

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

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LIST OF ABBREVIATIONS

The following abbreviations are used in this Report

Abbreviation	Full Name
AFREXIMBANK	African Export-Import Bank
AVAT	African Vaccine Acquisition Trust
eLMIS	Electronic Logistics Management Information System
FIFO	First In, First Out
GOK	Government of Kenya
HR	Human Resource
IFMIS	Integrated Financial Management Information System
LRO	Legislative and Relations Office
MOH	Ministry of Health
NVS	National Vaccine Store
NVIP	National Vaccines and Immunization program
RVS	Regional Vaccine Stores
SCVS	Sub County Vaccine Store
UNICEF	United Nations International Children's Emergency Fund
WHO	World Health Organization

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1 EXECUTIVE SUMMARY

1.1 Background and introduction

The Auditor-General carried out 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 vaccine rollout in Kilifi County. The audit involved review of budget, sources of the vaccines, storage, distribution, utilization and disposal of the vaccines, human resource, coordination of players and monitoring and supervision.

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

1.2 Audit Scope, Limitations and Mitigation

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

Challenges experienced during the audit included vast terrain of Kilifi County, lack of adequate personnel in the vaccinating facilities and incomplete vaccine inventory records. The Audit Team put in place several measures to mitigate the challenges including expanding the scope to near 100% coverage of the vaccinating facilities in the Country.

1.3 Audit Approach and Methodology

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

Kilifi County received 296,903 doses of various types of vaccines during the period under review. Out of the total COVID-19 Vaccine doses received in the County, 273,306 doses were administered, while 2,308 vaccine doses were still in stock as at the time of the audit cutoff date of 31 March 2022. The balance of 21,348 vaccine doses comprised wasted and unexplained absolute variance of 13,153 doses as at 31 March, 2022.

1.4.2 Budget

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

1.4.3 Sources and Distribution of Vaccines

The source of vaccines to the County was from the Government of Kenya through the Mombasa Regional Store.

The distribution flow was from Regional Stores, to the Sub-County stores and to the facilities which were administering the vaccines.

1.1.1. Storage of Vaccines

The Kilifi Sub County Stores complied to some extent with the storage conditions which had been set out for COVID-19 Vaccines. However, weaknesses were noted in the storage at the facilities including inadequate storage equipment and monitoring tools.

1.1.2. Disposal of Vaccines

The Special Audit noted that a total of 5,896 vaccine doses had expired, damaged or wasted. Out of 5,896 vaccine doses 3,656 had been disposed with other hospital waste while the balance of 2,240 vaccine were awaiting return to the Regional store.

1.1.3. Human Resource Matters

The financing for health care personnel was to be funded by the Government of Kenya, Donors and Development partners. Kilifi county management explained that their trainings were undertaken through the assistance of partners. However, there was no proper records of documentation maintained of the trainings that took place.

1.1.4. Coordination of players

The coordination of the exercise was done by the Kilifi County COVID-19 Vaccine Deployment and Vaccination Taskforce. However, appointment letters and minutes of the task force were not available for audit review.

1.4.4 Monitoring and Supervision

The Audit established that COVID –19 Vaccines roll out was monitored and supervised by a committee so as to ensure smooth implementation of policy and guidelines issued from time to time by the National Government. However, the committee did not keep minutes and attendance schedules to evidence their activities

1.4.5 Conclusions and Recommendation.

The audit concluded that the roll-out of the COVID-19 Vaccines was effective. However, weaknesses were noted in some of the processes, including failure to budget for the rollout activities, practical adherence to waste disposal regulations, inadequate staff and training at the facilities and inadequate access to the Chanjo System due to lack of data bundles to the staff updating information in the system. This impacted on the real time recording of information in the system and unexplained variance (deficit) of 13,153 of vaccine doses valued at Kshs.7,755,210 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 Kilifi County Government should work closely with the National Government to strengthen the existing immunization structures and staffing to meet international standards.

2 BACKGROUND AND INTRODUCTION

Kenya received its first consignment of Astra Zeneca-Oxford COVID-19 vaccine in March 2021 as part of the COVAX facility. This was followed by more vaccines of Moderna, Johnson & Johnson, Pfizer and Sinopharm from other development partners. The Ministry of Health (MOH) launched 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 service providers including security personnel. According to the National COVID-19 vaccine deployment plan, the first vaccine deployment plan was developed in March 2021 and was subsequently revised by MOH in August 2021 in an effort to cover the entire adult population in the Country.

Kilifi County received its first consignment of 4,500 Astra Zeneca-Oxford COVID-19 vaccines in March 2021, through the Mombasa Regional Vaccines Store. They vaccine doses were first administered at Kilifi County Hospital before being rolled out to the other main facilities in the twelve (7) sub counties. As that 31 March 2022, the special audit Team established that the County had received in total 296,903 doses as tabulated below:

Type of Vaccines	Number of Doses
Janssen (Ad26.COV2S) Total	32,842
Moderna Total	35,463
Oxford/AstraZeneca Total	148,802
Pfizer Total	79,796
Total	296,903

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 Kilifi 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 and 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	<ul style="list-style-type: none">• How much was set aside for vaccines and related activities and how the figures were arrived at.• Budget approval process.• Allocation of the funds i.e. specific budget items.• Source of funds i.e. GOK and Donors .
2. Sources of Vaccines	<ul style="list-style-type: none">• GOK Procured vaccines, development partners donations and COVAX etc.• Procurement process for GOK procured vaccines.• Local and international approval of vaccines and syringes.

TOR	Detailed Procedures
	<ul style="list-style-type: none"> • Types and quantities from the different sources as well as shelf life of vaccines and prices where applicable. • Consider whether vaccines came with syringes or not and the effect. • Vaccine Batch Number. • Storage of defective vaccines/ expired. • Recording of vaccines. • Government clearance process for vaccines from outside the country. • WHO rating of effectiveness of various vaccines. • Cost vs budget.
3. Storage of Vaccines	<ul style="list-style-type: none"> • Manufacturer's requirements for storage of vaccines . • Local storage capacity. • Local storage conditions. • Handling requirements. • Transportation requirements. • Recording including batch numbers. • Stocking levels, process of issuing of vaccines as well as duration . • Recording and accountability. • Duration in store. • Storage of defective vaccines/Syringes. • Cost Vs Budget.
4. Distribution	<ul style="list-style-type: none"> • How vaccines were distributed/logistics. • Quantities of vaccines distributed. • Proportion of vaccines distributed per region. • Basis of quantities and proportions distributed e.g. population. • Storage issues. • Recording and accountability. • Cost vs budget.
5. Utilization	<ul style="list-style-type: none"> • Awareness creation • Intended/ target population • Uptake per type of vaccine. • Rate of transition from first to second dose. • Possibility of delayed administration of second dose. • Matters relating to booster doses. • Expired Vaccines. • Recording and Accountability i.e. vaccines received, utilized and balance and expired. • Cost vs budget.
6. Disposal	<ul style="list-style-type: none"> • Number of vaccines disposed. • Criteria for disposal. • Recording and accountability for disposal. • Reports and feedback.

TOR	Detailed Procedures
	<ul style="list-style-type: none"> • Reconciliation of what was procured, utilized and unused and disposal. • Costs vs budgets.
7. Human Resource Matters (National and County Staff)	<ul style="list-style-type: none"> • Number of persons involved. • Roles and responsibilities. • Expertise (capacity/skills). • Duplication of roles if any. • Selection and appointment criteria. • Training Plans and Roll Out. • Costs vs budgets.
8. Coordination of players	<ul style="list-style-type: none"> • Who are the key players? • Are the roles and responsibilities of the players clear? • Is there a framework for coordination and communication of players? • Approval and appointment of taskforce and committees. • Costs vs budgets.
9. Monitoring and supervision	<ul style="list-style-type: none"> • Is there a framework for coordination and communication of players? • Approval and appointment of taskforce and committees • Costs vs budgets

2.3 Scope of the Audit and Limitation to Scope

2.3.1 Scope

The audit reviewed all processes from the inception of COVID-19 vaccine roll out, through budgeting to administration and disposal including the governance and the 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 to not negatively affect the quality and results of our findings. Some of the challenges and measures taken included:

- i) Vaccine damages and wastages not recorded by the vaccinating facilities. This was mitigated by making reference to the vaccine wastages uploaded in the Chanjo System.
- ii) The number of vaccinating facilities in the County were more than those defined in the Chanjo System. This was mitigated by obtaining the actual number of vaccinating facilities from the Sub-County depots and carrying out physical verification of the equipment and stocks in all.
- iii) Manual records in some facilities were found to be inaccurate including those that had not been defined in the Chanjo System. Under such circumstances the audit team solely relied on the Chanjo System data which is the primary system.
- iv) Few staff at some of the facilities resulting to interruption of service delivery to accommodate auditors. The audit team tried to balance the time to allow service delivery as well as audit exercise

- v) Expansive area of coverage with some facilities located far much apart from each other hence limiting the number of facilities covered in a day. This was mitigated by working extra hours in a day to cover more facilities.

2.4 Audit Approach and Methodology

The Special Audit Team held entry and exit meetings with the Kilifi County Health Management Team on 9 May 2022 and 2 June 2022 respectively. During the entry meeting, uniform and detailed work plans were developed and adopted which were then applied during the execution of the audit. The following were the main evidence gathering methods applied during the audit execution.

2.4.1 Document Review

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

2.4.2 Analytical Review

The Audit Team extracted the vaccine data from the Chanjo System and carried comparative analysis records at the regional stores revaccinating facilities.

2.4.3 Physical Verification

The audit team carried out physical verifications in the seven (7) Sub County Stores and 106 vaccinating facilities as detailed in **Appendix 1**.

2.4.4 Interviews

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

Table 2-Interviews

	Name	Organization	Designation
1.	Charles Dado	Kilifi County Executive	County Executive Committee Member-Health
	Dr Bilali Mazoya	Kilifi County Executive	CO-Management of Health Services
	Alio Ibrahim	Kilifi County Executive	CO-Public Health
2.	David Mulewa	Kilifi County Executive	County Director- Health
2.	Christine Mataza	Kilifi County Executive	EPI Focal Person
3.	Amos Ndenge	Kilifi County Executive	Environmental Health Focal Person
4.	Owen Kodi	Kilifi County Executive	ICT Officer

2.5 Audit Phases

The audit was divided into Two Phases; Phase One involved review of processes at The National Treasury, Office of Controller of Budgets and The Ministry of Health. It also

involved analysis of data maintained in eMIS, Chanjo System and Kenya Health Information System. The information was then shared with the audit teams to inform the next phase.

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

2.6 Report Structure

This report is presented in the following format:

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

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

3 DETAILED FINDINGS

3.1 Budget

3.1.1 Unconfirmed Funding of COVID-19 Vaccination Support Services

A review of the County's health services budget for the 2021/2022 financial year revealed that the county did not budget for the COVID-19 vaccination activities. COVID-19 vaccination costs, including transportation, training and capacity building and procurement of auxiliary services such as syringes and safety boxes, could not therefore, be traced to a specific budget, an indication that they were not budgeted for. This was contrary to The National Treasury Circular No. 9/2020 dated 23 July, 2020 which required Ministries, Departments and Agencies (MDAs) to report disaster related expenditures separately. Management, however, stated that the expenditures were met by Partners, but this was not supported by any documentary evidence such as agreements.

3.1.2 Sources of Vaccines

The County received 296,903 vaccine doses between 01 March 2021 and 31 March, 2022 from the National Government. A review of the County's Health Services Budget for the 2021/2022 financial year revealed 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-Source of Vaccines

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	N/a	N/a
Failure to spent budgetary support on COVID-19 vaccination.	3	4
Failure by the subcounty/Facility to finance Distribution of Vaccines, Outreaches, Trainings costs related to COVID-19 vaccination;	1	6

3.2 Storage of Vaccines

According to WHO Guidelines (**COVID-19 vaccination: supply and logistics guidance, 12th February 2021**) the COVID-19 vaccines should be stored as follows:

- Pfizer should be maintained at -80 °C to -60 °C in 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 Clinical Guidance for Janssen COVID-19 Vaccine recommend storing the vaccine between 2°C and 8°

The storage conditions applied to Regional store Sub- County Stores and Facility Stores.

3.2.1 Storage at the Counties and Sub- Counties Stores

A review of documents provided for audit and physical verification carried out at the 7 Sub-County stores revealed issues as summarized below table 4 and detailed in **Appendix 3**. It was also noted that three (3) of the seven (7) sub counties; Magarini, Rabai and Kilifi did not have a Sub County Store of their own but were using facilities; Gongoni Health Centre, Rabai Health Centre and Vipingo Health Centre respectively as the subcounty stores.

Table 4-Storage at Counties and Sub Counties Stores

Criteria	Number of Compliant Sub-County Stores	Number of Non-Compliant Sub-County Stores
Store have sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	6	1
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	None
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	7	None
All COVID-19 vaccines stored off the floor	4	3
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	7	None
The vaccines issued on a FIFO method and guided by the expiry date	7	None
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	7	None
General Storage Areas		
There were Secure measures to ensure that rejected vaccines cannot be used. Rejected vaccines are stored separately from other products while awaiting destruction or return to the supplier	6	1
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.	5	2
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.	None	7

Criteria	Number of Compliant Sub-County Stores	Number of Non-Compliant Sub-County Stores
There was a site flow plan indicating where the bait stations are situated.		
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	None	7
The COVID-19 vaccines were stored in such a way as to prevent contamination or cross-contamination.	7	None
Storage Conditions		
The storage conditions were compatible with the storage conditions specified on their labels. (Storage facilities protected goods from deterioration.)	7	None
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	None
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	None
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	7	None

From the foregoing, the Special Audit Team confirmed that Kilifi Sub County Stores did not have adequate written procedures on sanitation, clean-up of spillage, pest control and did not maintain cleaning logs.

