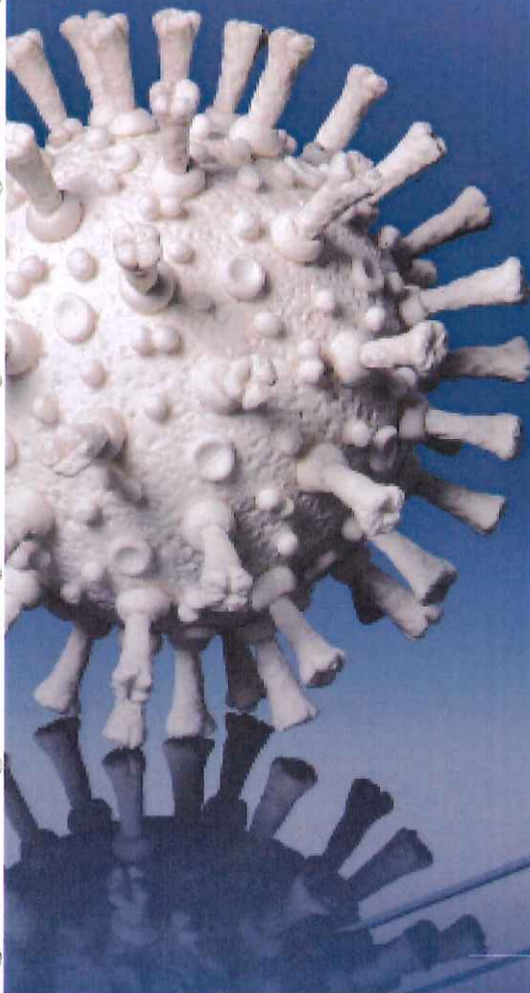


**SPECIAL AUDIT REPORT OF THE AUDITOR-GENERAL
ON
COVID 19 VACCINE ROLL OUT
FOR
BUSIA COUNTY
AS AT 31 MARCH 2022**

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LIST OF ABBREVIATIONS

The following abbreviations are used in this Report

Abbreviation	Full Description
eLMIS	Electronic Logistics Management Information System
FIFO	First In, First Out
GOK	Government of Kenya
HR	Human Resource
MOH	Ministry of Health
NVS	National Vaccine Store
RVS	Regional Vaccine Stores
SCVS	Sub County Vaccine Store
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 Busia 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 routine 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 County.

1.3 Audit Approach and Methodology

The Audit exercise entailed planning, piloting of the vaccine roll-out audit in one of the Counties, before rolling out to the rest of the 47 Counties. Meetings were held with the auditee and 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

Busia County received 460,264 doses of various types of vaccines during the period under review. Out of the total Covid-19 Vaccine Doses received in the County, 304,245 doses were administered, 500 transferred to Siaya County, while 50,644 vaccine doses were still in stock as at the time of the audit cutoff date of 31 March,2022. The balance of 104,875 vaccine doses comprised of expired, damaged, wasted and an unexplained deficit variance of 54,124 doses as at 31 March,2022.

1.4.2 Budget

Review of the Busia 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 Kakamega 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 Busia County and 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 50,751 vaccine doses had expired, were damaged or had gone to waste. Out of 50,751 vaccine doses, 50,369 had been disposed with other

hospital waste while the balance of 382 vaccines had not been disposed off but was yet to be returned to the Regional Store.

1.4.6 Human Resource Matters

The financing for health care personnel was to be funded by the Government of Kenya, Donors and development partners. Busia County Management explained that their trainings were undertaken through the assistance of the development partners. However, there were 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 Busia County Covid-19 Vaccine Deployment and Vaccination Task Force. 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 inadequacy or faulty tablets and 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 54,124 vaccine doses valued at Kshs. 33,078,332, 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 Busia 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 (Janssen), Pfizer and Sinopharm from other development partners. The Ministry of Health (MOH) launched a campaign and kicked off the deployment plan for the Covid-19 vaccines roll out on 5 March, 2021 with priority being given to frontline health workers and essential staff including security personnel. According to the National Covid-19 vaccine deployment plan, the first vaccine plan was developed in March 2021 and was subsequently revised by the MOH in August 2021 in an effort to cover the entire adult population in the country.

Busia County received its first consignment of 6,000 Astra Zeneca-Oxford Covid-19 vaccines doses in March 2021, through the Kakamega Regional Vaccines Store. The vaccine doses were first administered at Busia County Referral Hospital; Nambale, Port Victoria, Alupe, Khunyangu and Teso North Sub County Hospitals, before being rolled out to the facilities in the seven (7) Sub Counties.

As at 31 March 2022, the Special Audit Team established that the County had received 460,264 vaccines doses as tabulated below:

Type of Vaccine	Number of Doses
Moderna	42,500
Janssen (Ad26.COV2_S)	108,600
Oxford/AstraZeneca	176,624
Pfizer	132,540
Total	460,264

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 Busia 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 partners donations and COVAX • Procurement process for GOK procured vaccines • Local and international approval of vaccines and syringes • Types and quantities of the vaccines from the different sources; and the vaccine shelf life and prices where applicable • Consider whether vaccines came with syringes or not and the effect • Vaccine Batch Numbers • Storage of defective vaccines/expired • Recording of vaccines • Government clearance process for vaccines sourced from outside the country • WHO rating of effectiveness of various vaccines. • Cost vs budget
3. Storage of Vaccines	• Manufacturer's requirements for storage of vaccines • Local storage capacity • Local storage conditions • Handling requirements • Transportation requirements • Recording including batch numbers • Stocking levels, process of issuing of vaccines as well as duration • Recording and accountability • Duration in store • Storage of defective vaccine and Syringes • Cost Vs Budget
4. Distribution	• How vaccines were distributed; logistics

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

TOR	Detailed Procedures
9. Monitoring and supervision	• Is there a framework for monitoring and supervision of players? • Approval and appointment of taskforce and committees • Costs vs budgets

2.3 Scope of the Audit and Limitations

2.3.1 Scope

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

2.3.2 Limitations

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

- i. A total of 84 out of 92 vaccinating facilities in the Busia County were not defined in the Chanjo Kenya System. This called for 100% coverage of physical verification of records, stocks and visits to all facilities.
- ii. Further, 6 out of 7 Sub County Stores were also not defined in the Chanjo system while the vaccines moved direct from the Regional Store to Matayos Sub County Store that distributed to a facility in each Sub County, that in turn distributed to facilities under it off the system. This also called for 100% coverage of physical verification of records, stocks and visits to all facilities.
- iii. Accuracy and completeness of inventory records could not be established. The Audit Team corroborated information in the physical records such as order sheets and vaccines stock ledgers with information in the Chanjo System
- iv. Port Victoria Sub County Hospital that doubled up as a facility, did not maintain separate vaccines stocks ledgers from the Sub County Stores. This necessitated the Audit Team to take longer in understanding the processes and operations so as to reach an understanding on how to account for all the vaccines received at the Sub County.

- v. Some of the wasted vaccine were not recorded at facilities. This was mitigated by making references to the wastages uploaded in the Chanjo system.

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

2.4 Audit Approach and Methodology

The Special Audit Team held entry and exit meetings with the County Health Management Team on 11 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 execute the audit and as a source of audit evidence, the audit team reviewed various documents including the vaccine order sheets, vaccine stock ledgers, Annual Work Plans (AWPs), budgets, 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 County, Sub County stores and vaccinating facilities.

2.4.3 Physical Verification

The Audit Team carried out physical verifications in the seven (7) Sub County Stores and 91 vaccinating facilities in the County excluding Port Victoria Sub County Hospital that served as Store as detailed in **Appendix 1**.

2.4.4 Interviews

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

Table 2 - Interviews

	Name	Organization	Designation
1.	Ms. Phaustine Barasa	Busia County	County Executive Committee Member- Health
2.	Mr. Ino O Jonathan	Busia County	County Chief Officer- Health
3.	Dr. Melsa Lutomia	Busia County	County Director- Health
4.	Vincent Ombitsi	Busia County	County Accountant- Health
5.	Moses Sirigwa	Busia County	Health Records Information Officer
6.	Juliet Kilima I.	Busia County	County EPI Logistician

2.5 Audit Phases

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

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

2.6 Report Structure

This report is presented in the following format:

- i. Executive Summary,
- ii. Background and Introduction,
- iii. Detailed Findings,
- iv. Irregularities and weaknesses in management and controls of Vaccines in Institutions,
- v. 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 financial year 2021/2022 revealed that the County did not budget for the Covid-19 vaccination activities. Covid-19 vaccination costs, including transportation, training and capacity building and procurement of auxiliary services such as syringes and safety boxes could not, therefore, be traced to a specific budget, an indication that they were not budgeted for. This was contrary to Regulations 29. (1) of the Public Finance Management (County Governments) Regulations, 2015 which 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.

