MINISTRY OF HEALTH

REPUBLIC OF KENYA

THE KENYA MALARIA HEALTH PRODUCTS AND TECHNOLOGIES' SPECIFICATIONS CATALOGUE



1ST EDITION, APRIL 2026

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The Kenya Malaria Health Products and Technologies' Specifications Catalogue, 1st Edition, 2026.

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Circulation

This document is intended for internal use within the malaria program and for dissemination to relevant stakeholders at both national and county levels, particularly procuring entities.

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ABBREVIATIONS AND ACRONYMS

Abbreviation	Full Meaning
AL	Artemether Lumefantrine
AR	Analar
BP	British Pharmacopeia
CHV	Community Health Volunteer
DHAP	Dihydroartemisinin Piperaquine
DNA	Deoxyribonucleic Acid
NMCP	National Malaria Control Program
DPX	Dibutyl Phthalate Polystyrene Xylene
EDTA	Ethylene Diamine Tetraacetic Acid
GFATM	Global Fund to Fight AIDS, TB, and Malaria
GMP	Good Manufacturing Practice
GOK	Government of Kenya
HRP2	Histidine Rich Protein-2
IRS	Indoor Residual Spraying
ISO	International Organization for Standardization
KEBS	Kenya Bureau of Standards
KEMRI	Kenya Medical Research Institute
KMLTTB	Kenya Medical Laboratory Technologists & Technicians Board
LLIN	Long Lasting Insecticidal Net
MOH	Ministry of Health
mRDT	Malaria Rapid Diagnostic Test
MSDS	Material Safety Data Sheet
NQCL	National Quality Control Laboratory
OTC	Over the Counter
PBO	Piperonyl Butoxide
PCPB	Pest Control Products Board
PCR	Polymerase Chain Reaction
PDR	Panel Detection Rate
PLDH	Plasmodium Lactate Dehydrogenase
POM	Prescription Only Medicine
PPB	Pharmacy and Poisons Board
SP	Sulfadoxine Pyrimethamine
SRA	Stringent Regulatory Authority
USAID	United States Agency for International Development
USFDA	United States Food and Drug Administration
USP	United States Pharmacopeia
WHO	World Health Organization
WHOPQT-VC	WHO Prequalification Team

FOREWORD

The Ministry of Health remains steadfast in its commitment to reducing the burden of malaria and advancing Kenya's progress toward malaria elimination. Central to this effort is ensuring the consistent availability of safe, effective, and quality-assured health products and technologies across all levels of the health system.

This Kenya Malaria Health Products and Technologies' Specifications Catalogue (1st Edition, 2026) represents a critical milestone in strengthening the country's procurement and supply chain systems. It provides standardized, evidence-based technical specifications for malaria commodities used in prevention, diagnosis, treatment, surveillance, and vector control.

In the context of Kenya's devolved health system, where procurement functions are undertaken at both national and county levels, this catalogue serves as a unifying framework to harmonize commodity specifications. By establishing clear requirements for quality, performance, packaging, and regulatory compliance, it minimizes variability in procurement practices and safeguards the integrity of malaria interventions nationwide.

This document is aligned with national health policies, normative guidance, and relevant technical and regulatory frameworks, and contributes directly to strengthening health systems, improving supply chain efficiency, and enhancing quality assurance mechanisms. It also reflects Kenya's commitment to global standards, including WHO prequalification requirements and internationally recognized pharmacopoeial standards.

The development of this catalogue has been highly consultative, drawing on the expertise of technical departments, regulatory bodies, research institutions, county governments, and development partners. This collaborative approach underscores the multisectoral effort required to achieve sustainable malaria control and elimination.

As malaria control continues to evolve with emerging technologies and innovations, this catalogue will be periodically reviewed and updated to remain responsive, relevant, and evidence-driven.

I call upon all stakeholders—including national and county governments, procuring entities, implementing partners, and healthcare providers—to adopt and utilize this catalogue as the authoritative reference for malaria commodity procurement and management.



Dr. Patrick Amoth, CBS
Director General for Health
Ministry of Health
Republic of Kenya

PREFACE

The development of standardized technical specifications for health products and technologies is fundamental to ensuring quality, safety, and value for money in public health procurement systems. This Kenya Malaria Health Products and Technologies' Specifications Catalogue (1st Edition, 2026) has been developed to provide a comprehensive and harmonized reference for the procurement of malaria commodities in Kenya. It responds to the increasing need for clarity, consistency, and technical rigor in procurement processes, particularly within a decentralized health system.

The catalogue defines detailed technical specifications for a broad range of malaria-related commodities, including medicines, diagnostics, vector control tools, and laboratory and entomological supplies. These specifications cover critical parameters such as composition, performance standards, packaging, labelling, storage conditions, and regulatory requirements.

By standardizing these elements, the catalogue addresses a key challenge in procurement—ambiguity in product requirements—which often leads to variability in product quality and inefficiencies in supply chain management. It also strengthens compliance with the **Public Procurement and Asset Disposal Act (PPADA) 2015 (Revised 2022)** and aligns procurement practices with national and international quality assurance standards.

The development process was inclusive and evidence-driven, involving the National Malaria Control Programme, Ministry of Health technical divisions, regulatory authorities, procurement agencies, county governments, and development partners. This ensured that the catalogue is not only technically robust but also operationally practical and aligned with user needs. Within Kenya's devolved governance framework, this catalogue serves as a critical harmonization tool to guide all procuring entities toward consistent standards, thereby ensuring equitable access to quality-assured malaria commodities across all counties.

This document is intended for use by policymakers, programme managers, procurement officers, regulatory bodies, implementing partners, and all stakeholders involved in malaria commodity management. Ultimately, this catalogue contributes to strengthening Kenya's health system and advancing the national agenda of malaria control and elimination.



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ACKNOWLEDGEMENT

The National Malaria Control Programme (NMCP) acknowledges with appreciation the collective efforts of all individuals and institutions that contributed to the development of this Kenya Malaria Health Products and Technologies' Specifications Catalogue (1st Edition, 2026).

The development of this catalogue was coordinated by the NMCP under the Ministry of Health, through a collaborative and multidisciplinary process involving key technical departments, regulatory bodies, implementing agencies, and partners.

The Programme extends its sincere appreciation to the Directorate of Health Products and Technologies, Kenya Medical Supplies Authority (KEMSA), Mission for Essential Drugs and Supplies (MEDS), Pharmacy and Poisons Board (PPB), Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB), Pest Control Products Board (PCPB), National Quality Control Laboratory (NQCL), and Kenya Medical Research Institute (KEMRI), among others, for their invaluable technical contributions.

The NMCP further recognizes the important role played by county departments of health, whose participation ensured that this catalogue reflects the operational realities of Kenya's devolved health system and supports harmonized implementation across counties.