3.2.2 Storage at the Facilities Level

A review of documents provided for audit and physical verification carried out at the 115 facilities revealed issues as summarized below in table 5 and detailed in **Appendix 4**.

The audit team noted that out of 115 vaccinating facilities only 109 were defined in the Chanjo System while the rest were used as outreach centres. Included in 109 facilities were 3 Sub County Stores (Rabai, Kilifi South and Magarani) which although defined as facilities

in the Chanjo System did not physically exist, reducing the number of active vaccinating facilities to 106.

Table 5-Storage at the Facilities Level

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
Cold Chain and Supply Logistics		
Store has sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access	59	47
Broken or damaged items are withdrawn from usable stock and stored separately	99	7
There was sufficient lighting necessary to enable all operations to be carried out accurately and safely.	98	8
All COVID-19 vaccines stored off the floor	96	10
Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed. The signal permitted resetting only by the authorized person.	81	25
The vaccines issued on a FIFO method and guided by the expiry date	104	2
There was a contingency plan in case of power failure, equipment breakdown, or cold chain breach	79	27
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	104	2
There are written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas.	79	27
There was a cleaning log that must be completed, signed, and checked by the appropriately designated person.	104	2
There were appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination	63	43
Storage Conditions		
The storage conditions of the refrigerators are as per the vaccine manufacturer's recommendations (Refrigerated (2°C to 8°C))	60	46
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.	104	2

Observations/Findings	Number of Compliant Facilities	Number of Non-Compliant Facilities
The store had stock in the Cold Room and were physical counted and grouped per vaccine and Batch Numbers	97	9

From the foregoing, the special audit team confirmed that the Kilifi County facilities did not comply with storages conditions on the areas under audit review.

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 should be transferred to the Central Stores which in turn distributes to the Regional Stores that in turn distributes to the County Stores. The County Stores should in turn distribute to the Sub- County Stores which in turn distributes to the facilities from where the vaccine is dispensed.

During the audit, it was observed that between the period of March 2021 to October 2021, vaccines were received in a centralized County store based in Kilifi North sub county after which distribution was done to other sub-county stores and then to facilities. In November 2021 the process was decentralized and the seven (7) Sub counties started receiving vaccines direct from the Mombasa regional Office. However, it was noted that out of the seven (7) sub-counties, only four (4) had subcounty stores. The other three (3) Magarini, Rabai and Kilifi South sub-counties.

though defined in the Chanjo System as facilities, did not physically exist but were receiving vaccines through Gongoni health centre, Rabai health centre and Vipingo Health center respectively.

The 296,903 vaccines received in the Kilifi County as at 31 March, 2022 was therefore distributed to the Sub- Counties and Facilities summarized in table 6 below and detailed in Appendix 5.

Table 6-Distribution at County Level

Vaccine Type	Distributed to Sub-County Stores	Distributed to Facilities in Kilifi	Variance between Sub-County and Facilities Distribution	Explanation for the Variance
Moderna	29,995	35,463	(5,468)	The variance is as a result of the distribution
Janssen	44,450	32,842	11,608	

Oxford/AZ	141,164	148,802	(7,638)	being done directly to the facilities.
Pfizer	63,340	79,796	(16,456)	
Total	278,949	296,903	(17,954)	

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

The Special Audit carried out revealed that the stores properly monitored temperatures during transportation of vaccines.

3.4 Utilization of Vaccines

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

Examination of records maintained in the Chanjo System revealed that as at 31 March, 2022; 296,903 vaccine doses had been received in the County.

Documents provided for audit revealed that there were 115 vaccinating facilities, with 109 being mapped in the Chanjo System.

Out of the total 296,903 COVID-19 Vaccine doses received in the County, a total of 273,306 doses were administered, 4,548 was in stock which included 2,240 expired doses resulting to unexpired doses of 2,308 in stock. Total of 3,656 doses had gone to waste as at 31 March, 2022 as summarized below in table 7 and detailed in **Appendix 6**: There was however unexplained deficit variance of 13153 vaccine doses.

Table 7-Utilization of Vaccines

Vaccine Type	Doses Received	Doses Administered	Doses in Stock	Doses Expired	Doses wasted	Unexplained Variance	Estimated price per dose (Kshs)	Total Amount (Kshs)
Janssen	32,842	30,104	0	0	1042	1696	753	1,277,088
Moderna	35,463	34,057	422	15	261	708	505	357,540
Oxford/AstraZeneca	148,802	139,253	1,809	1,283	1630	4827	446	2,152,842
Pfizer	79,796	69,892	2,317	942	723	5922	670	3,967,740
Total	296,903	273,306	4,548	2,240	3,656	13153		7,755,210

3.4.1 Administered Doses

The Chanjo System indicates that a total of 278,420 doses had been administered in the County between 1 March, 2021 and 31, March 2022. The vaccine doses administered are as summarised below:

S/n	Vaccine Type	First Doses	Second Doses	Buster Doses	Grand Total
1	AstraZeneca	91,909	47,905	399	140,213
2	Moderna	17,407	12,623	85	30,115
3	Janssen	34,650	0	805	35,455
4	Pfizer	52,501	18,505	1,631	72,637
	Grand Total	196,467	79,033	2,920	278,420

The disparity between the administered doses of 273,306 in the trackers used during audit and the administered doses from the Chanjo System of 278,420 for the same period (1 March, 2021 and 31 March, 2022) was traced to retrospective entities system for vaccinations.

3.4.2 Expired Doses

These are vaccine doses that had not been administered by the manufactures use- by date indicated on the vials totalling to 2,240 doses. None had been disposed of by the time of the Special Audit in May 2022. Expired doses from the facilities were reported to have been sent to Sub County Stores, who in turn transported the same to the Regional Vaccines Store.

3.4.3 Damaged Doses

There were no damaged doses reported during the audit

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. 3,656 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 296,903 vaccine doses received in the County. However, reconciliation of the vaccine received, administered, in stock, expired, damaged and wasted revealed an unexplained deficit variance of 13,153 doses valued at Kshs 7755210 .

The following weakness observed during the audit that could have contributed to the 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 expired doses had not been disposed as at the time of the audit. However, 3,656 wasted vaccines had been disposed.

A review of documents provided for audit revealed non-compliance with the disposal requirements as per Section 6.1 of the WHO Standard Operating Procedures (SOP) on waste management of COVID-19 vaccines vials and ancillary supplies. The procedure states that any used or discarded COVID-19 vaccine vials MUST be collected safely and separately from the rest of the waste. Both the empty vials and those with remaining vaccine doses discarded at the end of the daily vaccination activity shall be collected and safely stored until they are collected for final treatment and disposal. These vials should be counted and recorded by the responsible team for the purpose of vaccination activity analysis (e.g. utilization, coverage, wastage, etc.). Further, Section 6.6 provides that neutralized COVID-19 vaccine vials can be safely disposed in a manner that is not accessible or reusable, and 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 waste management plan	3	4	65	41
Lack of budget for disposal of COVID-19 waste	0	7	24	82
Lack of NEMA clearance when transporting COVID-19 waste from one county to another or from one region to another for stores without NEMA approved Waste Disposal Site.	4	3	96	10
Failure to record or to account for vaccine vials in the vaccine inventory report	6	1	73	33

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure by the County/Store to fill any application form for disposal of pharmaceutical waste issued by the Pharmacy and Poisons Board in compliance with the Guidelines for safe management of pharmaceutical waste.	1	6	90	16
Failure to dispose in a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste	5	2	42	64
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.	4	3	48	58
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	41	65
Disposing pharmaceutical waste without separating from the sharp waste and other healthcare wastes and the different wastes not securely packaged in plastic bags or rigid containers which are clearly labelled as per the the Guidelines for safe management of pharmaceutical waste and WHO Waste management of used COVID-19 vaccines vials and ancillary supply	N/a	N/A	87	19
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	93	13
Failure to have a pharmaceutical waste stored in designated quarantine stores and away from usable pharmaceutical	N/a	N/A	75	31

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of an incinerator, burning chamber or burning pit.	N/a	N/A	61	45

In the circumstance, the undisposed expired vaccines may pose a health risk to the general public and the health officers. Further, the audit revealed that disposal of the 3,656 of the wasted vaccines in 13 out of the 106 facilities did not comply with the guidelines provided by WHO on waste management of used COVID-19 vaccines vials and ancillary supply. Further, 1 of the 7 Sub County Stores and 33 of the 106 vaccinating facilities failed to record or account for vaccines vials in the vaccine inventory report.

3.6 Human Resource Matters

3.6.1 Training at County Level

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

Immediately after the COVID-19 vaccines were rolled out, trainings for different levels of personnel in the National and County Governments were conducted. Kilifi County Health management explained that trainings in the seven (7) Sub County were undertaken through the support of Partners. However, other than the budget allocation by County and Sub county no other supporting documentation was provided for audit review to support partnership agreements.

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

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

Table 9-Training at County Level

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
County and Sub- Counties were not represented in National training for ToT.	7	0	N/a	N/A

Observation/Findings	Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Counties and Sub- Counties Health Management Team not trained on Covid - 19 immunization	5	2	46	70
Trainings not well spread to all necessary cadres	1	6	N/a	N/A
Lack of a training plan and trainings not done as per training plan	4	3	N/a	N/A
Lack of a specific training budget for Covid -19 immunization	7	0	N/a	N/A
Variance between budget and actual expenditure for training on COVID-19 vaccination.	0	12	N/a	N/A
Lack of details including designation, attendance dates, financier of staff at national/county/Sub County/facility	6	1	67	39
Lack of adequate staff to carry out the COVID-19 vaccination	N/a	N/A	88	18
Lack of separation of roles and duties	N/a	N/A	94	12
Lack of prior training on Covid-19 including vaccine administration	N/a	N/A	94	12
Failure to use trained staff to train other staff	N/a	N/A	25	81

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

3.7 Coordination of players

3.7.1 Coordination at County Level

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

Table 10-Coordination at County Level

Observation/Findings	County	Sub County Stores		Facilities	
	Non-Compliance in County	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Failure to form coordination taskforce/committee	0	7	0	N/a	N/A
Task force /committee without terms of reference (TOR)	0	7	0	N/a	N/A
Failure to comply with the TORS	0	5	2	N/a	N/A
Lack of directives/advisory/instruction from higher levels in the COVID – 19 Vaccine management	0	6	1	105	1
Lack of upward/downward communication in COVID – 19 Vaccine Roll out	0	7	0	99	6
Lack of committee meetings	0	7	1	N/A	N/A
Failure to carry out advocacy	0	6	1	103	3
Failure to carry out mobilization	0	6	0	103	3
Failure to carry out mobilization outreaches	0	12	0	95	6

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

3.8 Monitoring and Supervision

3.8.1 Monitoring and Supervision at the County and Facilities Level

A review of documents provided for audit at the various levels of COVID-19 management revealed anomalies as summarized at table 11 below and detailed in **Appendices 14, 15 and 16.**

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

Observation/Findings	County		Sub County Stores		Facilities	
	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant	Number of Compliant	Number of Non-Compliant
Lack of a designated officer as an in charge for monitoring COVID-19 vaccine roll out.	0	1	0	7	N/a	N/A
Lack tablets from the Ministry	1	0	5	2	22	82
Tablet not in good working conditions	0	1	5	2	14	90
Personnel involved in the rollout not facilitated by air time	0	1	7	0	31	73
Lack of mechanism/measures where patients could report adverse effect after vaccination.	1	0	7	0	80	24
Lack of Adverse effect booklet etc. that are required to report adverse effects	0	0	7	0	61	43
Failure to monitor temperature during transportation of vaccines	N/a	N/A	7	0	9	95
Failure to record temperature every morning and evening in the temperature monitoring chart/tool	N/a	N/A	7	0	72	32
Failure to monitor for the expiry of the vaccines.	N/a	N/A	7	0	97	7
Failure to monitor the Pfizer and Moderna vaccines for the 30 days expiry period after thawing	N/a	N/A	7	0	99	5

In view of the above, the facilities failed to monitor temperature during transportation of vaccines and as a result it was not be possible to ascertain deviations beyond the

acceptable standards set by WHO. Further, 22 facilities had received tablets from the MOH for use in recording vaccine receipts and administration. Out of the 22 facilities that had received the tablets, only 14 facilities reported their tablets as functional and being put into use. 73 facilities reported not having received the monthly airtime. Similarly, the 5 Sub County Stores had each received tablets from MOH and were in good working condition, but personnel indicated not having received the monthly airtime.

Consequently, there was inconsistency in the release of the monthly airtime for the tablets in the facilities and the Sub County.

4 IRREGULARITIES AND WEAKNESSES IN MANAGEMENT AND INSTITUTIONS CONTROLS OF VACCINES

4.1 Irregularities and Weaknesses at the County and Sub-County Level

The following irregularities, weaknesses and recommendations were observed by the Special Audit at the County and Sub-County levels.

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


	Irregularities and Weaknesses	Recommendations
1	Inconsistent use and lack of updating the Chanjo System.	The facilities should ensure proper accountability of vaccines receipts, issues and utilization through consistent use and updating of the same in Chanjo System
2	Inadequate staffing of the vaccinators who at times doubled up to register the people being vaccinated	The County Government should have adequate number of staff in their health facilities so as to meet the increasing demand for the services
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/damaged/wasted vaccines	Proper recording of the expired/wasted/damaged vaccines.
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 well facilitated to enable them perform their functions effectively.
7	14 out of 62 tablets received from the ministry were found to be faulty. Further 15 tablets in good condition were lying idle in the store yet staff are using their phones to access the Chanjo System	Management should report to the ministry for possible replacement. The tablets lying idle should be issued to staff for use

8	Lack of adequate disposal facilities	The county of Kilifi should invest more on disposal facilities such as incinerators'
9	Lack of adequate awareness in the use of Chanjo System	The County should invest more on training on ICT and the use of Chanjo System
10	Inter facilities transfers not updated in the the Chanjo Systems	Management to ensure that all inter-facilities transfers are updated in the Chanjo System
11	Commingling of vaccines/doses at facilities used as Sub County Stores	Adequate storage gadgets should be available to ensure proper storage of vaccines

5 CONCLUSION

The objective of the special audit was to determine the efficiency and effectiveness of the COVID-19 vaccine roll out in Kilifi County. Following the findings, the County should ensure that all vaccinating facilities are defined in the Chanjo System, and effective supervision of the activities at the County, Sub County and facilities on all matters relating to receipts, issues and administering of vaccines is instituted. The above weakness resulted in unexplained variance (deficit) of 13,153 of vaccine doses valued at Kshs 7,755,210 based on average Vaccine cost during the period.

