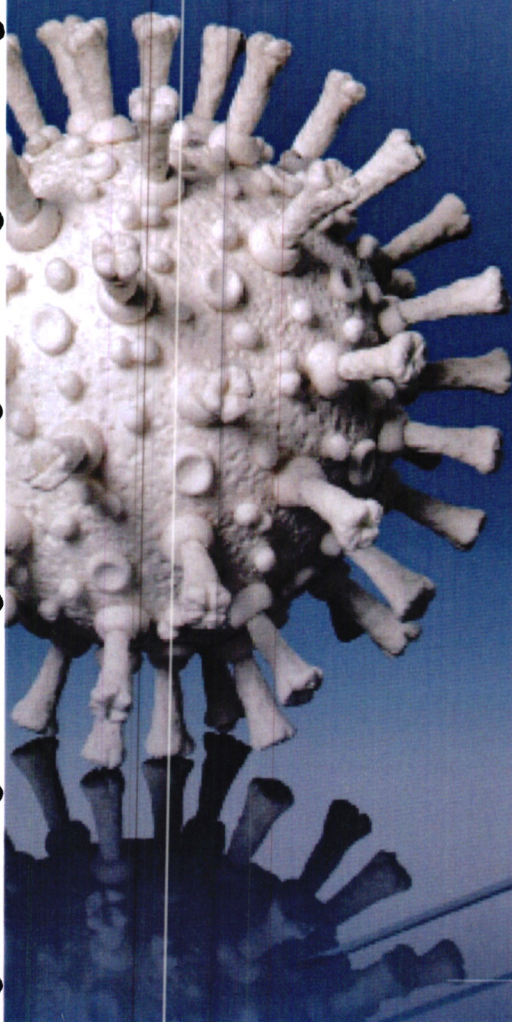


**SPECIAL AUDIT REPORT OF THE AUDITOR-GENERAL
ON
COVID 19 VACCINE ROLL OUT
FOR
NYANDARUA COUNTY
AS AT 31 March, 2022**

PAPERS LAID	
DATE	11/10/2022
TABLED BY	SENATE MAJORITY LEADER
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LIST OF ABBREVIATIONS

The following abbreviations are used in this Report

Abbreviation	Full Name
eLMIS	Electronic Logistics Management Information System
FIFO	First In, First Out
GOK	Government Of Kenya
HR	Human Resource
MOH	Ministry of Health
NVS	National Vaccine Store
NVIP	National Vaccines and Immunization program
RVS	Regional Vaccine Stores
SCVS	Sub-CountyVaccine Store
UNICEF	United Nations International Children's Emergency Fund
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 audit performed for the Covid-19 vaccines rollout in Nyandarua County. The audit involved the 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 the existing immunization structures for other common vaccines.

1.2 Audit Scope, Limitations and Mitigation

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

Challenges experienced during the audit included; most of the vaccinating facilities not maintaining adequate and complete vaccine inventory records. The audit Team put in place several measures to mitigate the challenges including 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 and evidence was collected through interviews, document reviews, Data Analytics, analysis of audit evidence among others. The audit was performed using International Standards of Supreme Auditing Institutions (ISSAIs).

1.4 Report Summary

1.4.1 Doses Received and Administered

Nyandarua County received 353,052 doses of various types of vaccines during the period under review. Out of the total Covid-19 Vaccine Doses received in the County, 270,844 doses were administered, while 29,228 vaccine doses were still in stock at the County as at the time of the audit cutoff date on 31 March, 2022 out of which 18,708 doses were expired. In addition, vaccines totaling 4,680 were either damaged or had gone to waste as at the 31 March, 2022. The balance of 48,300 doses represents unexplained deficit variance as at 31 March, 2022.

1.4.2 Budget

A review of the Nyandarua 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 Nakuru 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 Nyandarua Sub-County Stores and the facilities 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 and Sub-County stores with regards to non-adherence to cleaning procedures and availability of space for orderly issuance of vaccines.

1.4.5 Disposal of Vaccines

The special audit noted that a total of 23,388 vaccine doses had expired, damaged or had gone into waste. Out of the 23,388 vaccine doses, 4,680 had been disposed with other hospital waste while the balance of 18,708 vaccines were yet to be returned to the Regional Vaccines Store for disposal.

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. Nyandarua County Management explained that their trainings were undertaken through the assistance of the development partners. Document provided showed that the donor/ partners supported the County to the tune of Kshs. 5,590,929 000 on training and outreaches.

1.4.7 Coordination of Players

The coordination of the exercise was done by the Nyandarua County Covid-19 Vaccine Deployment and Vaccination Taskforce. However, the appointment letters and the minutes of the Task Force were not provided for audit review.

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, the Committee did not maintain minutes and attendance schedules to evidence their activities.

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. This impacted on the real time recording of information in the system and an unexplained variance (deficit) of 48,300 doses of vaccine valued at Kshs.29,884,475 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 Nyandarua County Government should work closely with the 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 Astra Zeneca-Oxford COVID-19 vaccine in March 2021 as part of the COVAX facility. This was followed by more vaccines such as Moderna, Johnson & Johnson, Pfizer and Sinopharm from other development partners. The Ministry of Health (MOH) launched a campaign and kicked off deployment plan for Covid-19 vaccines rollout on 5 March, 2021 with priority given to frontline health workers and essential staff including security personnel. According to the National Covid-19 vaccine deployment plan, the first vaccine deployment 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.

Nyandarua County received its first consignment of 3,000 Astra Zeneca-Oxford COVID-19 vaccines in March 2021 through Nakuru Regional Vaccines Store. The vaccine doses were first administered at JM Kariuki Memorial County Referral Hospital before being rolled out to the facilities in the five (5) Sub-Counties. As that 31 March, 2022, the special audit team established that the County had received 353 052 vaccines doses as tabulated below:

Type of Vaccine	Number of Doses
Moderna	56,518
Janssen (Ad26.COVS2_S)	37,000
Oxford/AstraZeneca	145,506
Pfizer	114,028
Total	353,052

2.1 Objective of the Audit

The primary objective of the audit was to determine the efficiency and effectiveness of the Covid-19 vaccine rollout in Nyandarua County. This was achieved through; review of budget, sources of the vaccines, storage, distribution, utilization and disposal of the vaccines, human resource, 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

<p>1. Budget</p>	<ul style="list-style-type: none"> • 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.
<p>2. Sources of Vaccines</p>	<ul style="list-style-type: none"> • 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 from the different sources as well as shelf life of vaccines and prices where applicable • Consider whether vaccines came with syringes or not and the effect. • Shelf life of vaccines (expiry) • Batch Numbers • Storage of defective vaccines/ expired • Recording of vaccines • Government clearance process for vaccines from outside the country • WHO rating of effectiveness of various vaccines • Cost vs budget
<p>3. Storage of Vaccines</p>	<ul style="list-style-type: none"> • 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 vaccines/Syringes • Cost Vs Budget
<p>4. Distribution</p>	<ul style="list-style-type: none"> • How vaccines were distributed; logistics • Quantities of vaccines distributed • Proportion of vaccines distributed per region • Basis of quantities and proportions distributed e.g population • Storage issues

	<ul style="list-style-type: none"> • Recording and accountability • Cost vs budget
5. Utilization	<ul style="list-style-type: none"> • Awareness creation • Intended/ target population • Uptake per type of vaccine • Rate of transition from first to second dose • Possibility of delayed administration of second dose • Matters relating to booster doses • Numbers expired • Recording and Accountability i.e vaccines received, utilized and balance and expired • Cost vs budget
6. Disposal	<ul style="list-style-type: none"> • Number of vaccines disposed • Criteria for disposal • Recording and accountability • Reports and feedback • Reconciliation of what was procured, utilized and unused and disposal • Costs vs budgets
7. Human Resource Matters (National and County Staff)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Who are the key players? • Are the roles and responsibilities of the players clear? • Is there a framework for coordination and communication of players? • Approval and appointment of taskforce and committees • Costs vs budgets
9. Monitoring and Supervision	<ul style="list-style-type: none"> • Is there a framework for coordination and communication 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) Accuracy and completeness of inventory records. The audit team corroborated information in the physical records such as the vaccines stock ledgers with information in the Chanjo System.
- ii) Vaccines damages and wastages not recorded by the vaccinating facilities. This was mitigated by making reference to the vaccine wastages uploaded in the chanjo system.
- iii) Manual records in the facilities were found to be inaccurate. Under such circumstances the audit team solely relied on the Chanjo system data which is the primary system.
- iv) Data not updated in the Chanjo System and manual records were incomplete therefore making comparison and confirmations difficult.

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. During the entry meeting uniform and detailed work plans were developed and adopted which were then 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 comparative analysis with records at the regional stores, Sub-County and vaccinating facilities.

2.4.3 Physical Verification

The Audit Team carried out physical verifications in the five (5) Sub-County stores and 83 vaccinating facilities in the County as detailed in **Appendix 1**.

2.4.4 Interviews

The Audit Team interviewed senior officers from the Nyandarua County Government to clarify the various issues to assist in making an informed report as detailed below:

Table 2 - Interviews

	Name	Organization	Designation
1.	Sarah Ndegwa	Nyandarua County	Chief Officer (CO) Health
2.	Sophia Otieno	Nyandarua County	County EPI Cordinator(CEPIC)
3.	Dr. Martha Mwathi	Nyandarua County	CDH
4.	Isaac Chege	Nyandarua County	Disease Surveillance
5.	Ms Susan	Nyandarua County	Okaluo Sub-County EPI
6.	Mr. Nderitu	Nyandarua County	Ndaragwa Sub- County EPI
7.	Mr. Wamai	Nyandarua County	Olojoroko Sub- County EPI
8.	Mr. Maina	Nyandarua County	Kiripiri Sub- County EPI
8	Mr. Mwangi	Nyandarua County	Kinanagop Sub- County EPI

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 and

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 Nyandarua Regional Store Sub-CountyStores 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 institutions controls of vaccines
- v. Recommendations
- 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 Country 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 2021/2022 financial year 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 states that the accounting officer shall ensure that the draft estimates relating to her or his department are prepared in conformity with the Constitution, the Act and these Regulations. Management however, indicated that the expenditures were met by Partners which the available document indicate donor support of Kshs. 5,590,929 with regards to training and outreaches.