The Programme is grateful to development partners for their technical and financial support throughout the development process. In particular, we acknowledge the support of the U.S. Department of State and partners supporting the Promoting the Quality of Medicines (PQM) programme, whose contributions were instrumental in the completion of this work.

Special recognition is accorded to the technical experts, reviewers, and members of the technical working groups who dedicated their time and expertise to the drafting, review, and validation of this document. The NMCP also commends its staff for their leadership, coordination, and commitment in steering this process to completion.

The Programme encourages all stakeholders to utilize this catalogue as a key reference in strengthening procurement practices and ensuring access to quality-assured malaria commodities across Kenya.



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Ministry of Health
Republic of Kenya

INTRODUCTION

Supply chain management is central to healthcare provision and as identified by WHO is one of the building blocks for health systems along with service delivery, health workforce, health information systems, finance, and leadership & governance. Without health products it is impossible to render health services and as such investments must be made to assure commodity security at all times in health facilities.

Supply chain management involves the set of systems and activities geared towards ensuring that products are available to patients when needed. Not only available but according to the six rights of commodity management, these products should be the right products of the right quantity and quality delivered to the right customer at the right time at the right cost). Specification development concerns itself with two of these rights, the right product, and the right quality of product.

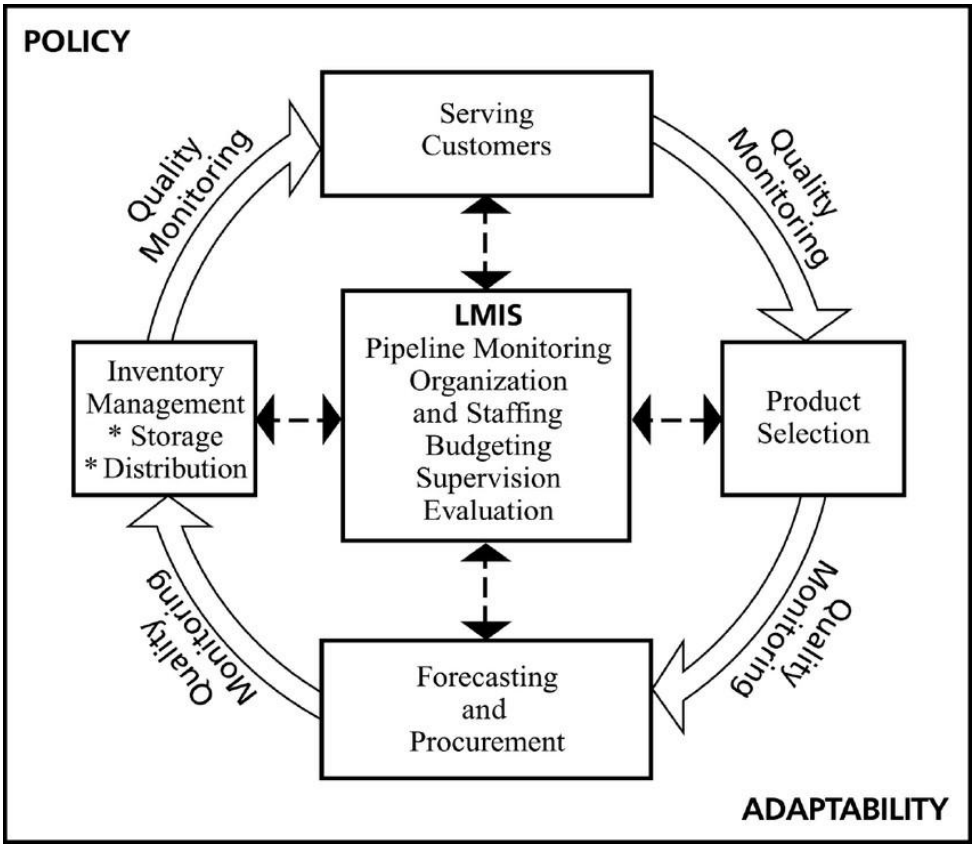


Figure 1: The logistics/ supply chain management cycle

Citation: Karim, Ali Mehryar, Briton Bieze, and Jaya Chimnani. 2008. Measuring Family Planning Logistics System Performance in Developing Countries: Working Paper. Arlington, Va.: USAID | DELIVER PROJECT, Task Order

Specifications are simply product requirements developed by users for purposes of communicating their requirements to procuring entities and suppliers. They serve three purposes: defining the customer's needs, communicating what the procurement entity should procure and what the supplier should supply, and establishing the standard against which the products shall be technically evaluated during procurement. They are the basis for product selection, whereby user requirements can be compared to manufacturer's product catalogues and documents. Specifications development is part of the commodity management cycle in a supply chain system. It is a consultative process that should employ technical experts to develop product requirements that best meet its intended use.

Characteristics of well written specifications

The following are characteristics of a well written specification:

- Clear and unambiguous meaning, it should be simple and can only be interpreted to mean one thing (concise, terse, simple, precise)
- Correct – the facts contained in the specification should be true
- Understandable – should be grammatically correct and written consistently
- Testable – this means the specification should have a means to verify for example through physical examination and/or chemical analysis
- Feasible – it should be realistically possible to meet the specification. This also points to the fact that specifications should not be exclusionary to favor one or only few suppliers in the market
- Independent – the statements on the specification should stand on their own without changing meaning
- Atomic – each statement on the specification should point to a specific traceable item/ requirement. Specifications should avoid lumping the different requirements onto one statement that could lead to generalization
- Necessary – all the statements in the specification should be of use

Specification development and guidelines for the public sector are elaborated in the Public Procurement and Asset Disposal Act (PPADA) of 2015 (revised 2022) which sets the stage for procuring entities to develop specifications through engagement of technical experts and provides for the evaluation of bids based on the set specifications. The public procurement manual for the health sector of 2009 also sets out to elaborate the process of specification development detailing the minimum requirements for medicines, non-pharmaceuticals, medical equipment and services. This manual also sets out the functions of the different oversight and regulatory institutions of government to ensure adherence to standard specifications. The National Quality Control Lab (NQCL), Pharmacy and Poisons Board (PPB), Kenya Bureau of Standards (KEBS), Pest Control and Products Board (PCPB) and Kenya Medical Research Institute (KEMRI) are specifically mentioned.

Purpose

The document sets forth the technical specifications for medicines and health products designated for the national malaria control program. It serves as a reference for all procuring entities at both the national and county government levels.

By establishing standardized requirements for malaria HPT, the document ensures that health services are delivered using high-quality HPT, while promoting competitiveness and value for money in procurement processes.

Periodic reviews will be undertaken to incorporate newly approved products and to update standards for existing HPT in the catalogue, thereby maintaining relevance and alignment with evolving best practices.

Justification

Each procurement of health products and technologies (HPTs) requires the provision of clear specifications, as mandated by the Public Procurement and Asset Disposal Act (PPADA) of 2015 (revised 2022) and its regulations. Specifications are essential to fulfilling the requirements of the Act by accurately communicating user needs, guiding procurement authorities to acquire the correct products of appropriate quality, and providing a sound basis for technical evaluation. They eliminate ambiguity between user requirements and the products to be procured.