3.1.2 Sources of Vaccines

The County received 460,264 vaccines between March 2021 and 31 March 2022 from the National Government. Review of the County's Health Services Budget for the financial year 2021/2022 revealed that there were no provisions for the Covid-19 vaccine roll out. Further, the Special Audit revealed the following anomalies as summarized below and detailed in **Appendix 2:**

Table 3 – Weaknesses in Budgeting and Expenditure

Observation/Findings	Number of Non-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	7
Lack of budgetary support for Covid-19 from donors/National government.	7	0
Failure to spent budgetary support on Covid-19 vaccination.	7	0
Failure by the Sub County/Facility to finance Distribution of Vaccines, Outreaches, Trainings costs related to Covid-19 vaccination.	7	0

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.

3.2.1 Storage at the County and Sub- Counties Stores

Review of documents provided for audit and physical verification carried out at the 7 Sub-Counties stores revealed issues as summarized below in Table 4 and detailed in **Appendix 3**.

Table 4 – Storage at the County and Sub County Stores

Observations/Findings	Number of Compliant Sub- County Stores	Number of Non- Compliant Sub- County Stores
Cold Chain and Supply Logistics		
Store, has sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	7	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	1
Broken or damaged items are withdrawn from usable stock and stored separately	7	0
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	7	0
All Covid-19 vaccines stored off the floor	6	1
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	7	0

Observations/Findings	Number of Compliant Sub-County Stores	Number of Non-Compliant Sub-County Stores
Cold Chain and Supply Logistics		
The vaccines issued on a FIFE method and guided by the expiry date	7	0
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	7	0
General Storage Areas		
There were Secure measures to ensure that rejected vaccines cannot be used. Rejected vaccines are stored separately from other products while awaiting destruction or return to the supplier	7	0
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	5	2
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	2	5
There was a written procedure and a program for pest control. The pest control agents used did not pose any risk of contaminating the vaccines. There was a site flow plan indicating where the bait stations are situated.	0	7
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	5	2
The Covid-19 vaccines were stored in such a way as to prevent contamination or cross-contamination.	7	0
Storage Conditions		
The storage conditions were compatible with the storage conditions specified on their labels. (Storage facilities protected goods from deterioration.)	6	1
The warehouse was maintained at a temperature not exceeding 30 °C, and relative humidity not exceeding 75% Relative humidity (WHO zone IVb requirements) at all times.	5	2
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C)	7	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.	7	0
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	7	0

From the foregoing, the Special Audit team confirmed that the Busia County Sub- County Stores did not comply with most of the storage conditions, as summarised in the table above.

3.2.2 Storage at the Facilities Level

Review of documents provided for audit and physical verification carried out at the 91 facilities revealed issues as summarized below and detailed in **Appendix 4**.

Table 5 - Storage at the Facility Level

Observations/Findings	Number of Facilities in Compliance	Number of Facilities in Non-Compliance
Is the store well secured to prevent unauthorized access?	89	2
Were broken or damaged items withdrawn from usable stock and stored separately?	91	0
Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?	90	1
Are all Covid-19 vaccines (Fridge) stored off the floor?	91	0
Is the Refrigerator is fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)	18	73
Are the vaccines issued on a FIFO method and guided by the expiry date?	90	1
Is there a contingency plan in case of power failure, equipment breakdown, or cold chain breach	91	0
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)	91	0
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)	42	49
Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?	37	54
Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C)	91	0
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?	91	0
Have you carried out Physical count of Doses in the cold room (Grouped per vaccine and Batch No.)	89	2

In view of the above, the Special Audit Team confirmed that significant number of Busia Covid-19 vaccinating facilities did not have written procedures on sanitation and clean-up of any spillage.

3.3 Distribution of Vaccines

3.3.1 Distribution at County Level

Documents provided for audit revealed that Covid-19 Vaccines on arrival in the Country ideally should be transferred to the Central Stores which in turn distributes to the Regional Stores. The Regional Stores were then to distribute to the County Stores, which in turn distributes to Sub- County Stores and to the Facilities. However, this was not the case in Busia County.

The County does not have a County Store; the Vaccines are dispatched directly from the Regional Store in the Chanjo System to Matayos Sub County Store, then distributed to eight (8) facilities within the seven (7) sub counties. Physically however, the vaccines were received by the Sub County Stores. The Sub County Stores, though defined in the Chanjo System, did not receive vaccines in their own name, but received them in the name of the parent facility at the Sub County. .

All dispatches from the Sub Counties to the facilities under it, were done manually through order sheets and recorded in vaccines stock ledger books of dispatching and receiving facilities.

The 460,264 vaccines received in Busia County as at 31 March, 2022 were distributed as summarized below in Table 6 and detailed in **Appendix 5**:

Table 6 – Distribution at County Level

Vaccine Type	Vaccine Receipts at the County	Vaccines Stocks at the County	Distributed to Facilities	Transferred to Siaya County Store	Total Vaccine Doses
Janssen (Ad26.COVS)	108,600	17,930	90,670	-	90,670
Moderna	42,500	0	42,500	-	42,500
Oxford/AstraZeneca	176,624	0	176,124	500	176,624
Pfizer	132,540	0	132,540	-	132,540
Total	460,264	17,930	441,834	500	442,334

The County vaccine stock balance as at 31 March 2022 was 17,930 doses.

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. This prevents thermal shock to the vaccine, which can occur if the diluent is warm.

It was observed that the diluents were placed in the refrigerator, at temperatures ranging between +2°C and +8°C, a condition that was in line with the 2013 Guidelines.

3.4 Utilization of Vaccines

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

Examination of records maintained in the Chanjo System revealed that as at 31 March, 2022; 460,264 vaccine doses had been received in the County.

Documents provided for audit revealed that there were 92 vaccinating facilities, with only 8 facilities having been mapped in the Chanjo System. The unmapped facilities used the credentials of the mapped facilities in updating Vaccines administration in the System.

In addition, there were 7 Sub County health facilities that besides being stores, functioned as vaccinating facilities.

Out of the 460,264 Covid-19 vaccine doses received, 304,245 vaccine doses were administered, 500 transferred to Siaya County, 50,644 were in stock, while the balance of 50,751 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 deficit variance of 54,124 vaccines doses.

Table 7 – Utilization of Vaccines

Vaccine Type	Doses Received	Doses Administered	Transferred To Siaya County	Doses In Stock	Doses Expired	Doses Damaged	Doses Wasted	Unexplained Variance Doses	Estimate Price per Dose (Kshs)	Total Amount (Kshs)
Janssen (Ad26.COV2-S)	108,600	51,995	0	44,121	0	0	590	11,894	753	8,956,420
Moderna	42,500	32,357	0	0	327	0	543	9,273	505	4,683,329
Oxford/AstraZeneca	176,624	123,009	500	1,011	38,769	10	1,500	11,825	446	5,276,552
Pfizer	132,540	96,884	0	5,512	8,426	0	586	21,132	670	14,162,032
Totals	460,264	304,245	500	50,644	47,522	10	3,219	54,124		33,078,332

3.4.1 Administered Doses

The Chanjo System indicates that a total of 306,103 doses had been administered in the County between 1 March, 2021 and 31 March, 2022. The vaccine doses administered are as summarised below:

Vaccine Type	First Doses	Second Doses	Booster Doses	Grand Total
Oxford/ AstraZeneca	76,729	46,510	473	123,712
Moderna	20,428	11,899	56	32,383
Janssen (Ad26.COV2-S)	52,480	0	10	52,490
Pfizer	72,694	23,393	1,431	97,518
Grand Total	222,331	81,802	1,970	306,103

The disparity of 1,858 doses between the administered doses of 304,245 in the trackers used during audit and the administered doses from the Chanjo System of 306,103 for the same time period (1 March 2021 and 31 March 2022) was traced to retrospective entries of vaccinations into the System.

3.4.2 Expired Doses

These are vaccine doses that had not been administered by the manufactures use by date indicated on the vials or more than 30 days had lapsed since being thawed for the case of Pfizer and Moderna vaccines totalling to 47,522 doses. Out of this, 382 vaccine doses had not been disposed off by the time of the Special Audit in May 2022.

The Special Audit Team noted that out of the 47,522 expired vaccine doses, 36,525 were received by various facilities when the vaccines were remaining with a useful shelf life of only 6 to 13 days.

Batch	Receiving Facility	Date Receipt	Batch Expiry Date	Days to Expiry	Vaccine Doses
210216	Alupe	17-Feb-22	28-Feb-22	11	8,395
210216	Busia County Referral Hospital	22-Feb-22	28-Feb-22	6	10,670
210216	Khunyangu	15-Feb-22	28-Feb-22	13	4,800
210216	Nambale	22-Feb-22	28-Feb-22	6	4,100
210216	Port Victoria	15-Feb-22	28-Feb-22	13	4,330
210216	Sio Port	22-Feb-22	28-Feb-22	6	1,890
210216	Teso North	15-Feb-22	28-Feb-22	13	2,340
Total					36,525

3.4.3 Damaged Doses

These were vaccines that were not administered as the vaccine vials had been damaged. All the 10 damaged vaccine doses in Busia County had been disposed off by the time of the Special Audit in May 2022.

