County Referral Hospital	6338	28997	22654	12445

Sub-County	Row Labels	Moderna	Oxford/AstraZeneca	Pfizer	Janssen (Ad26.COV2-S)
	Nyamwetuereko	0	0	0	100
	Nyangweta Health Centre	0	400	390	350
	Oasis Maternity and Nursing Home	328	1738	30	60
	Ogango Health Centre	0	680	440	220
	Riakinaro Health Centre	0	0	0	150
	Riongige Dispensary	0	0	0	100
	Tinga Health Centre	0	220	228	430
	Nyansangio Dispensary	0	250	701	150
	Embonga Health Centre	0	0	0	50
	Kenyenya Health Centre	0	600	174	270
	Ramba Health Centre	0	0	0	50
TOTAL		30,218	135,148	85,212	50,369

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Gesima Sub-County Hospital	1,100	790	66	-	-	24	220
	Gesure Health Centre	100	16	-	-	-	5	79
	Getare Health Centre	100	14	-	-	-	43	43
	Geteni Dispensary	50	13	20	-	-	7	10
	Gianchore Health Centre	40	80	-	-	-	-	-
	Girango Dispensary	410	202	-	-	-	11	197
	Holsoms Nursing Home	1,250	2,452	2	-	-	122	1,326
	Igena-Itambe Dispensary	50	108	-	-	-	-	-
	Ikobe Health Centre	50	4	-	-	-	4	42
	Ikobe Health Centre	100	49	-	-	-	-	51
	Isoge Health Centre	100	164	-	-	-	-	-
	Kahawa Dispensary	45	28	-	-	-	-	17

Appendix 6 – Utilization at Nyamira County Facilities as at 31 March 2022

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
Janssen (Ad26.COV2-S)	Amatierio Health Centre	200	913	9	-	-	-	722
	Bogwendo Health Centre	100	69	-	-	-	-	31
	Bosiango Health Centre	600	567	65	-	100	-	132
	Chepngombe Health Centre	98	54	-	-	-	-	44
	Ekerenyo Sub-District Hospital	9,475	5,858	153	-	-	-	3,464
	Endiba Health Centre	300	166	22	-	-	29	83
	Ensakia Dispensary	10	19	-	-	-	-	9
	Esani Sub-District Hospital	1,440	1,470	195	-	-	-	225
	Esianyi Dispensary	200	287	75	-	-	-	162
	Eturungi Dispensary	50	51	-	-	-	50	51
	Gatuta Dispensary	50	-	45	-	-	-	5

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Karantini Dispensary	20	8	-	-	-	-	12
	Kenyanbi Health Centre	150	68	30	-	-	-	52
	Kenyanbi Health Centre	100	41	-	-	-	-	59
	Kenyerere Health Centre	190	21	-	-	-	-	169
	Kerobo Health Centre	50	126	3	-	-	-	-
	Kerumbe Dispensary	100	58	-	-	-	-	79
	Kianungu Dispensary	200	28	-	-	-	-	42
	Kijauri Sub County Hospital	5,337	2,487	40	-	-	-	172
	Kinara Hospital	225	1,131	-	-	-	7	2,810
	Kineni Dispensary	190	563	-	-	-	-	-
	Magombo Community Dispensary	50	55	10	-	-	3	373
	Magombo Health Centre	200	779	-	-	-	-	-
								18
								-
								579

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Manga District Hospital	2,490	2,204	57	-	-	15	214
	Masaba District Hospital	3,300	2,354	164	-	-	-	782
	Mecheo Dispensary	50	94	-	-	-	-	44
	Mochenwa Dispensary	200	52	-	-	-	-	148
	Mokomoni Health Centre	50	740	7	-	-	-	697
	Mong'Oni	50	6	8	-	-	-	36
	Mongorisi Health Centre	150	198	-	-	-	19	67
	Motagara Health Centre	100	32	31	-	-	46	9
	Mwongori Dispensary	150	295	-	-	-	-	145
	Nyabweri Dispensary	50	81	22	-	-	-	53
	Nyagacho Dispensary	100	260	3	-	-	-	163
	Nyagancha Dispensary	100	-	55	-	-	-	45

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Nyakeore Dispensary	120	112	99	-	-	-	91
	Nyamaiya Health Centre	400	667	182	-	-	-	449
	Nyamira County Referral Hospital	12,445	2,961	1,840	-	-	127	7,517
	Nyamusi Sub-District Hospital	275	1,896	85	-	-	-	1,706
	Nyamwetuereko	100	10	28	-	-	10	52
	Nyangena Sub District Hospital	450	1,118	5	-	-	18	691
	Nyangori Dispensary	150	124	21	-	-	-	5
	Nyangweta Health Centre	350	149	170	-	-	-	31
	Nyansiongo Nursing Home	50	62	2	-	-	-	14
	Nyaronde Dispensary	100	357	1	-	-	-	258
	Oasis Maternity and Nursing Home	60	166	36	-	-	-	142
	Ogango Dispensary	50	2	45	-	-	3	-