With the devolution of health services to county governments, devolved units now undertake procurement using county budget allocations. Standardized specifications are therefore critical to harmonizing procurement processes across counties, ensuring uniform delivery of malaria services nationwide. This is particularly significant in quality assurance for diagnostics, where samples are re-examined by reference laboratories. To enable meaningful comparison and uphold diagnostic integrity, the HPTs used must adhere to consistent standards.

Objectives

The objectives of this document are:

1. To detail the technical specifications of health products and technologies used in prevention, diagnosis and treatment of malaria.
2. To provide a basis upon which further revisions and refinements of specifications can be made

Scope

The health products and technologies covered in this document are the following:

1. Malaria medicines as detailed in the national guideline for the prevention and treatment of Malaria. These include Artemether-Lumefantrine tablet, Artesunate injection, Sulphadoxine-Pyrimethamine tablet, Dihydroartemisinine-Piperaquine tablet, Artesunate-Amodiaquine, Artesunate-pyronaridine, Quinine tablet and Quinine injection, and primaquine.

2. Malaria diagnostics including rapid test, microscope, equipment and reagents used in microscopy, and PCR primers for PCR diagnostics.
3. Malaria prevention related tools and consumables including Long Lasting Insecticidal Nets Insecticides for Indoor Residual Spraying (IRS), chemicals for larval source management, spatial repellents.
4. Entomology equipment and consumables including light traps, dissecting microscopes and PCR reagents and machines.

Note: Additional health products may become available in between reviews of this document and will be incorporated as addendum.

Definitions

Term	Definitions/ Meaning
Active ingredient (Active Pharmaceutical Ingredient – API)	The substance in a pharmaceutical product that is intended to produce the pharmacological, immunological, or metabolic effect for the diagnosis, treatment, mitigation, or prevention of disease.
Bursting strength	The resistance of a material, such as paper, textile, or packaging material, to rupture when subjected to pressure, expressed as the pressure required to cause rupture under standardized test conditions.
Capsulated solution (Encapsulated Formulation)	A formulation in which active substances are enclosed within a protective coating or capsule to control the release, stability, or delivery of the active ingredient.
Combi-Pack (Combination Pack)	A pharmaceutical presentation in which two or more different medicines are packaged together in a single pack for simultaneous or sequential use as part of a specific treatment regimen. The medicines remain as separate dosage forms and are not physically combined, but are co-packaged to facilitate correct dosing, simplify dispensing, and improve patient adherence to treatment.
Denier	A unit of measure for the linear mass density of fibers commonly measured as mass in grams per 9,000 meters of the fiber.
Dispersible Granules	A solid granular formulation intended to disintegrate quickly when added to water, producing a uniform dispersion or suspension of the active ingredient.
HPLC	High-performance liquid chromatography, formerly referred to as high-pressure liquid chromatography, is a technique in analytical chemistry used to separate, identify, and quantify each component in a mixture
International non-proprietary name (INN)	An official generic and non-proprietary name given to a pharmaceutical drug or an active ingredient. INNs are intended to make communication more precise by providing a unique standard name for each active ingredient, to avoid prescribing errors.

Legal category	The regulatory classification of a medicine based on its safety profile, therapeutic use, and risk of adverse effects, which determines the conditions under which it may be supplied, dispensed, or used.
Limits of purity	Specified maximum allowable levels of impurities in a pharmaceutical substance or product as defined in pharmacopoeial standards to ensure product safety, quality, and consistency.
Mesh size	The number of openings per linear inch in a sieve or screen used to determine particle size distribution in powders or granules.
Monograph	A detailed standard published in a pharmacopoeia describing the specifications, tests, analytical methods, and acceptance criteria for the quality of a pharmaceutical substance or product.
Neonicotinoid	Neurotoxic insecticides that target specific receptors in insects' nervous systems. They bind to nicotinic acetylcholine receptors (nAChRs), which leads to overstimulation of nerve cells and eventually death of the insect
Organophosphate	Class of insecticides that act on the nervous system of insects by inhibiting the enzyme acetylcholinesterase which is responsible for breaking down the neurotransmitter acetylcholine.
PCR	A laboratory technique used to amplify specific DNA sequences, enabling the production of millions to billions of copies of a targeted DNA segment for molecular biology, diagnostics or research purposes.
Pharmacopoeia standard	Official quality standards established in recognized pharmacopoeias that define the specifications, analytical methods, and acceptance criteria for pharmaceutical substances and products.
Procuring entity	A public or legally authorized organization responsible for the procurement of goods, services, or works through established procurement procedures and applicable legislation.
Quality assurance (QA)	All planned and systematic activities implemented within a quality system to ensure that pharmaceutical products consistently meet established standards of quality, safety, and efficacy.
Quality control (QC)	The operational techniques and activities used to verify that pharmaceutical products comply with defined specifications through sampling, testing, and inspection.
Registration certificate	A certificate issued by the Pharmacy and Poisons Board authorizing the importation, distribution, and sale of a medicinal product in Kenya after evaluation of its quality, safety, and efficacy.
Retention certificate	An annual certificate issued by the Pharmacy and Poisons Board confirming that a registered medicinal product remains authorized for importation, distribution, and sale in Kenya.
Shipping marks	Symbols, numbers, or words marked on packages to facilitate identification, handling, transportation, and storage of goods during shipment.

WHO Listed Authorities (WLA)	A national regulatory authority that has been formally recognized by WHO as meeting internationally accepted standards of regulatory performance and maturity under the WHO Global Benchmarking Tool, and is therefore considered capable of effectively regulating the quality, safety, and efficacy of medical products.
Technical specification	A document that defines the technical characteristics, quality requirements, performance criteria, and standards that a product or service must meet.
Vertical seam	A seam formed by joining two edges of fabric or material vertically along the length of the material.
Wetable granules (WG)	A solid insecticide/pesticide formulation consisting of granules that readily disperse in water to form a suspension suitable for spraying.
Wetable powder (WP)	A finely ground insecticide/pesticide formulation containing an active ingredient and wetting agents that forms a suspension when mixed with water for application through spraying equipment.
WHO prequalification	WHO prequalification is a service provided by WHO to assess the quality, safety and efficacy of medicines and other health products.