3.4.4 Wasted Doses

These were vaccine doses that were not administered due to failure to utilize within the stipulated timelines upon opening of the vial. 3,219 vaccine doses were reported as wasted in the County and had been disposed off by the time of the Special Audit in May 2022.

3.4.5 Unexplained Vaccine Variances

Documents provided for audit revealed that 460,264 vaccine doses received in the County. However, reconciliation of the vaccines received, administered, in stock, expired, damaged and wasted revealed an unexplained deficit variance of 54,124 doses valued at Kshs 33,078,332.

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 a total of 382 expired doses had not been disposed off as at the time of the audit. However, 50,369 expired, damaged and wasted vaccine doses had been disposed off.

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

Table 8– Disposal of Vaccines

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a developed waste management plan		0		0
Lack of budget for disposal of Covid-19 waste	0	7	0	91
Lack of NEMA clearance when transporting Covid-19 waste from one county to another or from one region to another for stores without a NEMA approved Waste Disposal Site.	N/a	0	0	91
Failure to record or to account for vaccine vials in the vaccine inventory report	0	7	0	91
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.	N/a	N/a	N/a	N/a
Failure to dispose in a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste	0	7	0	91
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.	7	0	86	5
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	N/a	N/a
Disposing pharmaceutical waste without separating from the sharp waste and other healthcare wastes and the different wastes not securely packaged in plastic bags or rigid containers which are clearly labelled as per the the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply	7	0	91	0

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Disposal of vaccine vials (both wasted and expired) by the Healthcare facility without following the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid-19 vaccines vials and ancillary supply (requirement is Treatment by disinfection with solution, encapsulation, autoclaving or inertization)	N/a	N/a	91	0
Failure to have a pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical.	7	0	91	0
Lack of an incinerator, burning chamber or burning pit	7	0	91	0

In the circumstances, failure to follow the disposal protocols including having undisposed expired vaccines may pose a health risk to the general public and the health officers. Further, the 7 Sub County stores and 91 vaccinating facilities failed to record or account for vaccines vials in the vaccine inventory report, thus not complying with the Guidelines.

3.6 Human Resource Matters

Training at County Level

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

Immediately after the Covid-19 vaccines were rolled out, trainings for different level personnel in the National and County Governments were conducted. Busia County Health Management team indicated that trainings within the County were undertaken through the support of Partners. However, no correspondence or documentation regarding donor facilitation and support was provided for audit review.

The findings on Human Resource Training are as summarized below and detailed in **Appendix 9** and **10**.

Table 9 – Training at County Level

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
County and Sub- Counties were not represented in National training for ToT.	7	0	N/a	N/a
Counties and Sub- Counties Health Management Team not trained on Covid-19 immunization	7	0	N/a	N/a
Trainings not well spread to all necessary cadres	7	0	N/a	N/a
Lack of a training plan and trainings not done as per training plan	0	7	N/a	N/a
Lack of a specific training budget for Covid-19 immunization	0	7	N/a	N/a
Variance between budget and actual expenditure for training on Covid-19 vaccination.	N/a	N/a	N/a	N/a
Lack of details including designation, attendance dates, financier of staff at national/county/Sub County/facility	7	0	91	0
Lack of adequate staff to carry out the Covid -19 vaccination	N/a	N/a	84	7
Lack of separation of roles and duties	N/a	N/a	45	46
Lack of prior training on Covid– 19 including vaccine administration	7	0	91	0
Failure to use trained staff to train other staff	N/a	N/a	32	59

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

3.7 Coordination of layers

3.7.1 Coordination at County Level

According to the National Covid-19 Vaccine Deployment Plan 2021, the County Emergency Covid-19 Response Committee were to be adopted to form the Steering Committee.

It was however noted that appointment letters and the terms of reference of the Committee/ Task Force were not provided for audit review. In the circumstances, the Special Audit could not establish the membership of the Task Force, their roles and mandate.

3.7.2 Coordination at Sub County Level

The findings on Coordination at Sub County and facilities' level are as summarized below and detailed in **Appendix 11, 12 and 13:**

Table 10 - Coordination at Sub Counties and Facilities

Observation/Findings	County	Sub County Stores		Facilities	
		Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure to form coordination taskforce/committee	0	7	0	N/a	N/a
Task force /committee without terms of reference (TOR)	1	0	7	N/a	N/a
Failure to comply with the TORS	1	0	7	N/a	N/a
Lack of directives/ advisory/ instruction from higher levels in the Covid -19 Vaccine management	0	7	0	91	0
Lack of upward/downward communication in Covid-19 Vaccine Roll out	0	7	0	91	0
Lack of committee meetings	1	0	7	N/a	N/a
Failure to carry out advocacy	0	7	0	90	1
Failure to carry out mobilization	0	7	0	90	1
Failure to carry out mobilization outreaches	0	7	0	90	1

From the foregoing, the coordination of various players in Covid-19 Vaccine roll out may not have been complied with in Busia County.

3.8 Monitoring and Supervision

3.8.1 Monitoring and Supervision at the County and Facilities Level

The Covid-19 Vaccination should be monitored and supervised to ensure smooth implementation of policy and guidelines issued from time to time.

Review of documents provided for audit at the Sub Counties and facilities level of Covid-19 management revealed anomalies as summarised below in Table 11 and detailed in Appendix 14, 15 and 16:

Table 11 - Monitoring at Sub Counties and Facilities

Observation/Findings	Non-Compliance in County	Sub – Counties		Facilities	
		No. of Compliant	No. of non-Compliant	No. of Compliant	No. of non-Compliant
Lack of a designated officer as an in charge for monitoring Covid-19 vaccine roll out.	0	7	0	N/a	N/a
Were there terms of reference for the M&E committee?	1	0	7	N/a	N/a
Were there reports of the M & E committee	1	0	7	N/a	N/a
Are the recommendation of the monitoring and evaluation team implemented?	1	0	7	N/a	N/a
Lack tablets from the Ministry	0	7	0	54	37
Tablet not in good working conditions	0	5	2	41	50
Personnel involved in the rollout not facilitated by airtime	0	7	0	52	39
Lack of mechanism/measures where patients could report adverse effect after vaccination.	0	7	0	91	0
Lack of Adverse effect booklet etc. that are required to report adverse effects	0	7	0	79	12
Failure to monitor temperature during transportation of vaccines	0	6	1	23	68
Failure to record temperature every morning and evening in the temperature monitoring chart/tool	0	7	0	91	0
Failure to monitor for the expiry of the vaccines?	0	7	0	91	0
Failure to monitored the Pfizer and Moderna vaccines for the 30 days expiry period after thawing	0	7	0	86	5

In view of the above, 1 out of 7 sub county stores and 68 out of 91 facilities failed to monitor temperature during transportation of vaccines and as a result, it was not possible to ascertain temperature deviations with the acceptable standards set by WHO.

3.8.2 Breakdown of Computer Tablets and Lack of Data Bundles

From the distribution lists provided for audit, it was observed that a total of 103 tablets were distributed to various sub counties and vaccinating facilities, for use in the recording of vaccine receipts and administration.

It was observed that 7 Sub county stores had each received tablets from MOH and five (5) were in good working condition. Similarly, 54 facilities had received tablets. Of the 54 facilities, 41 facilities reported their tablets as functional and being put into use, thus the balance of 13 facilities having faulty tablets. In addition, it was noted that there were no tablets in 37 facilities. 39 of the 91 vaccinating facilities indicated not having received the monthly airtime.

Non-availability of tablets and failure to repair or replace the broken tablets and non-facilitation of airtime, resulted to manual recording of vaccination details. Further, information was not captured in the Chanjo system on a timely basis resulting to a gap in reporting and ultimately monitoring.

From the foregoing, inaccuracy of information on the quantity of doses held by the various sub counties in the Chanjo system, inaccuracy of receipted and issued doses and the inaccurate reported cases of number of people vaccinated, pointed to an inadequacy on coordination between the four levels of Covid -19 management.