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Ogango Health Centre	220	286	93	-	-	-	- 159
	Orwaki Dispensary	150	165	35	-	-	-	20
	Raitigo Dispensary	100	1	-	-	-	-	99
	Riakinaro Health Centre	150	-	138	-	-	-	12
	Rianyambweke Dispensary	50	205	-	-	-	-	- 155
	Riechieri Health Centre	150	457	-	-	-	-	- 307
	Rigoma Dispensary	580	386	40	-	-	-	154
	Riongige Dispensary	100	5	57	-	-	-	38
	Riontonyi Dispensary	50	33	-	-	-	-	17
	Sirate Dispensary (Manga)	100	6	75	-	-	2	17
	Tindereti Dispensary	150	370	-	-	-	-	- 220
	Tinga Health Centre	430	203	297	-	-	-	- 70

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Tombe Health Centre	560	297	44	-	-	-	219
	At Sub County Stores/Not in Chanjo	3,090	46	3,090			47	
Total		49,950	35,139	7,395	-	100	498	6,817
Moderna	Amatiero Health Centre	50	2	-	-	-	-	48
	Ekerenyo Sub-District Hospital	5,318	2,109	-	-	-	6	3,203
	Esani Sub-District Hospital	1,036	980	-	-	-	-	56
	Esianyi Dispensary	28	150	-	-	-	-	-
								122
	Gesima Sub-County Hospital	588	537	-	-	-	21	30
	Girango Dispensary	140	235	-	-	-	92	-
								187
	Holsoms Nursing Home	1,020	754	-	-	-	328	-
								62
	Kerobo Health Centre	280	105	-	-	-	-	175

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Kijauri Sub County Hospital	4,970	5,587	-	-	-	-	617
	Kinara Hospital	1,090	1,001	-	-	-	481	392
	Manga District Hospital	1,702	899	-	-	-	396	407
	Masaba District Hospital	3,504	2,931	-	-	-	-	573
	Masaba North Sub County	-	-	-	-	-	-	-
	Mochenwa Dispensary	270	223	-	-	-	-	47
	Mokomoni Health Centre	50	96	-	-	1	-	47
	Nyabweri Dispensary	56	47	-	-	-	-	9
	Nyamira County Referral Hospital	6,338	3,837	-	-	-	309	2,192
	Nyamusi Sub-District Hospital	280	675	-	-	-	-	395
	Nyangena Sub District Hospital	1,018	519	-	-	-	296	203
	Nyansiongo Nursing Home	342	164	-	-	-	-	178

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Oasis Maternity and Nursing Home	328	435	-	-	-	-	107
	Rianyambweke Dispensary	101	85	-	-	-	-	16
	Riechieri Health Centre	45	40	-	-	-	-	5
	St. Joseph's Nyansiongo Health Centre							-
	At Sub County Stores/Not in Chanjo	1,126	1				131	996
Total		29,680	21,410	-	-	1	2,060	6,209
Oxford/AstraZeneca	Amatiero Health Centre	250	563	-	-	-	-	313
	Bogwendo Health Centre	230	95	-	-	-	-	135
	Bosiango Health Centre	1,200	1,451	-	-	32	-	283
	Chepngombe Health Centre	350	1,454	-	-	-	-	1,104
	Ekerenyo Sub-District Hospital	18,760	9,637	-	-	-	-	9,123

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Endiba Health Centre	50	9	-	-	-	14	27
	Ensakia Dispensary	105	43	-	-	-	-	62
	Esani Sub-District Hospital	6,396	5,618	-	-	-	-	778
	Esianyi Dispensary	260	671	-	-	-	45	-
	Eturungi Dispensary	400	228	-	-	-	257	85
	Gekano Health Centre							-
	Gesima Sub-County Hospital	5,590	3,494	8	-	-	247	1,841
	Gesure Health Centre	200	10	-	-	-	-	190
	Getare Health Centre	70	27	-	-	-	31	12
	Geteni Dispensary	370	295	-	-	-	37	38
	Gianchore Health Centre	350	281	-	-	-	-	69
	Girango Dispensary	600	1,725	-	-	-	194	-
								1,319

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Holsoms Nursing Home	2,220	4,155	-	-	-	255	2,190
	Igena-Itambe Dispensary	300	243	-	-	-	-	57
	Ikobe Health Centre	240	317	-	-	-	13	90
	Isoge Health Centre	200	142	-	-	-	-	58
	Kahawa Dispensary	520	55	-	-	-	-	465
	Karantini Dispensary	40	39	-	-	-	-	1
	Kenyanbi Health Centre	340	429	-	-	-	-	89
	Kenyoro Health Centre							-
	Kerobo Health Centre	200	288	-	-	-	-	88
	Kerumbe Dispensary	800	221	-	-	-	-	579
	Kiangoso Health Centre							-
	Kianungu Dispensary	370	34	-	-	-	-	336

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Kijauri Sub County Hospital	17,623	13,698	-	-	-	3	3,922
	Kinara Hospital	2,673	4,018	-	-	-	6	1,351
	Kineni Dispensary	940	1,160	-	-	-	-	220
	Magombo Community Dispensary	240	100	-	-	-	61	79
	Magombo Health Centre	1,500	928	-	-	-	-	572
	Manga District Hospital	8,620	6,509	-	-	-	1,003	1,108
	Masaba District Hospital	10,858	13,659	-	-	-	-	2,801
	Masaba North Sub County	416	485	-	-	-	-	69
	Mecheo Dispensary	598	192	-	-	-	-	406
	Mochenwa Dispensary	490	649	-	-	-	-	159
	Mokomoni Health Centre	400	1,548	-	-	-	5	1,153
	Mongorisi Health Centre	550	722	-	-	-	52	224

