

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

PAPERS LAID	
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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
IFMIS	Integrated Financial Management Information System
NVIP	National Vaccines and Immunization program
ULT	Ultra-Low Temperatures
WHO	World Health Organization

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1.0 EXECUTIVE SUMMARY

1.1 Background and introduction

The Auditor-General carried out a Special Audit on the efficiency and effectiveness of Covid-19 vaccines roll-out in Kenya. The Audit covered the period from inception of the vaccination exercise in March 2021 to 31 March 2022. The primary objective of the audit was to determine the efficiency and effectiveness of the Covid-19 vaccines rollout in the Forty-Seven (47) Counties. This report, however, specifically covers the audit performed for the Covid-19 vaccines rollout in Siaya 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 lack of definition of most of the vaccinating facilities in the Chanjo System, inadequate and incomplete vaccine inventory records. The audit Team put in place several measures to mitigate the challenges including expanding the scope to near 100% coverage of the vaccinating facilities in the Country.

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

Siaya County received 551,400 doses of various types of vaccines during the period under review. Out of the total Covid-19 Vaccine Doses received in the County, 469,249 doses were administered, while 46,418 vaccine doses were still in stock as at the time of the audit cutoff date on 31 March 2022. The balance of 35,733 vaccine doses comprised of expired, damaged, and an unexplained deficit variance of 31,387 doses as at 31 March, 2022.

1.4.2 Budget

Review of the Siaya 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 National Government through the Kisumu Regional Store. The distribution flow was from Regional Store to the Sub-County stores and to the facilities which administered the vaccines.

1.4.4 Storage of Vaccines

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

1.4.5 Disposal of Vaccines

The Special Audit noted that a total of 4,391 vaccine doses had expired, were damaged or had gone to waste.

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. Siaya County Management explained that their trainings were undertaken through the assistance of the development partners. However,

there was no proper records of documentation maintained for the trainings undertaken or provided.

1.4.7 Coordination of Players

The coordination of the exercise was done by the Siaya 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 and 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 Chanjo System and an unexplained deficit variance of 31,387 vaccine doses valued at Kshs.18,368,394 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 Siaya 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 of Moderna, Johnson & Johnson, Pfizer and Sinopharm from other development partners. The Ministry of Health (MOH) launched a campaign and kicked off the deployment plan for the Covid-19 vaccines roll out on 5 March, 2021 with priority being given to frontline health workers and essential staff including security personnel. According to the National Covid-19 vaccine deployment plan, the first vaccine plan was developed in March 2021, and was subsequently revised by the MOH in August 2021 in an effort to cover the entire adult population in the country.

Siaya County received its first consignment of 3,000 Astra Zeneca-Oxford Covid-19 vaccines in March 2021 through the Kisumu Regional Vaccines Store. The vaccine doses were first administered at Siaya County Referral Hospital before being rolled out to the facilities in the six (6) Sub-Counties. As at 31 March, 2022, the Special Audit Team established that the County had received 551,400 vaccines doses as tabulated below:

Type of Vaccine	Number of Doses
Moderna	39,720
Janssen (Ad26.COV2_S)	68,100
Oxford/AstraZeneca	204,900
Pfizer	238,680
Total	551,400

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 Siaya 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

TOR	Detailed Procedures
1. Budget	• How much was set aside for vaccines and related activities and how the figures were arrived at? • Budget approval process • Allocation of the funds i.e. specific budget items • Source of funds i.e. GOK and Donors
2. Sources of Vaccines	• GOK Procured vaccines, development collaborate donations and COVAX etc. • 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.
3. Storage of Vaccines	• Manufacturer's requirements for storage of vaccines • Local storage capacity. • Local storage conditions. • Handling requirements. • Transportation requirements. • Recording including batch numbers • Stocking levels, process of issuing of vaccines as well as duration. • Recording and accountability.

TOR	Detailed Procedures
	• Duration in store. • Storage of defective vaccines/Syringes. • Cost Vs Budget.
4. Distribution	• How many 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. • Recording and accountability. • Cost vs budget.
5. Utilization	• 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	• 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	• Number of persons involved. • Roles and responsibilities. • Expertise (capacity/skills).

TOR	Detailed Procedures
and County Staff)	• Duplication of roles is any. • Selection and appointment criteria. • Training Plans and Roll Out. • Costs vs budgets.
8. Coordination of players	• Who are the key players? • Are the roles and responsibilities of the players clear? • Is there a framework for coordination and communication of players? • Approval and appointment of taskforce and committees • Costs vs budgets.
9. Monitoring and supervision	• 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 commencement of Covid-19 vaccines roll out through budgeting to administration and disposal including the governance and monitoring structures. The period covered was from commencement of vaccination 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. Vaccine damages and wastages not recorded by the vaccinating facilities. This was mitigated by referring to the vaccine wastages uploaded in the Chanjo System.

- ii. Not all the vaccinating facilities defined in the Chanjo System. This was mitigated by getting the number of vaccinating facilities from the Sub-County Stores and carrying out 100% physical verification in all of their vaccine records.
- iii. Manual records in some facilities were not accurate; the Audit Team solely relied on the Chanjo System in such instances.
- iv. Accuracy and completeness of inventory records; the Audit Team corroborated information in the physical records such as order sheets and vaccines stock ledgers with information in the Chanjo System.
- v. The Chanjo System would indicate that the vaccines received from the Regional Store have all been issued to a vaccinating facility when in reality they were either in the Sub-County Store or issued to more than one facility. The audit Team had to use the data from the forms used- for vaccines receipts, utilization and balances at the individual facility while reconciling it with the Chanjo System.

2.4 Audit Approach and Methodology

The Special Audit Team held entry and exit meetings with the County Health Management Team on 9 May 2022 and 2 June 2022 respectively. 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 Sub-County Stores and vaccinating facilities.

2.4.3 Physical Verification

The Audit Team carried out physical verifications in the five (5) Sub-County stores and the 106 vaccinating facilities in County as detailed in **Appendix 1**.

2.4.4 Interviews

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

Table 2: Interviews

	Name	Organization	Designation
1.	Cleophas Ombogo	Siaya County	CECM- Finance & Economic Planning
2.	Dr. Eunice Fwaya	Siaya County	Acting Chief Officer - Health
3.	Mr. Joshua Ondiego	Siaya County	CEPIL - Health
4.	Mr. Onyiego	Siaya County	County Public Health Nurse
5.	Ms. Lucy Wanyama	Siaya County	Public Health Nurse Bondo Sub-County
5	Ms. Beatrice Omolo	Siaya County	Public Health Nurse Ugunja Sub-County
6	Vincent Omwanga	Siaya County	Public Health Nurse Yala Sub-County

2.5 Audit Phases

The audit was divided into Two Phases; Phase One involved review of the processes at The National Treasury, Office of the Controller of Budget and the Ministry of Health. It also involved the analysis of data maintained by 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 county office in Siaya and the vaccinating facilities. This Phase also involved verification and interview of staff.

2.6 Report Structure

This report is presented in the following format:

- i. Executive Summary,
- ii. Background and Introduction,
- iii. Detailed Findings,
- iv. Irregularities and weaknesses in management and controls of vaccines in Institutions,

- v. Recommendations, and
- vi. Appendices.

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

3.0 DETAILED FINDINGS

3.1 Budget and Sources of Vaccines

3.1.1 Unconfirmed Funding of Covid-19 Vaccination Activities

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 in the said 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 partner organizations, but this was not supported by way of any documentary evidence such as agreements.

Minutes of the Siaya Covid-19, 20 days vaccination Rapid Result Initiative Micro plan costing held on 16 November 2021 indicated that a budget of Kshs.6,689,183 was proposed for service delivery on outreach services. The source of the funds was however not disclosed. There were also no documents provided for audit review to confirm that the budget was met and actualized.

3.1.2 Sources of Vaccines

The County received 551,400 vaccines between March 2021 and 31 March, 2022 from the National Government. Review of the County's Health Services Budget for the financial years 2021/2022 budget revealed that there were no provisions for Covid-19 vaccine roll out. Further, the Special Audit revealed the following anomalies as summarised below and detailed in **Appendix 2:**

Table 3: Sources of Vaccines

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

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.

However, visits to the facilities revealed that some facilities within the County did not have refrigeration and had to use nearby facilities to store their vaccines.

3.2.1 Storage at the County and Sub-County Stores

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

Table 4: Storage at Counties and Sub-Counties Stores

Observations/Findings	Number of Compliant Sub-County Stores	Number of Non-Compliant Sub-County Stores
Store has sufficient security to prevent loss of Covid-19 vaccines as well as prevent unauthorized access	6	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.	6	0
Broken or damaged items are withdrawn from usable stock and stored separately	6	0
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	6	0
All Covid-19 vaccines stored off the floor	6	0
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	6	0
The vaccines issued on a First In First Out (FIFO) method and guided by the expiry date	6	0
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	5	1
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	6	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	6

Observations/Findings	Number of Compliant Sub-County Stores	Number of Non-Compliant Sub-County Stores
A cleaning log must be completed, signed, and checked by the appropriately designated person.	0	6
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	6
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	4	2
The Covid-19 vaccines were stored in such a way as to prevent contamination or cross-contamination.	6	0
Storage Conditions		
The storage conditions were compatible with the storage conditions specified on their labels. (Storage facilities protected goods from deterioration.)	6	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.	0	6
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	6	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.	6	0
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	6	0

From the foregoing, the Special Audit Team confirmed that Siaya Sub-County Stores did not have the adequate written procedures on sanitation, pest control while chance of cleaning logs was found to be insufficient.