SECTION I: HEALTH PRODUCTS USED IN PROPHYLAXIS AND TREATMENT OF MALARIA

HPT covered under this section are:

1. Artemether Lumefantrine tablets/dispersible tablets
2. Dihydroartemisinin Piperaquine tablets/dispersible tablets
3. Artesunate - Amodiaquine tablets
4. Artesunate-Pyronaridine tablets/granules
5. Artesunate injection
6. Artesunate Single Solvent Injection
7. Quinine Dihydrochloride injection
8. Quinine Sulphate tablets
9. Primaquine tablets/dispersible tablets
10. Sulphadoxine Pyrimethamine tablets
11. Sulphadoxine Pyrimethamine (tablets) + Amodiaquine (tablets/dispersible tablets)
12. Proguanil tablets
13. Atovaquone + Proguanil tablets
14. Mefloquine tablets
15. Doxycycline capsules
16. Malaria Vaccine

Artemether-Lumefantrine (AL) tablets

General specifications

Prequalification and quality standard

- The product should be WHO-prequalified or approved by a WHO Listed Authority (WLA) in accordance with the Global Fund Quality Assurance Policy for Pharmaceutical Products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO list of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an WLA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practice (GMP) standards set out by WHO and PPB in all aspects of manufacturing, packaging and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia or where pharmacopoeial monographs are unavailable, validated manufacturer specifications consistent with WHO standards may be accepted.
- The supplier or manufacturer must provide stability data demonstrating that the product complies with International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH) Climatic Zone IVb conditions, to ensure that the formulation maintains its quality, safety, and efficacy throughout the labelled shelf life under Kenya's climatic conditions.
- The supplier or manufacturer must provide a certificate of analysis for each batch/ lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Pre-Procurement testing

- Supplier shall submit a certificate of analysis from an independent quality control laboratory for the brand to be prequalified.

Post Procurement testing

- The MoH/NMCP/Procuring Agencies will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Local and registration requirements

- The medicine product must be registered and retained with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB).
- Bidders should provide registration, re-registration and/or retention certificates from PPB.

Packing marking and labelling specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.
  - Tablets should be packed in a patient pack (course of therapy).
  - Packaging materials should be suitable for ICH Climatic Zone IVb (hot and very humid conditions).

PRIMARY PACKAGING:

- The primary packaging should be clearly labelled with indelible ink indicating the following as a minimum:
- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation e.g., tablet
- Total content (number of dosage units) per container/ pack size e.g., 6s, 12s, 18s, 24s,
- Date of manufacture
- Expiry date
- Batch number
- Storage and handling instructions, including any special storage conditions such as not to store above temperature of 30°C, to protect from light, not to refrigerate or freeze
- Name and physical location, and country of origin of manufacturer (physical address, with country of origin. The "country of origin" is defined as the country where the finished product is manufactured).
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria" primary packaging must be sealed, Tamper-evident, moisture-protective, air-tight and Light-protective.
- Note: as per the PPB guidelines for submission for drug registration - date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10ml. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: name, strength and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents (number of dosage units per container)/ pack size (e.g., 30s)
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- Gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

There are three categories of AL products, i.e., 24 months, 36 months and 48 months of shelf life. The guaranteed minimum remaining shelf life must be at least 75% at time of delivery to the procuring entity.

Specifically, shelf life must be the following minimum:

- Products with 24 months for (i) Artemether/Lumefantrine (AL) 20mg/120mg, Dispersible tablet, Blister pack, 6 x 1 x 30 treatments; and (ii) Artemether/Lumefantrine (AL) 20mg/120mg, Dispersible tablet, Blister pack, 12 x 1 x 30 treatments; must have a minimum of 18 months of usable shelf life remaining at time of delivery to procuring entity.
- Products with 36 months for (iii) Artemether/Lumefantrine (AL) 20mg/120mg, tablet, Blister pack, 18 x 1 x 30 treatments; and (iv) Artemether/Lumefantrine (AL) 20mg/120mg, tablet, Blister pack, 24 x 1 x 30 treatments; must have a minimum of 27 months of usable shelf life remaining at time of delivery to procuring entity.
- Products with 48 months for (iii) Artemether/Lumefantrine (AL) 20mg/120mg, tablet, Blister pack, 18 x 1 x 30 treatments; and (iv) Artemether/Lumefantrine (AL) 20mg/120mg, tablet, Blister pack, 24 x 1 x 30 treatments; must have a minimum of 36 months of usable shelf life remaining at time of delivery to procuring entity.

Product-specific specifications

*Table 1: **Specifications for ALs***

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size**
Type: Artemisinin-based combination therapy (ACT)				
1	Artemether / Lumefantrine (AL)	Dispersible Tablets	20mg/120mg	Blister pack, 6 x 30 treatments
2	Artemether / Lumefantrine (AL)	Dispersible Tablets	20mg/120mg	Blister pack, 12 x 30 treatments
3	Artemether / Lumefantrine (AL)	Tablets	20mg/120mg	Blister pack, 18 x 30 treatments
4	Artemether / Lumefantrine (AL)	Tablets	20mg/120mg	Blister pack, 24 x 30 treatments

***Where other strengths of AL are available the corresponding pack size of tablets that ensure that therapeutic effect is realized will apply. For example, if you have the AL 80/480, the pack size for the adult treatment will be 6 x 30 treatments.*

Complementary items that are packed with the product

N/A

Other requirements

The MoH/NMCP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Dihydroartemisinin + Piperaquine (DHAP) tablets

General specifications

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA) **Indicate the regulatory authorities** as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO list of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by WHO and PPB in all respects for manufacturing, packaging and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia or validated in-house specifications
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety and efficacy throughout its shelf life
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.
- The medicine product must be registered and retained with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re- registration and/or retention certificates from PPB.

PRE-PROCUREMENT TESTING

- Supplier shall submit a certificate of analysis from an WHO Prequalified independent quality control laboratory for the brand to be prequalified

POST PROCUREMENT TESTING

- The MoH/NMCP/Procuring Agencies will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Packing marking and labelling specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.
    - Tablets should be packed in a patient pack (course of therapy).

PRIMARY PACKAGING:

The primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- Total contents (number of dosage units per container) or pack size e.g., 3s, 6s, 9s, 12s
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., tablet)
- Date of manufacture
- Expiry date
- Batch number
- Storage and handling instructions, including any special storage conditions such as not to store above room temperature of 30°C, to protect from light, not to refrigerate or freeze.
- Name and physical location, and country of origin of manufacturer (physical address, with country of origin. The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria"
- All primary packaging must be sealed, tamper-proof and air-tight
- Light sensitive medication must be packaged in light proof packaging
- Note: as per the PPB guidelines to submission for drug registration, date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form

- Total contents/ pack size (e.g., 3s, 6s, 9s,12s)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions such as not to store above room temperature of 30°C, to protect from light, not to refrigerate or freeze.
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC)

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg
- The label for the tertiary or outer carton shall be in indelible ink and shall include:
- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging

Any additional cautionary statements

Shelf life

Shelf life must be at a minimum of 24 months from the time of manufacture but should present a usable shelf life of at least 75% by the time of receipt in the country.