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Mwongori Dispensary	270	305	-	-	-	-	- 35
	Nyabweri Dispensary	100	335	-	-	-	-	- 235
	Nyagacho Dispensary	200	220	-	-	-	-	- 20
	Nyagancha Dispensary	50	43	-	-	-	3	4
	Nyakegogi Dispensary							-
	Nyamaiya Health Centre	600	826	160	-	-	36	- 422
	Nyamira County Referral Hospital	28,997	16,826	1	-	-	524	11,646
	Nyamusi Sub-District Hospital	900	3,498	-	-	-	-	- 2,598
	Nyandoche Dispensary							-
	Nyangena Sub District Hospital	1,550	2,133	-	-	-	300	- 883
	Nyangori Dispensary	1,200	1,113	1	-	-	-	86
	Nyangweta Health Centre	400	247	-	-	-	-	153

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Nyansiongo Nursing Home	834	806	-	-	-	-	28
	Nyaronde Dispensary	250	587	-	-	-	-	337
	Oasis Maternity and Nursing Home	1,738	2,672	-	-	-	210	1,144
	Ogango Health Centre	680	333	-	-	-	21	326
	Ogango Dispensary							-
	Orwaki Dispensary	380	453	30	-	-	-	43
	Raitigo Dispensary	200	36	-	-	-	-	164
	Rianyambweke Dispensary	240	205	-	-	-	-	35
	Riechieri Health Centre	100	378	-	-	-	-	278
	Rigoma Dispensary	2,060	1,621	-	-	-	-	439
	Riontonyi Dispensary	100	19	-	-	-	-	81
	Sirate Dispensary	20	14	-	-	-	-	6

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	St. Joseph's Nyansiongo Health Centre							-
	Tindereti Dispensary	140	292	-	-	-	-	152
	Tinga Health Centre	220	255	-	-	-	4	39
	Ting'Áng Dispensary							-
	Tombe Health	2,670	487	-	-	-	-	2,183
	At Sub County Stores/Not in Chanjo	12,572	481		3,570		1,952	10,473
Total		141,790	109,377	140	3,570	32	1,369	27,302
Pfizer	Amatiero Health Centre	146	1,091	4	-	-	-	949
	Bogwendo Health Centre	174	85	-	-	-	-	89
	Bosiango Health Centre	1,770	1,759	-	-	83	-	72
	Chepngombe Health Centre	68	328	-	-	-	-	260

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Ekerenyo Sub-District Hospital	13,660	9,140	1	-	-	-	4,519
	Endiba Health Centre	318	394	1	-	-	51	128
	Ensakia Dispensary	65	321	-	-	-	-	256
	Esani Sub-District Hospital	3,720	2,244	-	-	-	-	1,476
	Esianyi Dispensary	48	435	-	-	-	-	387
	Etono Health Centre							-
	Eturungi Dispensary	300	188	-	-	-	-	112
	Gekano Health Centre							-
	Gesima Sub-County Hospital	3,414	2,878	2	-	-	45	489
	Gesure Health Centre	120	11	-	-	-	16	93
	Getare Health Centre	120	60	-	-	-	27	33
	Geteni Dispensary	360	305	-	-	-	18	37

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Gianchore Health Centre	420	412	-	-	-	-	8
	Girango Dispensary	60	52	-	-	-	-	8
	Holsoms Nursing Home	2,670	3,947	-	-	-	264	- 1,541
	Igena-Itambe Dispensary	450	426	-	-	-	-	24
	Ikobe Health Centre	180	329	-	-	-	25	- 174
	Isoge Health Centre	96	474	-	-	-	-	- 378
	Itibo Mission Health Centre							-
	Kahawa Dispensary	50	14	-	-	-	-	36
	Karantini Dispensary	60	19	-	-	-	-	41
	Kenyambi Health Centre	824	441	-	-	-	-	383
	Kenyerere Health Centre	132	42	-	-	-	-	90
	Kenyoro Dispensary							-
	Kenyoro Health Centre							-

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Kerobo Health Centre	80	254	-	-	-	-	-
	Kerumbe Dispensary	96	103	6	-	-	-	174
	Kiangoso Health Centre							13
	Kianungu Dispensary	120	88	-	-	-	-	32
	Kijauri Sub County Hospital	7,883	6,367	5	-	-	-	1,511
	Kinara Hospital	848	1,394	-	-	-	95	641
	Kineni Dispensary	872	1,637	-	-	-	-	765
	Magombo Community Dispensary	120	45	-	-	-	25	50
	Magombo Health Centre	420	632	-	-	-	-	212
	Manga District Hospital	4,490	3,188	-	-	-	224	1,078
	Masaba District Hospital	5,612	6,478	-	-	-	-	866
	Masaba North Sub County	-	-	-	-	-	-	-

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Mecho Dispensary	196	16	-	-	-	-	180
	Mochenwa Dispensary	172	524	-	-	-	-	352
	Mokomoni Health Centre	95	805	3	-	-	-	713
	Mong'Oni	36	37	-	-	-	-	1
	Mongorisi Health Centre	620	704	-	-	-	32	116
	Motagara Health Centre	60	23	-	-	-	17	20
	Mwongori Dispensary	268	360	4	-	-	-	96
	Nyabweri Dispensary	42	361	1	-	-	-	320
	Nyagacho Dispensary	446	603	15	-	-	-	172
	Nyagancha Dispensary	48	52	-	-	-	8	12
	Nyakegogi Dispensary							-
	Nyakeore Dispensary	44	43	2	-	-	-	1