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 irregularities and weaknesses and corresponding recommendations were observed by the Special Audit team at Busia County:

Table 12- Irregularities and Weaknesses

	Irregularities and Weaknesses	Recommendations
1	The sub county stores were indicating to have issued vaccines to the facilities while they were still holding them in stores.	The data should be input into the Chanjo system on a real time or near real time basis
2	Inadequate personnel at the vaccinating facilities	Enhance human capital resource in the facilities.
3	Poor record keeping in management of vaccines at both the store and the facilities.	Have records keeping personnel at the facilities.
4	Non recording of expired, wasted and damaged vaccines	Record all the expired, wasted and damaged vaccines in the Chanjo System
5	Lack of a county budget on Covid-19 programs and action plans.	The county should have a budget specifically for managing Covid-19 action plans.
6	Non-facilitation of the teams at facilities and sub counties with airtime, internet bundles, and subsistence allowances.	Management should ensure teams participating in the vaccination program are adequately facilitated to enable them perform their functions effectively.
7	Expired vaccines being continued to be stored in the fridges beyond the 30 days period after thawing. This poses the risk of expired vaccines being administered.	Constant upward and downward communication on expired doses with periodic collection of expired doses.
8	Insufficient and / or Dilapidated storage rooms	Undertake routine assessment and maintenance of storage rooms capacity,
9	Insufficient/ faulty Cold Chain equipment (refrigerators)	Increase and/ or routine maintenance of cold chain equipment
10	Lack of monitoring and evaluation committee	Set up monitoring and evaluation Committee at the County and Sub County levels
12	Lack of temperature tags during transportation	Put in place temperature tags during the transportation of vaccines.
13	Expired license for County incinerator	Renewal the expired County incinerator license

5.0 CONCLUSION

The objective of the Special Audit was to determine the efficiency and effectiveness of the Covid-19 vaccine roll out in Busia County. Following the findings, the County should ensure that all vaccinating facilities are defined in the Chanjo System and effective supervision is carried out in the activities at the County, Sub County and facilities on all matters relating to vaccines receipts, issues and administering of vaccines. The above weaknesses resulted in an unexplained deficit variance of 54,124 vaccine doses valued at Kshs. 33,078,332, 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 Busia County.


CPA Nancy Gathungu, CBS
AUDITOR-GENERAL

24 June, 2022

Nairobi

6.0 APPENDICES

Appendix 1: Vaccinating Facilities in Busia County

Sub County	Sub County Store	Facility	Defined in Chanjo System
Matayos Sub County	Busia County Referral Hospital	Busia County Referral Hospital	Yes
		Muyafwa Dispensary	No
		Nasewa Health Centre	No
		Esikuli Dispensary	No
		Munongo Dispensary	No
		Busibwabo Dispensary	No
		G.K Prisons Dispensary	No
		Nasira Dispensary	No
		Bukalama Dispensary	No
		Burumba Dispensary	No
		Mayenje Dispensary	No
		Buyosi Dispensary	No
		Trailer Park Dispensary	No
		Matayos Health Centre	No
Nambale Sub County	Nambale Sub County Hospital	Nambale Sub County Hospital	Yes
		Kapina Dispensary	No
		Igara Dispensary	No
		Khayo Dispensary	No
		Lupida Health Centre	No
		Lwanyange Dispensary	No
		Madende Model Health Centre	No
		Malanga Dispensary	No
		Mundembu Dispensary	No
Butula Sub County	Khunyangu Sub County Hospital	Khunyangu Sub County Hospital	Yes
		Bukhalalire Dispensary	No
		Bumala A Health Centre	No
		Bumala B Health Centre	No
		Bumutiru Dispensary	No
		Burinda Dispensary	No
		Butula Mission Health Centre	No
		Bwaliro Dispensary	No
		Emafubu Dispensary	No
		Ikonzo Dispensary	No
		Masendebale Dispensary	No
		Musibiriri Dispensary	No
		Namusala Dispensary	No
		Neela Dispensary	No
		Sikarira Dispensary	No
		Bukuyudi Dispensary	No
		Igula Dispensary	No
		St Peters Bulwani	No

Sub County	Sub County Store	Facility	Defined in Chanjo System
Samia Sub County	Sio Port Sub County Hospital	Sio Port Sub County Hospital	Yes
		Agenga Dispensary	No
		Buduta Dispensary	No
		Busembe Dispensary	No
		Wakhungu Dispensary	No
		Holy Family Nangina Dispensary	Yes
		Namboboto Dispensary	No
		Nambuku Model Health Centre	No
		Namuduru Dispensary	No
		Nangina Dispensary	No
		Rumbiye Dispensary	No
		Kabudo Dispensary	No
		Mukonjo Dispensary	No
Bunyala Sub-County	Port Victoria Sub County Hospital	Port Victoria Sub County Hospital	Yes
		Budalangi Dispensary	No
		Bulwani Dispensary	No
		Busagwa Dispensary	No
		Khajula Dispensary	No
		Mukhobola Health Centre	No
		Sisenye Dispensary	No
		Osieko Dispensary	No
		St. Jude Sirimba Dispensary	No
		Rukala Model Health Centre	No
Teso South Sub County	Alupe Sub county Hospital	Alupe Sub county Hospital	Yes
		Akiriamasi Dispensary	No
		Akobwatt Dispensary	No
		Amaase Dispensary	No
		Among'ura Community Dispensary	No
		Amukura Health Centre	No
		Apatit Dispensary	No
		Apokor Dispensary	No
		Ochude Dispensary	No
		Odengero Facility	No
		Kotur Dispensary	No
		Kwang'or Dispensary	No
		Lukolis Model Health Centre	No
		Moru Karisa Dispensary	No
		Ngelechom Community Dispensary	No
		Obekai Dispensary	No
		Okook Dispensary	No
Teso North Sub County	Teso North Sub County Hospital	Teso North Sub County Hospital	Yes
		Aboloi Dispensary	No

Sub County	Sub County Store	Facility	Defined in Chanjo System
		Akichelesit Dispensary	No
		Ang'urai Health Centre	No
		Changara (GOK) Dispensary	No
		Akolong Dispensary	No
		Kamolo Dispensary	No
		Kamuriai Dispensary	No
		Malaba Dispensary	No
		Moding Health Centre	No
		Aloet Dispensary	No

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

County / Sub County	B1	B2	B3	B4	B5	B6	B7	B8
Busia County	NO	YES	YES	YES	YES	NO	NO	YES
Matayos	NO	YES	YES	YES	YES	NO	NO	NO
Nambale	NO	YES	YES	YES	YES	NO	NO	NO
Bunyala	NO	YES	YES	YES	YES	NO	NO	NO
Butula	NO	YES	YES	YES	YES	NO	NO	NO
Samia	NO	YES	YES	YES	YES	NO	NO	NO
Teso North	NO	YES	YES	YES	YES	NO	NO	NO
Teso South	NO	YES	YES	YES	YES	NO	NO	NO
Compliant	0	7	7	7	7	0	0	0
Non-Compliant	7	0	0	0	0	7	7	7

KEY/DETAILS:

B1	Was the associated Covid-19 vaccination costs, including transportation, training and procurement of auxiliary services such as syringes and safety boxes, budgeted for?
B2	Did the county receive any covid 19 related budgetary support from donors/National government?
B3	Did the county spend on Covid 19 vaccination?
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 - Busia County

Sub County	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
Matayos	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES
Nambale	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO	YES	YES	YES
Bunyala	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES
Butula	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES
Samia	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES
Teso North	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	YES
Teso South	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES
Compliant	7	6	7	7	6	7	7	7	7	5	2	0	5	7	6	5	7	7	7
Non-Compliant	0	1	0	0	1	0	0	0	0	2	5	7	2	0	1	2	0	0	0

KEY/DETAILS:

S1	Does the building have sufficient security to prevent loss of Covid -19 vaccines as well as prevent unauthorized access?
S2	Is there sufficient space for orderly receipt, warehousing, and dispatch of vaccines? In particular, a quarantine area for isolation when necessary, including isolation of faulty packs and recalled goods? (The vaccines and areas concerned should be appropriately identified.)
S3	Are the Broken or damaged items withdrawn from usable stock and stored separately?
S4	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
S5	Are all Covid -19 vaccines stored off the floor?
S6	Are Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)
S7	Are the vaccines issued on a FIFE method and guided by the expiry date?
S8	Is there a contingency plan put in place in case of power failure, equipment breakdown, or cold chain breach?
S9	Are there Secure measures to ensure that rejected vaccines 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 IV requirements) at all times?
S17	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
S18	Are there continuous temperature monitoring devices? If YES, are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?
S19	Dose the county have any stock in the Cold Room? If YES perform Physical count of Doses in the cold room (Grouped per vaccine and Batch X.) and populate the remarks and hyperlink in the remarks column a paper tabulating the results of the count.