3.2.2 Storage at the Facilities Level

Review of documents provided for audit and physical verification carried out at the 106 facilities revealed issues as summarized in **Table 5** below and detailed in **Appendix 4**.

Table 5: Storage at the Facilities Level

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
Store has sufficient security to prevent loss of Covid-19 vaccines as well as prevent unauthorized access	96	10
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.	N/a	N/a
Broken or damaged items are withdrawn from usable stock and stored separately	51	55
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	103	3
All Covid-19 vaccines stored off the floor	97	9
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	55	51
The vaccines issued on a FIFE method and guided by the expiry date	106	0
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	88	18
General Storage Areas		
There were Secure measures to ensure that rejected vaccines cannot be used. Rejected vaccines are	97	9

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
stored separately from other products while awaiting destruction or return to the supplier		
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	13	93
A cleaning log must be completed, signed, and checked by the appropriately designated person.	31	75
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.	N/a	N/a
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	90	16
The Covid-19 vaccines were stored in such a way as to prevent contamination or cross-contamination.	N/a	N/a
Storage Conditions		
The storage conditions were compatible with the storage conditions specified on their labels. (Storage facilities protected goods from deterioration.)	N/a	N/a
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.	N/a	N/a
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	101	5
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.	86	20

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	100	6

In view of the above, the Special Audit team confirmed that a significant number of Siaya County Covid-19 vaccinating facilities did not have written procedures on sanitation clean-up of any spillage nor maintenance 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 arriving in the country should ideally have been taken to the Central Stores where they are distributed to the regional Stores. The Regional Stores were then to distribute to the county stores which in turn distribute to sub- county Stores and to the facilities.

The 551,400 vaccines received in the County as at 31 March, 2022 were distributed to the Sub-Counties and Facilities summarized below:

Table 6: Distribution at County Level

Vaccine Type	Distributed to Sub-County Stores	Distributed to Facilities
Janssen (Ad26.COV2-S)	68,100	46,275
Moderna	39,720	39,013
Oxford/AstraZeneca	204,900	172,125
Pfizer	238,680	211,836
Total	551,400	469,249

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

The Special Audit revealed that 86 out of 106 vaccinating facilities failed to monitor temperature during transportation of vaccines. As a result, it may not be possible to ascertain if the temperatures deviated from the specified range.

3.4 Utilization of Vaccines

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

Examination of data maintained in the Chanjo System revealed that as at 31 March, 2022, a total of 551,400 doses of Covid-19 vaccines had been received in the county.

Documents provided for audit revealed that there were 109 facilities that were mapped in the Chanjo System. In addition, there were six Sub-County health facilities that served as vaccinating facilities.

Analysis of data maintained by the Chanjo System and physical verification revealed that there were 70 vaccinating facilities that were not mapped in the Chanjo System and were sharing credentials with other facilities.

Out of the total 551,400 Covid-19 Vaccine Doses received in the County, 469,249 doses were administered, 46,418 were still in stock while the balance of 12,153 was either expired, 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 31,387 vaccine doses.

Table 7: Utilization of Vaccines

Vaccine Type	Doses Received	Doses Administered	Doses in Stock	Doses Expired	Doses Damaged	Doses Wasted	Unexplained Variance doses	Estimate Price Per Dose	Total Amount (Kshs.)
Janssen	68,100	46,275	19,565	2,262	0	525	(527) ¹	753	(396,831)
Moderna	39,720	39,013	6,761	3	0	1,223	(7,280) ¹	505	(3,676,400)
Oxford/AstraZeneca	204,900	172,125	19,727	64	0	1,105	11,879	446	5,298,034
Pfizer	238,680	211,836	365	5,433	0	1538	19,508	670	13,070,360
Total	551,400	469,249	46,418	7,762	0	4,391	31,387		18,368,394

¹Denotes positive variances attributed to vaccine gains

3.4.1 Administered Doses

The Chanjo System indicates that a total of 469,249 doses had been administered in the county from 01 March 2021 to 31 March, 2022. The vaccines doses administered are as summarized below and detailed in **Appendix 6**.

S/n	Vaccine Type	First Doses	Second Doses	Booster Doses	Grand Total
1	AstraZeneca	109,875	59,644	2,966	171,485
2	Moderna	22,909	15,937	497	39,005
3	Janssen	45,215	0	13	45,228
4	Pfizer	144,307	65,562	2,324	211,148
	Grand Total	322,306	141,143	5,800	469,249

3.4.2 Expired Doses

These are vaccine doses that had not been administered by the manufacturer's use by date indicated on the vials totalling to 100 doses. None 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 the Sub-County stores. The 100 expired doses from batch number 210157 were received Inuka Hospital and Maternity 7 days to its expiry date.

3.4.3 Damaged Doses

There were no reported damaged vaccine doses at the County by the time of the Special Audit in May 2022.

3.4.4 Wasted Doses

These were vaccines doses that were not administered due to failure to utilise within the stipulated timelines after opening of the vial. 4,391 vaccines doses were reported wasted in the County and had been disposed off by the time of the Special Audit in May 2022.

3.4.5 Unexplained Vaccine Variances

Documents provided for audit revealed that 551,400 vaccines doses were received in the County. However, reconciliation of the vaccines received, administered, in stock, expired, damaged and wasted revealed an unexplained deficit variance of 31,387 doses valued at

KShs.18,368,394. Further, Janssen and Moderna Vaccines indicated positive variances of 527 and 7,280 doses respectively totalling to 7,807 vaccine doses. This was mainly attributed to gains during the vaccine administration.

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 in facilities not defined in the Chanjo System may not have been subsequently updated, and
- c. Vaccination data was not entered accurately, causing over administration in some batches and under administration in others.

3.5 Disposal of Vaccines

The Special Audit noted that out of the 7,762 expired vaccine doses, 2,135 had not been disposed off as at the time of the audit leaving a balance of 5,627 in the Sub-County Stores and facilities.

Review of documents provided for audit revealed non-compliance with the disposal requirements as per Section 6.1 of the WHO Standards Operating Procedure (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 the vaccination activity analysis (e.g. utilization, coverage, wastage etc). Further, Section 6.6 provides that neutralises Covid-19 vaccine vials can be safely disposed in a manner that is not accessible or re-usable and not being an environmental nor a health threat. The findings on disposal of vaccines are as summarised below in **Table 8** and detailed in **Appendix 7 & 8**.

Table 8: Disposal of Vaccines

Observation/Findings	Sub-County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a waste management plan	3	3	106	0
Lack of budget for disposal of Covid-19 waste	0	6	0	106
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.	N/a	N/a	N/a	N/a
Failure to record or to account for vaccine vials in the vaccine inventory report	0	6	106	0
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	6	0	106
Failure to dispose in a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste	0	6	6	100
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.	0	6	0	106
Disposing without a certificate of safe disposal of pharmaceutical waste in compliance with the Guidelines for secure management of pharmaceutical waste	N/a	N/a	0	106
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	N/a	N/a	106	0

Observation/Findings	Sub-County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
and WHO Waste management of used Covid-19 vaccines vials and ancillary supply				
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	10	153
Failure to have a pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical	N/a	N/a	106	0
Lack of an incinerator, burning chamber or burning pit.	N/a	N/a	106	0

In the circumstances, the undisposed expired, damaged and wasted vaccines may pose health risk to the public and the health officers.

3.6 Human Resource Matters

Training at County Level

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

Immediately after the Covid-19 vaccines were rolled out, trainings for different level personnel in the National and County Governments were conducted. Siaya county Health Management team indicated that in the five (5) Sub-Counties were undertaken through

the support of partners. However, no documentation regarding donor facilitation, training plan, training timetable, the attendance list, the cost to the donor, number of trainees per county and training reports were not provided.

Review of the documents provided for audit revealed anomalies as summarized below and detailed in **Appendix 9** and **Appendix 10**.

Table 9: Training at County level

Observation/Findings	Sub-County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
County and Sub- Counties were not represented in National training for ToT.	6	0	N/a	N/a
Counties and Sub- Counties health management team not trained on Covid-19 immunization	6	0	106	0
Trainings not well spread to all necessary cadres	6	0	106	0
Lack of a training plan and trainings not done as per training plan	0	6	0	106
Lack of a specific training budget for Covid-19 immunization	0	6	0	106
Variance between budget and actual expenditure for training on Covid-19 vaccination.	0	6	0	106
Lack of details including designation, attendance dates, financier of staff at national/county/Sub-County/facility	0	6	6	100
Lack of adequate staff to carry out the Covid-19 vaccination	N/a	N/a	26	80
Lack of separation of roles and duties	N/a	N/a	37	69
Lack of prior training on Covid-19 including vaccine administration	N/a	N/a	106	0
Failure to use trained staff to train other staff	N/a	N/a	106	0

In the circumstances, the Special Audit Team could not establish the adequacy of Human resources engagement in the Covid-19 vaccine roll out programme.