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Nyamaiya Health Centre	1,420	1,177	18	-	-	-	225
	Nyamira County Referral Hospital	22,654	8,305	11	-	-	109	14,229
	Nyamusi Sub-District Hospital	740	4,279	-	-	-	-	3,539
	Nyandoche Ibere Dispensary							-
	Nyangena Sub District Hospital	720	1,973	16	-	-	26	1,295
	Nyangori Dispensary	240	383	1	-	-	-	144
	Nyangweta Health Centre	390	336	-	-	-	-	54
	Nyaronde Dispensary	326	902	-	-	-	-	576
	Nyansiongo Nursing Home							-
	Oasis Maternity and Nursing Home	30	250	-	-	-	-	220
	Ogango Health Centre	440	1,296	38	-	-	-	894
	Orwaki Dispensary	220	330	12	-	-	-	98

Antigen	Facilities	Sum of Doses Received	Sum of Vaccinations Administered	Sum of Total Physical Count (as at 31/03/22)	Sum of Expired and Disposed (Qty)	Sum of Damage and disposed (Qty)	Sum of Wastage and disposed (Qty)	Un-accounted for
	Rianyambweke Dispensary	288	450	-	-	-	-	162
	Riechieri Health Centre	120	1,733	1	-	-	-	1,614
	Rigoma Dispensary	1,200	1,084	-	-	-	-	116
	Sirate Dispensary	30	18	-	-	-	2	10
	Tindereti Dispensary	228	205	-	-	-	-	23
	Tinga Health Centre	228	259	21	-	-	-	52
	Tombe Health Centre	360	308	-	-	-	-	52
	At Sub County Stores/Not in Chanjo	5,153	78				57	5,018
Total		86,580	72,475	138	-	83	1,041	12,843

Appendix 7: Disposal at Sub County Level – Nyamira County

Sub County	D1	D2	D3	D4	D5	D6	D7
Nyamira South	Yes	No	No	No	No	No	No
Nyamira North	Yes	No	No	No	No	No	No
Masaba North	Yes	No	No	No	No	No	Yes
Borabu	Yes	No	No	No	No	No	Yes
Manga	No	No	No	No	No	No	No
Compliant	4	0	0	0	0	0	2
Non-Compliant	1	5	5	5	5	5	3

KEY/DETAILS:

D1	Was waste management plan developed at either the National and/or County level?
D2	Was there a budget developed for disposal of Covid-19 waste? (Compare actual with the budget and Report under observation if the budget was adequate or not)
D3	Did Covid-19 waste transported from one county to another have clearance from NEMA?
D4	Were disposed vaccine vials recorded and accounted for in the vaccine inventory report?
D5	Did the County/Store fill any application form for disposal of pharmaceutical waste issued by the Pharmacy and Poisons Board in compliance with the Guidelines for safe management of pharmaceutical waste?
D6	Are the disposals done at a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste
D7	Was disposal of pharmaceutical waste supervised by a Pharmacy and Poisons Board inspector OR Public Health Officer in compliance with the Guidelines for safe management of pharmaceutical waste?

Appendix 8: Disposal at Facility Level – Nyamira County

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Nyamira South	Motagara Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Nyakeore Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Nyamira County Referral Hospital	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Oasis Maternity and Nursing Home	No	Yes	No	No	No	No	Yes	No	No	No	No	No
	Kinara Hospital	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Bosiango Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Kenyambi Health Centre	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
	Nyangweta Health Centre	No	No	Yes	No	Yes	No	No	No	Yes	No	No	No
	Igena Itambe Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mongorisi Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	No
	Tinga Health Centre	No	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Nyamaiya Health Centre	No	No	Yes	No	Yes	No	No	No	Yes	No	No	No
Borabu	Kenyerere Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Riakinaro Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kenyenya Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes
	Embonga Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Ramba Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Nyansangio Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Riongige Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	Yes
	Nyamwetureko Dispensary	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes
	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Mokomoni Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Amaterio Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Kineni Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Endiba Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Isoge Health Centre	No	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Kerumbe Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Riontonyi Dispensary	No	Yes	Yes	No	No	No	No	No	No	No	No	Yes
	Nyandoche Ibere Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	St Josephs Nyansiongo Hospital	Yes	No	Yes	Yes	No	Yes	No	No	Yes	No	No	Yes
	Mwongori Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Nyagacho Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Eturungi Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Tindereti Dispensary	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	No	Yes	Yes
	Kahawa Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Raitigo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Ensakia Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Chepngombe Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No
	Mecheo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Nyaronde Dispensary	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No	Yes	Yes
Manga	Manga District Hospital	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Holsoms Nursing Home	Yes	Yes	No	No	Yes	No	Yes	No	No	No	No	No
	Nyangena Sub District Hospital	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Getare Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Tombe Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kiangoso Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes
	Magombo Community Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Ikobe Health Centre	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Nyakegogi Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Bogwendo Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Gatuta Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Gesure Health Centre	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
	Amaiga Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
	Gekano Mission Hospital	No	Yes	No	No	No	No	Yes	No	No	No	No	No
	Sirate Dispensary	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes
	Kianungu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
Nyamira North	Nyamusi Sub District Hospital	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
	Ekerenyo Sub District Hospital	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Magwagwa Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Etono Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Kenyoro Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Esianyi Dispensary	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
	Kerobo Health Centre	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Rianyambweke Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Orwaki Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Nyabweri Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Riecheri Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kiamanyomba Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Kemunchugu Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kiomara Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes
	Chaina Dispensary	Yes	No	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
Masaba North	Esani Sub District Hospital	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Gesima Sub County Hospital	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Masaba District Hospital	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Magombo Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Girango Dispensary	Yes	No	No	No	Yes	No	No	No	Yes	No	No	No
	Mochenwa Health Centre	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Mong'oni Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Nyagancha Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	Yes
	Rigoma Dispensary	Yes	No	Yes	Yes	No	Yes	No	No	Yes	No	No	Yes
	Kambini Dispensary	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No
	Geteni Dispensary	Yes	No	No	No	No	No	No	No	Yes	No	No	No
	Compliant	80	22	74	61	43	41	5	3	78	73	46	44
	Non-Compliant	7	65	13	26	44	46	82	84	9	14	41	43