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


CPA Nancy Gathungu, CBS
AUDITOR GENERAL

24 June, 2022

Nairobi

6 APPENDICES

Appendix 1: Sub Counties and Facilities in Kilifi County

Sub-County	Sub-County Store	Facilities under Sub-County	Defined in Chanjo System
1. Kilifi South Sub-county	Vipingo Health Centre	1 Mtwapa Health Centre	Yes
		2 Chasimba Health Centre	Yes
		3 Ziani Dispensary	Yes
		4 Kizingo Health Centre	Yes
		5 Mwembekati Dispensary	Yes
		6 Pingilikani Dispensary	Yes
		7 Bomani Dispensary	Yes
		8 Junju Dispensary	Yes
		9 Vipingo Health Centre	Yes
		10 Msumarini Dispensary	Yes
		11 Mtepeni Dispensary	Yes
		12 Tunzanani Dispensary	Yes
		13 Mtwapa Dispensary	Yes
2. Malindi Sub-county	1 Malindi Sub-County	1 Malindi Subcounty Hospital	Yes
		2 Star Hospital	Yes
		3 Tawfiq Hospital	Yes
		4 Mmangani Dispensary	Yes
		5 Madunguni Dispensary	Yes
		6 Kakuyuni Dispensary	No
		7 Marikano Dispensary	Yes
		8 Mkondoni Dispensary	Yes
		9 Jilore Dispensary	No
		10 Baolala Health Centre	No
		11 Muyeye Health Centre	No

		12 Sosobora Dispensary	No
		13 Ganda Dispensary	No
		14 Kavinyalalo Dispensary	Yes
		15 Mshongoleni Dispensary	No
		16 Gahaleni Dispensary	No
3. Rabai Sub-county	1 Rabai Health Centre	1 Rabai Health Centre	Yes
		2 Bwagamoyo Dispensary	Yes
		3 Kokotoni Dispensary	Yes
		4 Uwanja wa ndege Dispensary	Yes
		5 Kombeni Dispensary	Yes
		6 Chilodi Dispensary	Yes
		7 Lenga Dispensary	Yes
		8 Ribe Dispensary	Yes
		9 Kambe Dispensary	Yes
		10 Makanzani Dispensary	Yes
		11 Mitsajeni Dispensary	Yes
		12 Kanyumbuni Dispensary	Yes
		13 Chibarani Dispensary	Yes
		14 Boyani Dispensary	Yes
4. Kilifi North	Kilifi North Subcounty Store	1 Kadzinuni Dispensary	Yes
		2 Mnarani Dispensary	Yes
		3 Takaungu Dispensary	Yes
		4 Mavueni Dispensary	Yes
		5 Konjora Dispensary	Yes
		6 Kilifi County Hospital	Yes
		7 Kiwandani Dispensary	Yes
		8 Mtondia Dispensary	Yes
		9 Ngerenya Dispensary	Yes

		10 Zowerani Dispensary	Yes
		11 Matsangoni Dispensary	Yes
		12 Roka Maweni Dispensary	Yes
		13 Chumani Dispensary	Yes
		14 Gede Health Centre	Yes
		15 Mijomboni Dispensary	Yes
		16 Watamu Dispensary	Yes
		17 Cowdray Dispensary	Yes
		18 Jimba Dispensary	Yes
5. Kaloleni Sub-county	Kaloleni Sub County Store	1 Chalani Dispensary	Yes
		2 Jibana SCH	Yes
		3 Kaloleni GK Prison Dispensary	No
		4 Makomboani Dispensary	Yes
		5 Mgamboni Dispensary	Yes
		6 Vishakani Dispensary	Yes
		7 Gotani Model Health Centre	Yes
		8 Kasemeni Dispensary	Yes
		9 Ndatani Dispensary	Yes
		10 Tsangatsini Dispensary	Yes
		11 Kamkomani Dispensary	Yes
		12 Madzimbani Dispensary	Yes
		13 Mariakani SCH	Yes
		14 Shangia Dispensary	Yes
		15 Kinarani Dispensary	Yes
		16 Virangoni Dispensary	Yes
		17 Mabati Medical	Yes
		18 Mariakani Community Healthcare	Yes

6. Magarini Sub-county	1 Gongoni Health Centre	1 Gongoni Health Centre	Yes
		2 Marikebuni Dispensary	Yes
		3 Sabaki Dispensary	Yes
		4 Karimboni Dispensary	Yes
		5 Marafa Health Centre	Yes
		6 Marereni Dispensary	Yes
		7 Adu Dispensary	Yes
		8 Garashi Dispensary	Yes
		9 Mjanaheri Dispensary	Yes
		10 Sosoni Dispensary	Yes
		11 Bombi Dispensary	Yes
		12 Chakama Dispensary	Yes
		13 Ngomeni Health Centre (Magarini)	Yes
		14 Magarini Dispensary	Yes
		15 Muyu Wa Kae	Yes
		16 Mambrui Dispensary	Yes
		17 Chamari Dispensary	Yes
		18 Adc Danisa Dispensary	Yes
		19 Kavunyalalo	Yes
		20 Mwangati	Yes
7. Ganze Sub-county	Ganze Sub county	1 Ganze Health Centre	Yes
		2 Bamba	Yes
		3 Kachororoni Dispensary	Yes
		4 Rimarapera Dispensary	Yes
		5 Sokoke Dispensary	Yes
		6 Jaribuni Dispensary	Yes
		7 Mbudzi Health Centre	Yes
		8 Mwapula Dispensary	Yes

		9 Palakumi Dispensary	Yes
		10 Dida Dispensary	Yes
		11 Dzikunze Dispensary	Yes
		12 Kaambeni Dispensary	Yes
		13 Madamani Dispensary	Yes
		14 Mrima Wa Ndege Dispensary	Yes
		15 Shirango Dispensary	Yes
		16 Vitengeni Health Centre	Yes

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

Row Labels	B1	B2	B3	B4
Ganze	Yes	Yes	Yes	Yes
Kaloleni	No	No	No	No
Kilifi North	Yes	Yes	Yes	No
Kilifi South	No	No	No	No
Magarini	Yes	Yes	Yes	No
Malindi	Yes	Yes	No	No
Rabai	No	No	No	No
Compliant	4	4	3	1
Non- Compliant	3	3	4	6

KEY/DETAILS

B1	Did the county receive any COVID-19 related budgetary support from donors/National government?
B2	Did the county spent on COVID-19 vaccination?
B3	Did the subcounty/Facility finance the following costs related to COVID-19 vaccination;
B4	Was the associated COVID-19 vaccination costs, including transportation, training and procurement of auxiliary services such as syringes and safety boxes, budgeted for?

Appendix 3: Storage at Sub County Level – Kilifi County

Sub County	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
GANZE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Kaloleni	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes
Kilifi North	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	Yes	Yes	No
Kilifi South	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes
MAGARINI	No	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
MALINDI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Rabai	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliant	6	6	6	7	4	7	7	5	6	5	5	1	1	5	7	5	5	7	6
Non-Compliant	1	1	1	0	3	0	0	2	1	2	2	6	6	2	0	2	2	0	1

KEY/DETAILS:

S1	Does the building have sufficient security to prevent loss of Covid vaccines as well as prevent unauthorized access?
S2	Is there sufficient space for orderly receipt, warehousing, and dispatch of vaccines? In particular, a quarantine area for isolation when necessary, including isolation of faulty packs and recalled goods? (The vaccines and areas concerned should be appropriately identified.)
S3	Are the Broken or damaged items withdrawn from usable stock and stored separately?
S4	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?

S5	Are all COVID-19 vaccines stored off the floor?
S6	Are Refrigerated and freezing storage environments fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)
S7	Are the vaccines issued on a FIFO method and guided by the expiry date?
S8	Is there a contingency plan put in place in case of power failure, equipment breakdown, or cold chain breach?
S9	Are there Secure measures to ensure that rejected vaccines cannot be used? Are they stored separately from other products while awaiting destruction or return to the supplier?
S10	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas?
S11	Is there a cleaning log that must be completed, signed, and checked by the appropriately designated person?
S12	Is there a written procedure and a program for pest control? Do the pest control agents used pose any risk of contaminating the vaccines? (A site flow plan indicating where the bait stations are situated must be available.)
S13	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
S14	Are the COVID-19 vaccines stored in such a way as to prevent contamination or cross-contamination?
S15	Are the storage conditions compatible with the storage conditions specified on their labels? (Storage facilities should protect goods from deterioration.)
S16	Are the warehouse maintained at a temperature not exceeding 30 °C, and relative humidity not exceeding 75% Relative humidity (WHO zone IVb requirements) at all times?
S17	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
S18	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 dozes 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.
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Appendix 4. Storage at Facility level-Kilifi County

Sub County	Facility	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12
GANZE	BAMBA SUB COUNTY HOSPITAL	yes	yes	yes	Yes	yes	yes	Yes	yes	no	no	yes	yes
	DIDA	yes	yes	yes	Yes	no	yes	Yes	yes	no	no	yes	no
	DZIKUNZE	yes	yes	yes	Yes	no	yes	yes	yes	no	no	yes	yes
	GANZE HEALTH CENTRE	yes	yes	yes	No	yes	yes	yes	yes	no	no	yes	yes
	JARIBUNI	yes	yes	yes	Yes	no	yes	yes	no	no	no	yes	yes
	KACHORORONI	yes	yes	yes	Yes	no	yes	yes	yes	no	no	yes	yes
	KAEMBENI	yes	yes	yes	Yes	no	yes	yes	yes	no	no	yes	yes
	MADAMANI	no	yes	yes	Yes	yes	yes	yes	yes	no	no	yes	yes
	MBUDZI	yes	yes	yes	Yes	no	yes	yes	no	yes	no	yes	yes
	MWAPULA	yes	yes	yes	Yes	no	yes	yes	yes	yes	no	yes	yes
	PALAKUMI	yes	yes	yes	Yes	no	yes	yes	yes	yes	no	no	yes
	RIMARAPERA	yes	yes	yes	Yes	no	yes	yes	no	yes	no	yes	yes
	SHIRANGO	yes	yes	yes	Yes	no	yes	yes	no	yes	no	no	yes
SOKOKE	yes	yes	yes	Yes	no	yes	yes	yes	yes	no	yes	yes	
VITENGENI	yes	yes	yes	Yes	yes	yes	yes	yes	yes	no	no	yes	
Kaloleni	Chalani	no	yes	yes	Yes	yes	yes	yes	yes	no	no	yes	yes
	Gotani	yes	no	yes	Yes	yes	yes	yes	yes	yes	yes	yes	yes
	kamkomani	yes	yes	yes	Yes	yes	yes	yes	yes	yes	yes	yes	yes
	Kasemeni	no	no	no	Yes	yes	yes	no	yes	yes	yes	yes	yes
	Kinarani	no	yes	yes	Yes	yes	yes	no	yes	no	no	yes	yes
	Mabati	yes	yes	yes	Yes	yes	yes	no	yes	yes	yes	yes	yes
	Makomboani	no	yes	yes	No	yes	yes	yes	yes	yes	yes	yes	yes
	Manzimbani	no	yes	no	Yes	yes	yes	yes	yes	yes	yes	yes	yes
	Mariakani Sub County Hospital	no	yes	yes	No	yes	yes	yes	yes	yes	yes	yes	yes

Mgamboni	no	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Ndatani	yes	no	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Shang'aa	yes	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Tsangatsini	no	yes	yes	yes	yes	yes	no	No	no	no	no	
Vishakani	no	yes	yes	yes	no	yes	yes	Yes	yes	yes	no	
CHUMANI	yes	no	yes	yes	no	yes	no	Yes	yes	yes	yes	Kilifi North
Cowdray	yes	yes	yes	yes	yes	yes	no	Yes	yes	yes	yes	
Dispensary	yes	no	no	yes	yes	yes	yes	Yes	yes	yes	yes	
GEDE	yes	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Jimba	no	yes	yes	yes	yes	yes	yes	Yes	yes	yes	no	
Kadzinduni	no	yes	yes	yes	no	yes	yes	Yes	yes	yes	no	
KCH	yes	yes	yes	yes	no	yes	yes	Yes	yes	yes	yes	
Kiwandani	yes	yes	yes	yes	no	yes	yes	Yes	yes	yes	yes	
Konjora	no	yes	yes	yes	yes	yes	yes	Yes	yes	yes	no	
MATSANGONI	yes	no	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Maveni	yes	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Dispensary	yes	no	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Mijimboni	no	yes	yes	yes	no	yes	yes	Yes	yes	yes	no	
Mnarani	no	yes	yes	yes	yes	yes	yes	Yes	yes	yes	no	
Mtondia	no	yes	yes	yes	no	yes	yes	Yes	yes	yes	no	
NGERENYA	no	yes	yes	yes	yes	yes	yes	Yes	yes	yes	no	
Roka maweni	no	yes	yes	yes	no	yes	yes	Yes	yes	yes	no	
Takungu	no	yes	yes	yes	no	yes	yes	Yes	yes	yes	no	
WATAMU	yes	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Zoverani	no	yes	yes	yes	no	yes	yes	Yes	yes	yes	no	
Bomani	yes	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	Kilifi South
Dispensary	yes	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Chasimba	yes	no	yes	yes	yes	yes	yes	Yes	yes	yes	yes	
Junja Dispensary	yes	yes	yes	yes	yes	yes	yes	Yes	yes	yes	yes	