3.7 Coordination of Players

Coordination at County Level

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

Table 10: Coordination at Sub-County Level

Observation/Findings	County	Sub-County Stores		Facilities	
	Non-Compliance in County	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure to form coordination taskforce/committee	0	5	1	N/a	N/a
Task force /committee without terms of reference (TOR)	0	3	3	N/a	N/a
Failure to comply with the TORS	0	3	3	N/a	N/a
Lack of directives/advisory/instruction from higher levels in the Covid-19 Vaccine management	0	6	0	106	0
Lack of upward/downward communication in Covid-19 Vaccine Roll out	0	6	0	106	0
Lack of committee meetings	0	5	1	6	100
Failure to carry out advocacy	0	6	0	106	0
Failure to carry out mobilization	0	6	0	106	0
Failure to carry out mobilization outreaches	0	6	0	106	0

From the foregoing, five of the six Sub-Counties did not have any documentation on the Terms of Reference and therefore could not establish compliance.

3.8 Monitoring and Supervision

Monitoring and Supervision at the County and Facilities Level

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 15 and 16**.

Table 11: Monitoring and Supervision at the County and Facilities

Observation/Findings	County		Sub-County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a designated officer as an in charge for monitoring Covid-19 vaccine roll out.	0	1	6	0	106	N/a
Lack tablets from the Ministry	1	0	6	0	53	53
Tablet not in good working conditions	0	1	6	0	97	9
Personnel involved in the rollout not facilitated by air time	0	1	6	0	51	55
Lack of mechanism/ measures where patients could report adverse effect after vaccination.	1	0	6	0	106	0
Lack of Adverse effect booklet etc. that are required to report adverse effects	0	0	6	0	78	28
Failure to monitor temperature during transportation of vaccines	N/a	N/a	3	3	11	95
Failure to record temperature every morning and evening in the temperature monitoring chart/tool	N/a	N/a	6	0	106	0
Failure to monitor for the expiry of the vaccines	N/a	N/a	6	0	106	0
Failure to monitor the Pfizer and Moderna vaccines for the 30 days expiry period after thawing	N/a	N/a	6	0	106	0

In view of the above, the facilities failed to monitor temperatures during transportation of the Vaccines to ascertain deviations beyond the acceptable standards set by WHO. Further, of the 106 facilities, 53 facilities had received computer tablets from the MOH for use in recording vaccines, receipts and administration. 9 of the 53 recipients of Computer

tablets indicated that they were not functional and therefore could not be used to update data in the Chanjo System.

Consequently, not all facilities were issued with computer tablets for accessing the Chanjo System.

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

Irregularities and Weaknesses at the County and Sub-County Level

The following are the irregularities and weaknesses observed at the County and Sub-County levels and the corresponding recommendations.

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

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

5.0 CONCLUSION

The objective of the Special audit was to determine the efficiency and effectiveness of the Covid-19 vaccine roll out in Siaya 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. The above weaknesses resulted in an unexplained variance (deficit) of 31,387 vaccine doses valued at Kshs.18,368,394 based on the average Vaccine cost during the period.

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


CPA Nancy Gathungu, CBS
AUDITOR-GENERAL

Nairobi

29 June, 2022

6.0 APPENDICES

Appendix 1: Sub-Counties and Facilities in Siaya County

Sub-County	Sub-County Store/Depot	Facilities	In Chanjo
Alego Usonga	Alego Usonga County Store	Siaya County Referral Hospital	Yes
		Rwabwa Sub-County Hospital	Yes
		Hawinga Health Center	Yes
		Jamii Services	Yes
		Nyathengo Dispensary	Yes
		Kogelo Dispensary	Yes
		Bar Agulu Health Center	Yes
		Nyadhi Dispensary	Yes
		Kaluo Dispensary	Yes
		Boro Dispensary	Yes
		Karuoth Dispensary	Yes
		Ngiya Health	Yes
		Muhala Dispensary	Yes
		Bar Alego	Yes
		Kadenge Ratuor	Yes
		Randago Dispensary	Yes
		Got Kayembe Dispensary	Yes
		Kabure Uhuyi Dispensary	Yes
		Mwer Dispensary	Yes
		Pap Oriang Dispensary	Yes
		Urahi Dispensary	Yes
		Uhembo Dispensary	Yes
		Nyambare Health Center	Yes
		Simba Community Hospital	Yes
Unguja Sub-County	Ambira Sub-County Hosp	Simenya Health Center	Yes
		Ligaga Health Center	Yes
		Rambula Disp	Yes
		Sigomere Sub-County Hospital	Yes
		Ting'ang'a Catholic Dispensary	Yes
Bondo Sub-County	Bondo Sub-County Hosp.	Bondo Sub-County Hospital	Yes
		Got Mater	Yes
		Kapiyo Health Center	Yes
		Usigu Dispensary	Yes
		Kamabanjo Dispensary	Yes
		Gobei Health Center	Yes

Sub-County	Sub-County Store/Depot	Facilities	In Chanjo
		Kibuye Dispensary	Yes
		Got Agulu Sub-County Hospital	Yes
		Othach Dispensary	Yes
		Mawere Dispensary	Yes
		Uyawu Sub-County Hospital	Yes
		Radier Dispensary	Yes
		Masinya Dispensary	Yes
		Anyuongi Dispensary	Yes
		Usenge Dispensary	Yes
		Got Wiyo Dispensary	Yes
		Ogam Dispensary	Yes
Gem Sub-County	Wagai Health Center	Ramula Health Center	Yes
		Malanga Health Center	Yes
		Masogo Dispensary	Yes
		Nyawara Dispensary	Yes
		Yala Sub-County Hospital	Yes
		Ndere Health Center	Yes
		Uthanya Dispensary	Yes
		Inuka Hosp. and Maternity	Yes
		Gondo Health Center	Yes
		Siala Kaduol Dispensary	Yes
		Lidha Dispensary	Yes
		Sagam Comm. Hospital	Yes
		Sirembe Dispensary	Yes
		Ruoth Hospital	Yes
		Nduga Dispensary	Yes
		OLengo Dispensary	Yes
		Royal Vict Hospital	Yes
		Lihanda Hospital	Yes
		Malunga Dispensary	Yes
		Mary Rosa Mindhine Health Cent	Yes
		Jophas Clinic	Yes
		Kambare	Yes
		Tatro Health Center	Yes
		Dienga Health Center	Yes
		Barsaun Health Center	Yes
		Dolphin Nursing and Maternity	Yes
Rarienda Sub-County	Madiany Sub-County Hospital	Naya Health Center	Yes
		Misori Dispensary	Yes
		Abidha Health Center	Yes

Sub-County	Sub-County Store/Depot	Facilities	In Chanjo
		Mahaya Health Center	Yes
		Onglelo Health Center	Yes
		Manyuanda	Yes
		Ndori Health Center	Yes
		Onglelo Health Center	Yes
Ugenya Sub-County	Ukwala Level IV Hospital	Bar Achuth	Yes
		Nyang'u Dispensary	Yes
		Sifuyo Health Center	Yes
		Bar Ndege Dispensary	Yes
		Sega Dispensary	Yes
		Sega Mission Hospital	Yes
		Obwogire Dispensary	Yes
		Luthehe Dispensary	Yes
		Kenya Community Dispensary	Yes
		Ligala Dispensary	Yes
		Umer Dispensary	Yes
		Wandanya Dispensary	Yes
		Urenga Health Center	Yes
		Matibabu Ukwala	Yes

Appendix 2: Budget at County and Sub-County Level – Siaya County

Audit Procedures	B1	B2	B3	B4	B5	B6	B7	B8
Siaya County	No	Yes	Yes	No	No	No	No	No
Alego Usonga	No	Yes	Yes	No	No	No	No	No
Ugunja	No	Yes	Yes	No	No	No	No	No
Bondo	No	Yes	Yes	No	No	No	No	No
Gem	No	Yes	Yes	No	No	No	No	No
Rarieda	No	Yes	Yes	No	No	No	No	No
Ugenya	No	Yes	Yes	No	No	No	No	No
Compliance	0	6	6	0	0	0	0	0
Non-Compliance	6	0	0	6	6	6	6	6

KEY/DETAILS:

B1	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 spent on Covid-19 vaccination?
B4	Did the Sub-County/Facility finance the following costs related to Covid-19 vaccination;
B5	i) Distribution of Vaccines/
B6	ii) Outreaches
B7	iii) Trainings
B8	iv) Acquisition of auxiliary facilities (Temperature monitoring tools, Adverse effect reporting booklet, Needles etc.)?