Appendix 4: Storage at Facility Level - Busia County

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12	ST13
Matayos	Busia County Referral Hospital	YES	YES	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES	YES
	Muyafwa Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Nasewa Health Centre	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Esikuli Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Munongo Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES
Nambale	Busibwabo Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	G.K Prisons Dispensary	NO	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Nasira Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Bukalama Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Burumba Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Mayenje Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Buyosi Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	NO
	Trailer Park Dispensary	NO	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Matayos Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Nambale Sub County Hospital	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
Bunyala	Kapina Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Igara Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Khayo Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Lupida Health Centre	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES
	Lwanyange Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Madende Model Health Centre	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Malanga Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Mundumbu Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Port Victoria Sub County Hospital	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a
	Budalangi Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
Bunyala	Bulwani Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Busagwa Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Khajula Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Mukhobola Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Sisenye Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12	ST13
	Osieko Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	St. Jude Sirimba Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Rukala Model Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
Butula	Khunyangu Sub County Hospital	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Bukhalalire Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Bumala A Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Bumala B Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Bumutiru Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Burinda Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Butula Mission Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Bwaliro Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Emafubu Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES
	Ikonzo Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Masendebale Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Musibiriri Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Namusala Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Neela Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Sikarira Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES
	Bukuyudi Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	NO
	Igula Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	St Peters Bulwani	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES
Samia	Sio Port Sub County Hospital	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Agenga Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Buduta Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Busembe Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Wakhungu Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Holy Family Nangina Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Namboboto Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Nambuku Model Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Namuduru Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Nangina Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Rumbiye Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12	ST13
	Kabudo Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Mukonjo Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
Teso North	Teso North Sub County Hospital	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Aboloi Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Akichelesit Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Ang'urai Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Changara (GOK) Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Akolong Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Kamolo Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES
	Kamuriai Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Malaba Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Moding Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Aloet Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
Teso South	Alupe Sub county Hospital	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Akiriarnasi Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Akobwatt Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Amaase Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Among'ura Community Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES
	Amukura Health Centre	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Apatit Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Apokor Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Ochude Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Odengero Facility	YES	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
	Kotur Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Kwang'or Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Lukolis Model Health Centre	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Moru Karisa Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Ngelechom Community Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Obekai Dispensary	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Okook Dispensary	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES
	Compliant	89	91	90	91	18	90	91	91	42	37	91	91	89
	Non- Compliant	2	0	1	0	73	1	0	0	49	54	0	0	2

KEY/DETAILS:

ST1	Is the refrigerator well secured to prevent unauthorized access?
ST2	Were broken or damaged items withdrawn from usable stock and stored separately?
ST3	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
ST4	Are all Covid -19 vaccines (Fridge) stored off the floor?
ST5	Is the Refrigerator is fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)
ST6	Are the vaccines issued on a FIFO method and guided by the expiry date?
ST7	Is there a contingency plan in case of power failure, equipment breakdown, or cold chain breach
ST8	Are there measures to ensure that rejected vaccines cannot be used? (They should be stored separately from other products while awaiting destruction or return to the supplier)
ST9	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas (There should be a chart on the wall that is signed after every cleaning and a poster giving cleaning instructions)
ST10	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
ST11	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C)
ST12	Is there Continuous temperature monitoring devices? If YES, are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?
ST13	Have you carried out Physical count of Doses in the cold room (Grouped per vaccine and Batch No.)

Appendix 5: Receipts at Busia County Facilities as at 31 March 2022

Vaccine	Sub County	Facilities	Total
Janssen (Ad26.COV2-S)	Teso South Sub County	Alupe Sub County Hospital	18,870
	Matayos Sub County	Busia County Referral Hospital	14,350
	Samia Sub County	Holly Family Nangina Mission Hospital	300
	Butula Sub County	Khunyang Sub County Hospital	13,100

Vaccine	Sub County	Facilities	Total
	Nambale Sub County	Nambale Sub County Hospital	11,250
	Bunyala Sub County	Port Victoria Sub County Hospital	9,200
	Samia Sub County	Sio Port Sub County Hospital	8,100
	Teso North Sub County	Teso North Sub County Hospital	15,500
Janssen (Ad26.COV2-S) Total			90,670
Moderna	Teso South Sub County	Alupe Sub County Hospital	4,530
	Matayos Sub County	Busia County Referral Hospital	14,300
	Samia Sub County	Holly Family Nangina Mission Hospital	1,290
	Butula Sub County	Khunyangu Sub County Hospital	6,220
	Nambale Sub County	Nambale Sub County Hospital	4,960
	Bunyala Sub County	Port Victoria Sub County Hospital	2,430
	Samia Sub County	Sio Port Sub County Hospital	4,640
	Teso North Sub County	Teso North Sub County Hospital	4,130
Moderna Total			42,500
Oxford/AstraZeneca	Teso South Sub County	Alupe Sub County Hospital	22,204
	Matayos Sub County	Busia County Referral Hospital	50,538
	Samia Sub County	Holly Family Nangina Mission Hospital	2,596
	Butula Sub County	Khunyangu Sub County Hospital	30,580
	Nambale Sub County	Nambale Sub County Hospital	17,550
	Bunyala Sub County	Port Victoria Sub County Hospital	16,380
	Siaya County	Siaya County Referral Hospital	500
	Samia Sub County	Sio Port Sub County Hospital	16,076
	Teso North Sub County	Teso North Sub County Hospital	20,200
Oxford/AstraZeneca Total			176,624
Pfizer	Teso South Sub County	Alupe Sub County Hospital	19,358
	Matayos Sub County	Busia County Referral Hospital	38,874
	Samia Sub County	Holly Family Nangina Mission Hospital	402
	Butula Sub County	Khunyangu Sub County Hospital	17,334
	Nambale Sub County	Nambale Sub County Hospital	14,526

Vaccine	Sub County	Facilities	Total
	Bunyala Sub County	Port Victoria Sub County Hospital	11,740
	Samia Sub County	Sio Port Sub County Hospital	16,044
	Teso North Sub County	Teso North Sub County Hospital	14,262
Pfizer Total			132,540
Grand Total			442,334

Appendix 6: Utilization at Busia County Facilities as at 31 March 2022

Vaccine	Facility	Receipts	Vaccinations Administered	Total Physical Count	Expired and Disposed	Damaged and disposed	Wastage and disposed	Unexplained Variance
Janssen (Ad26.COV2-S)	Busia County Store	17,930	-	17,800	-	-	-	130
	Alupe Sub County Hospital	18,870	6,872	6,163	-	-	-	5,835
	Busia County Referral Hospital	14,350	9,682	5,171	-	-	-	(503)
	Holly Family Nangina Mission Hospital	600	621	226	-	-	-	(247)
	Khunyangu Sub County Hospital	13,100	5,513	3,257	-	-	-	4,330
	Nambale Sub County	11,250	7,471	1,711	(39)	-	-	2,107
	Port Victoria Sub County Hospital	9,200	5,688	2,936	-	-	-	576
	Sio Port Sub County Hospital	7,800	4,104	3,579	629	-	-	(512)
	Teso North Sub County Hospital	15,500	12,044	3,278	-	-	-	178
Janssen (Ad26.COV2-S) Total		108,600	51,995	44,121	590	-	-	11,894
Oxford/AstraZeneca	Alupe Sub County Hospital	22,204	14,397	1	60	10	8,395	(659)
	Busia County Referral Hospital	50,538	37,447	4,149	-	-	11,910	(2,968)
	Holly Family Nangina Mission Hospital	2,596	4,751	100	333	-	24	(2,612)
	Khunyangu Sub County Hospital	30,580	20,343	(1,000)	10	-	5,390	5,837
	Nambale Sub County	17,550	13,698	(1,000)	125	-	4,270	457
	Port Victoria Sub County Hospital	16,380	9,186	7	-	-	4,350	2,837
	Sio Port Sub County Hospital	16,076	9,568	524	972	-	2,240	2,772
	Teso North Sub County Hospital	20,200	13,619	(1,770)	-	-	2,190	6,161
	Siaya County	500	-	-	-	-	0	-
Oxford/AstraZeneca Total		176,624	123,009	1,011	1,500	10	38,769	11,825
Moderna	Alupe Sub County Hospital	4,530	3,543	-	-	-	0	987
	Busia County Referral Hospital	14,260	10,171	-	-	-	0	4,089

Vaccine	Facility	Receipts	Vaccinations Administered	Total Physical Count	Expired and Disposed	Damaged and disposed	Wastage and disposed	Unexplained Variance
	Holly Family Nangina Mission Hospital	1,488	1,905	-	-	-	327	(417)
	Khunyang Sub County Hospital	6,220	4,962	300	11	-	0	947
	Nambale Sub County	4,510	3,359	(520)	345	-	0	1,326
	Port Victoria Sub County Hospital	3,060	2,228	(2)	-	-	0	834
	Sio Port Sub County Hospital	4,022	2,623	222	187	-	0	663
	Teso North Sub County Hospital	4,410	3,566	-	-	-	0	844
Moderna Total		42,500	32,357	-	543	-	327	9,273
Pfizer	Alupe Sub County Hospital	19,358	15,239	621	-	-	1,896	1,602
	Busia County Referral Hospital	38,874	21,354	3,904	-	-	1,800	11,816
	Holly Family Nangina Mission Hospital	1,260	3,081	(45)	-	-	-	(1,776)
	Khunyang Sub County Hospital	17,334	15,188	1,464	-	-	366	316
	Nambale Sub County	14,526	11,414	(1,571)	546	-	1,932	2,205
	Port Victoria Sub County Hospital	11,740	8,045	566	-	-	1,114	2,015
	Sio Port Sub County Hospital	15,186	11,074	(213)	40	-	1,036	3,249
	Teso North Sub County Hospital	14,262	11,489	786	-	-	282	1,705
Pfizer Total		132,540	96,884	5,512	586	-	8,426	21,132
Grand Total		460,264	304,245	50,644	3,219	10	47,522	54,124