Product-specific specifications

Table 2: Specifications for DHAP

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size**
Type: Artemisinin-based combination therapy (ACT)				
1	Dihydroartemisinine Piperaquine	Dispersible Tablets	20mg/160mg	Blister of 3 tablets
2	Dihydroartemisinine Piperaquine	Dispersible Tablets	40mg/320mg	Blister of 3 tablets
3	Dihydroartemisinine Piperaquine	Tablets	40mg/320mg	Blister of 6 tablets
4	Dihydroartemisinine Piperaquine	Tablets	40mg/320mg	Blister of 9 tablets
5	Dihydroartemisinine Piperaquine	Tablets	40mg/320mg	Blister of 12 tablets
6	Dihydroartemisinine Piperaquine	Tablets	80mg/640mg	Blister of 6 tablets

Complementary items that are packed with the product

N/A

Other requirements

The MoH/NMCP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Artesunate +Amodiaquine

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA) as per the Global Fund QA Policy for Pharmaceutical products.
- Those prequalified for use by the WHO. The Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards as set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- The manufacturer should conduct stability studies in accordance with ICH Zone IVb that confirm the product's quality, safety, and efficacy for the entire shelf-life in.
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and registration requirements

The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration or retention certificates from PPB.

- Packing marking and labelling specifications
- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., tablet)
- Date of manufacture

- Expiry date
- Batch number
- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in foil wrapped packaging
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 10s, 100s etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg
- Tertiary packaging:
- Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:
- The label for the tertiary or outer carton shall be in indelible ink and shall include:
- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity.

Product-specific specifications

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Artesunate +Amodiaquine	Tablet	25 mg + 67.5 mg	Blister,3 x 25
2	Artesunate +Amodiaquine	Tablet	50mg +135mg	Blister,3 x 25
3	Artesunate +Amodiaquine	Tablet	100mg +270mg	Blister,6 x 25

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCPDNMP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Sample Submission

Bidders to provide a sample equivalent to one (1) pack per item, as described, for evaluation

Artesunate-Pyronaridine (ASPY)

Prequalification and Quality Standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA) as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) WLA approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards as set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- provide stability studies conducted in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life.
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and Registration Requirement

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing Marking and labelling Specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

  - International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
  - List of excipients that are known to be a patient safety concern, e.g., gluten

- Dosage form/ formulation (e.g., granules, tablet)
- Date of manufacture
- Expiry date
- Batch number
- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air-tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in Aluminium/PVC/Aluminium-oPA foil blisters wrapped packaging
- Sachets consisting of layers of polyester, aluminium, and polyethylene/Surlyn
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 10's etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address

- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

SHELF LIFE

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity, and more specifically, for artesunate/pyronaridine 20mg/60mg at least 18 months remaining shelf life out of a possible 24months of shelf life and for artesunate/pyronaridine 60mg/180mg at least 18months and 23 months remaining shelf life out of a possible 24 and 30 months shelf life.

Sample Submission

Bidders to provide a sample equivalent to one (1) pack per item, as described, for evaluation

Product-specific specifications

Table 3: Specification for ASPY formulations

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Artesunate Pyronaridine	Granules	20mg/60mg	Sachet ,1 x 90
3	Artesunate Pyronaridine	Tablet	60mg/180mg	Blister, 9 x 10

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Artesunate injection

General specifications

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA) as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an WLA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and PPB in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia or validated in-house specifications.
- The supplier or manufacturer must provide stability data supporting the International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH) zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life in Kenya's climate.
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

PRE-PROCUREMENT TESTING

Supplier shall submit a certificate of analysis from an independent quality control laboratory for the brand to be prequalified

POST PROCUREMENT TESTING

The MoH/NMCP/Procuring Agencies will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Local and registration requirements

The medicine product must be registered and retained with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, and/or retention certificates from PPB.

Packing marking and labelling specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern
- Dosage form / formulation (e.g., injection)
- Total contents (number of dosage units) of container / pack size
- Date of manufacture
- Expiry date
- Batch number
- Storage and handling instructions, including any specific storage conditions such as not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Name and location of manufacturer (physical address, with country of origin. The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for sale", and "To be used for treatment of severe malaria"
- All primary packaging must be sealed, tamper-proof and air-tight
- Light sensitive medication must be packaged in USP approved packaging
- Note: as per the PPB guidelines to submission for drug registration, date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Pharmaceutical dosage form / formulation (e.g., injection)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form

- Total contents (number of dosage units) of container / pack size
- List of excipients that are known to be a patient safety concern
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC)

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

Artesunate is manufactured with a shelf life of between 24 and 36 months. The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring agent.

Specifically, shelf life must be the following minimum:

- 24 months - products must have a minimum of 18 months of usable shelf life remaining at time of delivery to the procuring entity
- 36 months - products must have a minimum of 27 months of usable shelf life remaining at time of delivery to the procurement entity

Product-specific specifications

Table 4: Specifications for Inj Artesunate

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size	Additional requirements
1	Artesunate	Injection [Intravenous (IV) / Intramuscular (IM)]	30mg	1 Vial (made of USP Type I glass)	Co-packed with both solvent and diluent for solution for injection or single sodium bicarbonate arginine-based formulation Diluent *See section Complementary items that are packed with the product below
2	Artesunate	Injection [Intravenous (IV) / Intramuscular (IM)]	60mg	1 Vial (made of USP Type I glass)	Co-packed with both solvent and diluent for solution for injection or single sodium bicarbonate and arginine-based formulation Diluent *See section Complementary items that are packed with the product below
3	Artesunate	Injection [Intravenous (IV) / Intramuscular (IM)]	120mg	1 Vial (made of USP Type I glass)	Co-packed with both solvent and diluent for solution for injection or single sodium bicarbonate and arginine-based formulation *See section Complementary items that are packed with the product below
4	Artesunate	Injection [Intravenous (IV) / Intramuscular (IM)]	180 mg	1 Vial (made of USP Type I glass)	Co-packed with both solvent and diluent for solution for injection or single sodium bicarbonate and arginine-based formulation Diluent *See section Complementary items that are packed with the product below

Complementary items that are packed with the product

Each vial of Inj Artesunate is co-packed with two diluents, one ampoule of sodium bicarbonate 5%w/v (50mg/ml) and one ampoule of sodium chloride 0.9% (9mg/ml), or single sodium bicarbonate (8.4 mg /ml) and arginine (20mg/ml) based formulation Diluent as follows:

*Table 5: **Specifications for co-pack***

Strength of Artesunate	Sodium bicarbonate co-pack	Sodium chloride co-pack	Sodium bicarbonate and Arginine (Single Diluent)
30mg	0.5ml	2.5ml	1.5 ml
60mg	1ml	5ml	3ml
120mg	2ml	10ml	6ml
180 mg	-	-	9 ml

Other requirements

The MoH/NMCP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Quinine Sulphate tablets

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA) as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia.
- International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH) zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life in Kenya's climate.
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.
- Local and registration requirements
- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.
- Packing marking and labelling specifications
- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., tablet)
- Date of manufacture
- Expiry date
- Batch number

- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili.
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package.
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in foil wrapped packaging.
- Note: as per the PPB guidelines to submission for drug registration, date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 3s, 30s etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions; specifically including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC)

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg.