KEY/Details

D1	Does the facility have a waste management plan?
D2	Was there a budget for the disposal of Covid-19 Waste?
D3	Was there pharmaceutical waste separated from the sharp waste and other healthcare wastes and the different wastes securely packaged in plastic bags or rigid containers which are clearly labeled?
D4	Was there pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical? (Applicable to facilities with large volumes of daily waste, that do not transport/dispose daily)

D5	Is the public health officer involved in the disposal of Covid-19 Waste? (Storage, Transportation and Supervision of Disposal)
D6	Does the Facility Transport Pharmaceutical Waste? (For facilities that do not have a NEMA approved Waste Disposal Site. These sites have an incinerator. N/B: A burning chamber is not an incinerator)
D7	Was there pharmaceutical waste is transported to a NEMA approved Waste Disposal Site. (Facility should have a copy for the approval of the site/incinerator and a separate documentation regarding approval for the transportation)
D8	Was there a pharmaceutical waste transported from one county to another had clearance from NEMA
D9	Does the facility have an incinerator, burning chamber or burning pit?
D10	Was the method used to dispose of sharp waste (syringes and needles) by the Healthcare facility and whether complying with the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply (Treatment should be by Incineration, Sharps are to be incinerated while other waste is to be burnt in a burning chamber)
D11	Did the quantity and the method used in the disposal of any vaccine vials (both wasted and expired) by the Healthcare facility comply with the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply? (requirement is Treatment by disinfection with solution, encapsulation, autoclaving or inertization)
D12	Were the disposed vaccine vials recorded and accounted for in the vaccine inventory report?

Appendix 9: HR at Sub County Level – Nyamira County

Sub County	HR1	HR2	HR3	HR4	HR5	HR 6	HR 7
Nyamira South Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Manga Subcounty	Yes	Yes	Yes	Yes	No	Yes	Yes
Nyamira North Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Borabu Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Masaba North Subcounty	Yes	Yes	Yes	Yes	Yes	No	Yes
Compliant	5	5	5	5	4	1	5
Non-Compliant	0	0	0	0	1	4	0

KEY/DETAILS:

HR1	Was the county represented in National training for ToTs? If ☐ indicate in the remarks column number of people involved
HR2	Were the Sub County health management team trained on Covid-19immunization?
HR3	Was the training well spread to all cadres supposed to be trained? Establish the composition of the Sub County health management team trained and what was covered in the training
HR4	Was there a training plan and were the trainings done as per training plan?
HR5	Was there a specific training budget for covid -19 immunization?
HR6	Does comparison of Expenditure with actual expenditure for training on Covid-19vaccination give rise to a variance?
HR7	Did you Obtain details of staff at national/county/Sub County/facility for the following Categories indicating their designation, attendance dates, Financier, etc.?