Appendix 7: Disposal at County and Sub County Level - Busia County

County/ Sub County	D1	D2	D3	D4	D5	D6	D7
Busia County	YES	NO	YES	NO	YES	NO	YES
Matayos	YES	NO	YES	NO	YES	NO	YES
Nambale	YES	NO	YES	NO	YES	NO	YES
Bunyala	YES	NO	YES	NO	YES	NO	YES
Butula	YES	NO	YES	NO	YES	NO	YES
Samia	YES	NO	YES	NO	YES	NO	YES
Teso North	YES	NO	YES	NO	YES	NO	YES
Teso South	YES	NO	YES	NO	YES	NO	YES
Compliant	8	0	8	0	8	0	8
Non-Compliant	0	8	0	8	0	8	0

KEY/DETAILS:

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

Appendix 8: Disposal at Facility Level - Busia County

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Matayos	Busia County Referral Hospital	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Muyafwa Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Nasewa Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Esikuli Dispensary	YES	NO	YES	YES	NO	YES	NO	NO	YES	YES	YES	NO
	Munongo Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Busibwabo Dispensary	YES	NO	YES	YES	NO	YES	NO	NO	YES	YES	YES	NO
	G.K Prisons Dispensary	YES	NO	YES	YES	NO	YES	NO	NO	YES	YES	YES	NO
	Nasira Dispensary	YES	NO	YES	YES	NO	YES	NO	NO	YES	YES	YES	NO
	Bukalama Dispensary	YES	NO	YES	YES	NO	YES	NO	NO	YES	YES	YES	NO
	Burumba Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
Nambale	Mayenje Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Buyosi Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Trailer Park Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Matayos Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Nambale Sub County Hospital	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Kapina Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Igara Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Khayo Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Lupida Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Lwanyange Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
Bunyala	Madende Model Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Malanga Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Mundembu Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Port Victoria Sub County Hospital	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a
	Budalangi Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Bulwani Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Busagwa Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Khajula Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Mukhobola Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Sisenye Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Osioko Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	St. Jude Sirimba Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Rukala Model Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
Butula	Khunyangu Sub County Hospital	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Bukhalire Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Bumala A Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Bumala B Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Bumutiru Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Burinda Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Butula Mission Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Bwaliro Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Emafubu Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Ikonzo Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Masendebale Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Musibiriri Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Namusala Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Neela Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Sikarira Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Bukuyudi Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Igula Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	St Peters Bulwani	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
Samia	Sio Port Sub County Hospital	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Aganga Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Buduta Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Busembe Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Wakhungu Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Holly Family Nangina Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Namboboto Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Nambuku Model Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	NO	YES	NO
	Namuduru Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Nangina Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Rumbiye Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Kabudo Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Mukonjo Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
Teso North	Teso North Sub County Hospital	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Aboloi Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Akichelesit Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Ang'urai Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Changara (GOK) Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Akolong Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Kamolo Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Kamuriai Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Malaba Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Moding Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Aloet Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
Teso South	Alupe Sub county Hospital	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Akiriarnasi Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Akobwatt Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Amaase Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Among'ura Community Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Amukura Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Apatit Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Apokor Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Ochude Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Odengero Facility	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Kotur Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Kwang'or Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Lukolis Model Health Centre	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Moru Karisa Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Ngelechom Community Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Obekai Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Okook Dispensary	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
	Compliant	91	0	91	91	86	91	0	0	91	90	91	0
	Non- Compliant	0	91	0	0	5	0	91	91	0	1	0	91

KEY/DETAILS:

D1	Does the facility have a waste management plan?
D2	Was there a budget for the disposal of Covid -19 Waste?
D3	Was there pharmaceutical waste separated from the sharp waste and other healthcare wastes and the different wastes securely packaged in plastic bags or rigid containers which are clearly labeled?
D4	Was there pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical ?(Applicable to facilities with large volumes of daily waste, that do not transport/dispose daily)
D5	Is the public health officer involved in the disposal of Covid -19 Waste? (Storage, Transportation and Supervision of Disposal)
D6	Does the Facility Transport Pharmaceutical Waste? (For facilities that do not have a NEMA approved Waste Disposal Site. These sites have an incinerator. N/B: A burning chamber is not an incinerator)
D7	Was there pharmaceutical waste is transported to a NEMA approved Waste Disposal Site. (Facility should have a copy for the approval of the site/incinerator and a separate documentation regarding approval for the transportation)
D8	Was there a pharmaceutical waste transported from one county to another had clearance from NEMA
D9	Does the facility have an incinerator, burning chamber or burning pit?

D10	Was the method used to dispose of sharp waste (syringes and needles) by the Healthcare facility and whether complying with the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid -19 vaccines vials and ancillary supply (Treatment should be by Incineration, Sharps are to be incinerated while other waste is to be burnt in a burning chamber)
D11	Did the quantity and the method used in the disposal of any vaccine vials (both wasted and expired) by the Healthcare facility comply with the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used Covid -19 vaccines vials and ancillary supply?(requirement is Treatment by disinfection with solution, encapsulation, autoclaving or inertization)
D12	Were the disposed vaccine vials recorded and accounted for in the vaccine inventory report?

Appendix 9: HR at County and Sub County Level - Busia County

County/ Sub County	HR1	HR2	HR3	HR4	HR5	HR6	HR7
Busia County	YES	YES	YES	NO	NO	YES	YES
Matayos	YES	YES	YES	NO	NO	YES	YES
Nambale	YES	YES	YES	NO	NO	YES	YES

County/ Sub County	HR1	HR2	HR3	HR4	HR5	HR6	HR7
Bunyala	YES	YES	YES	NO	NO	YES	YES
Butula	YES	YES	YES	NO	NO	YES	YES
Samia	YES	YES	YES	NO	NO	YES	YES
Teso North	YES	YES	YES	NO	NO	YES	YES
Teso South	YES	YES	YES	NO	NO	YES	YES
Compliant	8	8	8	0	0	8	8
Non-Compliant	0	0	0	8	8	0	0

KEY/DETAILS:

HR1	Was the county represented in National training for ToTs? If YES indicate in the remarks column number of people involved
HR2	Were the sub 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 - Busia County

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
Matayos	Busia County Referral Hospital	YES	YES	YES	YES	YES	YES
	Muyafwa Dispensary	YES	YES	YES	YES	YES	NO

Sub County	Facility	HR1	HR 2	HR 3	HR 4	HR 5	HR 6
	Nasewa Health Centre	YES	YES	YES	YES	YES	NO
	Esikuli Dispensary	YES	YES	YES	YES	YES	YES
	Munongo Dispensary	YES	NO	YES	YES	YES	NO
	Busibwabo Dispensary	YES	YES	YES	YES	YES	NO
	G.K Prisons Dispensary	YES	YES	YES	YES	YES	YES
	Nasira Dispensary	YES	YES	NO	YES	YES	NO
	Bukalama Dispensary	YES	YES	NO	YES	YES	NO
	Burumba Dispensary	YES	YES	YES	YES	YES	YES
	Mayenje Dispensary	YES	YES	YES	YES	YES	NO
	Buyosi Dispensary	YES	YES	YES	YES	YES	YES
	Trailer Park Dispensary	YES	YES	NO	YES	YES	NO
	Matayos Health Centre	YES	YES	YES	YES	YES	YES
Nambale	Nambale Sub County Hospital	YES	YES	YES	YES	YES	YES
	Kapina Dispensary	YES	YES	YES	YES	YES	YES
	Igara Dispensary	YES	NO	YES	YES	YES	NO
	Khayo Dispensary	YES	YES	YES	YES	YES	YES
	Lupida Health Centre	YES	YES	YES	YES	YES	NO
	Lwanyange Dispensary	YES	YES	YES	YES	YES	YES
	Madende Model Health Centre	YES	YES	YES	YES	YES	YES
	Malanga Dispensary	YES	YES	YES	YES	YES	YES
	Mundumbu Dispensary	YES	YES	YES	YES	YES	YES
Bunyala	Port Victoria Sub County Hospital	N/a	N/a	N/a	N/a	N/a	N/a
	Budalangi Dispensary	YES	NO	YES	YES	YES	NO
	Bulwani Dispensary	YES	NO	YES	YES	YES	NO
	Busagwa Dispensary	YES	NO	YES	YES	YES	NO
	Khajula Dispensary	YES	NO	YES	YES	YES	NO
	Mukhobola Health Centre	YES	NO	YES	YES	YES	NO
	Sisenye Dispensary	YES	NO	YES	YES	YES	NO
	Osieko Dispensary	YES	NO	YES	YES	YES	NO