Appendix 3: Storage at Sub-County Level – Siaya County

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
Alego Usonga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Ugunja	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Bondo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Gem	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Rarieda	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Ugenya	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Compliant	6	6	6	6	6	6	6	5	6	0	0	0	4	6	6	0	6	6	6
Non-Compliant	0	0	0	0	0	0	0	1	0	6	6	6	2	0	0	6	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 FIFE method and guided by the expiry date?
S8	Is there a contingency plan put in place in case of power failure, equipment breakdown, or cold chain breach?
S9	Are there Secure measures to ensure that rejected vaccines can't be used? Are they stored separately from other products while awaiting destruction or return to the supplier?
S10	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas?
S11	Is there a cleaning log that must be completed, signed, and checked by the appropriately designated person?
S12	Is there a written procedure and a program for pest control? Do the pest control agents used pose any risk of contaminating the vaccines? (A site flow plan indicating where the bait stations are situated must be available.)
S13	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
S14	Are the Covid-19 vaccines stored in such a way as to prevent contamination or cross-contamination?
S15	Are the storage conditions compatible with the storage conditions specified on their labels? (Storage facilities should protect goods from deterioration.)
S16	Are the warehouse maintained at a temperature not exceeding 30 °C, and relative humidity not exceeding 75% Relative humidity (WHO zone IVb requirements) at all times?
S17	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
S18	Are there continuous temperature monitoring devices? If ✓, are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?
S19	Dose the county have any stock in the Cold Room. If ✓ perform Physical count of Doses in the cold room (Grouped per vaccine and Batch X.) and populate the remarks and hyperlink in the remarks column a paper tabulating the results of the count.

Appendix 4: Storage at Facility Level – Siaya County

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
Alego Usonga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
	Yes	No	Yes	No	No	Yes	No	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No
	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Bondo Sub	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Got Agulu	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Othach	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Mawere	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Uyawi SC	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Radier	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Masinya	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes
Anyuongi	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Got Winyo	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Ogam	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Gem Sub-County	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes
Rera	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes
Wagai	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Ramula	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Malanga	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Masogo	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Nyawara	No	No	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
Yala Sc	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Ndere	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
Uthanya	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
Inuka	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Gongo	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Siala Kadiuol	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No	No	Yes	No
Lidha	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Sagam	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sirembe	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Ruoth	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
Nduga	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
Olengo	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
Royal Vic	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
Lihanda	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Malunga	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Maryrosa	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Jophas	No	No	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Kambare	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Tatro	No	No	No	No	No	Yes	No	Yes	No	No	No	No
Dienga	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Barsauri	No	Yes	No	No	No	Yes	No	Yes	No	No	No	No
Dolphin	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
Rarieda												
	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Ugenya												
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
	Yes	No	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
Ugunja	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
	Yes	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
	No	No	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
	96	51	103	97	55	106	88	97	13	31	101	86
	10	55	3	9	51	0	18	9	93	75	5	20

KEY/DETAILS:

ST1	Is the refrigerator well secured to prevent unauthorized access?
ST2	Were broken or damaged items withdrawn from usable stock and stored separately?
ST3	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
ST4	Are all Covid-19 vaccines (Fridge) stored off the floor?
ST5	Is the Refrigerator is fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)

ST6	Are the vaccines issued on a FIFO method and guided by the expiry date?
ST7	Is there a contingency plan in case of power failure, equipment breakdown, or cold chain breach
ST8	Are there measures to ensure that rejected vaccines cannot be used? (They should be stored separately from other products while awaiting destruction or return to the supplier)
ST9	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas (There should be a chart on the wall that is signed after every cleaning and a poster giving cleaning instructions)
ST10	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
ST11	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
ST12	Is there Continuous temperature monitoring devices? If ✓, are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?

Appendix 5 – Receipts at Siaya Sub-Counties up to March 2022

Vaccine	Sub-County	Facilities	Total
JANSSEN	Gem	Wagai Health Centre	9210
	Rarieda	Madiany Sub-County Hospital	10990
	Ugunja	Simenya Health Centre	6950
	Ugenya	Ukwala Sub-County Hospital	9000
	Bondo	Bondo Sub-County Hospital	11650
	Alego Usonga	Siaya Referral Hospital	13690
	Total		61490
Moderna	Gem	Wagai Health Centre	10772
	Rarieda	Madiany Sub-County Hospital	5194
	Ugunja	Simenya Health Centre	7392
	Ugenya	Ukwala Sub-County Hospital	6342
	Bondo	Bondo Sub-County Hospital	7280
	Alego Usonga	Siaya Referral Hospital	10864
	Total		47844
Astrazeneca	Gem	Wagai Health Centre	30584
	Rarieda	Madiany Sub-County Hospital	32680
	Ugunja	Simenya Health Centre	32597
	Ugenya	Ukwala Sub-County Hospital	22550
	Bondo	Bondo Sub-County Hospital	8026
	Alego Usonga	Siaya Referral Hospital	45070
	Total		171507
Phizer	Gem	Wagai Health Centre	40000
	Rarieda	Madiany Sub-County Hospital	24510
	Ugunja	Simenya Health Centre	29310

Vaccine	Sub-County	Facilities	Total
	Ugenya	Ukwala Sub-County Hospital	34594
	Bondo	Bondo Sub-County Hospital	35298
	Alego Usonga	Siaya Referral Hospital	51036
	Total		214,748

Appendix 6 - Utilization at Siaya County Facilities Up to March 2022

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
Janssen (Ad26.COV2)	Uradi Health Centre	50	15	35	0	0	0	0	35
	Ulaful Dispensary	50	22	28	8	0	0	15	5
	Ting'Wangi Health Centre	540	151	389	22	0	0	1	366
	Sumba Community Dispensary	100	4	96	5	0	0	8	83
	Siaya Medical Centre	300	19	281	1	0	0	0	280
	Siaya County Referral Hospital	2707	1055	1652	122	0	0	106	1424
	Bar Agulu Dispensary	50	24	26	15	0	0	0	11
	Bar Olengo Dispensary	50	12	38	7	0	0	12	19
	Rwambwa Sub-County Hospital	300	23	277	3	0	0	0	274
	Barding Dispensary	50	4	46	0	0	0	0	46
	Benga Dispensary	50	8	42	6	0	0	10	26
	Randago Dispensary	50	5	45	0	0	0	4	41
	Rabar Health Centre	150	10	140	10	0	0	0	130
	Boro Dispensary	150	41	109	14	0	0	43	52
	Pap Oriang' Dispensary	50	29	21	0	0	0	-57	78
	Oasis Health Siaya	50	11	39	2	0	0	3	34
	Future Life Dispensary	50	14	36	2	0	0	16	18
	Nyadhi Dispensary	50	6	44	2	0	0	4	38
	Ng'lya Health Centre	50	13	37	7	0	0	0	30
	Nduru Dispensary	50	4	46	2	0	0	8	36
	Mwer Dispensary	50	11	39	2	0	0	31	6
	Mulaha Dispensary	200	54	146	10	0	0	-1	137
	Got Koyembe Dispensary	20	0	20	4	0	0	2	14

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Hawinga Health Centre	300	100	200	0	0	0	4	196
	Kogelo Dispensary	425	246	179	2	0	0	0	177
	Karuoth Dispensary	550	211	339	12	0	0	-404	731
	Kaluo Health Centre	100	22	78	0	0	0	5	73
	Kabura Uhuyi Dispensary	48	12	36	6	0	0	0	30
	Kadenge Ratuoro Health Centre	100	219	-119	0	0	0	5	-124
	Uyawi ACH	150	385	-235	29	0	0	0	-264
	Usigu Health Centre	130	886	-756	97	0	0	0	-853
	Usenge Dispensary	1000	282	718	5	0	0	0	713
	Radier Dispensary	20	3	17	1	0	0	0	16
	Othach Dispensary	50	40	10	44	0	0	0	-34
	Nyaguda Health Center	25	333	-308	4	0	0	0	-312
	Masinya Dispensary	200	7	193	0	0	0	0	193
	Kapiyo Health Centre	100	4	96	0	0	0	0	96
	Kambajo Dispensary	650	948	-298	35	0	0	0	-333
	Got Winyo Dispensary	20	5	15	0	0	0	0	15
	Got Agulu Sub-District Hospital	300	1418	-1118	110	0	0	0	-1228
	Gobei Health Centre	100	40	60	31	0	0	0	29
	Bondo County Referral Hospital	5750	628	5122	114	0	0	0	5008
	Akala Health Centre	200	192	8	90	0	0	0	-82
	Yala SCH	2110	1581	529	30	0	0	0	499
	Asayi Dispensary	550	186	364	0	0	0	0	358
	Wagai Health Centre	80	552	-472	23	0	0	0	-495
	Tatro Dispensary	10	3	7	15	0	0	0	-8
	St Mary's Yala Dispensary	20	0	20	26	0	0	0	-6