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form/ formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process but shall be at least 75% at time of delivery to the procuring entity, and more specifically, at least 45 months remaining shelf life out of a possible 60 months of shelf life.

Product-specific specifications

Table 6: Specification for Quinine tablet

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size	Additional requirements
1	Quinine Sulphate	tablet	300 mg	Blister pack, 3 x 3 x 100 doses per box	Blister pack, 3 x 3x 100 doses per box

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Quinine Dihydrochloride injection

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA) as per the Global Fund QA Policy for pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO list of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia.
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and registration requirements

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing marking and labelling specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., injection)

- Date of manufacture
- Expiry date
- Batch number
- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili.
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package.
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for sale", and "To be used for treatment of severe malaria".
- All primary packaging must be sealed, tamper-proof and air tight.
- Light sensitive medication must be packaged in light proof packaging.
- Formulation should be contained in an amber colored ampule.
- NOTE: as per the PPB guidelines to submission for drug registration, date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., injection)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 100s, 50s)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).1, 2

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg.

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

The guaranteed minimum remaining shelf life upon delivery shall be at least 75% at time of delivery to the procuring entity, and more specifically, at least 45 months remaining shelf life out of a possible 60 months of shelf life.

Product-specific specifications

Table 7: Specification for quinine injection

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Quinine Dihydrochloride	injection	300mg/ml	2ml amps- 10 amps per pack x 10 packs (packs of 100 ampules)

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

PRIMAQUINE

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA) as per the Global Fund QA Policy for Pharmaceutical products.
- Those prequalified for use by the WHO. The Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- The manufacturer should conduct stability studies in accordance with ICH Zone IVb that confirm the product's quality, safety, and efficacy for the entire shelf-life in.
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and registration requirements

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing marking and labelling specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., tablet)
- Date of manufacture

- Expiry date
- Batch number
- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in foil wrapped packaging
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 10s, 100s etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number

- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity.

Product-specific specifications

Table 8: Specification for Primaquine

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Primaquine (as primaquine phosphate)	Dispersible tablet	2.5mg (base)	Blister pack: 10 tablets per blister; 100 tablets per box
2	Primaquine (as primaquine phosphate)	Dispersible tablet	5.0mg (base)	Blister pack: 10 tablets per blister; 100 tablets per box
3	Primaquine (as primaquine phosphate)	tablet	7.5mg (base)	Blister pack: 10 tablets per blister; 100 tablets per box
4	Primaquine (as primaquine phosphate)	tablet	15mg (base)	Blister pack: 10 tablets per blister; 100 tablets per box

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCPDNMP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

SAMPLE SUBMISSION

Bidders to provide a sample equivalent to one (1) pack per item, as described, for evaluation

Sulfadoxine-Pyrimethamine (SP) tablets

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA)/ as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.
- Local and registration requirements
- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.
- Packing marking and labelling specifications
- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., tablet)
- Date of manufacture
- Expiry date
- Batch number
- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.

- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air-tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in foil wrapped packaging
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 3s, 30s etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC). Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity, and more specifically, at least 27 months remaining shelf life out of a possible 36 months of shelf life.

SAMPLE SUBMISSION

Bidders to provide a sample equivalent to one (1) pack per item, as described, for evaluation

Product-specific specifications

Table 9: Specification for SP tablet

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Sulphadoxine/ Pyrimethamine	tablet	500mg Sulphadoxine/ 25mg Pyrimethamine	Blister pack, 3 x 1 x 100 doses per pack
2	Sulphadoxine /Pyrimethamine	Tablet	500mg Sulphadoxine/ 25 Pyrimethamine	Blister pack, 3 x 1 x 10 dose per pack

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Sulfadoxine-Pyrimethamine + AMODIAQUINE

Prequalification and quality standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA)Stringent Regulatory Authority (SRA)/ as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and registration requirements

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing marking and labelling specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., tablet)
- Date of manufacture
- Expiry date
- Batch number

- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in foil wrapped packaging
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 3s, 30s etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

Shelf life

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity.

Product-specific specifications

Table 10: Specification for SPAQ

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size	
1	Sulfadoxine + Pyrimethamine / Amodiaquine (co-packaged SPAQ)	Tablet (SP) + dispersible tablet (AQ)	SP: 250 mg sulfadoxine + 12.5 mg pyrimethamine; AQ: 75 mg (76.5 is equivalent to 75mg)	Blister pack containing 1 SP tablet + 3 AQ tablets; 10-20 blisters per box	As a co-pack blister pack, dispersible tablets
2	Sulfadoxine + Pyrimethamine /	Tablet (SP) + dispersible	SP: 500 mg sulfadoxine + 25	Blister pack containing 1 SP	%1

	Amodiaquine (co-packaged SPAQ)	tablet (AQ)	mg pyrimethamine. AQ: 150 mg	tablet + 3 AQ tablets; 10–20 blisters per box	
3	Sulfadoxine + Pyrimethamine / Amodiaquine (co-packaged SPAQ)	Tablet (SP) + tablet or dispersible tablet (AQ)	SP: 500 mg sulfadoxine + 25 mg pyrimethamine+ AQ: 150mg 153mg (equivalent to 150 mg base)	Co-packaged blister containing 1 SP tablet + 3 AQ tablets; typically, 30–100 treatment courses per carton	

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCPDNMP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Proguanil

Prequalification and Quality Standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA)Stringent Regulatory Authority (SRA) as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria prophylaxis medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and Registration Requirement

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing Marking and labelling Specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., granules, tablet)
- Date of manufacture
- Expiry date
- Batch number

- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air-tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in Aluminium/PVC/Aluminium-oPA foil blisters wrapped packaging
- Sachets consisting of layers of polyester, aluminium, and polyethylene/Surlyn
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 10's etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

SHELF LIFE

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity, and more specifically, at least 24 months remaining shelf life out of a possible 60 months of shelf life.

Product-specific specifications,

Table 11: Specification for Proguanil tablet

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Proguanil	Tablet	100mg	1*56 Blister Pack
2	Proguanil	Tablet	100mg	1*100 Blister Pack

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCPDNMP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Atovaquone + Proguanil

Prequalification and Quality Standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA)Stringent Regulatory Authority (SRA) as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards set out by the WHO and /or WHO Listed Authorities (WLA) in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and Registration Requirement

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing Marking and labelling Specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., granules, tablet)
- Date of manufacture
- Expiry date
- Batch number

- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air-tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in Aluminium/PVC/Aluminium-oPA foil blisters wrapped packaging
- Sachets consisting of layers of polyester, aluminium, and polyethylene/Surlyn
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 10's etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number

- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

SHELF LIFE

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity, and more specifically, at least 24 months remaining shelf life out of a possible 60 months of shelf life.