	MUYU WA KAE	yes	yes	yes	no	yes	no	No	yes	yes	yes		Uwanja wa Ndege
	Mwngatini	yes	yes	yes	no	yes	yes	No	yes	yes	yes		Ribe
	NGOMENI	yes	yes	no	no	yes	no	Yes	yes	yes	no		Mitsajeni
	SABAKI	yes	yes	yes	yes	yes	yes	Yes	yes	yes	no		Makanzani
	SOSONI	yes	yes	yes	yes	yes	yes	Yes	yes	yes	no		Lenga
	MAMBURI	yes	yes	no	yes	yes	yes	Yes	yes	yes	no		Kombeni
MALINDI	MADUNGUINI	no	yes	no	yes	yes	yes	Yes	yes	no	yes		Kokotoni
	MALINDI	no	yes	no	yes	yes	yes	Yes	yes	no	yes		Kanyumboni
	HOSPITAL SUBCOUNTY	no	yes	no	yes	yes	yes	No	yes	yes	no		Kambe
	HOSPITAL	no	yes	no	yes	yes	yes	Yes	yes	yes	no		Chilodi
	MARIKANO	no	yes	no	yes	yes	yes	Yes	yes	yes	no		Chibarani
	MKONDONI	no	yes	no	yes	yes	yes	Yes	yes	yes	no		Bwogamoyo
	MMANGANI	no	yes	no	yes	yes	yes	Yes	yes	yes	no		Boyani
	STAR HOSPITAL	yes	yes	yes	yes	yes	yes	No	yes	yes	yes		HOSPITAL
	TAWFIQ	yes	yes	yes	yes	yes	yes	No	yes	yes	yes		HOSPITAL
	Rabai	yes	yes	yes	yes	yes	yes	Yes	yes	yes	no		Yes

COMPLIANT	59	99	98	96	81	104	79	104	63	60	104	97
NON COMPLIANT	47	7	8	10	25	2	27	2	43	46	2	9

KEY/DETAILS:

ST1	Is the refrigerator well secured to prevent unauthorized access?
ST2	Were broken or damaged items withdrawn from usable stock and stored separately?
ST3	Is there sufficient lighting necessary to enable all operations to be carried out accurately and safely?
ST4	Are all COVID-19 vaccines (Fridge) stored off the floor?
ST5	Is the Refrigerator is fitted with signals to indicate that refrigeration has failed?(The signal should permit resetting only by the authorized person.)
ST6	Are the vaccines issued on a FIFO method and guided by the expiry date?
ST7	Is there a contingency plan in case of power failure, equipment breakdown, or cold chain breach
ST8	Are there measures to ensure that rejected vaccines cannot be used? (They should be stored separately from other products while awaiting destruction or return to the supplier)
ST9	Are there Written procedures and a sanitation program indicating the frequency of cleaning and the methods used to clean the premises and storage areas (There should be a chart on the wall that i signed after every cleaning and a poster giving cleaning instructions)
ST10	Are there appropriate written procedures for the clean-up of any spillage to ensure the complete removal of any risk of contamination?
ST11	Are the storage conditions of the refrigerators per the vaccine manufacturer's recommendations? (Refrigerated (2°C to 8°C))
ST12	Is there Continuous temperature monitoring devices? If <input type="checkbox"/> , are there Written procedures describing the action in case of temperature deviating outside of the set standards and conditions?

Appendix 5 Distribution at Facilities

Vaccine Type	Sub-County	Facilities	Doses Received
Oxford/AstraZeneca	Ganze	Bamba sub county hospital	8124
	Ganze	Dida Dispensary	100
	Ganze	Dzikunze Dispensary	950
	Ganze	Ganze Health Centre	1880
	Ganze	Jaribuni Dispensary	250
	Ganze	Kachororoni Dispensary	50
	Ganze	Kaembeni Dispensary	300
	Ganze	Madamani Dispensary	50
	Ganze	Mwapula Dispensary	60
	Ganze	Palakumi Dispensary	50
	Ganze	Rimarapera Dispensary	50
	Ganze	Sokoke Dispensary	150

	Ganze	Vitengeni Health Centre	1650
	Kaloleni	Chalani Dispensary	150
	Kaloleni	Gotani Dispensary	850
	Kaloleni	Jibana sub county hospital	100
	Kaloleni	Kamkomani Dispensary	150
	Kaloleni	Kasemeni Dispensary	80
	Kaloleni	Kinarani Dispensary	1000
	Kaloleni	Mabati Medical Clinic	80
	Kaloleni	Makomboani Dispensary	400
	Kaloleni	Mariakani sub county hospital	11770
	Kaloleni	Mgamboni Dispensary	70
	Kaloleni	Ndatani Dispensary (Kaloleni)	50
	Kaloleni	Shangia Dispensary	60
	Kaloleni	Tsangatsini Dispensary	300
	Kaloleni	Viragoni Dispensary	500

	Kaloleni	Vishakani Dispensary	460
	Kilifi North	Chumani Dispensary	190
	Kilifi North	Gede Health Centre	2380
	Kilifi North	Jimba Dispensary	200
	Kilifi North	Kadzinuni Dispensary	770
	Kilifi North	Kilifi County Hospital	13325
	Kilifi North	Kiwandani Dispensary	800
	Kilifi North	Konjora Dispensary	1451
	Kilifi North	Matsangoni Model Health Centre	1400
	Kilifi North	Mavueni Dispensary	500
	Kilifi North	Mnarani Dispensary	2600
	Kilifi North	Mtondia Dispensary	1220
	Kilifi North	Ngerenya Dispensary	400
	Kilifi North	Roka Maweni Dispensary	410
	Kilifi North	Takaungu Dispensary	650

	Kilifi North	Watamu Dispensary	2090
	Kilifi North	Zowerani Dispensary	190
	Kilifi South	Bomani Dispensary	540
	Kilifi South	Chasimba Health Centre	1730
	Kilifi South	Junju Dispensary	720
	Kilifi South	Kilifi South Sub County	4580
	Kilifi South	Kizingo Health Centre	1400
	Kilifi South	Msumarini Dispensary	1000
	Kilifi South	Mtepeni Dispensary	890
	Kilifi South	Mtwapa Dispensary- Shimo La Tewa	880
	Kilifi South	Mtwapa Health Centre	7870
	Kilifi South	Mwembe Kati Dispensary	1020
	Kilifi South	Pingilikani Dispensary	850
	Kilifi South	Tunzanani Dispensary	450
	Kilifi South	Vipingo Rural Demonstration Health Centre	8110

	Kilifi South	Ziani Dispensary	680
	Magarini	Adu Danisa Dispensary	70
	Magarini	Adu Dispensary	250
	Magarini	Bombi Dispensary	400
	Magarini	Chakama Dispensary	250
	Magarini	Chamari Dispensary	150
	Magarini	Garashi Dispensary	1700
	Magarini	Gongoni Health Centre	2270
	Magarini	Karimboni Dispensary	650
	Magarini	Kavunyalalo Dispensary	150
	Magarini	Magarini Dispensary	180
	Magarini	Magarini Sub County	9394
	Magarini	Mambrui Dispensary	350
	Magarini	Marafa Health Centre	200
	Magarini	Marereni Dispensary	800

Magarini	Marikebuni Dispensary	1510
Magarini	Mjanaheri Dispensary	480
Magarini	Muyu Wa Kae	400
Magarini	Mwangatini Dispensary	500
Magarini	Ngomeni Health Centre (Magarini)	170
Magarini	Sabaki Dispensary	1050
Magarini	Sosoni Dispensary	150
Malindi	Cowdray Dispensary	390
Malindi	Madunguni Dispensary	100
Malindi	Malindi sub county hospital	24712
Malindi	Marikano Dispensary	30
Malindi	Mkondoni Dispensary	390
Malindi	Mmangani Dispensary	50
Malindi	Star hospital	250
Malindi	Tawfiq hospital	310

	Rabai	Boyani Dispensary	80
	Rabai	Bwagamoyo Dispensary	270
	Rabai	Chibarani Dispensary	530
	Rabai	Chilodi Crossfit Health Centre	220
	Rabai	Kambe Dispensary	350
	Rabai	Kanyumbuni Dispensary	200
	Rabai	Kokotoni Dispensary	320
	Rabai	Kombeni Dispensary	450
	Rabai	Lenga Dispensary	710
	Rabai	Makanzani Dispensary	300
	Rabai	Mitsajeni Dispensary	220
	Rabai	Rabai Rural Health Demonstration Centre	1750
	Rabai	Rabai Sub County	6036
	Rabai	Ribe Dispensary	530
	Rabai	Uwanja Wa Ndege Dispensary	550

		Subtotal	148802
Pfizer	Ganze	Bamba sub county hospital	360
	Ganze	Dida Dispensary	96
	Ganze	Dzikunze Dispensary	42
	Ganze	Ganze Health Centre	354
	Ganze	Jaribuni Dispensary	312
	Ganze	Mwapula Dispensary	30
	Ganze	Shirango Dispensary	36
	Ganze	Vitengeni Health Centre	126
	Kaloleni	Chalani Dispensary	98
	Kaloleni	Gotani Dispensary	120
	Kaloleni	Jibana sub county hospital	100
	Kaloleni	Kamkomani Dispensary	90
	Kaloleni	Kasemeni Dispensary	60

	Kaloleni	Kinarani Dispensary	780
	Kaloleni	Mabati Medical Clinic	30
	Kaloleni	Madzimbani Dispensary	100
	Kaloleni	Makomboani Dispensary	632
	Kaloleni	Mariakani sub county hospital	3796
	Kaloleni	Mgamboni Dispensary	90
	Kaloleni	Shangia Dispensary	120
	Kaloleni	Tsangatsini Dispensary	120
	Kaloleni	Viragoni Dispensary	400
	Kaloleni	Vishakani Dispensary	762
	Kilifi North	Chumani Dispensary	132
	Kilifi North	Gede Health Centre	2810
	Kilifi North	Jimba Dispensary	408
	Kilifi North	Kadzinuni Dispensary	606
	Kilifi North	Kilifi County Hospital	3954

	Kilifi North	Kiwandani Dispensary	1092
	Kilifi North	Konjora Dispensary	852
	Kilifi North	Matsangoni Model Health Centre	882
	Kilifi North	Mnarani Dispensary	2304
	Kilifi North	Mtondia Dispensary	618
	Kilifi North	Ngerenya Dispensary	480
	Kilifi North	Roka Maweni Dispensary	204
	Kilifi North	Takaungu Dispensary	456
	Kilifi North	Watamu Dispensary	1750
	Kilifi North	Zowerani Dispensary	282
	Kilifi South	Bomani Dispensary	624
	Kilifi South	Chasimba Health Centre	876
	Kilifi South	Junju Dispensary	396
	Kilifi South	Kizingo Health Centre	1602
	Kilifi South	Msumarini Dispensary	690

	Kilifi South	Mtepeni Dispensary	522
	Kilifi South	Mtwapa Dispensary- Shimo La Tewa	918
	Kilifi South	Mtwapa Health Centre	6072
	Kilifi South	Mwembe Kati Dispensary	258
	Kilifi South	Pingilikani Dispensary	426
	Kilifi South	Tunzanani Dispensary	312
	Kilifi South	Vipingo Rural Demonstration Health Centre	2388
	Kilifi South	Ziani Dispensary	696
	Magarini	Adu Dispensary	72
	Magarini	Bombi Dispensary	300
	Magarini	Chakama Dispensary	60
	Magarini	Garashi Dispensary	180
	Magarini	Gongoni Health Centre	114
	Magarini	Karimboni Dispensary	360
	Magarini	Kavunyalalo Dispensary	192

	Magarini	Magarini Sub County	3328
	Magarini	Marafa Health Centre	50
	Magarini	Marereni Dispensary	180
	Magarini	Marikebuni Dispensary	420
	Magarini	Mjanaheri Dispensary	210
	Magarini	Muyu Wa Kae	240
	Magarini	Mwangatini Dispensary	180
	Magarini	Ngomeni Health Centre (Magarini)	18
	Magarini	Sabaki Dispensary	180
	Magarini	Sosoni Dispensary	60
	Malindi	Cowdray Dispensary	696
	Malindi	Madunguni Dispensary	96
	Malindi	Malindi sub county hospital	18596
	Malindi	Marikano Dispensary	30
	Malindi	Mkondoni Dispensary	402

	Malindi	Mmangani Dispensary	60
	Malindi	Star hospital	238
	Malindi	Tawfiq hospital	294
	Rabai	Boyani Dispensary	168
	Rabai	Bwagamoyo Dispensary	348
	Rabai	Chibarani Dispensary	1230
	Rabai	Chilodi Crossfit Health Centre	450
	Rabai	Kambe Dispensary	468
	Rabai	Kanyumbuni Dispensary	342
	Rabai	Kokotoni Dispensary	426
	Rabai	Kombeni Dispensary	1284
	Rabai	Lenga Dispensary	942
	Rabai	Makanzani Dispensary	732
	Rabai	Mitsajeni Dispensary	354
	Rabai	Rabai Rural Health Demonstration Centre	2520

	Rabai	Rabai Sub County	444
	Rabai	Ribe Dispensary	876
	Rabai	Uwanja Wa Ndege Dispensary	1392
		Subtotal	79796
	Ganze	Bamba sub county hospital	1876
	Kaloleni	Mariakani sub county hospital	5068
	Kilifi North	Kilifi County Hospital	5790
	Kilifi North	Kiwandani Dispensary	210
	Kilifi North	Mnarani Dispensary	76
	Kilifi North	Watamu Dispensary	364
	Kilifi South	Chasimba Health Centre	154
	Kilifi South	Kilifi South Sub County	2072
	Kilifi South	Kizingo Health Centre	42
	Kilifi South	Mtwapa Health Centre	1400