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Sirembe Dispensary	100	46	54	55	0	0	0	-1
	Siala Kaduol	100	0	100	9	0	0	0	91
	Bar Sauri Health Centre	580	309	271	6	0	0	0	265
	Sagam Community Hospital	1080	1096	-16	12	0	0	0	-28
	Ruoth'S Hospital	20	10	10	13	0	0	0	-3
	Rera Health Centre	450	211	239	16	0	0	0	223
	Dolphil Nursing & Maternity Home	50	41	9	1	0	0	0	8
	Ramula Health Centre	410	1041	-631	52	0	0	0	-683
	Olengo Dispensary	20	8	12	1	0	0	0	11
	Nyawara Health Centre	580	604	-24	22	0	0	0	-46
	Ndere Health Centre	630	512	118	57	0	0	18	43
	Inuka Hospital & Maternity Home	850	575	275	15	0	0	53	207
	Masogo Dispensary (Gem)	700	361	339	21	0	0	376	-58
	Malanga Health Centre	500	266	234	75	0	0	82	77
	Lihanda Health Centre	90	14	76	7	0	0	0	69
	Lidha Dispensary	80	25	55	99	0	0	0	-44
	Rageng'Ni Dispensary	800	865	-65	66	0	0	0	-131
	Ong'lelo Model Health Centre	1400	576	824	55	0	0	0	769
	Ndori Health Centre	1000	937	63	13	0	0	4	46
	Naya Health Centre	1400	1122	278	28	0	0	0	250
	Misori Dispensary	350	419	-69	4	0	0	0	-73
	Mahaya Health Centre (Rarieda)	2680	1515	1165	192	0	0	3	970
	Madiany Sub-County Hospital	3360	1375	1985	16	0	0	0	1969
	Urenga Health Centre	400	625	-225	14	0	0	0	-239
	Umer Dispensary	20	10	10	15	0	0	-1	-4

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Ukwala SCH	4422	1619	2803	18	0	0	0	2785
	Bar Achuth Dispensary	600	338	262	37	0	0	66	159
	Sifuyo Health Centre	50	5	45	11	0	0	0	34
	Bar Ndege Dispensary	408	513	-105	61	0	0	0	-166
	Sega Mission Hospital	1800	2333	-433	31	0	0	0	-464
	Sega Dispensary	150	28	122	81	0	0	0	41
	Obwogre Dispensary	50	1	49	3	0	0	22	24
	Nyangu Dispensary	400	413	13	34	0	0	0	-47
	Luthehe Dispensary	150	32	118	14	0	0	0	104
	Ligala Dispensary	300	88	212	61	0	0	10	141
	Konya Community Dispensary	50	56	-6	0	0	0		-6
	Jera Dispensary	200	21	179	16	0	0	45	16
	Simenya Health Centre	50	6	44	0	0	0	0	44
	Sigomere Sub-County Hospital	3550	1523	2027	35	0	0	-15	2007
	Ambira Sub-County Hospital	3120	2492	628	78	0	0	47	503
	Ligega Health Centre	230	27	203	0	0	0	0	203
	Total	68,100	46,275	19,565	2,262	0	0	525	527

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
Moderna	Ting'Wangi Health Centre	80	65	15	0	0	0	10	5
	Sumba Community Dispensary	58	23	35	0	0	0	18	17
	Siaya Medical Centre	84	24	60	0	0	0	30	30
	Siaya County Referral Hospital	1110	1346	-236	0	0	0	195	-431
	Rwambwa Sub-County Hospital	572	107	465	0	0	0	45	420
	Rabar Health Centre	126	60	66	0	0	0	0	66
	Mulaha Dispensary	56	39	17	0	0	0	-4	21
	Hawinga Health Centre	84	77	7	0	0	0	0	7
	Kogelo Dispensary	168	74	94	0	0	0	0	94
	Kaluo Health Centre	140	124	16	0	0	0	51	-35
	Akala Health Centre	308	53	255	0	0	0	0	255
	Yala SCH	4545	2762	1783	0	0	0	0	1783
	Asayi Dispensary	140	27	113	0	0	0	0	113
	Wagai Health Centre	200	48	152	1	0	0	0	151
	Bar Sauri Health Centre	252	7	245	0	0	0	0	245
	Sagam Community Hospital	3297	3208	89	1	0	0	0	88
	Rera Health Centre	140	105	35	0	0	0	0	35
	Ramula Health Centre	700	577	123	1	0	0	0	122
	Nyawara Health Centre	238	203	35	0	0	0	8	27
	Inuka Hospital & Maternity Home	952	862	90	0	0	0	57	33
	Rageng'Ni Dispensary	70	3	67	0	0	0	0	67
	Ong'lelo Model Health Centre	420	38	382	0	0	0	40	342

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Ndori Health Centre	140	178	-38	0	0	0	23	-61
	Naya Health Centre	140	219	-79	0	0	0	0	-79
	Misori Dispensary	70	122	-52	0	0	0	0	-52
	Mahaya Health Centre (Rarieda)	380	177	203	0	0	0	47	156
	Madiany Sub-County Hospital	3974	4799	-825	0	0	0	62	-887
	Urenga Health Centre	642	521	121	0	0	0	87	34
	Ukwala SCH	3564	1974	1590	0	0	0	-3	1593
	Bar Achuth Dispensary	182	130	52	0	0	0	51	1
	Bar Ndege Dispensary	266	155	111	0	0	0	0	111
	Sega Mission Hospital	1226	1303	-77	0	0	0	94	-171
	Nyangu Dispensary	182	270	-88	0	0	0	0	-88
	Jera Dispensary	280	256	24	0	0	0	16	15
	Ambira Sub-County Hospital	3656	2777	879	0	0	0	351	528
	Sigomere Sub-County Hospital	3736	2704	1032	0	0	0	45	987
	Total	39,720	39,013	6,761	3	0	0	1,223	(7,280)

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
Oxford/AstraZeneca	Uradi Health Centre	150	28	122	0	0	0	0	122
	Ulaful Dispensary	40	18	22	0	0	0	26	-4
	Uhembo Dispensary	20	0	20	0	0	0	0	20
	Ting'Wang' Health Centre	20	16	4	0	0	0	0	4
	Sumba Community Dispensary	30	0	30	0	0	0	0	30
	Siaya Medical Centre	10	2	8	0	0	0	0	8
	Siaya County Referral Hospital	420	217	203	0	0	0	58	145
	Bar Agulu Dispensary	30	14	16	0	0	0	0	16
	Bar Olengo Dispensary	100	67	33	0	0	0	3	30
	Segere Dispensary	150	43	107	0	0	0	0	107
	Barding Dispensary	110	76	34	0	0	0	6	28
	Benga Dispensary	60	5	55	0	0	0	3	52
	Rwambwa Sub-County Hospital	50	119	-69	0	0	0	0	-69
	Randago Dispensary	50	19	31	0	0	0	0	31
	Rabar Health Centre	100	185	-85	0	0	0	0	-85
	Boro Dispensary	100	52	48	0	0	0	36	12
	Pap Oriang' Dispensary	70	9	61	0	0	0	9	52
	Oasis Health Siaya	50	12	38	0	0	0	0	38
	Future Life Dispensary	50	10	40	0	0	0	10	30
	Nyathengo Dispensary	100	75	25	0	0	0	0	25
	Nyambare Health Centre	30	15	15	0	0	0	15	0

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Nyadhi Dispensary	30	3	27	0	0	0	0	27
	Ng'lya Health Centre	10	13	-3	0	0	0	0	-3
	Nduru Dispensary	100	36	64	0	0	0	8	56
	Mwer Dispensary	100	7	93	0	0	0	18	75
	Got Koyembe Dispensary	50	13	37	0	0	0	0	37
	Mulaha Dispensary	100	79	21	0	0	0	26	-5
	Hawinga Health Centre	300	416	-116	0	0	0	0	-116
	Kogelo Dispensary	400	41	359	0	0	0	0	359
	Karuoth Dispensary	20	29	-9	0	0	0	0	-9
	Jamii Clinical Services Clinic	40	1	39	0	0	0	0	39
	Kaluo Health Centre	40	25	15	0	0	0	14	1
	Kabura Uhuyi Dispensary	70	55	15	0	0	0	5	10
	Kadenge Ratuoro Health Centre	200	258	-58	0	0	0	2	-60
	Akala Health Centre	1230	1448	-218	1	0	0	0	-219
	Yala SCH	9952	6811	3141	60	0	0	0	3081
	Asayi Dispensary	1150	1356	-206	0	0	0	0	-206
	Yala SCH	500	500	0	0	0	0	0	0
	Wagai Health Centre	1970	3137	-1167	0	0	0	0	-1167
	Uthanya Dispensary	60	37	23	0	0	0	0	27
	Tatro Dispensary	80	26	54	0	0	0	0	54
	St Mary'S Yala Dispensary	480	48	432	0	0	0	0	432
	Siremba Dispensary	130	135	-5	0	0	0	0	-5
	Siala Kaduol	20	16	4	0	0	0	0	4

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Bar Sauri Health Centre	712	735	-23	0	0	0	0	-23
	Sagam Community Hospital	2500	5331	-2831	0	0	0	0	-2831
	Ruoth'S Hospital	220	115	105	0	0	0	0	105
	Royal Victoria Hospital	70	25	45	0	0	0	0	45
	Rera Health Centre	890	1169	-279	0	0	0	0	-279
	Dolphil Nursing & Maternity Home	420	337	83	0	0	0	0	83
	Rera Health Centre	400	525	-125	0	0	0	0	-125
	Gemifa Medical Clinic	170	30	140	0	0	0	0	140
	Ramula Health Centre	110	132	-22	0	0	0	0	-22
	Gongo Health Centre	350	308	42	0	0	0	0	42
	Ramula Health Centre	1950	2830	-880	0	0	0	0	-880
	Olengo Dispensary	100	80	20	0	0	0	-14	34
	Nyawara Health Centre	650	1079	-429	0	0	0	85	-514
	Nduga Dispensary	40	34	6	0	0	0	15	-9
	Inuka Hospital & Maternity Home	2330	2724	-394	0	0	0	236	-630
	Ndere Health Centre	350	547	-197	0	0	0	21	-218
	Johpas Clinic	130	57	73	0	0	0	0	73
	Masogo Dispensary (Gem)	1480	983	497	0	0	0	180	317
	Maryrosa Health Care Centre	200	180	20	0	0	0	20	0
	Malunga Dispensary	60	0	60	0	0	0	0	60
	Malanga Health Centre	930	1847	-917	0	0	0	123	-1040