3.1.2 Sources of Vaccines

The County received 353,052 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 the following anomalies as summarized below and detailed in **Appendix 2**:

Table 3- Sources of Vaccines

Observation/Findings	Number of Compliant (Counties and Sub-Counties)	Number of Non-Compliant (Counties and 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	5
Lack of budgetary support for COVID-19 from donors/National government	5	0

Observation/Findings	Number of Compliant (Counties and Sub-Counties)	Number of Non-Compliant (Counties and Sub-Counties)
Failure to spend budgetary support on COVID-19 vaccination.	5	0
Failure by the subCounty/Facility to finance Distribution of Vaccines and costs related to Covid-19 vaccination.	0	5
Failure by the sub county/Facility to finance Outreaches, Trainings.	0	5

3.2 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:

- 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
- 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.
- Oxford/AstraZeneca should be maintained at 2 °C to 8 °C
- 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 Sub-County and facility stores.

3.2.1 Storage at the County and Sub-Counties Stores

A review of documents provided for audit and physical verification carried out at the 5 Sub-Counties Stores revealed issues as summarized in Table 4 and detailed in **Appendix 3**.

Further, Nyandarua County did not have a store of its own. Consequently, the five Sub-Counties collected vaccines directly from the Regional Store.

Table 4 – Storage at the County and Sub-County Stores

Criteria	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.	2	3
Broken or damaged items are withdrawn from usable stock and stored separately	1	4
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 FIFE 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.	0	5
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	0	5

Criteria	Number of Compliant Sub-County Stores	Number of Non-Compliant Sub-County Stores
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	0	5
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 observed that the Nyandarua County Sub-Counties Stores largely complied with storages conditions, except for cleaning procedures and availability of space for orderly issuance of vaccines.

3.2.2 Storage at the Facilities Level

A review of documents provided for audit and physical verifications carried out at the 83 facilities revealed issues as summarized in table 5 and detailed in **Appendix 4**.

Table 5: Storage at Facility Level

Criteria	Number of Compliant Facilities	Number of Non-Compliant Facilities
Cold Chain and Supply Logistics		
Store has sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	83	0
Broken or damaged items are withdrawn from usable stock and stored separately	29	54
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	83	0
All COVID-19 vaccines stored off the floor	83	0
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	79	4
The vaccines issued on a FIFE method and guided by the expiry date	82	1
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	78	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	81	2
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	0	83
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	0	83
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	0	83
Storage Conditions		
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	82	1

Criteria	Number of Compliant Facilities	Number of Non-Compliant Facilities
Cold Chain and Supply Logistics		
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.	83	0
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	83	0

In view of the foregoing, the Special Audit Team observed that though Nyandarua COVID-19 vaccinating facilities largely complied with the storage requirement, a significant number of the facilities did not have written procedures on sanitation, clean-up of any spillage and maintain chance of cleaning logs.

3.3 Distribution of Vaccines

3.3.1 Distribution at County Level

Documents provided for audit revealed that Covid-19 Vaccines on arrival in the Country ideally should be transferred to the Central Stores which in turn distributes to the regional stores. The regional stores were then to distribute to the County Stores, which in turn distributes to Sub-County Stores and to Facilities. However, this was not the case for Nyandarua County. The County does not have a County Store; the vaccines are dispatched directly from the Regional Store in the Chanjo System to the 5 Sub-Counties Stores who in turn distributes to the facilities from where the vaccines are dispensed.

The 353,052 vaccines received in Nyandarua County as at 31 March, 2022 were distributed as summarized in table 6 and detailed in **Appendix 5**:

Table 6 – Distribution at County Level

Vaccine Type	Distributed to County Stores	Distributed to Nyandarua Sub-County Stores	Distributed to Facilities in Nyandarua	In Stock	Unexplained Variance
Moderna	N/A	56,518	52,104	-	4414
Janssen		37,000	26,939	4180	5881
Oxford/AZ		145,506	124,244	3966	17296
Pfizer		114,028	80,025	2520	31483
Total		353,052	283,312	10,666	59074*

*59,074 represents unexplained stock movement.

3.4 Utilization of Vaccines

3.4.1 Accounting for the 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, 353,052 vaccine doses had been received in the County. Documents provided for audit revealed that there were 83 vaccinating facilities, all of which were mapped in the Chanjo system.

3.4.2 Utilization of Vaccines at the Sub-County Vaccine Stores

Out of the 353,052 Covid-19 vaccine doses received in the facilities 270,844 vaccine doses were administered, 29,228 were in stock while the balance of 4,680 was either damaged or had gone to waste as at 31 March, 2022 as summarized below in table 7 and detailed in **Appendix 6**. There was however an unexplained variance of 48,300 vaccine doses valued at Kshs. 29,884,475.

Table 7 – Utilization of Vaccines

Vaccine Type	Doses Received	Doses Administered	Doses in Stock	Doses Expired	Doses Damaged	Doses Wasted	Unaccounted-for Doses	Estimated Average Price	Estimated Cost
Janssen	37,000	25,080	6,967	1063	50	150	3,690	753	2778570
Moderna	56,518	44,785	0	643	49	882	10,159	505	5130295
Oxford/AstraZeneca	145,506	127,660	736	9996	97	2,077	4,940	446	2203240
Pfizer	114,028	73,319	2817	7,006	95	1,280	29,511	670	19772370
Total	353,052	270,844	10,520	18,708	291	4,389	48,300		29,884,475

3.4.3 Administered Doses

The Chanjo System indicates that a total of 276,551 doses had been administered in the County between 1 March 2021 and 31 March, 2022. The vaccine doses administered are as summarised below:

Vaccine Type	First Doses	Second Doses	Booster Doses	Total
Janssen (Ad26.COVS-5)	25,091			25,091
Moderna	25,711	19,988	232	45,931
Oxford/AstraZeneca	74,310	51,400	2,799	128,509
Pfizer	53,500	21,585	1,935	77,020
Total	178,612	92973	4966	276,551

The disparity between the administered doses of 270, 844 in the trackers used during audit and the administered doses from the Chanjo System of 276,551 for the same time period (1 March, 2021 and 31 March, 2022) could be due to failure to update the Chanjo System on real time.

3.4.4 Expired Doses

These are vaccine doses that had not been administered by the manufactures use by date indicated on the vials totalling to 18,708 doses none of which had been disposed off by the time of the special audit in May 2022. Expired doses from the facilities were reported to have been sent to Sub-County stores, which in turn were to transport the same to the Regional Vaccines Store.

3.4.5 Damaged Doses

These were vaccines that were not administered as the vaccine vial had been damaged. All the 291 damaged vaccine doses in Nyandarua County had been disposed off by the time of the special audit in May 2022.

3.4.6 Wasted Doses

These were vaccine doses that were not administered due to failure to utilize within the stipulated timelines upon opening of the vial. 4,389 vaccine doses were reported as wasted in the County and had been disposed off by the time of the special audit in May 2022.

3.4.7 Unexplained Vaccine Variances

Documents provided for audit revealed that 353,052 vaccine doses were received in the County. However, reconciliation of the vaccine received, administered, in stock, expired, damaged and wasted revealed an unexplained variance of 48,300 doses valued at Kshs 29,884,475

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

- a. Wastages not reported at the facilities,
- b. Vaccines doses utilized during the outreaches or Chanjo System downtimes especially during the peak period of vaccine uptake may not have been subsequently updated.
- c. Vaccination data was not entered accurately, causing over-administration in some batches and under-administration in others.
- d. Vaccines administered were not immediately posted in Chanjo system and people vaccinated were temporary recorded in manual registers to be posted later. When posting, the batch numbers physically administered would be exhausted in the system or expired therefore any batch number of the same vaccine would be picked the one physically vaccinated.

3.5 Disposal of Vaccines

The special audit noted that a total of 18,708 expired doses had not been disposed off as at the time of the audit. However, 4,680 vaccine doses damaged and wasted had been disposed.

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 not being an environmental nor a health threat. The findings on disposal of vaccines are as summarized below in Table 8 and detailed in **Appendix 7 and 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 waste management plan	5	0	83	0
Lack of budget for disposal of COVID-19 waste	0	5	0	83
Lack of NEMA clearance when transporting COVID-19 waste from one county to another or from one region to another for stores without NEMA approved Waste Disposal Site.	0	5	N/A	N/A
Failure to record or to account for vaccine vials in the vaccine inventory report	0	5	42	41

Observation/Findings	Sub-County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
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	0	5	0	83
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.	5	0	83	0
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	83	0
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	83	0

Observation/Findings	Sub-County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Disposal of vaccine vials (both wasted and expired) by the Healthcare facility without following 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)	N/a	N/A	11	72
Failure to have a pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical	N/a	N/A	50	33
Lack of an incinerator, burning chamber or burning pit.	N/a	N/A	12	71

In the circumstance, the undisposed expired vaccines may pose a health risk to the general public and the health officers. Further, the audit revealed that disposal of the 4,684 of the damaged and wasted vaccines in 72 out of the 83 facilities did not comply with the guidelines provided by WHO on waste management of used COVID-19 vaccines vials and ancillary supply. Further, all the 5 Sub-County stores and 41 of the 83 vaccinating facilities failed to record or account for vaccines vials in the vaccine inventory report.

3.6 Human Resource Matters

3.6.1 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 level personnel in the National and County Governments were conducted. Nyandarua County indicated that training of County Health Management Team (CHMT) and Sub-County Health Management Team (SCHMT) was done. CHMT and SCHMT were then to train all the staff at the facility level on matters of vaccines rollout. The trainings were conducted to the persons who were administering the vaccine who included Nurses, vaccinators and data entry clerks. In addition, there was an IT person for the Chanjo System, Health promotion for awareness purposes. All these was undertaken through the support of partners/donors.

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 **Appendix 9 and 10**.