Product-specific specifications

Table 12: Specification for Atovaquone + Proguanil tablet

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Atovaquone + Proguanil	Tablets f/c	62.5mg + 25mg	1*12 Blister Pack
2	Atovaquone + Proguanil	Tablets f/c	62.5mg + 25mg	1*24 Blister Pack
3	Atovaquone + Proguanil	Tablets f/c	250mg +100mg	1*12 Blister Pack
4	Atovaquone + Proguanil	Tablets f/c	250mg +100mg	1*24 Blister Pack
5	Atovaquone + Proguanil	Tablets f/c	250mg +100mg	1*60 Blister Pack

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCPDNMP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Mefloquine

Prequalification and Quality Standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA)Stringent Regulatory Authority (SRA) as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards as set out by the WHO and /or WHO Listed Authorities (WLA)USFDA, in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and Registration Requirement

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing Marking and labelling Specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

  - International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
  - List of excipients that are known to be a patient safety concern, e.g., gluten

Dosage form/ formulation (e.g., granules, tablet)

- Date of manufacture
- Expiry date
- Batch number

- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air-tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in Aluminium/PVC/Aluminium-oPA foil blisters wrapped packaging
- Sachets consisting of layers of polyester, aluminium, and polyethylene/Surlyn
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 10's etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

SHELF LIFE

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity, and more specifically, at least 24 months remaining shelf life out of a possible 60 months of shelf life.

Product-specific specifications

Table 13: Specification for Mefloquine tablet

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Mefloquine	Tablets	250mg	1*10 Blister Pack
2	Mefloquine	Tablets	250mg	1*30 Blister Pack
3	Mefloquine	Tablets	250mg	1*100 Blister Pack
4	Mefloquine	Tablets	250mg	1*500 Blister Pack

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCPDNMP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

Doxycycline

Prequalification and Quality Standard

- The product must be prequalified by the WHO Prequalification Programme and /or authorized by a WHO Listed Authorities (WLA)Stringent Regulatory Authority (SRA) as per the Global Fund QA Policy for Pharmaceutical products. Those prequalified for use by the WHO Prequalification Team should be listed in the current WHO List of prequalified malaria medicines.
- The product must be accompanied by the following in the technical tender: the WHO Prequalification Reference number and/ or proof of registration by an SRA and/or the United States Food and Drug Administration (USFDA) approval/ tentative approval reference number.
- Should meet the requirements of the pharmaceutical legislation and regulation of the country of origin for manufacturing and distribution of medicines. "Country of origin" here means the country where the finished product is manufactured.
- The manufacturer should adhere to Good Manufacturing Practices (GMP) standards as set out by the WHO and /or WHO Listed Authorities (WLA)USFDA, in all respects for manufacturing, packaging, and labelling of products. Manufacturer to show proof of adherence to GMP standards and provide GMP license from PPB.
- Should also be compliant with monographs set by WHO International Pharmacopeia (Int. Ph.) or the United States Pharmacopoeia (USP) or British Pharmacopeia (BP) or European Pharmacopeia
- The supplier or manufacturer must provide a certificate of analysis for each batch/lot of the product being supplied.
- The bidder is expected to submit the required number of samples, each equivalent to one (1) pack per product, as described, for tender evaluation.

Local and Registration Requirement

- The medicine product must be registered with the local pharmaceutical regulatory authority of Kenya, i.e., Pharmacy and Poisons Board (PPB). Bidders should provide registration, re-registration, or retention certificates from PPB.

Packing Marking and labelling Specifications

- The product's primary, secondary and tertiary packages shall have the same batch number.

PRIMARY PACKAGING:

Primary package should be clearly labelled with indelible ink indicating the following, as a minimum:

- International Nonproprietary Name (INN) / generic name of the medicine
- Strength of the active pharmaceutical ingredient(s) (i.e., quantity of active ingredient) per unit dosage form
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Dosage form/ formulation (e.g., granules, tablet)
- Date of manufacture
- Expiry date
- Batch number

- Storage and handling instructions, including any specific storage conditions. Specifically, including not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.
- Conduct stability studies in accordance with ICH zone IVb climatic conditions to ensure the formulation maintains quality, safety, and efficacy throughout its shelf life
- Name and physical location, and country of origin of manufacturer (The "country of origin" is defined as the country where the finished product is manufactured.)
- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- Labels should not contain material or graphics that target to directly promote the product's use by infants and children; however, pictograms that clarify usage information may be included in the product package
- Special markings: for products procured through GoK and GFATM support, there should be special markings on packaging as follows: "GoK - Not for Sale", and "To be used for treatment of malaria".
- All primary packaging must be sealed, tamper-proof and air-tight.
- Light sensitive medication must be packaged in light proof packaging.
- Tablets should be packed in Aluminium/PVC/Aluminium-oPA foil blisters wrapped packaging
- Sachets consisting of layers of polyester, aluminium, and polyethylene/Surlyn
- Note: as per the PPB guidelines to submission for drug registration date of manufacture, manufacturer address, storage conditions may be omitted on primary package if it is a blister or strip pack of vial/ampoule of volume less than 10mL. Manufacturer name may be substituted with a trademark or other symbol. Primary packaging of blisters and strips should have the following minimum labelling: Name, strength, and pharmaceutical form of the finished pharmaceutical products; manufacturer name; batch number; and dates of manufacture and expiry in uncoded form.

SECONDARY PACKAGING:

Labelling on outer packaging (or where there is no outer packaging – on the immediate packaging), should include:

- Name of the finished pharmaceutical product (FPP)
- List of active pharmaceutical ingredients (using International Nonproprietary Name (INN) or generic name, if applicable)
- Dosage form/ formulation (e.g., tablet)
- Strength of the active pharmaceutical ingredient(s) per unit dosage form
- Total contents/ pack size (e.g., 10's etc.)
- List of excipients that are known to be a patient safety concern, e.g., gluten
- Indication(s) and recommended dosage, where practicable
- Batch number
- Date of manufacture and expiry in uncoded form
- Storage and handling instructions, including any specific storage conditions
- Directions for use, and any necessary warnings or precautions
- Manufacturer name and address
- Name and address of the company / organization responsible for placing the product on the Kenyan market (if different from manufacturer)
- Kenya marketing authorization number
- Legal category, i.e., if prescription only medicine (POM) or over the counter medicine (OTC).

TERTIARY PACKAGING:

Individual unit containers shall be packed in carton boxes made of strong corrugated cardboard that are:

- Maximum 100cm long by 40cm wide by 40cm high
- Suitable to be piled at least 5 boxes high
- Strong enough to withstand rough handling & exposure to extreme tropical temperatures & moisture
- The gross weight per carton shall not exceed 30kg

The label for the tertiary or outer carton shall be in indelible ink and shall include:

- Shipping marks
- International Nonproprietary Name (INN) or generic name - prominently displayed
- Pharmaceutical dosage form / formulation
- Strength/ concentration of the product
- Date of manufacture and date of expiry (in clear language, no code)
- Batch number
- Quantity per carton
- Special instructions for storage and handling
- Manufacturer name and address
- Carton numbering specifying the number of the carton out of the total number in the shipment, e.g., carton 1/40
- Special marking "GOK - Not for Sale" on 3 adjacent sides of the tertiary packaging
- Any additional cautionary statements

SHELF LIFE

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process, but shall be at least 75% at time of delivery to the procuring entity, and more specifically, at least 24 months remaining shelf life out of a possible 60 months of shelf life.