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Lihanda Health Centre	100	76	24	0	0	0	0	24
	Lidha Dispensary	580	467	113	0	0	0	0	113
	Kambare Dispensary	70	53	17	0	0	0	0	17
	Rageng'Ni Dispensary	2500	3045	-545	0	0	0	0	-545
	Ong'lelo Model Health Centre	2800	1259	1541	0	0	0	0	1577
	Ndori Health Centre	2500	2288	212	0	0	0	96	116
	Naya Health Centre	3800	2200	1600	0	0	0	0	1600
	Misori Dispensary	1700	1056	644	0	0	0	0	644
	Manyuanda Health Centre (Rarieda)	200	0	200	0	0	0	0	200
	Mahaya Health Centre (Rarieda)	4050	5013	-963	0	0	0	-179	-784
	Madiany Sub-County Hospital	15130	15353	-223	2	0	0	-249	24
	Wadenya Dispensary	30	9	21	0	0	0	21	0
	Urenga Health Centre	830	1297	-467	0	0	0	21	-488
	Ukwala SCH	13690	8916	4774	0	0	0	2	4772
	Bar Achuth Dispensary	1190	808	382	0	0	0	231	151
	Bar Ndege Dispensary	760	1722	-962	0	0	0	0	-962
	Sifuyo Health Centre	360	133	227	0	0	0	37	190
	Sega Mission Hospital	4330	4071	259	0	0	0	10	243
	Sega Dispensary	100	46	54	0	0	0	0	54
	Obwogre Dispensary	80	9	71	0	0	0	68	3

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Nyangu Dispensary	860	2318	-1458	0	0	0	0	-1458
	Ligala Dispensary	20	7	13	0	0	0	0	13
	Jera Dispensary	300	435	-135	0	0	0	12	-157
	Simenya Health Centre	100	23	77	0	0	0	0	77
	Ambira Sub-County Hospital	15971	13139	2832	1	0	0	138	2693
	Sigomere Sub-County Hospital	16106	8006	8100	0	0	0	0	6
	Sigomere Sub-County Hospital	6860	2095	4765	0	0	0	-8	8102
	Ligega Health Centre	420	160	260	0	0	0	0	260
	Total	204,900	172,125	19,727	64	0	0	1,105	11,879

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
Pfizer	Uradi Health Centre	30	16	14	5	0	0	0	9
	Ulaful Dispensary	48	37	11	0	0	0	15	-4
	Uhembo Dispensary	30	3	27	5	0	0	-2	24
	Ting'Wangi Health Centre	666	555	111	0	0	0	0	111
	Sumba Community Dispensary	750	847	-97	0	0	0	-5	-92
	Siaya Medical Centre	60	3	57	4	0	0	0	53
	Siaya County Referral Hospital	1142	137	1005	378	0	0	179	448
	Bar Agulu Dispensary	60	31	29	22	0	0	0	7
	Bar Olengo Dispensary	114	166	-52	0	0	0	6	-58
	Rwambwa Sub-County Hospital	1032	811	221	0	0	0	58	163
	Barding Dispensary	258	111	147	22	0	0	0	125
	Benga Dispensary	66	47	19	0	0	0	18	1
	Randago Dispensary	30	17	13	0	0	0	6	7
	Rabar Health Centre	1344	916	428	3	0	0	0	425
	Boro Dispensary	90	105	-15	3	0	0	22	-40
	Pap Oriang' Dispensary	48	36	12	0	0	0	-37	49
	Oasis Health Siaya	60	8	52	8	0	0	3	41
	Nyathengo Dispensary	450	585	-135	2	0	0	0	-137
	Future Life Dispensary	30	10	20	0	0	0	7	13
	Nyadhi Dispensary	60	0	60	15	0	0	8	37
	Ng'lya Health Centre	78	46	32	61	0	0	0	-29
	Nduru Dispensary	60	20	40	18	0	0	2	20
	Mwer Dispensary	108	21	87	0	0	0	27	60
	Mulaha Dispensary	180	783	-603	0	0	0	-2	-601
	Got Koyembe Dispensary	298	317	-19	13	0	0	9	-41

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Hawinga Health Centre	180	2	178	0	0	0	0	178
	Kogelo Dispensary	1260	1248	12	5	0	0	0	7
	Karuoth Dispensary	970	1274	-304	0	0	0	-174	-130
	Jamii Clinical Services Clinic	24	4	20	1	0	0	19	0
	Kaluo Health Centre	96	77	19	0	0	0	19	0
	Kabura Uhuyi Dispensary	204	204	0	43	0	0	0	-43
	Kadenge Ratuoro Health Centre	300	448	-148	0	0	0	7	-155
	Akala Health Centre	1038	2215	-1177	148	0	0	0	-1325
	Yala SCH	12358	8273	4085	0	0	0	0	4085
	Asayi Dispensary	1538	1949	-411	52	0	0	0	-463
	Wagai Health Centre	2576	3085	-509	26	0	0	0	-535
	Uthanya Dispensary	24	22	2	76	0	0	0	-74
	Tatro Dispensary	84	30	54	11	0	0	0	43
	St Mary'S Yala Dispensary	294	205	89	329	0	0	0	-240
	Siremba Dispensary	144	203	-59	44	0	0	0	-103
	Siala Kaduol	120	18	102	37	0	0	0	65
	Bar Sauri Health Centre	1944	1881	63	42	0	0	0	21
	Sagam Community Hospital	2946	6149	-3203	46	0	0	0	-3249
	Ruoth'S Hospital	222	106	116	2	0	0	0	114
	Royal Victoria Hospital	24	14	10	0	0	0	0	10
	Rera Health Centre	1266	1150	116	31	0	0	0	119
	Dolphil Nursing & Maternity Home	678	564	114	15	0	0	0	99
	Rera Health Centre	420	369	51	0	0	0	0	51
	Gemifa Medical Clinic	72	45	27	33	0	0	0	-6
	Ramula Health Centre	2978	2974	4	45	0	0	0	-41

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Gongo Health Centre	258	350	-92	0	0	0	0	-92
	Ramula Health Centre	1080	1093	-13	0	0	0	0	-13
	Olengo Dispensary	44	69	-25	28	0	0	0	-53
	Nyawara Health Centre	2022	2451	-299	138	0	0	-1	-436
	Nduga Dispensary	96	130	-34	0	0	0	5	-39
	Inuka Hospital & Maternity Home	984	1170	-186	102	0	0	59	-347
	Ndere Health Centre	948	1091	-143	0	0	0	11	-154
	Johpas Clinic	138	57	81	27	0	0	0	54
	Masogo Dispensary (Gem)	1386	991	395	1	0	0	576	-182
	Maryrosa Health Care Centre	168	153	15	0	0	0	15	0
	Malanga Health Centre	1918	2144	-226	78	0	0	104	-408
	Lianda Health Centre	228	142	86	0	0	0	0	86
	Lidha Dispensary	666	706	-40	270	0	0	0	-310
	Kambare Dispensary	30	25	5	0	0	0	0	5
	Rageng'Ni Dispensary	2900	2922	-22	291	0	0	0	-313
	Ong'lelo Model Health Centre	2556	1939	617	377	0	0	0	240
	Ndori Health Centre	2140	2596	-456	30	0	0	118	-604
	Naya Health Centre	3090	3037	53	47	0	0	0	6
	Misori Dispensary	1590	920	670	74	0	0	0	596
	Manyuanda Health Centre (Rarieda)	232	1073	-841	0	0	0	0	-841
	Mahaya Health Centre (Rarieda)	3822	5157	-1335	362	0	0	15	-1712
	Madiany Sub-County Hospital	8180	7954	226	32	0	0	0	194
	Wadenya Dispensary	30	1	29	14	0	0	16	-1
	Urenga Health Centre	1140	3167	-2027	0	0	0	0	-2027
	Umer Dispensary	60	15	45	43	0	0	10	-8