Appendix 10: HR at Facility Level – Nyamira County

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
Nyamira South Subcounty	Nyamaiya Health Centre Facility	Yes	Yes	Yes	Yes	Yes	Yes
	Kinara Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamira County Referral Hospital (MCH)	Yes	No	Yes	Yes	Yes	Yes
	Tingá Health Center	Yes	Yes	Yes	Yes	Yes	Yes
	Oasis Maternity and Nursing Home	No	Yes	Yes	Yes	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangweta Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Bosiango Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Kenyambi Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Mongorisi Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Riongige Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Kenya	No	Yes	Yes	Yes	Yes	Yes
	Kenyerere Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Igena Itambe Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Ramba Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Riakinaro Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Nyamwetuereko Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Motagara Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Nyakeore Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Nyansangio Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Embonga Health Centre	No	No	Yes	Yes	Yes	No
Manga Subcounty	Manga District Hospital	Yes	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Holsoms Nursing Home	No	Yes	Yes	Yes	Yes	Yes
	Nyangena Sub District Hospital (Manga)	No	Yes	Yes	Yes	Yes	Yes
	Getare Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Tombe Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Kiangoso Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Magombo Dispensary	✓	Yes	Yes	Yes	Yes	Yes
	Ikobe Health Centre (Manga)	No	Yes	Yes	Yes	Yes	Yes
	Nyakegogi Dispensary	✓	Yes	Yes	Yes	Yes	Yes
	Bogwendo Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Gatuta Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Gesure Health Centre	✓	Yes	Yes	Yes	Yes	Yes
	Amaiga Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Gekano Mission Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Sirate Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kianungu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
Nyamira North Sub-County	Nyamusi Sub-District Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Ekerenyo Sub-District Hospital	No	Yes	Yes	Yes	Yes	Yes
	Magwagwa Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Etono Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Kenyoro Health Centre	No	Yes	Yes	Yes	No	Yes
	Esianyi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kerobo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Rianyambweke Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Orwaki Dispensary	No	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Nyabweri Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Riechieri Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Kiamanyomba Dispensary	No	Yes	Yes	Yes	No	Yes
	Kemunchugu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kiomara Dispensary	Yes	No	Yes	Yes	Yes	No
	Chaina Dispensary	No	Yes	Yes	Yes	Yes	Yes
Masaba North Sub-County	Esani Sub-District Hospital	No	Yes	Yes	Yes	Yes	Yes
	Gesima Sub-County Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Masaba District Hospital	No	Yes	Yes	Yes	Yes	Yes
	Magombo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Girango Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Mochenwa Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Mong'oni Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Nyagancha Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Rigoma Dispensary	Yes	No	Yes	Yes	Yes	No
	Kambini Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	No	Yes	Yes	Yes	No
	Geteni Dispensary	No	Yes	Yes	Yes	Yes	Yes
Borabu Subcounty	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Mokomoni Health centre	No	No	Yes	Yes	Yes	No
	Amatierio Health Centre	No	No	Yes	Yes	Yes	No
	Kineni Dispensary	Yes	No	Yes	Yes	Yes	No
	Endiba Health Centre	No	No	Yes	Yes	Yes	No

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Isoge health center	Yes	Yes	Yes	Yes	Yes	Yes
	Kerumbe Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Riontonyi Dispensary	Yes	Yes	No	Yes	Yes	Yes
	Nyandoche Ibere Dispensary	Yes	Yes	Yes	Yes	Yes	No
	St Josephs Nyansiongo Hospital	Yes	Yes	No	Yes	Yes	Yes
	Mwongori Dispensary	No	No	Yes	Yes	Yes	No
	Nyagacho Dispensary	No	No	Yes	Yes	No	No
	Eturungi Dispensary	No	No	Yes	Yes	Yes	No
	Tindereti Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kahawa Dispensary	No	No	Yes	Yes	No	No
	Raitigo Dispensary	Yes	No	Yes	Yes	Yes	No
	Ensakia Dispensary	No	No	Yes	Yes	No	No
	Chepngombe Dispensary	No	No	Yes	Yes	Yes	No
	Mecheo Dispensary	No	No	Yes	Yes	No	No
	Nyaronde dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Compliant	47	70	85	87	81	66
	Non-Compliant	40	17	2	0	6	21

KEY/DETAILS:

HR1	Did the facility have adequate staff to carry out the Covid-19vaccination (See guide from 5.1 below)
HR2	Did these staff have separation of roles and if not was the staff trained to handle other roles? (See guide from 5.1 below)
HR3	Were health Care Workers (HCW) trained before commencement of Covid-19Vaccination at the facility? (HCW should be trained before being issued with vaccines. Compare date of training with the date the first dose of vaccine were received)
HR4	Were the health care workers trained on vaccine administration (i.e. what was covered in the training)?
HR5	Have you obtained the details of the facility's staff(involved in Covid-19vaccination) as follows
HR6	Has any staff of the facility been used in training other staff? I.e. CHV with Job Description of Trained on Mobilization, Awareness creation

Appendix 11: Coordination of Players at County Level – Nyamira County

County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Nyamira County	Yes			Yes	Yes	Yes	Yes	Yes	Yes
Compliant	1	1	1	1	1	1	1	1	1
Non-Compliant	0	0	0	0	0	0	0	0	0

KEY/Details:

CP1	Was a coordination taskforce/committee at the county and Sub County formed?
CP2	Did the task force /committee have terms of reference?
CP3	Were the tors executed?
CP4	Did the county receive any directives/advisory/instruction from the national government in relation to Covid-19vaccination?
CP5	Did the county/Sub County taskforce communicate to the National Task force?
CP6	Did the committee/task force keep minutes of their meetings?
CP7	Did the county/Sub County carry out any advocacy?
CP8	Did the county/Sub County carried out mobilization?
CP9	Did the county/Sub County carry out any outreaches?

Appendix 12: Coordination of Players at Sub County Level – Nyamira County

Sub County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Nyamira South	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nyamira North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Masaba North	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Borabu	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Manga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	5	5	5	5	5	5	5	5	5
Non-Compliant	0	0	0	0	0	0	0	0	0

KEY/DETAILS:

CP1	Was a coordination taskforce/committee at the county and Sub County formed?
CP2	Did the task force /committee have terms of reference?
CP3	Were the tors executed?
CP4	Did the county receive any directives/advisory/instruction from the national government in relation to Covid-19vaccination?
CP5	Did the county/Sub County taskforce communicate to the National Task force?
CP6	Did the committee/task force keep minutes of their meetings?.
CP7	Did the county/Sub County carry out any advocacy?
CP8	Did the county/Sub County carried out mobilization?
CP9	Did the county/Sub County carry out any outreaches?