Table 9– Training at County Level

Observation/Findings	Sub-CountyStores		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
Counties and Sub- Counties Health Management team 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	5	0	N/A	N/A
Lack of a specific training budget for COVID -19 immunization	0	5	N/A	N/A
Variance between budget and actual expenditure for training on COVID-19 vaccination.	0	5	N/A	N/A

Observation/Findings	Sub-CountyStores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of details including designation, attendance dates, financier of staff at national/county/Sub County/facility	5	0	83	0
Lack of adequate staff to carry out the COVID-19 vaccination	N/A	N/A	48	35
Lack of separation of roles and duties	N/A	N/A	47	36
Lack of prior training on COVID – 19 including vaccine administration	N/A	N/A	83	0
Failure to use trained staff to train other staff	N/A	N/A	50	33

However, though training was seen to have been done, the Special Audit Team could not establish the adequacy of Human Resources engagement in the COVID-19 vaccines roll out programme due to

- i) Incomplete records especially the ledgers, such that it was not easy to verify or confirm transactions that could not be traced in the Chanjo system.
- ii) They were cases where facilities were not receiving vaccines in the Chanjo systems though they had physically received the vaccines and also cases of facilities borrowing vaccines from each other outside the Chanjo system without proper recording in the ledgers.
- iii) At the facility level, not all staff in charge of the facility were aware of 30 days expiry for Pfizer and Moderna after thawing but were instead depending on the manufacturers date while for Janssen they were going for manufacturing not knowing the new expiry period after thawing. This poses a major risk as these vaccines can be administered when they have already expired.

3.7 Coordination of Players

3.7.1 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 Counties, 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-CountyStores		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	2	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	5	0	0	N/a	N/A
Lack of directives/advisory/instruction from higher levels in the COVID – 19 Vaccine management	0	5	0	83	0
Lack of upward/downward communication in COVID – 19 Vaccine Roll out	0	5	0	83	0
Lack of committee meetings	0	5	3	N/A	N/A
Failure to carry out advocacy	0	5	0	83	0
Failure to carry out mobilization	0	5	0	79	4
Failure to carry out mobilization outreaches	0	5	0	79	4

From the foregoing, 2 out of 5 Sub-Counties which did not have any documentation on the formations of the taskforce while 3 Sub-Counties did not have any minutes to confirm the meetings thus we could not establish compliance with the coordination role in these counties.

3.8 Monitoring and Supervision

3.8.1 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 11 below and detailed in **Appendices 14, 15 and 16.**

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

Observation/Findings	County		Sub-CountyStores		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	N/A	N/A
Lack of clear terms of reference for the M&E committee?	1	0	5	0	N/A	N/A
Lack of reports of the M & E committee	1		3	2	N/A	N/A
Recommendation of the monitoring and evaluation team not implemented?	0	1	0	5	N/A	N/A
Lack tablets from the Ministry	1	0	5	0	69	14
Tablet not in good working conditions	0	1	5	0	59	24
Personnel involved in the rollout not facelifted by air time	1	0	1	4	51	32
Lack of mechanism/measures where patients could report adverse effect after vaccination.	1	0	5	0	81	2
Lack of Adverse effect booklet etc. that are	N/A	N/A	5	0	83	0

Observation/Findings	County		Sub-CountyStores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
required to report adverse effects						
Failure to monitor temperature during transportation of vaccines	N/A	N/A	5	0	61	22
Failure to record temperature every morning and evening in the temperature monitoring chart/tool	N/A	N/A	5	0	81	1
Failure to monitor for the expiry of the vaccines	N/A	N/A	5	0	81	2
Failure to monitor the Pfizer and Moderna vaccines for the 30 days expiry period after thawing	N/A	N/A	5	0	64	19

In view of the above, the 22 facilities failed to monitor temperature during transportation of vaccines and as a result it was not be possible to ascertain deviations beyond the acceptable standards set by WHO. Further, of the 83 facilities, 69 facilities had received tablets from the MOH for use in recording vaccine receipts and administration. Of the 69 facilities that had received the tablets, only 59 facilities reported their tablets as functional and being put into use. 51 facilities reported not having received the monthly airtime. Similarly, the 5 Sub-CountyStores had each received tablets from MOH and all were in good working condition. Four of the 5 Sub-Counties personnel indicated not having received the monthly airtime. Consequently, there was inconsistencies in the release of the monthly airtime for the tablets in the facilities and the Sub-Counties.

4.0 IRREGULARITIES AND WEAKNESSES IN MANAGEMENT and CONTROL OF VACCINES IN INSTITUTIONS

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 Nyandarua County and Sub-County levels;

Table 12: Irregularities and Weaknesses at the County and Subcounty stores

	Irregularities and Weaknesses	Recommendations
1	Poor record keeping in management of vaccines at the store and the facilities.	Have records keeping personnel at the stores and let them monitor the facilities. Train nurses at the facilities on importance of keeping records and navigating the Chanjo system.
2	Non recording of expired, damaged, and wasted vaccines	Proper recording of expired, damaged, and wasted vaccines.
3	Lack of a county budget on Covid-19 programs and action plans.	The county should have a budget specifically for managing Covid-19 action plans.
4	Non-facilitation of the teams at facilities and Sub-Counties with airtime, internet bundles, and subsistence allowances.	Management should ensure teams participating in the vaccination program are well facilitated to enable them perform their functions effectively.
5	Facilities have expired vaccines in the fridge	Need for proper training on vaccine management especially monitoring of Pfizer and Moderna
6	unlimited access control the Chanjo system especially during the outreaches were the vaccinating teams could administer the vaccines using credentials of a facility even when such a facility did not have any vaccines in the Chanjo system.	Need to ensure that access to the Chanjo systems is only through the in charge of a facility and also measures to ensure that a facility can only vaccinate when it has vaccines in the chanjo system.
7	There was no segregation of duties at the facilities where the officer in charge was responsible for receiving, administering and entering data in the system while still undertaking their normal duties.	This was mainly attributed to inadequate staff at the facility. There is need to provide for adequate resources in such rollouts.
8	Though monitoring was seen to have been done, it was mainly on tracking the	There is need to monitor the programme as a whole and ensure that challenges identified

	Irregularities and Weaknesses	Recommendations
	progress of targets set for the uptake of the vaccines but not on other activities of the rollout programme.	are well addressed in order to achieve the overall objective of the programme.

5.0 CONCLUSION

The objective of the special audit was to determine the efficiency and effectiveness of the COVID-19 vaccine roll out in Nyandarua 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 administration of vaccines.

There was unexplained variance of 48,300 vaccine doses valued at Kshs. Kshs.29,884,475 based on average vaccines cost during the period.

The County should 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 Nyandarua County.


CPA Nancy Gathungu, CBS
AUDITOR-GENERAL

Nairobi

29 June, 2022

6.0 APPENDICES

Appendix 1: Vaccinating Facilities in Nyandarua County

Sub- County		Facilities Under Sub-County	Defined in Chanjo System
Kinangop Sub-County	1	Engineer County Hospital	Yes
	2	Munyaka Dispensary	Yes
	3	Gathara Dispensary	Yes
	4	Mutarakwa Dispensary	Yes
	5	Bamboo Health Centre	Yes
	6	Kenton Dispensary	Yes
	7	Heni Health Centre	Yes
	8	Githabi Dispensary	Yes
	9	Koinange Dispensary	Yes
	10	Haraka Dispensary	Yes
	11	Karangatha Health Centre	Yes
	12	Rwanyambo Dispensary	Yes
	13	Njabini Health Centre	Yes
	14	Weru Health Centre	Yes
	15	Kahuru Dispensary	Yes
	16	Murungaru Health Centre	Yes
	17	Mkungi Dispensary	Yes
	18	Mikaro Dispensary	Yes
	19	Nandarasi Dispensary	Yes
	20	Kitogo Dispensary	Yes
	21	Kwabekenya Dispensary	Yes
	22	Ndunyu Njeru Dispensary	Yes
	23	North Kinangop Catholic Hospital	Yes
Kipipiri Sub-County			
	24	Gatondo Dispensary	Yes
	25	Ndemi Health Centre	Yes
	26	Wanjohi Health Centre	Yes
	27	Kiburuti Dispensary	Yes
	28	Geta Bush Health Centre	Yes
	29	Geta Forest Dispensary	Yes
	30	Kiambogo Dispensary	Yes
	31	Mikeu Dispensary	Yes
	32	Lereshwa Dispensary	Yes
	33	Kimathi Dispensary	Yes
	34	Manunga Health Centre	Yes
	35	Munoru Dispensary	Yes
	36	Old Mawingu Health Centre	Yes
	37	Turasha Dispensary	Yes

Sub- County		Facilities Under Sub-County	Defined in Chanjo System
	38	Mumui Dispensary	Yes
Olkalou Sub-County			
	39	Kanjuiri Dispensary	Yes
	40	New Tumaini Health Centre	Yes
	41	Ngorika Health Centre	Yes
	42	NYS Tumaini.	Yes
	43	Mirangine Health Centre	Yes
	44	Kihuho Dispensary	Yes
	45	Kamuchege Dispensary	Yes
	46	Kaimbaga Health Centre	Yes
	47	Captain Dispensary	Yes
	48	Gichungo Dispensary	Yes
	49	Mukindu Dispensary	Yes
	50	JM Kariuki Memorial County Referral Hospital	Yes
	51	Beyond Zero	Yes
	52	Ruriii Dispensary	Yes
	53	New Mawingu Health Centre	Yes
	54	Sharom Dispensary	Yes
	55	The Pine Hospital	Yes
Ndaragwa Sub-County	56	Baari Health Centre	Yes
	57	Kahembe Health Centre	Yes
	58	Kamuiruri Dispensary	Yes
	59	Subuku Dispensary	Yes
	60	Kiriogo Dispensary	Yes
	61	Uruku Dispensary	Yes
	62	Ndaragwa Health Centre	Yes
	63	Kianjogu Dispensary	Yes
	64	Mbuyu Dispensary	Yes
	65	Leshau Pondo Health Centre	Yes
	66	Shauri Health Centre	Yes
	67	Ndivai Dispensary	Yes.
	68	Kirima Dispensary	Yes
	69	Pesi Dispensary	Yes
	70	Shamata Health Centre	Yes
	71	Mastoo Dispensary	Yes
	72	Kihuha Dispensary	Yes
OloroOrok Sub-County	73	Maina & Mwangi Health Centre	Yes
	74	Kasuku Health Centre	Yes
	75	Chamuka Dispensary	Yes
	76	Gatimu Health Centre	Yes