Batch	Facilities	Receipts	Vaccinations Administered	Balance	Total Physical	Expired	Expired and Disposed (Qty)	Wastage and Disposed (Qty)	Unaccounted For
	Ukwala SCH	18342	13965	4377	130	0	0	0	4215
	Bar Achuth Dispensary	2592	2479	113	25	0	0	123	-35
	Sifuyo Health Centre	246	294	-48	45	0	0	2	-95
	Bar Ndege Dispensary	1686	2707	-1022	26	0	0	0	-1048
	Sega Mission Hospital	5962	9667	-3705	99	0	0	0	-3813
	Sega Dispensary	120	49	71	84	0	0	0	-13
	Obwogre Dispensary	60	5	55	4	0	0	37	14
	Nyangu Dispensary	2724	4746	-2002	50	0	0	0	-2052
	Matibabu Ukwala Clinic (Hospital)	96	15	81	6	0	0	0	75
	Ligala Dispensary	228	321	-93	174	0	0	-3	-264
	Jera Dispensary	1308	1294	14	38	0	0	24	-84
	Simenya Health Centre	60	127	-67	4	0	0	0	-71
	Sigomere Sub-County Hospital	14820	6640	8180	148	0	0	12	8020
	Ambira Sub-County Hospital	8215	12386	-4171	840	0	0	261	-5436
	Sigomere Sub-County Hospital	5445	4555	890	261	0	0	-31	660
	Ligega Health Centre	770	276	494	40	0	0	0	454
	Total	238,680	211,836	365	5,433	0	0	1,538	19,508

Appendix 7: Disposal at Subcounty Level – Siaya County

	D1	D2	D3	D4	D5	D6	D7
Alego Usonga	No	No	No	No	No	No	No
Ugunja	No	No	No	No	No	No	No
Bondo	No	No	No	Yes	No	Yes	Yes
Gem	Yes	No	No	No	No	No	No
Rarieda	Yes	No	No	No	No	No	No
Ugenya	Yes	No	No	No	No	No	No
Compliant	3	0	0	1	0	1	1
Non-Compliant	3	6	6	5	6	5	5

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 – Siaya County

		D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Alego Usonga	Siaya County Referral	Yes	No	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes
	Siaya Medical Centre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Rwambwa SC	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Hawinga HC	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes
	Jamii Services Clinic	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Nyathengo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Kogelo Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Bar Agulu Dispensary	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes
	Nyadhi Dispensary	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes
	Kaluo HC	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Boro Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Karuoth Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Ngija HC	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Muhala Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	Yes
	Bar Olengo	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes
	Kadenge Ratuoro	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes
	Randago Dispensary	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes

	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Gobei	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Kibuye	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Got Agulu	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Othach	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Mawere	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Uyawi SC	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Radier	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Masinya	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Anyuongi	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Got Winyo	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Ogam	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Gem Sub-County	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Akala	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Rera	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Wagai	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes
Ramula	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Malanga	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Masogo	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Nyawara	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes

	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No

	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Rarieda	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Ugenya	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes

	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Sega Dispensary	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	No
Sega Miss	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Obwogre	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Luthehe	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Konya	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Matibabu	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Ligala	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No
Umer	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Wandanya	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
Urenga	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No
Ugunja	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Ambira	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Ligenga	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
Rambula	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	No
Simenya	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	No
	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes
Sigomere	Yes	No	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes
	106	0	106	106	93	101	0	0	106	98	8	48
Compliant												
	0	106	0	0	13	5	106	106	0	8	98	58
Non-Compliant												

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/discard 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 incineration)
D12	Were the disposed vaccine vials recorded and accounted for in the vaccine inventory report?

Appendix 9: HR at Sub-County Level – Siaya County

	HR1	HR2	HR3	HR4	HR5	HR6	HR7
Alego Usonga	Yes	Yes	Yes	Yes	Yes	No	Yes
Ugunja	Yes	Yes	Yes	Yes	No	No	Yes
Bondo	Yes	Yes	Yes	Yes	Yes	No	Yes
Gem	Yes	Yes	Yes	No	No	No	Yes
Rarieda	Yes	Yes	Yes	Yes	No	No	Yes
Ugenya	Yes	Yes	Yes	Yes	No	No	Yes
Compliant	6	6	6	5	2	0	6
Non-Compliant	0	0	0	1	4	6	0

KEY/DETAILS

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

Appendix 10: HR at Facility Level – Siaya County

	HR1	HR2	HR3	HR4	HR5	HR6
Alego Usonga						
Siaya County Referral	No	No	Yes	Yes	Yes	Yes
Siaya Medical Centre	No	No	Yes	Yes	Yes	Yes
Rwambwa SC	No	No	Yes	Yes	Yes	Yes
Hawinga HC	No	No	Yes	Yes	Yes	Yes
Jamii Services Clinic	Yes	Yes	Yes	Yes	Yes	Yes
Nyathengo Dispensary	No	No	Yes	Yes	Yes	Yes
Kogelo Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
Bar Agulu Dispensary	Yes	Yes	Yes	Yes	Yes	Yes
Nyadhi Dispensary	No	Yes	Yes	Yes	Yes	Yes
Kaluo HC	No	No	Yes	Yes	Yes	Yes
Boro Dispensary	No	Yes	Yes	Yes	Yes	Yes
Karuoth Dispensary	No	No	Yes	Yes	Yes	Yes
Ng'iya HC	No	Yes	Yes	Yes	Yes	Yes
Muhala Dispensary	Yes	No	Yes	Yes	Yes	Yes
Bar Olengo	No	No	Yes	Yes	Yes	Yes
Kadenge Ratuoro	No	No	Yes	Yes	Yes	Yes
Randago Dispensary	No	No	Yes	Yes	Yes	Yes

	HR1	HR2	HR3	HR4	HR5	HR6
	Gobei	Yes	No	Yes	Yes	Yes
	Kibuye	No	No	Yes	Yes	Yes
	Got Agulu	No	Yes	Yes	Yes	Yes
	Othach	No	Yes	Yes	Yes	Yes
	Mawere	No	No	Yes	Yes	Yes
	Uyawi SC	Yes	Yes	Yes	Yes	Yes
	Radier	No	Yes	Yes	Yes	Yes
	Masinya	No	Yes	Yes	Yes	Yes
	Anyuongi	No	Yes	Yes	Yes	Yes
	Got Winyo	No	No	Yes	Yes	Yes
	Ogam	No	No	Yes	Yes	Yes
Gem Sub-County	Akala	Yes	Yes	Yes	Yes	Yes
	Rera	No	No	Yes	Yes	Yes
	Wagai	No	No	Yes	Yes	Yes
	Ramula	No	No	Yes	Yes	Yes
	Malanga	Yes	No	Yes	Yes	Yes
	Masogo	No	No	Yes	Yes	Yes
	Nyawara	No	No	Yes	Yes	Yes

	HR1	HR2	HR3	HR4	HR5	HR6
	No	No	Yes	Yes	Yes	Yes
Yala Sc	No	No	Yes	Yes	Yes	Yes
Ndere	No	No	Yes	Yes	Yes	Yes
Uthanya	Yes	No	Yes	Yes	Yes	Yes
Inuka	Yes	Yes	Yes	Yes	Yes	Yes
Gongo	No	Yes	Yes	Yes	Yes	Yes
Siala Kaduol	No	No	Yes	Yes	Yes	Yes
Lidha	No	No	Yes	Yes	Yes	Yes
Sagam	Yes	No	Yes	Yes	Yes	Yes
Sirembe	No	No	Yes	Yes	Yes	Yes
Ruoth	No	No	Yes	Yes	Yes	Yes
Nduga	No	Yes	Yes	Yes	Yes	Yes
Olengo	No	No	Yes	Yes	Yes	Yes
Royal Vic	No	Yes	Yes	Yes	Yes	Yes
Lihanda	Yes	No	Yes	Yes	Yes	Yes
Malunga	Yes	No	Yes	Yes	Yes	Yes
Maryrosa	Yes	No	Yes	Yes	Yes	Yes
Jophas	No	Yes	Yes	Yes	Yes	Yes
Kambare	No	Yes	Yes	Yes	Yes	Yes

	HR1	HR2	HR3	HR4	HR5	HR6
	No	No	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes
Rarieda	No	Yes	Yes	Yes	Yes	Yes
	No	Yes	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	Yes	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	Yes	Yes	Yes	Yes	Yes
Ugenya	No	No	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	No	Yes	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes

	HR1	HR2	HR3	HR4	HR5	HR6
	No	Yes	Yes	Yes	Yes	Yes
Sega Dispensary	Yes	No	Yes	Yes	Yes	Yes
Sega Miss	Yes	Yes	Yes	Yes	Yes	Yes
Obwogre	No	No	Yes	Yes	Yes	Yes
Luthehe	No	No	Yes	Yes	Yes	Yes
Konya	No	No	Yes	Yes	Yes	Yes
Matibabu	No	No	Yes	Yes	Yes	Yes
Ligala	Yes	Yes	Yes	Yes	Yes	Yes
Umer	No	No	Yes	Yes	Yes	Yes
Wandanya	Yes	No	Yes	Yes	Yes	Yes
Urenga	Yes	No	Yes	Yes	Yes	Yes
Ambira	No	No	Yes	Yes	Yes	Yes
Ligenga	No	No	Yes	Yes	Yes	Yes
Rambula	No	No	Yes	Yes	Yes	Yes
Simenya	Yes	Yes	Yes	Yes	Yes	Yes
Sigomere	No	No	Yes	Yes	Yes	Yes
Compliant	26	37	106	106	106	106
Non-Compliant	80	69	0	0	0	0

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 yes, 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 dose of vaccine were received)
HR4	Were the health care workers trained on vaccine administration (i.e. what was covered in the training)?
HR5	Have you obtained the details of the facility's staff(involved in Covid-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 – Siaya County