Appendix 13: Coordination of Players at Facility Level – Nyamira County

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
Nyamira South	Motagara Health Centre	Yes	Yes	Yes	No	No
	Nyakeore Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyamira County Referral Hospital	Yes	Yes	Yes	Yes	Yes
	Oasis Maternity and Nursing Home	Yes	Yes	Yes	Yes	Yes
	Kinara Hospital	Yes	Yes	Yes	Yes	Yes
	Bosiango Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenyanbi Health Centre	Yes	Yes	Yes	Yes	Yes
	Nyangweta Health Centre	Yes	Yes	Yes	Yes	Yes
	Igena Itambe Health Centre	Yes	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	Yes
	Mongorisi Health Centre	Yes	Yes	Yes	Yes	Yes
	Tinga Health Centre	Yes	Yes	Yes	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	Yes
	Nyamaiya Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenyerere Health Centre	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Riakinaro Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenyenya Health Centre	Yes	Yes	Yes	Yes	Yes
	Embonga Health Centre	Yes	Yes	Yes	No	No
	Ramba Health Centre	Yes	Yes	Yes	Yes	Yes
	Nyansangio Dispensary	Yes	Yes	Yes	Yes	Yes
	Riongige Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyamwutureko Dispensary	Yes	Yes	Yes	Yes	Yes
Borabu	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	Yes
	Mokomoni Health Centre	Yes	Yes	Yes	Yes	Yes
	Amatierio Health Centre	Yes	Yes	Yes	Yes	Yes
	Kineni Dispensary	Yes	Yes	Yes	Yes	Yes
	Endiba Health Centre	Yes	Yes	Yes	Yes	Yes
	Isoge Health Centre	Yes	Yes	Yes	Yes	Yes
	Kerumbe Dispensary	Yes	Yes	Yes	Yes	Yes
	Riontonyi Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyandoche Ibere Dispensary	Yes	Yes	Yes	Yes	Yes
	St Josephs Nyansiongong Hospital	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Mwongori Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyagacho Dispensary	Yes	Yes	Yes	Yes	Yes
	Eturungi Dispensary	Yes	Yes	Yes	Yes	Yes
	Tindereti Dispensary	Yes	Yes	Yes	Yes	Yes
	Kahawa Dispensary	Yes	Yes	Yes	Yes	Yes
	Raitigo Dispensary	Yes	Yes	Yes	Yes	Yes
	Ensakia Dispensary	Yes	Yes	Yes	Yes	Yes
	Chepngombe Dispensary	Yes	Yes	Yes	Yes	Yes
	Mecheo Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyaronde Dispensary	Yes	Yes	Yes	Yes	Yes
Manga	Manga District Hospital	Yes	Yes	Yes	Yes	Yes
	Holsoms Nursing Home	Yes	Yes	Yes	Yes	Yes
	Nyangena Sub District Hospital	Yes	Yes	Yes	Yes	Yes
	Getare Health Centre	Yes	Yes	Yes	Yes	Yes
	Tombe Health Centre	Yes	Yes	Yes	Yes	Yes
	Kiangoso Health Centre	Yes	Yes	Yes	Yes	Yes
	Magombo Community Dispensary	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Ikobe Health Centre	Yes	Yes	Yes	Yes	Yes
	Nyakegogi Dispensary	Yes	Yes	Yes	Yes	Yes
	Bogwendo Health Centre	Yes	Yes	Yes	Yes	Yes
	Gatuta Dispensary	Yes	Yes	Yes	Yes	Yes
	Gesure Health Centre	Yes	Yes	Yes	Yes	Yes
	Amaiga Dispensary	Yes	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	Yes	Yes	Yes	Yes
	Gekano Mission Hospital	Yes	Yes	Yes	Yes	Yes
	Sirate Dispensary	Yes	Yes	Yes	Yes	Yes
	Kianungu Dispensary	Yes	Yes	Yes	Yes	Yes
Nyamira North	Nyamusi Sub District Hospital	Yes	Yes	Yes	Yes	Yes
	Ekerenyo Sub District Hospital	Yes	Yes	Yes	Yes	Yes
	Magwagwa Health Centre	Yes	Yes	Yes	Yes	Yes
	Etono Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenyo Health Centre	Yes	Yes	Yes	Yes	Yes
	Esianyi Dispensary	Yes	Yes	Yes	Yes	Yes
	Kerobo Health Centre	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Rianyambweke Dispensary	Yes	Yes	Yes	Yes	Yes
	Orwaki Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyabweri Dispensary	Yes	Yes	Yes	Yes	Yes
	Riecheri Health Centre	Yes	Yes	Yes	Yes	Yes
	Kiamanyomba Dispensary	Yes	Yes	Yes	Yes	Yes
	Kemunchugu Dispensary	Yes	Yes	Yes	Yes	Yes
	Kiomara Dispensary	Yes	Yes	Yes	Yes	Yes
	Chaina Dispensary	Yes	Yes	Yes	Yes	Yes
Masaba North	Esani Sub District Hospital	Yes	Yes	Yes	Yes	Yes
	Gesima Sub County Hospital	Yes	Yes	Yes	Yes	Yes
	Masaba District Hospital	Yes	Yes	Yes	Yes	Yes
	Magombo Health Centre	Yes	Yes	Yes	Yes	Yes
	Girango Dispensary	Yes	Yes	Yes	Yes	Yes
	Mochenwa Health Centre	Yes	Yes	Yes	Yes	Yes
	Mong'oni Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyagancha Dispensary	Yes	Yes	Yes	Yes	Yes
	Rigoma Dispensary	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Kambini Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	Yes	Yes	Yes	Yes
	Geteni Dispensary	Yes	Yes	Yes	Yes	Yes
Compliant		87	87	87	85	85
Non-Compliant		0	0	0	2	2

KEY/DETAILS:

CP1	Does the facility receive Covid-19vaccine related directives/information from the National/county?
CP2	Did the facility receive communication from the National/county/Sub County government
CP3	Has the Facility carried out advocacy?
CP4	Has the Facility carried out mobilization?
CP5	Did the Facility carry out any outreaches?