Sub- County		Facilities Under Sub-County	Defined in Chanjo System
	77	Ngano Health Centre	Yes
	78	Nyairoko Dispensary	Yes
	79	Ol Bollossat Dispensary	Yes
	80	Silibwet Health Centre	Yes
	81	Charagita Dispensary	Yes
	82	Oraimutia Dispensary	Yes
	83	Kanguu Dispensary	Yes

Appendix 2: Budget at County and Sub-CountyLevel – Nyandarua County

Sub-County	B1	B2	B3	B4	B5	B6	B7
Ndaragwa	No	Yes	Yes	Yes	No	No	Yes
Ol Joroorok	No	Yes	Yes	Yes	No	No	Yes
Kinangop	No	Yes	Yes	Yes	No	No	Yes
Kipipiri	No	Yes	Yes	Yes	No	No	Yes
Ol-Kalou	No	Yes	Yes	Yes	No	No	Yes
Compliant	0	5	5	5	0	0	5
Non-Compliant	5	0	0	0	5	5	0

KEY/DETAILS:

B1	Was 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?
	Did the Sub County/Facility finance the following costs related to Covid-19 vaccination;
B4	i) Distribution of Vaccines/
B5	ii) Outreaches
B6	iii) Trainings
B7	iv) Acquisition of auxiliary facilities (Temperature monitoring tools, Adverse effect reporting booklet, Needles etc) ?

Appendix 3: Storage at Sub-CountyLevel – Nyandarua County

Sub-County	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
Ndaragwa	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Ol-Joroorok	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Kinangop	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Kipipiri	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Ol-Kalou	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	5	2	1	5	5	5	5	5	5	0	0	0	0	5	5	5	5	5	5
Non-Compliant	0	3	4	0	0	0	0	0	0	5	5	5	5	0	0	0	0	0	0

KEY/DETAILS:

S1	Does the building have sufficient security to prevent loss of Covid 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 FIFO 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	Is 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	Does 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 No.) and populate the remarks and hyperlink in the remarks column a paper tabulating the results of the count.

Appendix 4: Storage at Facility Level – Nyandarua County

Sub-Counties	Facilities	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
Kinangop	Bamboo Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Engineer County Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Githabai Dispensary	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Gathara Dispensary	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Haraka Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Heni Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kahuru Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Karangatha Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kenton Gitwe Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kitogo Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Koinange Dispensary	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes
	Kwambekanya Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Mikaro Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Mkungi Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Munyaka Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Murungu Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Mutarakwa Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
Nandarasi Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
Ndunyu Njeru Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
Njabini Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
North Kinangop Catholic Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
Rwanyambo Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
Weru Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
Kipipiri	Gatondo Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Geta Bush Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes

Sub-Counties	Facilities	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Geta Forest Dispensary	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes
	Kiambugo Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kiburuti Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kimathi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Lereshwa Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Manunga Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Mikeni Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Mumui Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Munoru Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Ndemi Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Old Mwingo Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Turasha Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Wanjohi Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
Ndaruga	Baari Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kahembe Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kamiruri Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kianjogu Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kihuha Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kirima Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Kiriogo Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Leshau Pondo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Mastoo Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Mbuyu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Ndaruga Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Ndivali Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
	Pesi Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes

Sub-Counties	Facilities	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Shamata Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
	Shauri Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Subuku Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Uruku Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Ol Joro-oroK	Charagita Dispensary	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes
	Chamuka Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kasuku Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Gatimu Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kanguu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Maina and Mwangi Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Ngano Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
	Nyairoko Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Ol-bolosat Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
	Oraimuta Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Silibwet Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Ol-Kalou	Beyond Zero	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Captain Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kaimbaga Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Kanjiri Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
	Ngorika Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	NYS Tumaini Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Sharom Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Gichungo Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	J.M kariuki Referral Hospital	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kamuchege Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Kihuhò Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes

Sub-Counties	Facilities	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Mirangine Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Mukindu Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	New Mawingu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	New Tumaini Health Centre	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Rurii Dispensary	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	The Pine Hospital	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Compliant	83	29	83	83	79	82	78	81	0	0	81	83
	Non-Compliant	0	54	0	0	4	1	5	2	83	83	2	0

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 yes, are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?

Appendix 5: Receipts at Nyandarua County Vaccines Stores Up to March, 2022

Batch	Antigen	Received	Comment	Adjuste Receipts
202E21A - Janssen (Ad26.COv2-S)	Janssen	2400		2400
XE442- Janssen (Ad26.COv2-S)	Janssen	17700	In the system 3,000 doses were received while in the order sheet and ledger indicates 1500 doses dispatched and received	16200
XE443 - Janssen (Ad26.COv2-S)	Janssen	1800		1800
XE528 - Janssen (Ad26.COv2-S)	Janssen	9700		9700
ACB7168 - Janssen (Ad26.COv2-S)	Janssen	6400		6400
217D21A - Janssen (Ad26.COv2-S)	Janssen	300		300
XE436 - Janssen (Ad26.COv2-S)	Janssen	200		200
210217 - Oxford/AstraZeneca	Oxford/AstraZeneca	21540	The tracker indicated 9540 doses whereas 7200 doses were received	19200
210304 - Oxford/AstraZeneca	Oxford/AstraZeneca	7590		7590
ACB3580 - Oxford/AstraZeneca	Oxford/AstraZeneca	10800	The tracker indicated 10800 doses were received while the ledgers and order sheets indicated 5400	22200

Batch	Antigen	Received	Comment	Adjuste Receipts
NH0239 - Oxford/AstraZeneca	Oxford/AstraZeneca	12470	Tracker captured 12470 doses but in the ledgers 13970 doses were confirmed as received	13970
NJ0139 - Oxford/AstraZeneca	Oxford/AstraZeneca	5990	Ledgers show 6190 doses were received while tracker 5990 doses	6190
NL0251 - Oxford/AstraZeneca	Oxford/AstraZeneca	11500	Tracker indicated 11500 doses as received but the physical ledgers indicated 10100 were received	10100
NN0195 - Oxford/AstraZeneca	Oxford/AstraZeneca	2720		2720
210152 - Oxford/AstraZeneca	Oxford/AstraZeneca	4980		4980
210180 - Oxford/AstraZeneca	Oxford/AstraZeneca	8300		8300
4121Z255 - Oxford/AstraZeneca	Oxford/AstraZeneca	500		500
AB0024 - Oxford/AstraZeneca	Oxford/AstraZeneca	2500		2500
4120Z030 - Oxford/AstraZeneca	Oxford/AstraZeneca	17000		17000
4120Z010-Oxford/AstraZeneca	Oxford/AstraZeneca	2000		2000
ABW4805-Oxford/AstraZeneca	Oxford/AstraZeneca	7900		7900
210005-Oxford/AstraZeneca	Oxford/AstraZeneca	4300		4300
PV46707-Oxford/AstraZeneca	Oxford/AstraZeneca	8560		8560
ABY9147-Oxford/AstraZeneca	Oxford/AstraZeneca	2000		2000
PV46704-Oxford/AstraZeneca	Oxford/AstraZeneca	5496		5496
940906 - Moderna	Moderna	10,360		10,360

Batch	Antigen	Received	Comment	Adjuste Receipts
019F21A - Moderna	Moderna	32,662	The manual register shows 1050 more doses were received	33,712
050E21A - Moderna	Moderna	22736	In the tracker 22736 while the physical ledgers 12,446 doses were received	12,446
32131BD - Pfizer	Pfizer	26,958		26,958
34015BD - Pfizer	Pfizer	31,590		31,590
FG3532 - Pfizer	Pfizer	22186	Tracker indicated that 4680 doses were received while in the ledger 2340 doses were received; 2340 doses were after 31 March	19,846
FL3208 - Pfizer	Pfizer	16560	The ledger indicates 8190 doses while tracker shows 7020 doses were received	17,550
FT5331 - Pfizer	Pfizer	13104	Tracker indicates 13104 doses were received physical ledger 13404	13,404
FJ8759 - Pfizer	Pfizer	4,680		4,680
	TRACKER TOTAL	355,482	ADJUSTED TOTAL	353,952

DOSES RECEIVED BY NYANDARUA COUNTY STORES PER ANTIGEN, BEFORE AND AFTER ADJUSTMENT		
Antigen	Sum of Received	Sum of Adjusted Receipts
Janssen (Ad26.COV2)	38,500	37,000
Moderna	65,758	56,518
Oxford/AstraZeneca	136146	145,506

Pfizer	115,078	114,028
Grand Total	355,482	353,052

Appendix 6 – Utilization at Nyandarua County Facilities as at 31 March, 2022

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
Janssen (Ad26.COv2)	Engineer County Hospital	800	891		35			-126
	Gathara Dispensary	50	26		50			-26
	Old Mawingu Health Centre	425	299		100			26
	Mbuyu Dispensary	370	250		60		53	7
	Silibwet Health Centre (Nyandarua West)	469	398		204			-133
	Olborosat Dispensary	450	132		309			9
	Olaimutia Dispensary	300	218		30			52
	Ngano Health Centre	200	66		70			64
	Kasuku Health Centre	100	146		50		9	-105
	New Tumaini Health Centre	465	491		5			-31
	Charagita Dispensary	460	110			30		320
	Tumaini National Youth Service Dispensary	220	190			10		20
	Weru Health Centre (Nyandarua South)	200	220	45				-65
	Maina & Mwangi Health Centre	0	143				10	-153
	Kanguu Dispensary	50	33				5	12
	Sharom Dispensary	110	110				10	50
New Mawingu Health Centre	150	182					15	-47