	Kilifi South	Vipingo Rural Demonstration Health Centre	1988
	Magarini	Gongoni Health Centre	56
	Magarini	Magarini Sub County	2352
	Magarini	Marereni Dispensary	56
	Malindi	Malindi sub county hospital	8644
	Malindi	Star hospital	48
	Rabai	Rabai Sub County	2646
		sub total	32842
	Ganze	Bamba sub county hospital	100
	Ganze	Dida Dispensary	50
	Ganze	Dzikunze Dispensary	150
	Ganze	Ganze Health Centre	50
	Ganze	Jaribuni Dispensary	150
	Ganze	Kachororoni Dispensary	25

	Ganze	Kaembeni Dispensary	50
	Ganze	Madamani Dispensary	50
	Ganze	Mwapula Dispensary	50
	Ganze	Palakumi Dispensary	50
	Ganze	Rimarapera Dispensary	75
	Ganze	Shirango Dispensary	50
	Ganze	Soko Dispensary	50
	Ganze	Vitengeni Health Centre	50
	Kaloleni	Chalani Dispensary	100
	Kaloleni	Gotani Dispensary	200
	Kaloleni	Jibana sub county hospital	50
	Kaloleni	Kamkomani Dispensary	100
	Kaloleni	Kasemeni Dispensary	30
	Kaloleni	Kinarani Dispensary	1050
	Kaloleni	Madzimbani Dispensary	50

	Kaloleni	Makomboani Dispensary	230
	Kaloleni	Mariakani sub county hospital	3300
	Kaloleni	Mgamboni Dispensary	55
	Kaloleni	Shangia Dispensary	50
	Kaloleni	Tsangatsini Dispensary	440
	Kaloleni	Viragoni Dispensary	300
	Kaloleni	Vishakani Dispensary	460
	Kilifi North	Chumani Dispensary	130
	Kilifi North	Gede Health Centre	490
	Kilifi North	Jimba Dispensary	120
	Kilifi North	Kadzinuni Dispensary	250
	Kilifi North	Kilifi County Hospital	2712
	Kilifi North	Kiwandani Dispensary	600
	Kilifi North	Konjora Dispensary	300
	Kilifi North	Matsangoni Model Health Centre	200

	Kilifi North	Mnarani Dispensary	843
	Kilifi North	Mtondia Dispensary	230
	Kilifi North	Ngerenya Dispensary	170
	Kilifi North	Roka Maweni Dispensary	135
	Kilifi North	Takaungu Dispensary	400
	Kilifi North	Watamu Dispensary	455
	Kilifi North	Zowerani Dispensary	80
	Kilifi South	Bomani Dispensary	170
	Kilifi South	Chasimba Health Centre	455
	Kilifi South	Junju Dispensary	100
	Kilifi South	Kilifi South Sub County	100
	Kilifi South	Kizingo Health Centre	510
	Kilifi South	Msumarini Dispensary	160
	Kilifi South	Mtepeni Dispensary	335
	Kilifi South	Mtwapa Dispensary- Shimo La Tewa	150

	Kilifi South	Mtwapa Health Centre	925
	Kilifi South	Mwembe Kati Dispensary	105
	Kilifi South	Pingilikani Dispensary	145
	Kilifi South	Tunzanani Dispensary	20
	Kilifi South	Vipingo Rural Demonstration Health Centre	795
	Kilifi South	Ziani Dispensary	270
	Magarini	Adc Danisa Dispensary	100
	Magarini	Adu Dispensary	150
	Magarini	Bombi Dispensary	200
	Magarini	Chakama Dispensary	50
	Magarini	Chamari Dispensary	50
	Magarini	Garashi Dispensary	200
	Magarini	Gongoni Health Centre	565
	Magarini	Karimboni Dispensary	100
	Magarini	Magarini Sub County	720

	Magarini	Mambrui Dispensary	50
	Magarini	Marafa Health Centre	100
	Magarini	Marereni Dispensary	250
	Magarini	Marikebuni Dispensary	250
	Magarini	Mjanaheri Dispensary	185
	Magarini	Muyu Wa Kae	20
	Magarini	Mwangatini Dispensary	10
	Magarini	Ngomeni Health Centre (Magarini)	50
	Magarini	Sabaki Dispensary	85
	Magarini	Sosoni Dispensary	150
	Malindi	Cowdray Dispensary	35
	Malindi	Madunguni Dispensary	30
	Malindi	Malindi sub county hospital	7630
	Malindi	Marikano Dispensary	28
	Malindi	Mkondoni Dispensary	235

	Malindi	Star hospital	200
	Malindi	Tawfiq hospital	150
	Rabai	Boyani Dispensary	100
	Rabai	Bwagamoyo Dispensary	100
	Rabai	Chibarani Dispensary	300
	Rabai	Chilodi Crossfit Health Centre	200
	Rabai	Kambe Dispensary	350
	Rabai	Kanyumbuni Dispensary	200
	Rabai	Kokotoni Dispensary	350
	Rabai	Kombeni Dispensary	250
	Rabai	Lenga Dispensary	250
	Rabai	Makanzani Dispensary	300
	Rabai	Mitsajeni Dispensary	100
	Rabai	Rabai Rural Health Demonstration Centre	675
	Rabai	Rabai Sub County	1125

	Rabai	Ribe Dispensary	300
	Rabai	Uwanja Wa Ndege Dispensary	550
		Sub total	35463
		Grand Total	296903

Appendix 6 Utilization of vaccines

Vaccine Type	Sub-County	Facilities	Doses Received	Vaccinations Administered	Dose in stock	Doses wasted	Doses Expired	Total Unexplained variance
Oxford/AstraZeneca	Ganze	Bamba sub county hospital	8124	6916	78	0	0	1130
	Ganze	Dida Dispensary	100	99	-117	0	0	118
	Ganze	Dzikunze Dispensary	950	1486	-80	0	40	-456
	Ganze	Ganze Health Centre	1880	1778	257	0	0	-155
	Ganze	Jaribuni Dispensary	250	2033	-82	6	0	-1707
	Ganze	Kachororoni Dispensary	50	32	-64	0	0	91
	Ganze	Kaembeni Dispensary	300	189	38	97	0	-24
	Ganze	Madamani Dispensary	50	45	-18	0	0	23
	Ganze	Mwapula Dispensary	60	27	-12	0	0	45
	Ganze	Palakumi Dispensary	50	31	0	0	0	19
	Ganze	Rimarapera Dispensary	50	27	-37	16	0	44

	Ganze	Sokoke Dispensary	150	86	40	45	0	-21
	Ganze	Vitengeni Health Centre	1650	1876	28	349	0	-603
	Kaloleni	Chalani Dispensary	150	12	0	0	0	138
	Kaloleni	Gotani Dispensary	850	153	0	0	0	697
	Kaloleni	Jibana sub county hospital	100	32	0	0	0	68
	Kaloleni	Kamkomani Dispensary	150	160	0	0	0	-10
	Kaloleni	Kasemeni Dispensary	80	23	0	0	0	57
	Kaloleni	Kinarani Dispensary	1000	230	0	0	0	770
	Kaloleni	Mabati Medical Clinic	80	0	0	0	0	80
	Kaloleni	Makomboani Dispensary	400	28	0	0	0	372
	Kaloleni	Mariakani sub county hospital	11770	14035	0	0	0	-2265
	Kaloleni	Mgamboni Dispensary	70	3	0	0	0	67

	Kaloleni	Ndatani Dispensary (Kaloleni)	50	4	0	0	0	46
	Kaloleni	Shangia Dispensary	60	33	0	0	0	27
	Kaloleni	Tsangatsini Dispensary	300	124	0	0	0	176
	Kaloleni	Viragoni Dispensary	500	395	0	0	0	105
	Kaloleni	Vishakani Dispensary	460	181	0	0	0	279
	Kilifi North	Chumani Dispensary	190	53	10	70	10	57
	Kilifi North	Gede Health Centre	2380	1949	167	0	30	264
	Kilifi North	Jimba Dispensary	200	103	0	0	0	97
	Kilifi North	Kadzinuni Dispensary	770	595	0	0	0	175
	Kilifi North	Kilifi County Hospital	13325	14402	199	-438	150	-838
	Kilifi North	Kiwandani Dispensary	800	807	0	100	0	-107
	Kilifi North	Konjora Dispensary	1451	1024	0	338	0	89
	Kilifi North	Matsangoni Model Health Centre	1400	847	35	0	0	376

	Kilifi North	Mavueni Dispensary	500	331	0	93	93	76
	Kilifi North	Mnarani Dispensary	2600	2335	0	193	0	72
	Kilifi North	Mtondia Dispensary	1220	720	0	423	0	77
	Kilifi North	Ngerenya Dispensary	400	224	0	165	0	11
	Kilifi North	Roka Maweni Dispensary	410	330	0	0	0	80
	Kilifi North	Takaungu Dispensary	650	612	0	0	0	38
	Kilifi North	Watamu Dispensary	2090	1871	0	0	0	219
	Kilifi North	Zowerani Dispensary	190	85	0	0	0	105
	Kilifi South	Bomani Dispensary	540	395	0	0	0	145
	Kilifi South	Chasimba Health Centre	1730	1604	0	0	0	126
	Kilifi South	Junju Dispensary	720	572	0	0	0	148
	Kilifi South	Kilifi South Sub County	4580	4951	0	0	0	-371
	Kilifi South	Kizingo Health Centre	1400	1255	0	0	0	145

	Kilifi South	Msumarini Dispensary	1000	806	0	0	0	194
	Kilifi South	Mtepeni Dispensary	890	558	0	0	0	332
	Kilifi South	Mtwapa Dispensary- Shimo La Tewa	880	521	0	0	0	359
	Kilifi South	Mtwapa Health Centre	7870	8226	0	0	0	-356
	Kilifi South	Mwembe Kati Dispensary	1020	994	0	0	0	26
	Kilifi South	Pingilikani Dispensary	850	668	0	0	0	182
	Kilifi South	Tunzanani Dispensary	450	254	0	0	0	196
	Kilifi South	Vipingo Rural Demonstration Health Centre	8110	8487	0	0	0	-377
	Kilifi South	Ziani Dispensary	680	546	0	0	0	134
	Magarini	Adc Danisa Dispensary	70	0	62	0	0	8
	Magarini	Adu Dispensary	250	392	117	0	0	-259
	Magarini	Bombi Dispensary	400	334	0	0	0	66

	Magarini	Chakama Dispensary	250	355	0	0	0	-105
	Magarini	Chamari Dispensary	150	70	0	0	0	80
	Magarini	Garashi Dispensary	1700	506	1	0	0	1193
	Magarini	Gongoni Health Centre	2270	2710	33	0	0	-473
	Magarini	Karimboni Dispensary	650	677	0	0	0	-27
	Magarini	Kavunyalalo Dispensary	150	170	0	0	0	-20
	Magarini	Magarini Dispensary	180	273	0	0	0	-93
	Magarini	Magarini Sub County	9394	4800	-6	0	540	4600
	Magarini	Mambrui Dispensary	350	82	12	37	0	219
	Magarini	Marafa Health Centre	200	886	0	0	0	-686
	Magarini	Marereni Dispensary	800	624	0	60	0	116
	Magarini	Marikebuni Dispensary	1510	1289	170	20	170	31
	Magarini	Mjanaheri Dispensary	480	571	0	0	0	-91
	Magarini	Muyu Wa Kae	400	71	320	0	0	9

	Magarini	Mwangatini Dispensary	500	85	130	0	0	285
	Magarini	Ngomeni Health Centre (Magarini)	170	158	0	0	0	12
	Magarini	Sabaki Dispensary	1050	1256	210	0	210	-416
	Magarini	Sosoni Dispensary	150	395	40	0	40	-285
	Malindi	Cowdray Dispensary	390	278	12	0	0	100
	Malindi	Madunguni Dispensary	100	58	0	5	0	37
	Malindi	Malindi sub county hospital	24712	25725	160	-50	0	-1123
	Malindi	Marikano Dispensary	30	5	2	0	0	23
	Malindi	Mkondoni Dispensary	390	591	-3	21	0	-219
	Malindi	Mmangani Dispensary	50	150	0	0	0	-100
	Malindi	Star hospital	250	222	81	0	0	-53
	Malindi	Tawfiq hospital	310	224	26	80	0	-20
	Rabai	Boyani Dispensary	80	4	0	0	0	76
	Rabai	Bwagamoyo Dispensary	270	87	0	0	0	183

	Rabai	Chibarani Dispensary	530	345	0	0	0	185
	Rabai	Chilodi Crossfit Health Centre	220	127	0	0	0	93
	Rabai	Kambe Dispensary	350	230	0	0	0	120
	Rabai	Kanyumbuni Dispensary	200	135	0	0	0	65
	Rabai	Kokotoni Dispensary	320	270	0	0	0	50
	Rabai	Kombeni Dispensary	450	172	0	0	0	278
	Rabai	Lenga Dispensary	710	398	0	0	0	312
	Rabai	Makanzani Dispensary	300	180	0	0	0	120
	Rabai	Mitsajeni Dispensary	220	136	0	0	0	84
	Rabai	Rabai Rural Health Demonstration Centre	1750	1401	0	0	0	349
	Rabai	Rabai Sub County	6036	6111	0	0	0	-75
	Rabai	Ribe Dispensary	530	308	0	0	0	222