Sub County	Facility	HR1	HR 2	HR 3	HR 4	HR 5	HR 6
	St. Jude Sirimba Dispensary	YES	NO	YES	YES	YES	NO
	Rukala Model Health Centre	YES	NO	YES	YES	YES	NO
Butula	Khunyangu Sub County Hospital	NO	YES	YES	YES	YES	NO
	Bukhalalire Dispensary	YES	YES	YES	YES	YES	NO
	Bumala A Health Centre	YES	NO	NO	YES	YES	NO
	Bumala B Health Centre	YES	NO	NO	YES	YES	NO
	Bumutiru Dispensary	YES	YES	NO	YES	YES	NO
	Burinda Dispensary	YES	YES	YES	YES	YES	NO
	Butula Mission Health Centre	YES	YES	YES	YES	YES	YES
	Bwaliro Dispensary	YES	NO	NO	YES	YES	NO
	Emafubu Dispensary	YES	NO	YES	YES	YES	NO
	Ikonzo Dispensary	YES	YES	YES	YES	YES	NO
	Masendebale Dispensary	YES	NO	YES	YES	YES	NO
	Musibiriri Dispensary	YES	NO	YES	YES	YES	NO
	Namusala Dispensary	YES	NO	NO	YES	YES	YES
	Neela Dispensary	YES	YES	YES	YES	YES	NO
	Sikarira Dispensary	YES	NO	NO	YES	YES	YES
	Bukuyudi Dispensary	YES	NO	YES	YES	YES	NO
	Igula Dispensary	YES	YES	YES	YES	YES	NO
	St Peters Bulwani	YES	NO	YES	YES	YES	NO
Samia	Sio Port Sub County Hospital	YES	NO	YES	YES	YES	NO
	Agenga Dispensary	YES	NO	YES	YES	YES	NO
	Buduta Dispensary	NO	NO	YES	YES	YES	NO
	Busembe Dispensary	NO	NO	YES	YES	YES	NO
	Wakhungu Dispensary	YES	NO	YES	YES	YES	NO
	Holy Family Nangina Dispensary	YES	NO	YES	YES	YES	YES
	Namboboto Dispensary	NO	NO	YES	YES	YES	NO
	Nambuku Model Health Centre	NO	NO	YES	YES	YES	NO
	Namuduru Dispensary	YES	YES	YES	YES	YES	YES

Sub County	Facility	HR1	HR 2	HR 3	HR 4	HR 5	HR 6
	Nangina Dispensary	YES	YES	YES	YES	YES	YES
	Rumbiye Dispensary	YES	YES	YES	YES	YES	NO
	Kabudo Dispensary	YES	NO	YES	YES	YES	NO
	Mukonjo Dispensary	NO	NO	NO	YES	YES	NO
Teso North	Teso North Sub County Hospital	YES	YES	YES	YES	YES	NO
	Aboloi Dispensary	YES	YES	YES	YES	YES	YES
	Akicheleit Dispensary	YES	NO	YES	YES	YES	NO
	Ang'urai Health Centre	YES	YES	YES	YES	YES	YES
	Changara (GOK) Dispensary	YES	YES	YES	YES	YES	NO
	Akolong Dispensary	YES	YES	YES	YES	YES	NO
	Kamolo Dispensary	YES	NO	YES	YES	YES	NO
	Kamurial Dispensary	YES	NO	YES	YES	YES	NO
	Malaba Dispensary	YES	YES	YES	YES	YES	NO
	Moding Health Centre	YES	YES	YES	YES	YES	YES
	Aloet Dispensary	YES	NO	YES	YES	YES	NO
Teso South	Alupe Sub county Hospital	YES	YES	YES	YES	YES	YES
	Akiriamasi Dispensary	YES	YES	YES	YES	YES	NO
	Akobwatt Dispensary	YES	NO	YES	YES	YES	YES
	Amaase Dispensary	YES	YES	YES	YES	YES	YES
	Among'ura Community Dispensary	YES	YES	YES	YES	YES	YES
	Amukura Health Centre	YES	YES	YES	YES	YES	YES
	Apatit Dispensary	YES	NO	YES	YES	YES	YES
	Apokor Dispensary	YES	NO	YES	YES	YES	YES
	Ochude Dispensary	YES	YES	YES	YES	YES	NO
	Odengero Facility	NO	NO	YES	YES	YES	NO
	Kotur Dispensary	YES	NO	YES	YES	YES	NO
	Kwang'or Dispensary	YES	NO	YES	YES	YES	YES
	Lukolis Model Health Centre	YES	NO	YES	YES	YES	NO
	Moru Karisa Dispensary	YES	NO	YES	YES	YES	YES

Sub County	Facility	HR1	HR 2	HR 3	HR 4	HR 5	HR 6
	Ngelechom Community Dispensary	YES	NO	YES	YES	YES	NO
	Obekai Dispensary	YES	NO	YES	YES	YES	YES
	Okook Dispensary	YES	NO	YES	YES	YES	NO
	Compliant	84	45	81	91	91	32
	Non- Compliant	7	46	10	0	0	59

KEY/DETAILS:

HR1	Did the facility have adequate staff to carry out the Covid -19 vaccination (See guide from 5.1 below)
HR2	Did these staff have separation of roles and if not was the staff trained to handle other roles? (See guide from 5.1 below)
HR3	Were health Care Workers (HCW) trained before commencement of Covid -19 Vaccination at the facility? (HCW should be trained before being issued with vaccines. Compare date of training with the date the first 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 - Busia County

County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Busia County	YES	NO	NO	YES	YES	NO	YES	YES	YES

Compliant	1	0	0	1	1	0	1	1	1	1
Non-Compliant	0	1	1	0	0	1	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 carried out mobilization?
CP9	Did the county/sub county carry out any outreaches?

Appendix 12: Coordination of Players at Sub County Level - Busia County

Sub County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Matayos	YES	NO	NO	YES	YES	NO	YES	YES	YES
Nambale	YES	NO	NO	YES	YES	NO	YES	YES	YES
Bunyala	YES	NO	NO	YES	YES	NO	YES	YES	YES
Butula	YES	NO	NO	YES	YES	NO	YES	YES	YES
Samia	YES	NO	NO	YES	YES	NO	YES	YES	YES
Teso North	YES	NO	NO	YES	YES	NO	YES	YES	YES
Teso South	YES	NO	NO	YES	YES	NO	YES	YES	YES
Compliant	7	0	0	7	7	0	7	7	7
Non-Compliant	0	7	7	0	0	7	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 carried out mobilization?
CP9	Did the county/sub county carry out any outreaches?

Appendix 13: Coordination at Facility Level – Busia County

Sub County	Facility	CP1	CP2	CP3	CP4	CP5
Matayos	Busia County Referral Hospital	YES	YES	YES	YES	YES
	Muyafwa Dispensary	YES	YES	YES	YES	YES
	Nasewa Health Centre	YES	YES	YES	YES	YES
	Esikuli Dispensary	YES	YES	YES	YES	YES
	Munongo Dispensary	YES	YES	YES	YES	YES
	Busibwabo Dispensary	YES	YES	YES	YES	YES
	G.K Prisons Dispensary	YES	YES	YES	YES	YES
	Nasira Dispensary	YES	YES	YES	YES	YES
	Bukalama Dispensary	YES	YES	YES	YES	YES
	Burumba Dispensary	YES	YES	YES	YES	YES
	Mayenje Dispensary	YES	YES	YES	YES	YES
	Buyosi Dispensary	YES	YES	YES	YES	YES
	Trailer Park Dispensary	YES	YES	NO	NO	NO
	Matayos Health Centre	YES	YES	YES	YES	YES
	Nambale Sub County Hospital	YES	YES	YES	YES	YES
	Kapina Dispensary	YES	YES	YES	YES	YES
	Igara Dispensary	YES	YES	YES	YES	YES
	Khayo Dispensary	YES	YES	YES	YES	YES
	Lupida Health Centre	YES	YES	YES	YES	YES
	Lwanyange Dispensary	YES	YES	YES	YES	YES
Bunyala	Madende Model Health Centre	YES	YES	YES	YES	YES
	Malanga Dispensary	YES	YES	YES	YES	YES
	Mundumbu Dispensary	YES	YES	YES	YES	YES
	Port Victoria Sub County Hospital	N/a	N/a	N/a	N/a	N/a
	Budalangi Dispensary	YES	YES	YES	YES	YES
	Bulwani Dispensary	YES	YES	YES	YES	YES
	Busagwa Dispensary	YES	YES	YES	YES	YES

Sub County	Facility	CP1	CP2	CP3	CP4	CP5
	Khajula Dispensary	YES	YES	YES	YES	YES
	Mukhobola Health Centre	YES	YES	YES	YES	YES
	Sisenye Dispensary	YES	YES	YES	YES	YES
	Osioko Dispensary	YES	YES	YES	YES	YES
	St. Jude Sirimba Dispensary	YES	YES	YES	YES	YES
	Rukala Model Health Centre	YES	YES	YES	YES	YES
Butula	Khunyangung Sub County Hospital	YES	YES	YES	YES	YES
	Bukhalalire Dispensary	YES	YES	YES	YES	YES
	Bumala A Health Centre	YES	YES	YES	YES	YES
	Bumala B Health Centre	YES	YES	YES	YES	YES
	Bumutiru Dispensary	YES	YES	YES	YES	YES
	Burinda Dispensary	YES	YES	YES	YES	YES
	Butula Mission Health Centre	YES	YES	YES	YES	YES
	Bwaliro Dispensary	YES	YES	YES	YES	YES
	Emafubu Dispensary	YES	YES	YES	YES	YES
	Ikonzozo Dispensary	YES	YES	YES	YES	YES
	Masendebale Dispensary	YES	YES	YES	YES	YES
	Musibiriri Dispensary	YES	YES	YES	YES	YES
	Namusala Dispensary	YES	YES	YES	YES	YES
	Neela Dispensary	YES	YES	YES	YES	YES
	Sikarira Dispensary	YES	YES	YES	YES	YES
	Bukuyudi Dispensary	YES	YES	YES	YES	YES
	Igula Dispensary	YES	YES	YES	YES	YES
	St Peters Bulwani	YES	YES	YES	YES	YES
Samia	Sio Port Sub County Hospital	YES	YES	YES	YES	YES
	Agenga Dispensary	YES	YES	YES	YES	YES
	Buduta Dispensary	YES	YES	YES	YES	YES
	Busembe Dispensary	YES	YES	YES	YES	YES
	Wakhungu Dispensary	YES	YES	YES	YES	YES