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Mirangine Health Centre	340	256				2	82
	Mukungu Dispensary	50	40				6	4
	North Kinangop Catholic Hospital	450	372	10				68
	Njabini Health Centre	900	1188	50				-338
	Ndunyu Njeru Dispensary	450	338	45				67
	Nandarasi Dispensary	150	180	10				-40
	Murungaru Health Centre	600	514	115				-29
	Kitogo Dispensary	200	171	10				19
	Karangatha Health Centre	300	513	192				-405
	Wanjohi Health Centre	0	518	100				-618
	Munoru Dispensary	250	238	40				-28
	Mumui Dispensary (Githioro)	150	86	40				24
	Manunga Health Centre	1050	819	50				181
	Kimathi Disp. Kipipiri Sub County	50	69	15				-34
	Gatondo Dispensary (Kipipiri)	250	277	50				-77
	Geta Bush Health Centre	500	396	130				-26
	Kiambogo Dispensary (Nyandarua South)	100	107	25				-32
	Baari Health Centre	600	343	240				17
	Uruku Dispensary	100	149	10				-59
	Subuku Dispensary (Nyandarua North)	1000	932	300				-232
	Shauri Dispensary	200	280	70				-150
	Shamata Health Centre	515	396	210				-91

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Pesi Dispensary	210	113	90				7
	Ndivai Dispensary	250	121	90				39
	Ndaragwa Health Centre	625	509	275				-159
	Mastoo Dispensary	275	219	5				51
	Leshau Pondo Health Centre	550	423	250				-123
	Kiriogo Dispensary	105	9	70				26
	Kirima Dispensary	445	260	80				105
	Kihuha Dispensary	150	94	60				-4
	Kianjogu Dispensary	200	134	10				56
	Nyairoko Dispensary	150	256	40				-146
	The Pine Hospital	300	245	65				-10
	Captain Dispensary	225	259	50				-84
	Kihuho Milangine Dispensary	160	103	65				-8
	Kanjuri Dispensary	500	400	5				95
	Gichungo Dispensary	475	463	5				7
	JM Kariuki Memorial County Referral Hospital	1550	2153	20				-623
	Koinange Dispensary	50	125					-75
	Githabai Dispensary	150	181					-31
	Heni Dispensary	150	238					-88
	Kenton Dispensary	100	116					-16
	Bamboo Health Centre	1100	1272					-172
	Rwanyambo Dispensary	450	215					235
	Haraka Dispensary	100	74					26

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Mikaro Dispensary	310	198					112
	Munyaka Dispensary	500	481					19
	Kahuru Dispensary (Nyandarua South)	490	521					-31
	Gatimu Health Center	150	122					28
	Chamuka Dispensary	250	261					-11
	Kahembe Health Center	400	329					71
	Kamiruri Dispensary	250	95					155
	Ndemi Health Centre	450	205					245
	Lereshwa Dispensary	100	77					23
	Mikeu Dispensary	215	171					44
	Kiburuti Dispensary	50	47					3
	Turasha Dispensary	250	352					-102
	Kamuchege Dispensary	110	108					2
	Kaimbaga dispensary	50	23					27
	Beyond Zero (Nyandarua)	1200	1169					31
	Rurii Dispensary	200	332					-132
	Mukindu Dispensary	120	85					35
	KwaMbekenye Dispensary	150	99					51
	Ngorika Health Center	400	336					64
	Sub-CountyStores balances	10061						10061
	OL JO ROROK			1880	0			-1880
	KINAGOP			2150	150			-2300
	Sub-Total	37,000	25,080	6,967	1,063	50	150	3690

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
Moderna	Mumui Dispensary (Githioro)	270	186		75			9
	Silibwet Health Centre (Nyandarua West)	885	437		196		27	225
	Olaimutia Dispensary	682	56		62			564
	Nyairoko Dispensary	497	404		48			45
	Charagita Dispensary	700	552		28			120
	Maina & Mwangi Health Centre	380	197		96		96	-9
	Gichungo Dispensary	238	93		42			103
	Rwanyambo Dispensary	315	142		40			133
	Heni Health Centre	210	65		56		5	84
	Kasuku Health Centre	868	690					178
	Bamboo Health Centre	514	541			49	28	-104
	North Kinangop Catholic Hospital	714	640				47	27
	Engineer County Hospital	9366	6893				67	2406
	Murungaru Health Centre	882	399				65	418
	Mikeu Dispensary	239	164				29	46
	Kanguu Dispensary	326	311				17	-2
	Gatimu Health Centre	690	351				15	324
	Sharom Dispensary	294	75				120	99
	Ngorika Health Center	854	651				202	1
	New Mawingu Health Centre	826	722				53	51
Kihuho Milangine Dispensary	336	223				14	99	
Kanjuri Dispensary	28	19				9	0	
Kamuchege Dispensary (Mirangine)	154	293				26	-165	

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Karangatha Health Centre	462	353					109
	Njabini Health Center	924	621					303
	Chamuka Dispensary	1993	1018					975
	Ngano Health center	952	289					663
	Olborosat Dispensary	210	552					-342
	Baari Health Centre	500	372					128
	Uruku Dispensary	98	72					26
	Subuku Dispensary (Nyandarua North)	588	644				30	-86
	Shauri Dispensary	98	202					-104
	Shamata Health Centre	616	470					146
	Pesi Dispensary	112	71					41
	Ndivai Dispensary	84	85					-1
	Ndaragwa Health Centre	798	702					96
	Mastoo Dispensary	28	30					-2
	Leshau Pondo Health Centre	996	404					592
	Kiriogo Dispensary	70	73					-3
	Kirima Dispensary	140	29					111
	Kihuha Dispensary	238	232					6
	Kahembe Health Center	284	210					74
	Mbuyu Dispensary	770	561				32	177
	Kamiruri Dispensary	276	261					15
	Kianjogu Dispensary	112	62					50
	Ndunyu Njeru Dispensary	140	64					76

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Nandarasi Dispensary	454	115					339
	Mikaro Dispensary	210	16					194
	Weru Health Center	350	247					103
	Wanjohi Health Centre	523	404					119
	Ndemi Health Centre	537	556					-19
	Turasha Dispensary	450	446					4
	Kiambogo Dispensary	292	298					-6
	Munoru Dispensary	510	355					155
	Lereshwa Dispensary	352	478					-126
	Manunga Health Centre	1653	1456					197
	GatondoDispensary (Kipipiri)	650	759					-109
	Geta Bush Health Centre	475	362					113
	Old Mawingu Health Centre	889	576					313
	Captain Dispensary	448	151					297
	Mirangine Health Centre	938	37					901
	Tumaini National Youth Service	168	434					-266
	New Tumaini Health Centre	1022	547					475
	Mukindu Dispensary	42	14					28
	Rurii Dispensary	546	433					113
	Beyond Zero (Nyandarua)	154	167					-13
	The Pine Hospital	84	3					81
	JM Kariuki Memorial County	10482	16056					-5574
	Kimathi Dispensary (Kipipiri)	118	84					34

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Sub-CountyStores balances	4414						4414
	Sub-Total	56,518	44,785	-	643	49	882	10159
Oxford/AstraZeneca	Kinangop S. County Store	0	0		3500	0		-3500
	OI Kalau S. County Store	0	0		2200	0		-2200
	Ndaragwa S. County Store	0	0		20	0		-20
	Silibwet Health Centre (Nyandarua West)	1050	1114		170	0	10	-244
	Olborosat Dispensary	690	438		10	0	10	232
	Olaimutia Dispensary	640	299		40	0		301
	Nyairoko Dispensary	500	346		26	0	61	67
	Ngano Health Centre	650	756		80	0		-186
	Maina & Mwangi Health Centre	620	252		60	0	106	202
	Sharom Dispensary	620	550		20	0	289	-239
	Ngorika Health Center	1740	1539		130	8	40	23
	Kanjuri Dispensary	800	802		60	70	52	-184
	Baari Health Centre	1160	1049		30			81
	Ndaragwa Health Centre	1320	1004		200			116
	Mbuyu Dispensary	800	511		20			269
	Wanjohi Health Centre	980	1123		20			-163
	Kiburuti Dispensary	570	484		50	1		-269
	Rwanyambo Dispensary	710	1004	50	300		4	-648
	Ndunyu Njeru Dispensary	1060	744		20			296
	Engineer County Hospital	11427	13302		70		43	-1988

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Nandarasi Dispensary	820	622		230			-32
	Heni Health Centre	730	642		100			-12
	Koinange Dispensary	680	745		420			-485
	Tumaini National Youth Service Dispensary	250	283			4	34	-71
	New Mawingu Health Centre	1160	917			15	7	221
	Mirangine Health Centre	1784	828				145	811
	Kamuchege Dispensary (Mirangine)	230	247				12	-29
	Gichungo Dispensary	440	250				25	165
	Charagita Dispensary	960	813				25	122
	Kasuku Health Centre	720	1209				24	-513
	Subuku Dispensary (Nyandarua North)	1290	1364				61	-135
	Leshau Pondo Health Centre	1360	872				10	478
	Gathara Dispensary	530	612				76	-158
	Murungaru Health Centre	1800	1577				38	185
	Munyaka Dispensary	1170	806				370	-6
	Githabai Dispensary	600	615				5	-20
	Kahuru Dispensary (Nyandarua South)	890	709				33	148
	Mikeu Dispensary	139	94				52	-7
	North Kinangop Catholic Hospital	1450	940				205	305
	Bamboo Health Centre	2340	2270				340	-270
	Njabini Health Centre	1780	2068	220				-508
	Kimathi Disp. Kipipiri Sub County	520	371	166				-17

Report of the Auditor-General on the Special Audit of Covid-19 Vaccine Roll Out for the County Government of Nyandarua

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Weru Health Centre (Nyandarua South)	1170	1140					30
	Karangatha Health Centre	1220	1314					-94
	Mukungi Dispensary	300	335					-35
	Mikaro Dispensary	700	767					-67
	Njabini Catholic Hospital	1780	11					1769
	Haraka Dispensary	508	308					200
	KwaMbekenye Dispensary	400	406					-6
	Kitogo Dispensary	680	869					-189
	Mutarakwa Dispensary (Nyandarua South)	280	343					-63
	Kenton Dispensary	330	400					-70
	Kanguu Dispensary	490	311					179
	Gatimu Health Center	1070	809					261
	New Tumaini Health Center	650	898					-248
	Chamuka Dispensary	1710	1815					-105
	Uruku Dispensary	760	606					154
	Shauri Dispensary	400	456					-56
	Shamata Health Centre	1140	1340					-200
	Pesi Dispensary	520	336					184
	Ndivai Dispensary	520	599					-79
	Mastoo Dispensary	280	275					5
	Kiriogo Dispensary	390	411					-21
	Kirima Dispensary	860	867					-7