	Rabai	Uwanja Wa Ndege Dispensary	550	229	0	0	0	321
		Subtotal	148802	139253	1809	1630	1283	5977
Pfizer	Ganze	Bamba sub county hospital	360	584	228	39	30	-95
	Ganze	Dida Dispensary	96	36	23	0	24	37
	Ganze	Dzikunze Dispensary	42	18	1	0	0	23
	Ganze	Ganze Health Centre	354	46	18	0	6	326
	Ganze	Jaribuni Dispensary	312	252	33	0	6	27
	Ganze	Mwapula Dispensary	30	43	0	0	0	-13
	Ganze	Shirango Dispensary	36	26	5	0	0	15
	Ganze	Vitengeni Health Centre	126	400	10	32	60	-316
	Kaloleni	Chalani Dispensary	98	115	0	0	0	-17
	Kaloleni	Gotani Dispensary	120	38	0	0	0	82

	Kaloleni	Jibana sub county hospital	100	50	0	0	0	50
	Kaloleni	Kamkomani Dispensary	90	95	0	0	0	-5
	Kaloleni	Kasemeni Dispensary	60	29	0	0	0	31
	Kaloleni	Kinarani Dispensary	780	81	0	0	0	699
	Kaloleni	Mabati Medical Clinic	30	8	0	0	0	22
	Kaloleni	Madzimbani Dispensary	100	67	0	0	0	33
	Kaloleni	Makomboani Dispensary	632	61	0	0	0	571
	Kaloleni	Mariakani sub county hospital	3796	8767	0	0	0	-4971
	Kaloleni	Mgamboni Dispensary	90	26	0	0	0	64
	Kaloleni	Shangia Dispensary	120	48	0	0	0	72
	Kaloleni	Tsangatsini Dispensary	120	41	0	0	0	79
	Kaloleni	Viragoni Dispensary	400	206	0	0	0	194
	Kaloleni	Vishakani Dispensary	762	571	0	0	0	191

	Kilifi North	Chumani Dispensary	132	53	11	53	0	15
	Kilifi North	Gede Health Centre	2810	1778	406	0	222	626
	Kilifi North	Jimba Dispensary	408	343	0	0	0	65
	Kilifi North	Kadzinuni Dispensary	606	527	0	0	0	79
	Kilifi North	Kilifi County Hospital	3954	3719	78	-122	12	279
	Kilifi North	Kiwandani Dispensary	1092	733	36	36	36	287
	Kilifi North	Konjora Dispensary	852	687	0	184	0	-19
	Kilifi North	Matsangoni Model Health Centre	882	670	355	0	336	258
	Kilifi North	Mnarani Dispensary	2304	2118	0	32	0	154
	Kilifi North	Mtondia Dispensary	618	369	0	285	0	-36
	Kilifi North	Ngerenya Dispensary	480	395	52	112	0	-79
	Kilifi North	Roka Maweni Dispensary	204	116	0	0	0	88
	Kilifi North	Takaungu Dispensary	456	275	0	0	0	181

	Kilifi North	Watamu Dispensary	1750	1550	71	0	78	129
	Kilifi North	Zowerani Dispensary	282	161	0	0	0	121
	Kilifi South	Bomani Dispensary	624	384	0	0	0	240
	Kilifi South	Chasimba Health Centre	876	631	0	0	0	245
	Kilifi South	Junju Dispensary	396	284	0	0	0	112
	Kilifi South	Kizingo Health Centre	1602	1406	0	0	0	196
	Kilifi South	Msumarini Dispensary	690	610	0	0	0	80
	Kilifi South	Mtepeni Dispensary	522	408	0	0	0	114
	Kilifi South	Mtwapa Dispensary-Shimo La Tewa	918	715	0	0	0	203
	Kilifi South	Mtwapa Health Centre	6072	5649	0	0	0	423
	Kilifi South	Mwembe Kati Dispensary	258	45	0	0	0	213
	Kilifi South	Pingilikani Dispensary	426	326	0	0	0	100

	Kilifi South	Tunzanani Dispensary	312	202	0	0	0	110
	Kilifi South	Vipingo Rural Demonstration Health Centre	2388	2378	0	0	0	10
	Kilifi South	Ziani Dispensary	696	479	0	0	0	217
	Magarini	Adu Dispensary	72	179	3	0	0	-110
	Magarini	Bombi Dispensary	300	167	2	0	0	131
	Magarini	Chakama Dispensary	60	193	25	0	0	-158
	Magarini	Garashi Dispensary	180	259	0	0	0	-79
	Magarini	Gongoni Health Centre	114	515	0	0	0	-401
	Magarini	Karimboni Dispensary	360	419	0	0	0	-59
	Magarini	Kavunyalalo Dispensary	192	697	0	0	0	-505
	Magarini	Magarini Sub County	3328	40	48	0	48	3240
	Magarini	Marafa Health Centre	50	261	42	0	42	-253
	Magarini	Marereni Dispensary	180	135	0	0	0	45

	Magarini	Marikebuni Dispensary	420	552	13	0	12	-145
	Magarini	Mjanaheri Dispensary	210	116	0	10	0	84
	Magarini	Muyu Wa Kae	240	83	0	0	0	157
	Magarini	Mwangatini Dispensary	180	16	0	0	0	164
	Magarini	Ngomeni Health Centre (Magarini)	18	179	0	0	0	-161
	Magarini	Sabaki Dispensary	180	273	0	0	0	-93
	Magarini	Sosoni Dispensary	60	122	30	0	30	-92
	Malindi	Cowdray Dispensary	696	613	11	0	0	72
	Malindi	Madunguni Dispensary	96	67	0	2	0	27
	Malindi	Malindi sub county hospital	18596	15348	770	0	0	4018
	Malindi	Marikano Dispensary	30	17	4	0	0	9
	Malindi	Mkondoni Dispensary	402	563	16	0	0	-177
	Malindi	Mmangani Dispensary	60	368	0	0	0	-308
	Malindi	Star hospital	238	339	21	2	0	-124

	Malindi	Tawfiq hospital	294	230	5	58	0	1
	Rabai	Boyani Dispensary	168	11	0	0	0	157
	Rabai	Bwagamoyo Dispensary	348	105	0	0	0	243
	Rabai	Chibarani Dispensary	1230	788	0	0	0	442
	Rabai	Chilodi Crossfit Health Centre	450	276	0	0	0	174
	Rabai	Kambe Dispensary	468	429	0	0	0	39
	Rabai	Kanyumbuni Dispensary	342	244	0	0	0	98
	Rabai	Kokotoni Dispensary	426	233	0	0	0	193
	Rabai	Kombeni Dispensary	1284	832	0	0	0	452
	Rabai	Lenga Dispensary	942	798	0	0	0	144
	Rabai	Makanzani Dispensary	732	839	0	0	0	-107
	Rabai	Mitsajeni Dispensary	354	326	0	0	0	28
	Rabai	Rabai Rural Health Demonstration Centre	2520	2337	0	0	0	183

	Rabai	Rabai Sub County	444	759	0	0	0	-315
	Rabai	Ribe Dispensary	876	943	0	0	0	-67
	Rabai	Uwanja Wa Ndege Dispensary	1392	602	0	0	0	790
		Subtotal	79796	69892	2317	723	942	9247
Janssen	Ganze	Bamba sub county hospital	1876	1492	0	353	0	31
	Kaloleni	Mariakani sub county hospital	5068	4890	0	0	0	178
	Kilifi North	Kilifi County Hospital	5790	5337	0	32	0	421
	Kilifi North	Kiwandani Dispensary	210	128	0	28	0	54
	Kilifi North	Mnarani Dispensary	76	61	0	0	0	15
	Kilifi North	Watamu Dispensary	364	317	0	0	0	47
	Kilifi South	Chasimba Health Centre	154	97	0	0	0	57
	Kilifi South	Kilifi South Sub County	2072	1963	0	0	0	109

	Kilifi South	Kizingo Health Centre	42	20	0	0	0	22
	Kilifi South	Mtwapa Health Centre	1400	1237	0	0	0	163
	Kilifi South	Vipingo Rural Demonstration Health Centre	1988	1644	0	0	0	344
	Magarini	Gongoni Health Centre	56	11	0	42	0	3
	Magarini	Magarini Sub County	2352	1748	0	149	0	455
	Magarini	Marereni Dispensary	56	23	0	30	0	3
	Malindi	Malindi sub county hospital	8644	8589	0	406	0	-351
	Malindi	Star hospital	48	45	0	2	0	0
	Rabai	Rabai Sub County	2646	2502	0	0	0	144
		sub total	32842	30104	0	1042	0	1695
Moderna	Ganze	Bamba sub county hospital	100	37	-14	0	0	77

	Ganze	Dida Dispensary	50	23	3	0	0	24
	Ganze	Dzikunze Dispensary	150	20	21	0	0	109
	Ganze	Ganze Health Centre	50	20	-20	0	0	50
	Ganze	Jaribuni Dispensary	150	68	-71	0	5	153
	Ganze	Kachororoni Dispensary	25	4	20	0	0	1
	Ganze	Kaembeni Dispensary	50	21	4	33	0	-8
	Ganze	Madamani Dispensary	50	15	6	0	0	29
	Ganze	Mwapula Dispensary	50	8	30	0	0	12
	Ganze	Palakumi Dispensary	50	7	-1	0	0	44
	Ganze	Rimarapera Dispensary	75	56	-5	25	0	-1
	Ganze	Shirango Dispensary	50	39	-5	0	0	16
	Ganze	Sokoke Dispensary	50	18	8	37	0	-13
	Ganze	Vitengeni Health Centre	50	21	-5	36	0	-2
	Kaloleni	Chalani Dispensary	100	36	0	0	0	64

	Kaloleni	Gotani Dispensary	200	79	0	0	0	121
	Kaloleni	Jibana sub county hospital	50	92	0	0	0	-42
	Kaloleni	Kamkomani Dispensary	100	76	0	0	0	24
	Kaloleni	Kasemeni Dispensary	30	2	0	0	0	28
	Kaloleni	Kinarani Dispensary	1050	209	0	0	0	841
	Kaloleni	Madzimbani Dispensary	50	8	0	0	0	42
	Kaloleni	Makomboani Dispensary	230	10	0	0	0	220
	Kaloleni	Mariakani sub county hospital	3300	6986	0	0	0	-3686
	Kaloleni	Mgamboni Dispensary	55	38	0	0	0	17
	Kaloleni	Shangia Dispensary	50	8	0	0	0	42
	Kaloleni	Tsangatsini Dispensary	440	49	0	0	0	391
	Kaloleni	Viragoni Dispensary	300	245	0	0	0	55
	Kaloleni	Vishakani Dispensary	460	94	0	0	0	366
	Kilifi North	Chumani Dispensary	130	59	17	34	0	20

	Kilifi North	Gede Health Centre	490	340	42	0	0	108
	Kilifi North	Jimba Dispensary	120	74	0	0	0	46
	Kilifi North	Kadzinuni Dispensary	250	205	0	0	0	45
	Kilifi North	Kilifi County Hospital	2712	3589	135	-208	0	-804
	Kilifi North	Kiwandani Dispensary	600	499	0	59	0	42
	Kilifi North	Konjora Dispensary	300	347	0	32	0	-79
	Kilifi North	Matsangoni Model Health Centre	200	214	-29	0	0	15
	Kilifi North	Mnarani Dispensary	843	762	0	0	0	131
	Kilifi North	Mtondia Dispensary	230	106	0	87	0	37
	Kilifi North	Ngerenya Dispensary	170	49	32	59	0	30
	Kilifi North	Roka Maweni Dispensary	135	85	0	0	0	50
	Kilifi North	Takaungu Dispensary	400	241	0	0	0	159
	Kilifi North	Watamu Dispensary	455	292	141	0	0	22

	Kilifi North	Zowerani Dispensary	80	62	0	0	0	18
	Kilifi South	Bomani Dispensary	170	97	0	0	0	73
	Kilifi South	Chasimba Health Centre	455	399	0	0	0	56
	Kilifi South	Junju Dispensary	100	114	0	0	0	-14
	Kilifi South	Kilifi South Sub County	100	104	0	0	0	-4
	Kilifi South	Kizingo Health Centre	510	496	0	0	0	14
	Kilifi South	Msumarini Dispensary	160	170	0	0	0	-10
	Kilifi South	Mtepeni Dispensary	335	252	0	0	0	83
	Kilifi South	Mtwapa Dispensary- Shimo La Tewa	150	121	0	0	0	29
	Kilifi South	Mtwapa Health Centre	925	907	0	0	0	18
	Kilifi South	Mwembe Kati Dispensary	105	134	0	0	0	-29
	Kilifi South	Pingilikani Dispensary	145	89	0	0	0	56

	Kilifi South	Tunzanani Dispensary	20	14	0	0	0	6
	Kilifi South	Vipingo Rural Demonstration Health Centre	795	545	0	0	0	250
	Kilifi South	Ziani Dispensary	270	256	0	0	0	14
	Magarini	Adc Danisa Dispensary	100	0	67	0	0	33
	Magarini	Adu Dispensary	150	337	20	0	0	-207
	Magarini	Bombi Dispensary	200	165	0	0	0	35
	Magarini	Chakama Dispensary	50	60	1	0	0	-11
	Magarini	Chamari Dispensary	50	3	45	0	0	2
	Magarini	Garashi Dispensary	200	142	10	0	10	48
	Magarini	Gongoni Health Centre	565	598	45	0	0	-78
	Magarini	Karimboni Dispensary	100	118	0	0	0	-18
	Magarini	Magarini Sub County	720	116	-31	0	0	635
	Magarini	Mambrui Dispensary	50	39	4	13	0	-6