Sub County	Facility	CP1	CP2	CP3	CP4	CP5
	Holy Family Nangina Dispensary	YES	YES	YES	YES	YES
	Namboboto Dispensary	YES	YES	YES	YES	YES
	Nambuku Model Health Centre	YES	YES	YES	YES	YES
	Namuduru Dispensary	YES	YES	YES	YES	YES
	Nangina Dispensary	YES	YES	YES	YES	YES
	Rumbiye Dispensary	YES	YES	YES	YES	YES
	Kabudo Dispensary	YES	YES	YES	YES	YES
	Mukonjo Dispensary	YES	YES	YES	YES	YES
Teso North	Teso North Sub County Hospital	YES	YES	YES	YES	YES
	Aboloi Dispensary	YES	YES	YES	YES	YES
	Akichelesit Dispensary	YES	YES	YES	YES	YES
	Ang'urai Health Centre	YES	YES	YES	YES	YES
	Changara (GOK) Dispensary	YES	YES	YES	YES	YES
	Akolong Dispensary	YES	YES	YES	YES	YES
	Kamololo Dispensary	YES	YES	YES	YES	YES
	Kamuriai Dispensary	YES	YES	YES	YES	YES
	Malaba Dispensary	YES	YES	YES	YES	YES
	Moding Health Centre	YES	YES	YES	YES	YES
	Aloet Dispensary	YES	YES	YES	YES	YES
Teso South	Alupe Sub county Hospital	YES	YES	YES	YES	YES
	Akiriarnasi Dispensary	YES	YES	YES	YES	YES
	Akobwatt Dispensary	YES	YES	YES	YES	YES
	Amaase Dispensary	YES	YES	YES	YES	YES
	Among'ura Community Dispensary	YES	YES	YES	YES	YES
	Amukura Health Centre	YES	YES	YES	YES	YES
	Apatit Dispensary	YES	YES	YES	YES	YES
	Apokor Dispensary	YES	YES	YES	YES	YES
	Ochude Dispensary	YES	YES	YES	YES	YES
	Odengero Facility	YES	YES	YES	YES	YES

Sub County	Facility	CP1	CP2	CP3	CP4	CP5
	Kotur Dispensary	YES	YES	YES	YES	YES
	Kwang'or Dispensary	YES	YES	YES	YES	YES
	Lukolis Model Health Centre	YES	YES	YES	YES	YES
	Moru Karisa Dispensary	YES	YES	YES	YES	YES
	Ngelechom Community Dispensary	YES	YES	YES	YES	YES
	Obekai Dispensary	YES	YES	YES	YES	YES
	Okook Dispensary	YES	YES	YES	YES	YES
	Compliant	91	91	90	90	90
	Non-Compliant	0	0	1	1	1

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 & Supervision at County Level - Busia County

County	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Busia County	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Compliant	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
Non-Compliant	0	1	1	1	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 & Supervision at Sub County Level - Busia County

Sub County	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Matayos	YES	NO	NO	NO	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
Nambale	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES
Bunyala	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Butula	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Samia	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Teso North	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Teso South	YES	NO	NO	NO	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
Compliant	7	0	0	0	7	7	5	7	7	7	7	6	7	7	7
Non-Compliant	0	7	7	7	0	0	2	0	0	0	0	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 – Busia County

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
Matayos	Busia County Referral Hospital	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
	Muyafwa Dispensary	YES	YES	YES	YES	NO	NO	NO	YES	YES	YES	YES
	Nasewa Health Centre	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Esikuli Dispensary	YES	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Munongo Dispensary	YES	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Busibwabo Dispensary	YES	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES
	G.K Prisons Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Nasira Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Bukalama Dispensary	YES	NO	YES	YES	NO	NO	NO	YES	YES	YES	YES
	Burumba Dispensary	YES	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
Nambale	Mayenje Dispensary	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Buyosi Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Trailer Park Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Matayos Health Centre	YES	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Nambale Sub County Hospital	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Kapina Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Igara Dispensary	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Khayo Dispensary	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Lupida Health Centre	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Lwanyange Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
Bunyala	Madende Model Health Centre	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Malanga Dispensary	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Mundembu Dispensary	NO	NO	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Port Victoria Sub County Hospital	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a
	Budalangi Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	NO	YES
	Bulwani Dispensary	NO	NO	NO	YES	NO	NO	NO	YES	YES	YES	YES
	Busagwa Dispensary	NO	NO	NO	YES	NO	NO	NO	YES	YES	NO	YES

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
	Khajula Dispensary	NO	NO	NO	YES	NO	NO	NO	YES	YES	NO	YES
	Mukhobola Health Centre	YES	YES	YES	YES	NO	NO	NO	YES	YES	YES	YES
	Sisenye Dispensary	NO	NO	NO	YES	NO	NO	NO	YES	YES	NO	YES
	Osioko Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	NO	YES
	St. Jude Sirimba Dispensary	NO	NO	NO	YES	NO	NO	NO	YES	YES	YES	YES
	Rukala Model Health Centre	NO	NO	NO	YES	NO	NO	NO	YES	YES	YES	YES
Butula	Khunyangu Sub County Hospital	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Bukhalalire Dispensary	NO	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Bumala A Health Centre	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Bumala B Health Centre	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Bumutiru Dispensary	NO	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Burinda Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Butula Mission Health Centre	NO	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Bwaliro Dispensary	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Emafubu Dispensary	NO	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Ikonzo Dispensary	NO	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Masendebale Dispensary	NO	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Musibiriri Dispensary	NO	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Namusala Dispensary	NO	NO	NO	YES	NO	NO	NO	YES	YES	YES	YES
	Neela Dispensary	NO	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Sikarira Dispensary	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Bukuyudi Dispensary	NO	NO	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Igula Dispensary	YES	YES	NO	YES	NO	NO	NO	YES	YES	YES	YES
	St Peters Bulwani	NO	NO	NO	YES	NO	NO	NO	YES	YES	YES	YES
Samia	Sio Port Sub County Hospital	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Agenga Dispensary	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Buduta Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Busembe Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Wakhungu Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
	Holy Family Nangina Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Namboboto Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Nambuku Model Health Centre	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Namuduru Dispensary	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
	Nangina Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Rumbiye Dispensary	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Kabudo Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Mukonjo Dispensary	NO	NO	NO	YES	YES	NO	YES	YES	YES	YES	YES
Teso North	Teso North Sub County Hospital	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Aboloi Dispensary	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Akichelesit Dispensary	YES	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Ang'urai Health Centre	YES	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Changara (GOK) Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Akolong Dispensary	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Kamolo Dispensary	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Kamurial Dispensary	YES	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Malaba Dispensary	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Moding Health Centre	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Aloet Dispensary	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
Teso South	Alupe Sub county Hospital	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
	Akiriarnasi Dispensary	NO	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Akobwatt Dispensary	YES	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Amaase Dispensary	NO	YES	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Among'ura Community Dispensary	NO	NO	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Amukura Health Centre	YES	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Apatit Dispensary	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Apokor Dispensary	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Ochude Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Odengero Facility	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
	Kotur Dispensary	NO	NO	NO	YES	YES	NO	NO	YES	YES	YES	YES
	Kwang'or Dispensary	YES	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Lukolis Model Health Centre	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
	Moru Karisa Dispensary	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES
	Ngelehom Community Dispensary	NO	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES
	Obekai Dispensary	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
	Okook Dispensary	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Compliant	54	52	41	91	79	11	23	91	91	86	91
	Non- Compliant	37	39	50	0	12	80	68	0	0	5	0

KEY/DETAILS:

M1	Did the Facility receive any tablets for Covid -19 vaccine data entry?
M2	Has the facility staff been receiving airtime on time?
M3	Are the tablets in good working conditions?
M4	as the County/sub county/facility put in place to ensure patients report adverse effect
M5	Has the County/sub county/facility received any Adverse effect booklet etc. that are required to report adverse effects?
M6	Has the sub county/facility experienced any instance of adverse effect?
M7	Does the County/Sub-county/Facility monitor temperature during transportation of vaccines
M8	Does the County/Sub-county record temperature every morning and evening in the temperature monitoring chart
M9	Does the County/Sub-county/Facility monitor for the expiry of the vaccines?
M10	Are the Pfizer and Moderna vaccines been monitored for the 30 days expiry period after thawing?
M11	Has the county/sub county/Facility been making use of the temperature monitoring tools?

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