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Kihuha Dispensary	410	157					253
	Kahembe Health Center	840	796					44
	Kamiruri Dispensary	400	304					96
	Kianjogu Dispensary	650	538					112
	Ndemi Health Centre	614	770					-156
	Lereshwa Dispensary	470	560					-90
	Manunga Health Centre	2790	3019					-229
	Geta Bush Health Centre	750	868					-118
	Kiambogo Dispensary	540	845					-305
	Munoru Dispensary	560	582					-22
	Mumui Dispensary	330	438					-108
	Old Mawingu Health Centre	1818	1637					181
	Turasha Dispensary	1104	1159					-55
	Gatondo Dispensary	850	906					-56
	JM Kariuki Memorial County	46650	54485					-7835
	The Pine Hospital	100	76					24
	Beyond Zero (Nyandarua)	470	499					-29
	Rurii Dispensary	380	649					-269
	Mukindu Dispensary	280	182					98
	Captain Dispensary	800	257					543
	Kaimbaga dispensary	300	146					154
	Sub-CountyStores balances	21262						21262
	OL KALOU				2200			-2200
	KIPIPIRI			300				-300

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Ndaragua				20			-20
	Sub-Total	145,506	127,660	736	9,996	97	2,077	4940
Pfizer	S. County Store				156			-156
	S. County Store				288			-288
	S. County Store				498			-498
	S. County Store				1290			-1290
	Olborosat Dispensary	1266	1671		60	5	184	-654
	Nyairoko Dispensary	708	1235		10			-537
	Sharom Dispensary	294	184		24		162	-76
	Captain Dispensary	660	538		24			98
	Baari Health Centre	1902	1829		5			68
	Subuku Dispensary (Nyandarua North)	2510	1917		480			113
	Shamata Health Centre	1614	1703		42			-131
	Ndaragwa Health Centre	1800	1973		306			-479
	Leshau Pondo Health Centre	1680	952		78	84		566
	Old Mawingu Health Centre	1476	1081		282	6	78	29
	Mikeu Dispensary	280	177		102			1
	Kimathi Disp. Kipipiri Sub County	510	312	148	30		47	-27
	Geta Bush Health Centre	840	791		192			-143
	Bamboo Health Centre	1872	265		15			1592
	Rwanyambo Dispensary	1632	669		588			375
	Gathara Dispensary	186	617		6			-437
	Ndunyu Njeru Dispensary	1212	1226		126			-140

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Nandarasi Dispensary	1782	1125		18			639
	Munyaka Dispensary	1334	754		130		42	408
	Mukungi Dispensary	138	1125		90		5	-1082
	Ngorika Health Center	2026	1826	5			28	167
	Kihuho Milangine Dispensary	198	200	30			42	-74
	Kamuchege Dispensary (Mirangine)	120	111				7	2
	North Kinangop Catholic Hospital	720	754				2	-36
	Engineer County Hospital	3903	2272				62	1569
	Murungaru Health Centre	2286	1811				354	121
	Haraka Dispensary	156	74				2	80
	Kitogo Dispensary	288	242				20	26
	Ngano Health Centre	636	740				32	-136
	Charagita Dispensary	1434	1165				52	217
	Maina & Mwangi Health Centre	546	464				54	28
	Kasuku Health Centre	1614	2245				78	-709
	Kanguu Dispensary	432	376				35	21
	Tumaini National Youth Service Dispensary	100	6				22	72
	Silibwet Health Centre (Nyandarua West)	2898	2356				50	492
	Mikaro Dispensary		514		222		-	-736
	New Mawingu Health Centre	510	782	48				-320
	Mirangine Health Centre	1434	600	48				786
	JM Kariuki Memorial County Referral Hospital	6640	5860	78				702

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Ndemi Health Centre	894	546	54				294
	Wanjohi Health Centre	630	1474	36				-880
	Kenton Dispensary	228	85	102				41
	Njabini Health Centre	3198	1188	30				1980
	Mutarakwa Dispensary (Nyandarua South)	150	56	60				34
	Weru Health Centre (Nyandarua South)	870	779					91
	Kahuru Dispensary (Nyandarua South)	910	778					132
	KwaMbekenye Dispensary	348	259					89
	Koinange Dispensary	360	281					79
	Munyaka Dispensary	1334	754					580
	Heni Dispensary	210	587					-377
	Karangatha Health Centre	534	997					-463
	Githabai Dispensary	894	605		156			133
	Gatimu Health Center	270	837					-567
	Chamuka Dispensary	1758	2095					-337
	Olaimutia Dispensary	1548	937					611
	Uruku Dispensary	360	417					-57
	Shauri Dispensary	760	1033					-273
	Pesi Dispensary	324	247					77
	Ndivai Dispensary	246	351					-105
	Mastoo Dispensary	342	288					54
	Kiriogo Dispensary	300	220					80

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Un-accounted For
	Kirima Dispensary	1072	902					170
	Kihuha Dispensaryy		161					-161
	Kahembe Health Center	738	1542					-804
	Kamiruri Dispensary	228	250					-22
	Kianjogu Dispensary	444	533					-89
	Mbuyu Dispensary	1692	1636					56
	Turasha Dispensary	365	888					-523
	Kiambogo Dispensary	90	430					-340
	Munoru Dispensary	492	520					-28
	Mumui Dispensary	526	337					189
	Lereshwa Dispensary	492	274					218
	Manunga Health Centre	2351	3101					-750
	Kiburuti Dispensary	446	292					154
	GatondoDispensary (Kipipiri)	480	289					191
	Beyond Zero (Nyandarua)	1230	1128					102
	Rurii Dispensary	1282	1384					-102
	Mukindu Dispensary		486					-486
	New Tumaini Health Centre	1212	1119					93
	Kanjui Dispensary	540	637					-97
	Kaimbaga dispensary	240	54					186
	Sub-CountyStores balances	34,003						34003
	Kinangop S. County Store			2178	1788			-3966
	Sub-Total	114,028	73,319	2,817	7,006	95	1,280	29511
	Grand Total	353,052	270,844	10,520	18,708	291	4,389	48300

Report of the Auditor-General on the Special Audit of Covid-19 Vaccine Roll Out for the County Government of Nyandarua

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (Qty)	Damaged and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
Pfizer	S. County Store				156			
	S. County Store				288			
	S. County Store				498			
	S. County Store				1290			
	Olborosat Dispensary	1266	1671		60	5	184	-654
	Nyairoko Dispensary	708	1235		10			-537
	Sharom Dispensary	294	184		24		162	-76
	Captain Dispensary	660	538		24			98
	Baari Health Centre	1902	1829		5			68
	Subuku Dispensary	2510	1917		480			113
	Shamata Health	1614	1703		42			-131
	Ndaragwa Health	1800	1973		306			-479
	Leshau Pondo Health	1680	952		78	84		566
	Old Mawingu Health	1476	1081		282	6	78	29
	Mikeu Dispensary	280	177		102			1
	Kimathi Disp. Kipipiri	510	312	148	30		47	-27
	Geta Bush Health	840	791		192			-143
	Bamboo Health Centre	1872	265		15			1592
	Rwanyambo	1632	669		588			375
	Gathara Dispensary	186	617		6			-437
	Ndunyu Njeru	1212	1226		126			-140
	Nandarasi Dispensary	1782	1125		18			639
	Munyaka Dispensary	1334	754		130		42	408
	Mukungi Dispensary	138	1125		90		5	-1082

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (QTY)	Damaged and Disposed (QTY)	Wastage and Disposed (QTY)	Unaccounted For
	Ngorika Health Center	2026	1826	5			28	167
	Kihuho Milangine Dispensary	198	200	30			42	-74
	Kamuchege Dispensary	120	111				7	2
	North Kinangop Catholic	720	754				2	-36
	Engineer County Hospital	3903	2272				62	1569
	Murungaru Health Centre	2286	1811				354	121
	Haraka Dispensary	156	74				2	80
	Kitogo Dispensary	288	242				20	26
	Ngano Health Centre	636	740				32	-136
	Charagita Dispensary	1434	1165				52	217
	Maina & Mwangi Health Centre	546	464				54	28
	Kasuku Health Centre	1614	2245				78	-709
	Kanguu Dispensary	432	376				35	21
	Tumaini National Youth Service	100	6				22	72
	Silibwet Health Centre	2898	2356				50	492
	Mikaro Dispensary		514		222		-	-736
	New Mawingu Health Centre	510	782	48			688	-320
	Mirangine Health Centre	1434	600	48			-	786
	JM Kariuki Memorial County	6640	5860	78			1,282	702
	Ndemi Health Centre	894	546	54			(357)	294
	Wanjohi Health Centre	630	1474	36			-	-880
	Kenton Dispensary	228	85	102			2,243	41
	Njabini Health Centre	3198	1188	30			(30)	1980
	Mutarakwa Dispensary	150	56	60			-	34
	Weru Health Centre	870	779					91
	Kahuru Dispensary (Nyandarua)	910	778				(298)	132

Report of the Auditor-General on the Special Audit of Covid-19 Vaccine Roll Out for the County Government of Nyandarua

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (QTY)	Damaged and Disposed (QTY)	Wastage and Disposed (QTY)	Unaccounted For
	KwaMbekenye Dispensary	348	259				1,358	89
	Koinange Dispensary	360	281				-	79
	Munyaka Dispensary	1334	754				-	580
	Heni Dispensary	210	587				2,514	-377
	Karangatha Health Centre	534	997					-463
	Githabai Dispensary	894	605		156			133
	Gatimu Health Center	270	837					-567
	Chamuka Dispensary	1758	2095					-337
	Olaimutia Dispensary	1548	937					611
	Uruku Dispensary	360	417					-57
	Shauri Dispensary	760	1033					-273
	Pesi Dispensary	324	247					77
	Ndivai Dispensary	246	351					-105
	Mastoo Dispensary	342	288					54
	Kiriogo Dispensary	300	220					80
	Kirima Dispensary	1072	902					170
	Kihuha Dispensaryyy		161					-161
	Kahembe Health Center	738	1542					-804
	Kamiruri Dispensary	228	250					-22
	Kianjogu Dispensary	444	533					-89
	Mbuyu Dispensary	1692	1636					56
	Turasha Dispensary	365	888					-523
	Kiambogo Dispensary	90	430					-340
	Munoru Dispensary	492	520					-28
	Mumui Dispensary	526	337					189
	Lereshwa Dispensary	492	274					218