Appendix 14: Monitoring and Supervision at County Level – Nyamira County

County	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Nyamira County	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0
Non-Compliant	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1

KEY/Details:

M1	Did the County designate an in charge/Committee for monitoring Covid-19vaccine rollout?
M2	Were there terms of reference for the M&E committee?
M3	Were there reports of the M & E committee
M4	Are the recommendation of the monitoring and evaluation team implemented?
M5	Did the county receive any tablets from the Ministry?
M6	Were the tablets distributed?
M7	Are the tablets in good working conditions?
M8	Are the Personnel involved in the rollout been receiving airtime?
M9	Did the county/Sub County put in place any measures to ensure patients report adverse effect?
M10	Has the County/Sub County/facility received Adverse effect booklet etc. that are required to report adverse effects?
M11	Has the Sub County/facility experienced any instance of adverse effect?
M12	Does the County/Sub County/Facility monitor temperature during transportation of vaccines?
M13	Does the County/Sub County record temperature every morning and evening in the temperature monitoring chart?
M14	Does the County/Sub County/Facility monitor for the expiry of the vaccines?
M15	Has the Sub County/County monitored the Pfizer and Moderna vaccines for the 30 days expiry period after thawing?

Appendix 15: Monitoring and Supervision at Sub County Level – Nyamira County

Sub County	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Borabu	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Manga	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Masaba North	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Nyamira North	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Nyamira South	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Compliant	4	5	0	0	5	5	3	5	5	5	0	5	5	5	5
Non-Compliant	1	0	5	5	0	0	2	0	0	0	5	0	0	0	0

Appendix 16: Monitoring & Supervision at Facility Level – Nyamira County

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
Borabu	Kijauri Sub County Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mokomoni Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Amatierio Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kineni Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Endiba Health Centre	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Isoge Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kerumbe Dispensary	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Riontonyi Dispensary	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
	Nyandoche Ibere Dispensary	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	St Joseph's Nyansiongo Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mwongori Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyagacho Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Eturungi Dispensary	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
	Tindereti Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Manga	Kahawa Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Raitigo Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Ensakia Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Chepngombe Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mecheo Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyaronde Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Manga District Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Holsoms Nursing Home	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyangena Sub District Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Getare Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
	Tombe Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kiangoso Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Magombo Community Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Ikobe Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyakegogi Dispensary	Yes	Yes	Yes	Yes	X	No	Yes	Yes	Yes	Yes	Yes
	Bogwendo Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Gatuta Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Gesure Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Amaiga Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Ogango Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Gekano Mission Hospital	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Sirate Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kianungu Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Masaba North	Esani Sub District Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Gesima Sub County Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Masaba District Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Magombo Health Centre	Yes	Yes	X	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Girango Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mochenwa Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mong'oni Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyagancha Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Rigoma Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kambini Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyangori Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Karantini Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Geteni Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
Nyamira North	Nyamusi Sub District Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Ekerenyo Sub District Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Magwagwa Health Centre	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Etono Health Centre	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kenyoro Health Centre	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Esianyi Dispensary	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kerobo Health Centre	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Rianyambweke Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Orwaki Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyabweri Dispensary	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Riecheri Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kiamanyomba Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kemunchugu Dispensary	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kiomara Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Nyamira South	Chaina Dispensary	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Motagara Health Centre	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyakeore Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyamira County Referral Hospital	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Oasis Maternity and Nursing Home	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kinara Hospital	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Bosiango Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kenyanbi Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyangweta Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Igena Itambe Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Gianchore Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
	Mongorisi Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Tinga Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Ogango Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyamaiya Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kenyerere Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Riakinaro Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kenyenya Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Embonga Health Centre	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Ramba Health Centre	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyansangio Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Riongige Dispensary	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	Nyamwetureko Dispensary	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	Compliant	75	75	59	87	82	0	87	87	87	87	87
	Non-Compliant	12	12	28	0	5	87	0	0	0	0	0

KEY/DETAILS:

M1	Did the Facility receive any tablets for Covid-19 vaccine data entry?
M2	Has the facility staff been receiving airtime on time?
M3	Are the tablets in good working conditions?
M4	Has the County/Sub County/facility put in place to ensure patients report adverse effect
M5	Has the County/Sub County/facility received any Adverse effect booklets that are required to report adverse effects?
M6	Has the Sub County/facility experienced any instance of adverse effect?
M7	Does the County/Sub County/Facility monitor temperature during transportation of vaccines
M8	Does the County/Sub County record temperature every morning and evening in the temperature monitoring chart
M9	Does the County/Sub County/Facility monitor for the expiry of the vaccines?
M10	Does the County/Sub County/Facility monitor for the expiry of the vaccines?
M11	Has the county/Sub County/Facility been making use of the temperature monitoring tools?

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