	Magarini	Marafa Health Centre	100	52	92	0	0	-44
	Magarini	Marereni Dispensary	250	379	-78	0	0	-51
	Magarini	Marikebuni Dispensary	250	271	20	9	0	-50
	Magarini	Mjanaheri Dispensary	185	172	0	4	0	9
	Magarini	Muyu Wa Kae	20	8	0	0	0	12
	Magarini	Mwangatini Dispensary	10	0	0	0	0	10
	Magarini	Ngomeni Health Centre (Magarini)	50	100	0	0	0	-50
	Magarini	Sabaki Dispensary	85	192	0	0	0	-107
	Magarini	Sosoni Dispensary	150	147	0	2	0	1
	Malindi	Cowdray Dispensary	35	39	0	0	0	-4
	Malindi	Madunguni Dispensary	30	16	0	2	0	12
	Malindi	Malindi sub county hospital	7630	8832	-366	0	0	-836
	Malindi	Marikano Dispensary	28	8	0	0	0	20

	Malindi	Mkondoni Dispensary	235	252	133	3	0	-153
	Malindi	Star hospital	200	134	92	0	0	-26
	Malindi	Tawfiq hospital	150	75	59	34	0	-18
	Rabai	Boyani Dispensary	100	52	0	0	0	48
	Rabai	Bwagamoyo Dispensary	100	48	0	0	0	52
	Rabai	Chibarani Dispensary	300	232	0	0	0	68
	Rabai	Chilodi Crossfit Health Centre	200	100	0	0	0	100
	Rabai	Kambe Dispensary	350	180	0	0	0	170
	Rabai	Kanyumbuni Dispensary	200	52	0	0	0	148
	Rabai	Kokotoni Dispensary	350	258	0	0	0	92
	Rabai	Kombeni Dispensary	250	106	0	0	0	144
	Rabai	Lenga Dispensary	250	156	0	0	0	94
	Rabai	Makanzani Dispensary	300	123	0	0	0	177
	Rabai	Mitsajeni Dispensary	100	16	0	0	0	84

	Rabai	Rabai Rural Health Demonstration Centre	675	483	0	0	0	192
	Rabai	Rabai Sub County	1125	486	0	0	0	639
	Rabai	Ribe Dispensary	300	440	0	0	0	-140
	Rabai	Uwanja Wa Ndege Dispensary	550	159	0	0	0	391
		Sub total	35463	34057	422	261	15	773
		Grand Total	296903	273306	4548	3656	2240	13,153

Appendix 7. Disposal at County and Sub County Level-Kilifi County

Row Labels	D1	D2	D3	D4	D5	D6	D7
Ganze	No	No	Yes	Yes	No	No	Yes
Kaloleni	No	No	No	Yes	No	No	Yes
Kilifi North	Yes	No	Yes	Yes	Yes	Yes	Yes
Kilifi South	No	No	No	Yes	No	Yes	Yes
MAGARINI	Yes	No	Yes	Yes	No	Yes	No
MALINDI	Yes	No	Yes	Yes	No	Yes	No
Rabai	No	No	No	No	No	Yes	No
Compliant	3	0	4	6	1	5	4
Non Compliant	4	7	3	1	6	2	3
KEY/DETAILS							
D1	Are the disposals done at a NEMA approved pharmaceutical disposal site in compliance with the Guidelines for safe management of pharmaceutical waste						
D2	Did COVID-19 waste transported from one county to another have clearance from NEMA?						
D3	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?						
D4	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?						

D5	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)
D6	Was waste management plan developed at either the National and/or County level? Were disposed vaccine vials recorded and accounted for in the vaccine inventory report?
D7	

Appendix 8. Disposal at the Facility Level- Kilifi County

Sub County	Facility	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
GANZE	BAMBA SUB COUNTY HOSPITAL	NO	NO	Yes	Yes	Yes	Yes	Yes	NO	Yes	Yes	NO	NO
	DIDA	NO	NO	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	NO	NO
	DZIKUNZE	NO	NO	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	NO	NO
	GANZE HEALTH CENTRE	NO	NO	Yes	Yes	Yes	Yes	NO	NO	Yes	NO	NO	NO
	JARIBUNI	NO	NO	Yes	NO	Yes	NO	NO	NO	Yes	Yes	Yes	NO
	KACHORORONI	NO	NO	Yes	Yes	Yes	Yes	NO	NO	Yes	Yes	NO	NO
	KAEMBENI	NO	NO	Yes	NO	Yes	NO	NO	NO	Yes	Yes	Yes	NO
	MADAMANI	NO	NO	Yes	NO	Yes	NO	NO	NO	Yes	Yes	NO	NO
	MBUDZI	NO	NO	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO
	MWAPULA	NO	NO	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	NO	NO
	PALAKUMI	NO	NO	Yes	NO	Yes	NO	NO	NO	Yes	Yes	NO	NO
	RIMARAPERERA	NO	NO	Yes	NO	Yes	NO	NO	NO	Yes	Yes	NO	NO
	SHIRANGO	NO	NO	Yes	NO	Yes	NO	NO	NO	NO	Yes	Yes	NO
	Kaloleni	SOKOKE	Yes	NO	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	NO
VITENGENI		NO	NO	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	NO	NO
Chalani		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gotani		Yes	NO	Yes	Yes	Yes	Yes	Yes	NO	Yes	Yes	Yes	Yes
Kamkomani		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kasemeni		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NO	Yes	Yes	Yes
Kinarani		Yes	Yes	Yes	Yes	Yes	NO	NO	Yes	Yes	Yes	NO	NO
Mabati		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Makomboani		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NO	Yes
Manzimbani		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NO	Yes
Mariakani	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NO	Yes	

Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	Yes	MALINDI SUBCOUNTY HOSPITAL	
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	NO	MADUNGUNI	MALINDI
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	Yes	MAMBRUJI	
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	Yes	SOSONI	
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	NO	SABAKI	
NO	NO	Yes	Yes	NO	NO	NO	Yes	NO	Yes	NO	NO	NGOMENI	
NO	NO	NO	Yes	NO	NO	NO	Yes	NO	Yes	NO	NO	Mwangaṭini	
NO	Yes	Yes	Yes	NO	NO	NO	Yes	NO	Yes	NO	Yes	MUYU WA KAE	
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	Yes	MJANAHERI	
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	Yes	MARIKEBUNI	
NO	Yes	Yes	NO	NO	NO	NO	Yes	NO	Yes	NO	Yes	MARENI	
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	Yes	MARAFI	
NO	NO	Yes	Yes	NO	NO	NO	Yes	NO	Yes	NO	NO	MAGARINI	
NO	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	NO	KAVUNYALALU	
NO	NO	Yes	Yes	NO	NO	NO	Yes	NO	Yes	NO	NO	KARIMBONI	
NO	Yes	Yes	Yes	NO	NO	NO	Yes	NO	Yes	Yes	Yes	GONGONI	
NO	Yes	Yes	Yes	NO	Yes	NO	Yes	NO	Yes	NO	Yes	GARASHI	
NO	NO	Yes	Yes	NO	NO	NO	NO	NO	Yes	NO	NO	CHAMARI	
NO	NO	Yes	Yes	NO	NO	NO	Yes	NO	Yes	NO	NO	CHAKAMA	
NO	NO	Yes	Yes	NO	NO	NO	Yes	NO	Yes	NO	NO	BOMBI	
Yes	Yes	Yes	Yes	NO	NO	NO	Yes	Yes	Yes	NO	Yes	BAOLALA	
NO	Yes	Yes	Yes	NO	NO	NO	Yes	NO	Yes	NO	NO	ADU	
NO	NO	Yes	Yes	NO	NO	NO	NO	NO	Yes	NO	NO	ADC DANISA	MAGARINI
Yes	Yes	Yes	Yes	NO	Yes	Yes	Yes	NO	Yes	NO	Yes	Center	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Vipingo Rural Demonstration Health	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Tanzanani Dispensary	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Pingilikani Dispensary	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mwembekati Dispensary	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NO	Yes	Mtwaya Health Center	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NO	Yes	Mtwaya Dispensary	

Appendix 9 Human Resource at County and Subcounty Level-Kilifi County

Row Labels	T1	T2	T3	T4	T5	T6	T7	
GANZE	Yes	Yes	No	Yes	Yes	No	No	
Kaloleni	Yes	Yes	No	No	Yes	No	Yes	
Kilifi North	Yes	Yes	Yes	Yes	Yes	No	Yes	
Kilifi South	Yes	No	No	No	Yes	No	Yes	
magarini	Yes	Yes	No	Yes	Yes	No	Yes	
MALINDI	Yes	Yes	No	Yes	Yes	No	Yes	
Rabai	Yes	No	No	No	Yes	No	Yes	
Compliant	7	5	1	4	7	0	6	
Non-Compliant	0	2	6	3	0	7	1	

KEY/DETAILS

T1	Was there a a training plan and were the trainings done as per training plan? Populate details in the Remarks Column
T2	Did you Obtain details of staff at national/county/subcounty/facility for the following Categories indicating their designation, attendance dates, Financier, etc?:
T3	Does comparison of Expenditure with actual expenditure for training on covid No9 vaccination give rise to a variance? If yes indicate the variance amount in the remarks Column
T4	Was the county represented in National training for ToTs? If yes indate in the remarks column number of people involved (Fill details in No. 8 below)
T5	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 (Fill details in table 8 below)

T6	Was there a specific training budget for covid-N09 immunization?
T7	Were the sub county health management team trained on covid N09 immunization?

Appendix 10- Human Resource at Facility Level- Kilifi County

Sub County	Facility	HR1	HR2	HR3	HR4	HR5	HR6
GANZE	BAMBA SUB COUNTY HOSPITAL	No	Yes	Yes	Yes	Yes	No
	DIDA	No	No	Yes	Yes	Yes	No
	DZIKUNZE	No	No	Yes	Yes	Yes	No
	GANZE HEALTH CENTRE	No	Yes	Yes	Yes	Yes	No
	JARIBUNI	No	No	Yes	Yes	Yes	No
	KACHORORONI	No	Yes	Yes	Yes	Yes	No
	KAEMBENI	No	No	Yes	Yes	Yes	No
	MADAMANI	Yes	No	Yes	Yes	Yes	No
	MBUDZI	No	Yes	Yes	Yes	Yes	No
	MWAPULA	No	No	Yes	Yes	Yes	No
	PALAKUMI	No	Yes	Yes	Yes	Yes	No
	RIMARAPERA	No	No	Yes	Yes	Yes	No
	SHIRANGO	No	No	Yes	Yes	Yes	No
	SOKOKE	No	Yes	Yes	Yes	Yes	No
SOSONI	No	No	No	No	No	Yes	
Kaloleni	VITENGENI	No	Yes	Yes	Yes	Yes	Yes
	Gotani	Yes	Yes	Yes	Yes	Yes	Yes
	Kamkomani	Yes	No	Yes	Yes	Yes	No
	Kasemeni	No	No	Yes	Yes	Yes	No
	Kinarani	Yes	No	Yes	Yes	Yes	No
	Mabati	Yes	Yes	Yes	Yes	Yes	No
	Makomboani	No	Yes	No	Yes	Yes	No
	Manzimbani	Yes	Yes	Yes	Yes	Yes	No
	Mariakani Sub County Hospital	No	Yes	No	Yes	Yes	No
	Mgamboni	Yes	No	Yes	Yes	Yes	No

Ndatani	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shangia	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Tsangatsini	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Uwanja wa Ndege	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Vishakani	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kilifi North		No	No	Yes	Yes	Yes	Yes	Yes	No
CHUMANI		No	No	Yes	Yes	Yes	Yes	Yes	No
Cowdray Dispensary		No	No	Yes	Yes	Yes	Yes	Yes	No
GEDE		No	No	Yes	Yes	Yes	Yes	Yes	No
Jimba		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Kadzinduni		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
KCH		No	No	Yes	Yes	Yes	Yes	Yes	No
Kiwandani		No	No	No	No	No	No	No	Yes
Konjora		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MATSANGONI		No	Yes	Yes	Yes	Yes	Yes	Yes	No
Mavueni Dispensary		No	No	Yes	Yes	Yes	Yes	Yes	No
Mijimboni		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Mnarani		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mtondia		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
NGERENYA		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Roka maweni		No	No	No	No	No	No	No	No
Takungu		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
WATAMU		No	Yes	Yes	Yes	Yes	Yes	Yes	No
Zovereni		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Kilifi South		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Bomani Dispensary		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Chasimba Dispensary		No	No	Yes	Yes	Yes	Yes	Yes	Yes
Junju Dispensary		No	No	Yes	Yes	Yes	Yes	Yes	No
Msumarini Dispensary		No	Yes	Yes	Yes	Yes	Yes	Yes	No
Mtepeni		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Mtwapa Dispensary		No	Yes	Yes	Yes	Yes	Yes	Yes	No
Mtwapa Health Center		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Mwembekati Dispensary		No	No	Yes	Yes	Yes	Yes	Yes	Yes
Pingilikani Dispensary		No	No	Yes	Yes	Yes	Yes	Yes	Yes

	Tunzanani Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Vipingo Rural Demonstration Health Center	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
MAGARINI	ADC DANISA	No	No	Yes	Yes	Yes	Yes	Yes	No
	ADU	No	No	Yes	Yes	Yes	Yes	Yes	No
	BAOLALA	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	BOMBI	No	No	No	Yes	Yes	Yes	Yes	No
	CHAKAMA	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	CHAMARI	No	No	No	Yes	Yes	Yes	Yes	No
	GARASHI	No	Yes	Yes	Yes	Yes	Yes	Yes	No
	GONGONI	No	Yes	Yes	Yes	Yes	Yes	Yes	No
	KARIMBONI	No	No	No	Yes	Yes	Yes	Yes	No
	KAVUNYALALU	No	No	Yes	Yes	Yes	Yes	Yes	No
	MAGARINI	No	No	Yes	Yes	Yes	Yes	Yes	No
	MARAFI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MARERENI	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MARIKEBUNI	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MJANAHERI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	MUYU WA KAE	No	Yes	Yes	Yes	Yes	Yes	Yes	No
	Mwangatini	No	No	Yes	Yes	Yes	Yes	Yes	No
	NGOMENI	No	No	Yes	Yes	Yes	Yes	Yes	No
	SABAKI	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SOSONI	No	No	Yes	Yes	Yes	Yes	Yes	No
MALINDI	MADUNGUNI	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MALINDI SUBCOUNTY HOSPITAL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MARIKANO	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MKONDONI	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MMANGANI	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	STAR HOSPITAL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	TAWFIQ HOSPITAL	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Rabai	Boyani	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Chibarani	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Chilodi	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