Vaccine	Facilities	Receipts	Vaccinations Administered	In Stock	Total Expired (QTY)	Damaged and Disposed (QTY)	Wastage and Disposed (QTY)	Unaccounted For
	Manunga Health Centre	2351	3101					-750
	Kiburuti Dispensary	446	292					154
	Gatondo Dispensary (Kipipiri)	480	289					191
	Beyond Zero (Nyandarua)	1230	1128					102
	Rurii Dispensary	1282	1384					-102
	Mukindu Dispensary		486					-486
	New Tumaini Health Centre	1212	1119					93
	Kanjuiri Dispensary	540	637					-97
	Kaimbaga Dispensary	240	54					186
Sub -Total		80,025	73,319	639	5218	95	1,280	(526)
	Sub-Counties			2178	1788			
Total			73319	2817	7006	95	1280	

Appendix 7: Disposal at Sub-County Level – Nyandarua County

Sub-County	D1	D2	D3	D4	D5	D6	D7
Ndaragwa	Yes	No	No	No	No	No	Yes
OI Joroorok	Yes	No	No	No	No	No	Yes
Kinangop	Yes	No	No	No	No	No	Yes
Kipipiri	Yes	No	No	No	No	No	Yes
OI-Kalou	Yes	No	No	No	No	No	Yes
Compliant	5	0	0	0	0	0	5
Non-Compliant	0	5	5	5	5	5	0

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 – Nyandarua County

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Kinangop	Bamboo Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Engineer County Hospital	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes
	Githabai Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes
	Gathara Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Haraka Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Heni Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Kahuru Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes
	Karangatha Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes
	Kenton Gitwe Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	No
	Kitogo Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Koinange Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Kwambekenya Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Mikaro Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Mkungi Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Munyaka Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Murungaru Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes
Mutarakwa Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes	
Nandarasi Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No	
Ndunyu Njeru Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No	
Njabini Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes	
North Kinangop Catholic Hospital	Yes	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes
Rwanyambo Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	No	Yes	No	No	Yes
Weru Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	No	Yes	No	No	No

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Kipipiri	Gatondo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Geta Bush Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Geta Forest Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kiambogo Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Kiburuti Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Kimathi Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Lereshwa Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	No
	Manunga Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Mikeu Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No
	Mumui Dispensary	Yes	No	Yes	No	Yes	No	No	No	No	Yes	No	Yes
	Munoru Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Ndemi Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Old Mawingo Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Turasha Dispensary	Yes	No	Yes	No	Yes	No	No	No	No	Yes	No	Yes
Wanjohi Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	No	Yes	No	No	
Ndaragwa	Baari Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Kahembe Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Kamiruri Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kianjogu Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kihuha Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Kirima Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Kiriogo Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
	Leshau Pondo Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Mastoo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Mbuyu Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes
	Ndaragwa Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Ndivai Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Pesi Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Shamata Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Shauri Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Subuku Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Uruku Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
Oljoro-orok	Charagita Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Chamuka Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	Yes	No
	Kasuku Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes
	Gatimu Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Kanguu Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Maina and Mwangi Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Ngano Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Nyairoko Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	No	Yes
	Ol-bolossat Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Oraimutia Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No
	Silibwet Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
Ol-Kalou	Beyond Zero	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Captain Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes	No	Yes
	Kaimbaga Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Kanjuri Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Ngorika Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	NYS Tumaini Dispensary	Yes	No	Yes	No	Yes	Yes	No	No	Yes	Yes	No	Yes
	Sharom Dispensary	Yes	No	Yes	No	Yes	Yes	No	No	Yes	Yes	No	Yes
	Gichungo Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	J.M Kariuki Referral Hospital	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Kamuchege Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Kihuho Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Mirangine Health Centre	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	Mukindu Dispensary	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No
	New Mawingu Dispensary	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	New Tumaini Health Centre	Yes	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes
	Rurii Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	The Pine Hospital	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No
	Compliant	83	0	83	50	83	12	0	1	83	11	4	42
	Non-Compliant	0	83	0	33	0	71	83	82	0	72	79	41

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-CountyLevel – Nyandarua County

Sub-County	HR1	HR2	HR3	HR4	HR5	HR6	HR7
Ndaragwa	Yes	Yes	Yes	Yes	No	No	Yes
OI Joroorok	Yes	Yes	Yes	Yes	No	No	Yes
Kinangop	Yes	Yes	Yes	Yes	No	No	Yes
Kipipiri	Yes	Yes	Yes	Yes	No	No	Yes
OI-Kalou	Yes	Yes	Yes	Yes	No	No	Yes
Compliant	5	5	5	5	0	0	5
Non-Compliant	0	0	0	0	5	5	0

KEY/DETAILS:

HR1	Was the county represented in National training for ToTs? If yes indicate in the remarks column number of people involved
HR2	Were the Sub-Countyhealth management team trained on Covid-19 immunization?
HR3	Was the training well spread to all cadres supposed to be trained? Establish the composition of the Sub-Countyhealth management team trained and what was covered in the training
HR4	Was there a a training plan and were the trainings done as per training plan? Populate details in the Remarks Column
HR5	Was there a specific training budget for Covid -19 immunization?
HR6	Does comparison of Expenditure with actual expenditure for training on Covid-19 vaccination give rise to a variance? If yes indicate the variance amount in the remarks Column
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 – Nyandarua County

Sub-County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
Kinangop	Bamboo Health Centre	Yes	No	Yes	Yes	Yes	No
	Engineer County Hospital	Yes	No	Yes	Yes	Yes	No
	Githabai Dispensary	No	No	Yes	Yes	Yes	Yes
	Gathara Dispensary	No	No	Yes	Yes	Yes	No
	Haraka Dispensary	No	No	Yes	Yes	Yes	No
	Heni Health Centre	Yes	No	Yes	Yes	Yes	No
	Kahuru Dispensary	No	Yes	Yes	Yes	Yes	No
	Karangatha Health Centre	Yes	No	Yes	Yes	Yes	No
	Kenton Gitwe Dispensary	No	No	Yes	Yes	Yes	No
	Kitogo Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Koinange Dispensary	No	No	Yes	Yes	Yes	Yes
	Kwambekenya Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Mikaro Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Mkungi Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Munyaka Dispensary	No	No	Yes	Yes	Yes	No
	Murungaru Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Mutarakwa Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Nandarasi Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Ndunyu Njeru Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Njabini Health Centre	Yes	No	Yes	Yes	Yes	No
Kipipiri	North Kinangop Catholic Hospital	No	Yes	Yes	Yes	Yes	No
	Rwanyambo Dispensary	No	No	Yes	Yes	Yes	No
	Weru Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Gatondo Dispensary	No	Yes	Yes	Yes	Yes	No

Sub-County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Geta Bush Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Geta Forest Dispensary	No	Yes	Yes	Yes	Yes	No
	Kiambogo Dispensary	Yes	No	Yes	Yes	Yes	No
	Kiburuti Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kimathi Dispensary	No	No	Yes	Yes	Yes	No
	Lreshwa Dispensary	No	No	Yes	Yes	Yes	No
	Manunga Health Centre	Yes	No	Yes	Yes	Yes	No
	Mikeu Dispensary	Yes	No	Yes	Yes	Yes	No
	Mumui Dispensary	Yes	No	Yes	Yes	Yes	Yes
	Munoru Dispensary	No	No	Yes	Yes	Yes	No
	Ndemi Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Old Mawingo Health Centre	Yes	No	Yes	Yes	Yes	Yes
	Turasha Dispensary	Yes	No	Yes	Yes	Yes	Yes
	Wanjohi Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
Ndaragwa	Baari Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Kahembe Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Kamiruri Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kianjogu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Kihuha Dispensary	No	Yes	Yes	Yes	Yes	No
	Kirima Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Kiriogo Dispensary	No	No	Yes	Yes	Yes	Yes
	Leshau Pondo Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Mastoo Dispensary	No	Yes	Yes	Yes	Yes	No
	Mbuyu Dispensary	Yes	No	Yes	Yes	Yes	Yes
	Ndaragwa Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Ndivali Dispensary	Yes	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Pesi Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Shamata Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Shauri Dispensary	No	No	Yes	Yes	Yes	Yes
	Subuku Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Uruku Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
Oloro-oroK	Charagita Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Chamuka Health Centre	No	No	Yes	Yes	Yes	Yes
	Kasuku Health Centre	Yes	No	Yes	Yes	Yes	Yes
	Gatimu Health Centre	No	Yes	Yes	Yes	Yes	Yes
	Kanuu Dispensary	No	Yes	Yes	Yes	Yes	No
	Maina and Mwangi Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Ngano Dispensary	No	No	Yes	Yes	Yes	Yes
	Nyairoko Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Ol-bolossat Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	Oramutia Dispensary	Yes	Yes	Yes	Yes	Yes	No
	Silibwet Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
Ol-Kalon	Beyond Zero	No	No	Yes	Yes	Yes	No
	Captain Dispensary	No	No	Yes	Yes	Yes	No
	Kaimbaga Dispensary	No	No	Yes	Yes	Yes	Yes
	Kanjiri Dispensary	No	No	Yes	Yes	Yes	No
	Ngorika Health Centre	No	No	Yes	Yes	Yes	Yes
	NYS Tumaini Dispensary	No	No	Yes	Yes	Yes	No
	Sharom Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Gichungo Dispensary	No	Yes	Yes	Yes	Yes	Yes
	J.M Kariki Referral Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Kamuchegge Dispensary	Yes	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
	Kihuhu Dispensary	No	Yes	Yes	Yes	Yes	Yes
	Mirangine Health Centre	Yes	Yes	Yes	Yes	Yes	Yes
	Mukindu Dispensary	Yes	No	Yes	Yes	Yes	No
	New Mawingu Dispensary	No	No	Yes	Yes	Yes	Yes
	New Tumaini Health Centre	Yes	No	Yes	Yes	Yes	Yes
	Rurii Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
	The Pine Hospital	Yes	Yes	Yes	Yes	Yes	Yes
	Compliant	48	47	83	83	83	50
	Non-Compliant	35	36	0	0	0	33

KEY/DETAILS:

HR1	Did the facility have adequate staff to carry out the Covid-19 vaccination (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-19 Vaccination at the facility? (HCW should be trained before being issued with vaccines Compare date of training with the date the first doze 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-19 vaccination) 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 – Nyandarua County

County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Nyandarua	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	1	1	1	1	1	1	1	1	1
Non-Compliant	0	0	1	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-19 vaccination?
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 carry out mobilization?
CP9	Did the county/Sub-County carry out any outreaches?