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

KEY/DETAILS:

CP1	Was a coordination taskforce/committee at the county and sub-county formed?
CP2	Did the task force /committee have terms of reference?
CP3	Were the tors executed?
CP4	Did the county receive any directives/advisory/instruction from the national government in relation to covid-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-County Level – Siaya County

	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Alego Usonga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ugunja	No	No	No	Yes	No	No	Yes	Yes	Yes
Bondo	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Gem	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Rarieda	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ugenya	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	5	4	3	6	5	5	6	6	6
Non-Compliant	1	2	3	0	1	1	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 13: Coordination of Players at Facility Level – Siaya County

	CP1	CP2	CP3	CP4	CP5
Alego Usonga	Yes	Yes	Yes	Yes	Yes
Siaya County Referral	Yes	Yes	Yes	Yes	Yes
Siaya Medical Centre	Yes	Yes	Yes	Yes	Yes
Rwambwa SC	Yes	Yes	Yes	Yes	Yes
Hawinga HC	Yes	Yes	Yes	Yes	Yes
Jamii Services Clinic	Yes	Yes	Yes	Yes	Yes
Nyathengo Dispensary	Yes	Yes	Yes	Yes	Yes
Kogelo Dispensary	Yes	Yes	Yes	Yes	Yes
Bar Agulu Dispensary	Yes	Yes	Yes	Yes	No
Nyadhi Dispensary	Yes	Yes	Yes	Yes	Yes
Kaluo HC	Yes	Yes	Yes	Yes	No
Boro Dispensary	Yes	Yes	Yes	Yes	Yes
Karuoth Dispensary	Yes	Yes	Yes	Yes	Yes
Ngiya HC	Yes	Yes	Yes	Yes	Yes
Muhala Dispensary	Yes	Yes	Yes	Yes	Yes
Bar Olengo	Yes	Yes	Yes	Yes	Yes
Kadenge Ratuoro	Yes	Yes	Yes	Yes	Yes
Randago Dispensary	Yes	Yes	Yes	Yes	Yes

	CP1	CP2	CP3	CP4	CP5
Sumba CH	Yes	Yes	Yes	Yes	Yes
Rabar HC	Yes	Yes	Yes	Yes	Yes
Barding Dispensary	Yes	Yes	Yes	Yes	Yes
Got Koyembe	Yes	Yes	Yes	Yes	Yes
Kabura Uhuyi	Yes	Yes	Yes	Yes	Yes
Mwer Dispensary	Yes	Yes	Yes	Yes	Yes
Pap Oriang	Yes	Yes	Yes	Yes	Yes
Uradi	Yes	Yes	Yes	Yes	Yes
Uhembo	Yes	Yes	Yes	Yes	Yes
Nduru	Yes	Yes	Yes	Yes	Yes
Nyambare	Yes	Yes	Yes	Yes	Yes
Oasis	Yes	Yes	Yes	Yes	Yes
Bondo Sub	Yes	Yes	Yes	Yes	Yes
Got Matar	Yes	Yes	Yes	Yes	Yes
Kapiyo	Yes	Yes	Yes	Yes	Yes
Usigu	Yes	Yes	Yes	Yes	Yes
Kambajo	Yes	Yes	Yes	Yes	Yes
Usenge	Yes	Yes	Yes	Yes	Yes
Bondo SCH	Yes	Yes	Yes	Yes	Yes

	CP1	CP2	CP3	CP4	CP5
Yala Sc	Yes	Yes	Yes	Yes	Yes
Ndere	Yes	Yes	Yes	Yes	Yes
Uthanya	Yes	Yes	Yes	Yes	Yes
Inuka	Yes	Yes	Yes	Yes	Yes
Gongo	Yes	Yes	Yes	Yes	Yes
Siala Kaduol	Yes	Yes	Yes	Yes	Yes
Lidha	Yes	Yes	Yes	Yes	Yes
Sagam	Yes	Yes	Yes	Yes	Yes
Sirembe	Yes	Yes	Yes	Yes	Yes
Ruoth	Yes	Yes	Yes	Yes	Yes
Nduga	Yes	Yes	Yes	Yes	Yes
Olengo	Yes	Yes	Yes	Yes	Yes
Royal Vic	Yes	Yes	Yes	Yes	Yes
Lihanda	Yes	Yes	Yes	Yes	Yes
Malunga	Yes	Yes	Yes	Yes	Yes
Maryrosa	Yes	Yes	Yes	Yes	Yes
Jophas	Yes	Yes	Yes	Yes	Yes
Kambare	Yes	Yes	Yes	Yes	Yes

	CP1	CP2	CP3	CP4	CP5
	Yes	Yes	Yes	Yes	Yes
Tatro	Yes	Yes	Yes	Yes	Yes
Dienga	Yes	Yes	Yes	Yes	Yes
Barsauri	Yes	Yes	Yes	Yes	Yes
Dolphin	Yes	Yes	Yes	Yes	Yes
Rarieda	Yes	Yes	Yes	Yes	Yes
Madiany	Yes	Yes	Yes	Yes	Yes
Naya	Yes	Yes	Yes	Yes	Yes
Misori	Yes	Yes	Yes	Yes	Yes
Abidha	Yes	Yes	Yes	Yes	Yes
Mahaya	Yes	Yes	Yes	Yes	Yes
Ongelo	Yes	Yes	Yes	Yes	Yes
Rangng;ni	Yes	Yes	Yes	Yes	Yes
Manyuanda	Yes	Yes	Yes	Yes	Yes
Ndori	Yes	Yes	Yes	Yes	Yes
Ugenya	Yes	Yes	Yes	Yes	Yes
Ukwala	Yes	Yes	Yes	Yes	Yes
Bar Achuth	Yes	Yes	Yes	Yes	Yes
Nyangu	Yes	Yes	Yes	Yes	Yes
Sifuyo	Yes	Yes	Yes	Yes	Yes
Bar ndege	Yes	Yes	Yes	Yes	Yes

	CP1	CP2	CP3	CP4	CP5
Sega Dis	Yes	Yes	Yes	Yes	Yes
Sega Miss	Yes	Yes	Yes	Yes	Yes
Obwogre	Yes	Yes	Yes	Yes	Yes
Luthehe	Yes	Yes	Yes	Yes	Yes
Konya	Yes	Yes	Yes	Yes	Yes
Matibabu	Yes	Yes	Yes	Yes	Yes
Ligala	Yes	Yes	Yes	Yes	Yes
Umer	Yes	Yes	Yes	Yes	Yes
Wandanya	Yes	Yes	Yes	Yes	Yes
Urenga	Yes	Yes	Yes	Yes	Yes
Ugunja	Yes	Yes	Yes	Yes	Yes
Ambira	Yes	Yes	Yes	Yes	Yes
Ligenga	Yes	Yes	Yes	Yes	Yes
Rambula	Yes	Yes	Yes	Yes	Yes
Simenya	Yes	Yes	Yes	Yes	Yes
Sigomere	Yes	Yes	Yes	Yes	Yes
Compliant	106	106	106	106	106
Non-Compliant	0	0	0	0	0

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 – Siaya County

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Siaya County	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Non-Compliant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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-County Level – Siaya County

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Alego Usonga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ugunja	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bondo	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gem	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Rarieda	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ugenya	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	6	6	6	6	5	6	6	5	6	6	5	5	6	6	6
Non-Compliant	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0

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 16: Monitoring & Supervision at Facility Level – Siaya County

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
Alego Usonga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Siaya County Referral	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Siaya Medical Centre	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Rwambwa SC	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes
Hawinga HC	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes
Jamii Services Clinic	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Nyathengo Dispensary	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Kogelo Dispensary	No	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes
Bar Agulu Dispensary	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Nyadhi Dispensary	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Kaluo HC	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Boro Dispensary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Karuoth Dispensary	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes
Ng'iya HC	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Muhala Dispensary	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Bar Olengo	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Kadenge Ratuoro	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Randago Dispensary	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes
Sumba CH	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Rabar HC	Yes	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Barding Dispensary	No	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Got Koyembe	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Kabura Uhuyi	No	No	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Mwer Dispensary	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Pap Oriang	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Uradi	No	No	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
Uhemo	No	No	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes
Nduru	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Nyambare	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Oasis	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Bondo Sub											
Got Matar	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Kapiyo	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Usigu	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Kambajo	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Usenge	Yes	No	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Bondo SCH	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Gobei	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Kibuye	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Got Agulu	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Othach	No	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Mawere	No	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Uyawi SC	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Radier	No	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Masinya	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Anyuongi	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Got Winyo	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Ogam	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Gem Sub-County											
Akala	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Rera	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Wagai	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ramula	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Malanga	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Masogo	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Nyawara	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

KEY/DETAILS:

M1	Did the Facility receive any tablets for Covid-19 vaccine data entry?
M2	Has the facility staff been receiving airtime on time?
M3	Are the tablets in good working conditions?
M4	Has the County/subcounty/facility put in place to ensure patients report adverse effect
M5	Has the County/subcounty/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	Does the County/Sub-County/Facility monitor for the expiry of the vaccines?
M11	Has the county/Sub-County/Facility been making use of the temperature monitoring tools?

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