	Kambe	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Kanyumboni	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Kokotoni	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kombeni	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Lenga	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Mitsajeni	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Ribe	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Compliant		46	67	88	94	94	12	94	25
	Non Compliant		60	39	18	12	12	12	12	81

KEY/DETAILS:

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

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

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

KEY/Details:

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

Sub County	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9
Ganze	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kaloleni	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes
Kilifi North	Yes	Yes	Yes	No	Yes	Yes	No	No	No
MAGARINI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MALINDI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rabai	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kilifi South	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes
Compliant	7	7	5	6	5	7	6	6	6
Non-Compliant	0	0	2	1	2	0	1	1	1

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 of players at Facility level

Sub County	Facility	CP1	CP2	CP3	CP4	CP5
GANZE	BAMBA SUB COUNTY HOSPITAL	Yes	Yes	Yes	Yes	Yes
	DIDA	Yes	Yes	Yes	Yes	Yes
	DZIKUNZE	Yes	Yes	Yes	Yes	Yes
	GANZE HEALTH CENTRE	Yes	Yes	Yes	Yes	Yes
	JARIBUNI	Yes	Yes	Yes	Yes	Yes
	KACHORORONI	Yes	Yes	Yes	Yes	Yes
	KAEMBENI	Yes	Yes	Yes	Yes	Yes
	MADAMANI	Yes	Yes	Yes	Yes	Yes
	MBUDZI	Yes	Yes	Yes	Yes	Yes
	MWAPULA	Yes	Yes	Yes	Yes	Yes
	PALAKUMI	Yes	Yes	Yes	Yes	Yes
	RIMARAPERA	Yes	Yes	Yes	Yes	Yes
	SHIRANGO	Yes	Yes	Yes	Yes	No
	SOKOKE	Yes	Yes	Yes	Yes	Yes
	VITENGENI	Yes	Yes	Yes	Yes	Yes
	Kaloleni	Chalani	Yes	Yes	Yes	Yes
Gotani		Yes	Yes	Yes	Yes	Yes
Kamkomani		Yes	Yes	Yes	Yes	Yes
Kasemeni		Yes	Yes	Yes	Yes	Yes
Kinarani		Yes	Yes	Yes	Yes	Yes
Mabati		Yes	Yes	Yes	Yes	Yes
Makomboani		Yes	Yes	Yes	Yes	Yes
Manzimbani		Yes	Yes	Yes	Yes	Yes
Mariakani Sub County Hospital		Yes	Yes	Yes	Yes	Yes
Mgamboni		Yes	Yes	Yes	Yes	Yes
Ndatani	Yes	Yes	Yes	Yes	Yes	
Shangia	Yes	Yes	Yes	Yes	Yes	

Tsangatsini	Yes	Yes	Yes	Yes	Yes
Viragoni	Yes	Yes	Yes	Yes	Yes
Vishakani	Yes	Yes	Yes	Yes	Yes
Uwanja wa Ndege	Yes	Yes	Yes	Yes	Yes
Kilifi North					
CHUMANI	Yes	Yes	Yes	Yes	Yes
Cowdray Dispensary	Yes	Yes	Yes	Yes	Yes
GEDDE	Yes	Yes	Yes	Yes	Yes
Jimba	Yes	Yes	Yes	Yes	Yes
Kadzinduni	Yes	Yes	Yes	Yes	Yes
KCH	Yes	Yes	Yes	Yes	Yes
Kiwandani	Yes	Yes	Yes	Yes	Yes
Konjora	Yes	Yes	Yes	Yes	Yes
MAREKENI	No	Yes	Yes	Yes	Yes
MATSANGONI	Yes	Yes	Yes	Yes	Yes
Mavueni Dispensary	Yes	Yes	Yes	Yes	Yes
Mijimboni	Yes	Yes	Yes	Yes	Yes
Mnarani	Yes	Yes	Yes	Yes	Yes
Mtondia	Yes	Yes	Yes	Yes	Yes
NGERENYA	Yes	Yes	Yes	Yes	Yes
Roka maweni	Yes	Yes	Yes	Yes	Yes
Takungu	Yes	Yes	Yes	Yes	Yes
WATAMU	Yes	Yes	Yes	Yes	Yes
Zowereni	Yes	Yes	Yes	Yes	Yes
Kilifi South					
Bomani Dispensary	Yes	No	No	Yes	No
Chasimba Dispensary	Yes	Yes	Yes	Yes	Yes
Junju Dispensary	Yes	Yes	Yes	Yes	Yes
Msumarini Dispensary	Yes	Yes	Yes	Yes	Yes
Mtepeni	Yes	Yes	Yes	Yes	Yes
Mtwapa Dispensary	Yes	Yes	Yes	Yes	Yes
Mtwapa Health Center	Yes	Yes	Yes	Yes	Yes

	Mwembekati Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Pingilikani Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Tunzanani Dispensary	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Vipingo Rural Demonstration Health Center	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAGARINI	ADC DANISA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	ADU	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	BAOLALA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	BOMBI	Yes	Yes	Yes	Yes	Yes	Yes	No
	CHAKAMA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CHAMARI	Yes	Yes	Yes	Yes	Yes	Yes	No
	GARASHI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	GONGONI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	KARIMBONI	Yes	Yes	Yes	Yes	Yes	Yes	No
	KAVUNYALALU	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MAGARINI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MARAFI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MARERENI	Yes	No	No	No	No	No	No
	MARIKEBUNI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MJANAHERI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MUYU WA KAE	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mwangatini	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	NGOMENI	Yes	Yes	Yes	No	No	Yes	No
	SABAKI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SOSONI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MAMBRUI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MALINDI	MADUNGUNI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MALINDI SUBCOUNTY HOSPITAL	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MARIKANO	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MKONDONI	Yes	Yes	Yes	Yes	Yes	Yes	Yes

	MMANGANI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	STAR HOSPITAL	Yes	Yes	Yes	Yes	No	No	No
	TAWFIQ HOSPITAL	Yes	Yes	Yes	Yes	Yes	No	No
Rabai	Boyani	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Bwangamoyo	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Chilbarani	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Chilodi	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kambe	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kanyumboni	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kokotoni	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Kombeni	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Lenga	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mitsajeni	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ribe	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Makanzani	Yes	Yes	Yes	Yes	Yes	Yes	Yes

COMPLIANT		105	104	103	103	103	95
NON COMPLIANT		1	2	3	3	3	9

KEY/DETAILS:

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

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

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

KEY/Details:

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

Appendix 15- Monitoring at Sub county Level-Kilifi County

Sub County	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
Ganze	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Kaloleni	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Kilifi North	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Kilifi South	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
magarini	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
malindi	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rabai	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Compliant	0	4	7	7	7	7	7	6	7	7	2	7	7	7	7
Non Compliant	7	3	0	0	0	0	0	1	0	0	5	0	0	0	0

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?

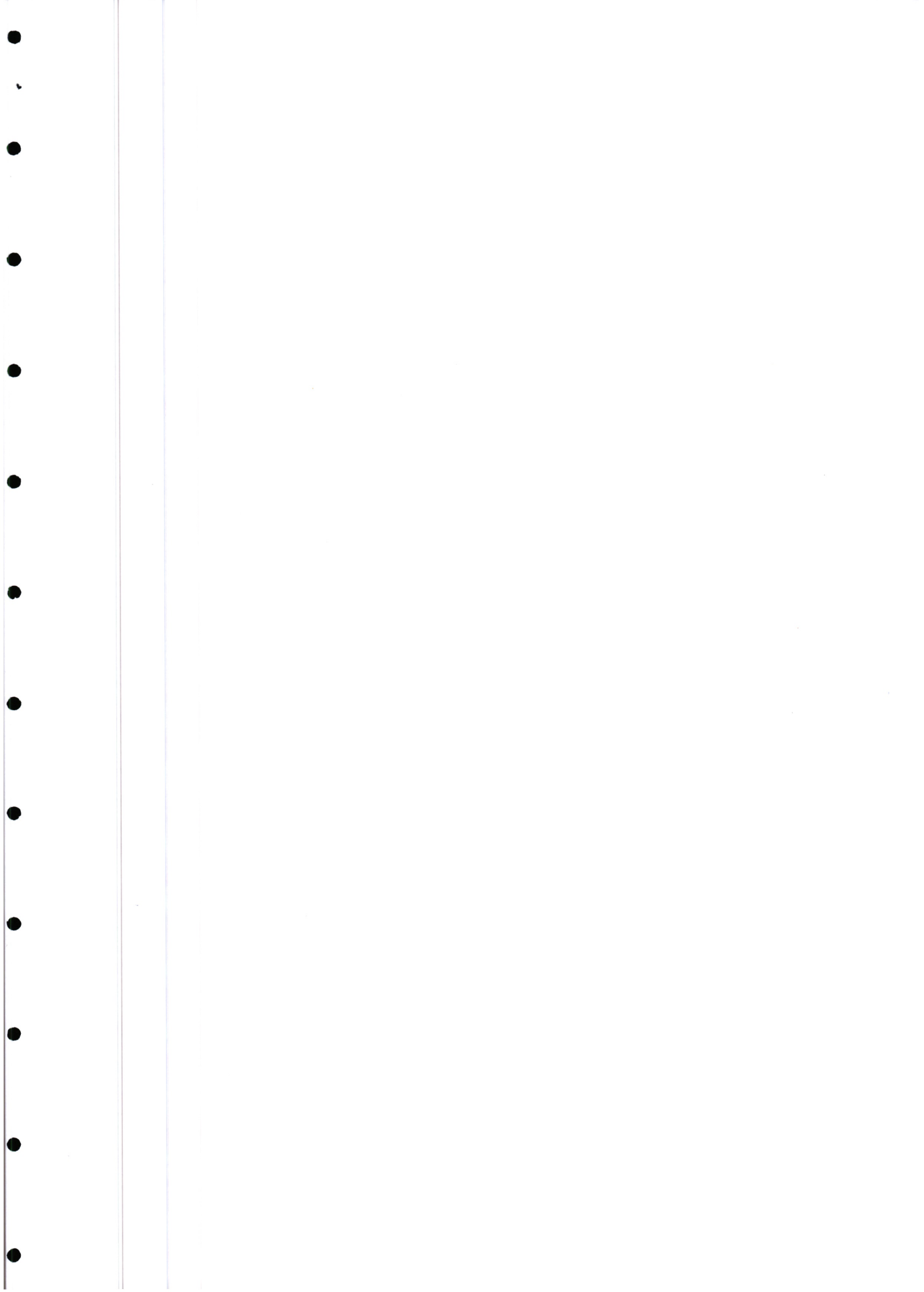
Appendix 16- Monitoring at Facility Level-Kilifi County

Sub County	Facility	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11
GANZE	GANZE HEALTH CENTRE	NO	NO	NO	Yes	Yes	NO	NO	Yes	Yes	Yes	Yes
	JARIBUNI	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
	KACHORORONI	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	NO	Yes
	MARAFI	Yes	NO	NO	Yes	NO	NO	NO	NO	NO	NO	NO
	MBUDZI	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
	PALAKUMI	Yes	NO	NO	Yes	NO	NO	NO	Yes	Yes	NO	Yes
	SOKOKE	Yes	NO	NO	Yes	Yes	NO	NO	Yes	Yes	Yes	Yes
	SOSONI	Yes	NO	NO	NO	Yes	NO	NO	NO	NO	NO	NO
	VITENGENI	NO	NO	NO	Yes	Yes	NO	NO	Yes	Yes	Yes	Yes
	BAMBA SUBCOUNTY HOSPITAL	Yes	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
GANZE	DIDA	NO	Yes	NO	Yes	NO	NO	Yes	Yes	Yes	Yes	Yes
	DZIKUNZE	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	NO	Yes
	KAEMBENI	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
	MADAMANI	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
	MWAPULA	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
	RIMARAPERA	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
	SHIRANGO	NO	NO	NO	Yes	NO	NO	NO	Yes	Yes	Yes	Yes
	Chalani	NO	NO	NO	Yes	Yes	NO	Yes	Yes	Yes	Yes	Yes
	Gotani	NO	NO	NO	Yes	Yes	NO	Yes	Yes	Yes	NO	NO
	Kamkomani	NO	NO	NO	Yes	Yes	NO	NO	Yes	Yes	Yes	Yes
Kaloleni	kasemeni	NO	NO	NO	Yes	Yes	NO	Yes	Yes	Yes	Yes	Yes
	Kinarani	NO	NO	NO	Yes	Yes	NO	Yes	Yes	Yes	Yes	Yes
	Mabati	NO	NO	NO	Yes	Yes	NO	Yes	Yes	Yes	Yes	Yes
	Makomboani	Yes	Yes	Yes	Yes	Yes	NO	Yes	Yes	Yes	NO	Yes
	Manzimbani	NO	NO	NO	Yes	Yes	NO	Yes	Yes	Yes	NO	Yes

COMPLIANT	22	31	14	80	61	9	72	97	99	64	92
NON COMPLIANT	82	73	90	24	43	95	32	7	5	40	12

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/subcounty/facility put in place to ensure patients report adverse effect
M5		Has the County/subcounty/facility received any Adverse effect booklet etc that are required to report adverse effects?
M6		Has the subcounty/facility experienced any instance of adverse effect?
M7		Does the County/Sub-county/Facility monitor temperature during trasportation 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/subcounty/Facility been making use of the temperature monitoring tools?



CONTACTS

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