Appendix 12: Coordination of Players at Sub-CountyLevel – Nyandarua County

Sub-County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Ndaragwa	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
OI Joroorok	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Kinangop	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Kipipiri	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
OI-Kalou	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	5	5	0	5	5	5	5	5	5
Non-Compliant	0	0	5	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-19 vaccination?
CP5	Did the county/Sub-Countytaskforce communicate to the National Task force?
CP6	Did the committee/task force keep minutes of their meetings? Review the minutes of the different committees and note whether resolutions were implemented and any gaps in coordination (Populate the findings in the remarks column)
CP7	Did the county/Sub-Countycarry out any advocacy ?
CP8	Did the county/Sub-Countycarried out mobilization?
CP9	Did the county/Sub-County carry out any outreaches?

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

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
Kinangop	Bamboo Health Centre	Yes	Yes	Yes	Yes	Yes
	Engineer County Hospital	Yes	Yes	Yes	Yes	Yes
	Githabai Dispensary	Yes	Yes	Yes	Yes	Yes
	Gathara Dispensary	Yes	Yes	Yes	Yes	Yes
	Haraka Dispensary	Yes	Yes	Yes	Yes	Yes
	Heni Health Centre	Yes	Yes	Yes	Yes	Yes
	Kahuru Dispensary	Yes	Yes	Yes	No	No
	Karangatha Health Centre	Yes	Yes	Yes	Yes	Yes
	Kenton Gitwe Dispensary	Yes	Yes	Yes	Yes	Yes
	Kitogo Dispensary	Yes	Yes	Yes	Yes	Yes
	Koinange Dispensary	Yes	Yes	Yes	Yes	Yes
	Kwambekenya Dispensary	Yes	Yes	Yes	Yes	Yes
	Mikaro Dispensary	Yes	Yes	Yes	Yes	Yes
	Mkungi Dispensary	Yes	Yes	Yes	No	No
	Munyaka Dispensary	Yes	Yes	Yes	Yes	Yes
	Murungaru Health Centre	Yes	Yes	Yes	Yes	Yes
	Mutarakwa Dispensary	Yes	Yes	Yes	Yes	Yes
Kipipiri	Nandarasi Dispensary	Yes	Yes	Yes	Yes	Yes
	Ndunyu Njeru Dispensary	Yes	Yes	Yes	Yes	Yes
	Njabini Health Centre	Yes	Yes	Yes	Yes	Yes
	North Kinangop Catholic Hospital	Yes	Yes	Yes	No	No
	Rwanyambo Dispensary	Yes	Yes	Yes	Yes	Yes
	Weru Health Centre	Yes	Yes	Yes	Yes	Yes
	Gatondo Dispensary	Yes	Yes	Yes	Yes	Yes
	Geta Bush Health Centre	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Geta Forest Dispensary	Yes	Yes	Yes	Yes	Yes
	Kiambogo Dispensary	Yes	Yes	Yes	Yes	Yes
	Kiburuti Dispensary	Yes	Yes	Yes	Yes	Yes
	Kimathi Dispensary	Yes	Yes	Yes	Yes	Yes
	Lreshwa Dispensary	Yes	Yes	Yes	Yes	Yes
	Manunga Health Centre	Yes	Yes	Yes	Yes	Yes
	Miken Dispensary	Yes	Yes	Yes	Yes	Yes
	Mumui Dispensary	Yes	Yes	Yes	Yes	Yes
	Munoru Dispensary	Yes	Yes	Yes	Yes	Yes
	Ndemi Health Centre	Yes	Yes	Yes	Yes	Yes
	Old Mawingo Health Centre	Yes	Yes	Yes	Yes	Yes
	Turasha Dispensary	Yes	Yes	Yes	Yes	Yes
	Wanjohi Health Centre	Yes	Yes	Yes	Yes	Yes
Ndaruga	Baari Health Centre	Yes	Yes	Yes	Yes	Yes
	Kahembe Health Centre	Yes	Yes	Yes	Yes	Yes
	Kamiruri Dispensary	Yes	Yes	Yes	Yes	Yes
	Kianjogu Dispensary	Yes	Yes	Yes	Yes	Yes
	Kihuha Dispensary	Yes	Yes	Yes	Yes	Yes
	Kirima Dispensary	Yes	Yes	Yes	Yes	Yes
	Kiriogo Dispensary	Yes	Yes	Yes	Yes	Yes
	Leshau Pondo Health Centre	Yes	Yes	Yes	Yes	Yes
	Mastoo Dispensary	Yes	Yes	Yes	Yes	Yes
	Mbyu Dispensary	Yes	Yes	Yes	Yes	Yes
	Ndaruga Health Centre	Yes	Yes	Yes	Yes	Yes
	Ndivai Dispensary	Yes	Yes	Yes	Yes	Yes
	Pesi Dispensary	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CPS
	Shamata Health Centre	Yes	Yes	Yes	Yes	Yes
	Shauri Dispensary	Yes	Yes	Yes	Yes	Yes
	Subuku Dispensary	Yes	Yes	Yes	Yes	Yes
	Uruku Dispensary	Yes	Yes	Yes	Yes	Yes
Oloro-oroK	Charagita Dispensary	Yes	Yes	Yes	Yes	Yes
	Chamuka Health Centre	Yes	Yes	Yes	Yes	Yes
	Kasuku Health Centre	Yes	Yes	Yes	Yes	Yes
	Gatimu Health Centre	Yes	Yes	Yes	Yes	Yes
	Kanguu Dispensary	Yes	Yes	Yes	Yes	Yes
	Maina and Mwangi Health Centre	Yes	Yes	Yes	Yes	Yes
	Ngano Dispensary	Yes	Yes	Yes	Yes	Yes
	Nyairoko Dispensary	Yes	Yes	Yes	Yes	Yes
	Olbolossat Dispensary	Yes	Yes	Yes	Yes	Yes
	Oramutia Dispensary	Yes	Yes	Yes	Yes	Yes
	Silibwet Health Centre	Yes	Yes	Yes	Yes	Yes
Ol-Kalou	Beyond Zero	Yes	Yes	Yes	Yes	Yes
	Captain Dispensary	Yes	Yes	Yes	Yes	Yes
	Kaimbaga Dispensary	Yes	Yes	Yes	Yes	Yes
	Kanjuri Dispensary	Yes	Yes	Yes	Yes	Yes
	Ngorika Health Centre	Yes	Yes	Yes	Yes	Yes
	NYS Tumaini Dispensary	Yes	Yes	Yes	Yes	Yes
	Sharom Dispensary	Yes	Yes	Yes	Yes	Yes
	Gichungo Dispensary	Yes	Yes	Yes	Yes	Yes
	J.M Karituki Referral Hospital	Yes	Yes	Yes	Yes	Yes
	Kamuchege Dispensary	Yes	Yes	Yes	Yes	Yes
	Kihuh Dispensary	Yes	Yes	Yes	Yes	Yes

Sub-County	Facility	CP1	CP2	CP3	CP4	CP5
	Mirangine Health Centre	Yes	Yes	Yes	Yes	Yes
	Mukindu Dispensary	Yes	Yes	Yes	Yes	Yes
	New Mawingu Dispensary	Yes	Yes	Yes	Yes	Yes
	New Tumaini Health Centre	Yes	Yes	Yes	Yes	Yes
	Rurii Dispensary	Yes	Yes	Yes	Yes	Yes
	The Pine Hospital	Yes	Yes	Yes	No	No
	Compliant	83	83	83	79	79
	Non-Compliant	0	0	0	4	4

KEY/DETAILS:

CP1	Does the facility receive Covid-19 vaccine 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 – Nyandarua County

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

KEY/DETAILS:

M1	Did the County designate an in charge/Committee for monitoring Covid-19 vaccine 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-CountyLevel – Nyandarua County

Sub County	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Ndaragwa	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ol Joorook	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes
Kinangop	Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes
Kipipiri	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ol-Kalou	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	5	5	3	0	5	5	1	1	5	5	2	5	5	5	5
Non-Compliant	0	0	2	5	0	0	4	4	0	0	3	0	0	0	0

KEY/DETAILS:

M1	Did the County designate an in charge for monitoring Covid-19 vaccine 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-Countyput 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 16: Monitoring & Supervision at Facility Level – Nyandarua County

Sub-County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
Kinangop	Bamboo Health Centre	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Engineer County Hospital	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Githabai Dispensary	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Gathara Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	Haraka Dispensary	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Heni Health Centre	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kahuru Dispensary	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Karangatha Health Centre	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Kenton Gitwe Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Kitogo Dispensary	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Koinange Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	Kwambekenya Dispensary	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Mikaro Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mkungi Dispensary	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Munyaka Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	Murungaru Health Centre	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Mutarakwa Dispensary	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Nandarasi Dispensary	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	
Ndunyu Njeru Dispensary	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	
Njabini Health Centre	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	
North Kinangop Catholic Hospital	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	
Rwanyambo Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	
Weru Health Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	

Sub-County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
	Kamuchege Dispensary	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Kihuho Dispensary	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	Mirangine Health Centre	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mukindu Dispensary	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	New Mawingu Dispensary	No	No	No	Yes	Yes	No	No	Yes	Yes	No	Yes
	New Tumaini Health Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Rurii Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	The Pine Hospital	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Compliant	69	51	59	82	83	8	61	82	81	64	83
	Non-Compliant	14	32	24	1	0	75	22	1	2	19	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	as 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 booklet etc. 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	Are the Pfizer and Moderna vaccines been monitored for the 30 days expiry period after thawing.
M11	Has the county/sub county/Facility been making use of the temperature monitoring tools?



CONTACTS

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