Product-specific specifications

Table 14: Specification for Doxycycline tablet

#	Product (Active ingredient) name / International Non-Proprietary name (INN)	Formulation	Strength	Pack size
1	Doxycycline	Capsule	100mg	10*10 Blister Pack

Complementary items that are packed with the product

None

Other requirements

The MoH/NMCPDNMP will take samples of the procured medicines so as to undertake post-shipment batch testing, through the relevant WHO certified laboratories.

SECTION II (A): MALARIA LABORATORY DIAGNOSTICS-EQUIPMENT, REAGENTS, AND CONSUMABLES

HPT covered in this section are:

1. Malaria Rapid Diagnostic Test (mRDT)
2. Microscope
3. Giemsa stain powder
4. Real time PCR machine
5. Genomic sequencer machine

Malaria Rapid Diagnostic Test (RDT)

Malaria Rapid Diagnostic Tests (mRDTs) are recommended for use in health facilities at levels 2 and 3 as well as in the community i.e., level 1, where microscopy services are not offered.

General specifications

Prequalification and quality standard

- Malaria Rapid Diagnostic Test (mRDT) products prequalified for use by WHO Prequalification of In Vitro Diagnostics Programme or authorization for use by one of the Regulatory Authorities of the Founding Members of Global Harmonization Task Force (GHTF) when stringently assessed (high risk)
- Manufacturer must provide certificate of Compliance with requirements of ISO 13485
- The local authorized representative or distributor shall liaise with the manufacturer to ensure that the procured mRDTs undergo pre-shipment lot testing at designated WHO- Foundation for Innovative New Diagnostics (FIND) supported laboratories.
- The supplier or manufacturer must provide a certificate of analysis for each lot/batch of the product being supplied.
- The bidder must submit the required number of samples equivalent to one pack per item as described for tender evaluation.

Local registration requirements

- The local authorized representative or local distributor(s) must have a valid registration certificate from the Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB).
- mRDT products must have a current certificate of validation from the KMLTTB. Validation refers to the process KMLTTB undertakes to authenticate the quality of medical laboratory reagents and equipment; and confirm the information provided by the manufacturer of the product's precision, linearity, specificity, sensitivity, and accuracy, and hence approve its use within medical laboratories in Kenya.
- mRDT products must be listed in the Pharmacy and Poisons Board (PPB) list of in-vitro diagnostic medical devices (IVDs). Bidders to Provide evidence of listing by PPB

Packing Marking and labelling specifications

Product label must show the product name, pack contents, and pack size, and that it is intended for rapid diagnosis of malaria:

- Name and address of manufacturer and country of origin
- Date of manufacture
- Expiry date
- Lot/ batch number
- Storage, handling, and transportation instructions to maintain the product's sensitivity and specificity, including any specific storage conditions, such as not to store above temperature of 30°C; to protect from light; not to refrigerate or freeze.

- All labelling and package inserts must be legible and comprehensible, in indelible ink and in English and/or Kiswahili
- All primary packaging must be sealed, tamper-proof and air-tight
- Light sensitive items must be packaged in light proof packaging
- Instructions guiding the user on proper and safe use, including correct method/procedure of use and interpretation of results must be included.
- Each primary pack must contain only one product and one lot/batch.
- Markings on secondary and tertiary packaging indicating "GoK - Not for Sale" must be included.

Shelf life

mRDTs should have a shelf life of between 24 and 36 months. The guaranteed minimum remaining shelf life shall be at least 75% at time of delivery to the procuring agent. Specifically, the useful shelf life should be at least 27- and 18-months remaining shelf life at the time of delivery for 36 and 24 months of shelf life, respectively.

Product specifications

Table 15: Specification for mRDT

#	Product name	Packaging details	Detailed description
1	Malaria rapid diagnostic test (mRDT)	Kit of (1) or (10) or (25) tests	Lateral flow immunochromatographic device that detects specific antigens produced by the malaria parasite Antigen detection: *Plasmodium falciparum* antigen reactive HRP2* or Combined HRP2 and pLDH* Other antigens that may be recommended are; Pan -pLDH -detects all human malaria species (Pf,Pv,Po,Pm) PV-pLDH -specific for plasmodium vivax Diagnostic sensitivity and specificity: Specificity: Minimum 95% Sensitivity: Minimum 95% Panel Detection Rate (PDR): Minimum 75% at 200 parasites/µl* Invalid rate: <5% False positivity rate: <10% Test format - Cassette (visible labeled buffer(B) well and test(T) well Single use malaria rapid diagnostic test. Each box of test kit (hospital pack) must contain the following accessories: Instruction sheet 5-10 µl sample collection pipette Blood lancets ➢ Alcohol swabs ➢ Buffer ➢ Desiccant *HRP2 = Histidine rich protein 2; pLDH = Plasmodium lactate dehydrogenase; µl = microliter
		mRDT kit	Accessories in mRDT kit are articles specifically and explicitly intended

		accessories	to be used with the mRDT device to enable the mRDT to be used in accordance with the intended purpose; and include specimen collection/transfer device, lancet, alcohol swab, buffer etc. 1. Blood collection/transfer device – inverted cup, loop with a permanent volume mark, plastic calibrated pipette, or glass capillary tube; with the ability to collect and deposit the required volume of blood; 5-10 µl capacity; user friendly 2. ricker/safety needle – adequate in number to match the number of tests; pricker with stopper for safety; user friendly 3. Alcohol swab – adequate in number to match the number of tests; saturated with 70% isopropyl alcohol; sealed and contained in a wrapper/ envelope 4. Buffer – pre-punctured nozzle dropper/ unipore or easy puncture; expiry date matching the expiry date of the kit; appearance- clear, transparent/ translucent, consistent color; easy to deliver into test well; intact with no leakage; sufficient volume to run the number of tests in the kit; minimum of 3mls vial for hospital pack; single use buffer vial for single pack in one envelope 5. Desiccant – silica gel glass-like in a sealed bag; appropriate color; dry; free from excess humidity 6. Instruction sheet – leaflet to indicate volume of sample; volume of buffer; duration of test; how to carry out the procedure; how to interpret results

Other requirements

MICROSCOPE

General specifications

Prequalification and quality standard

- The manufacturer should provide a product catalogue with manufacturer's details.
- Manufacturer should attach product validation certificate of analysis Operator manual.
- One-year warranty from date of delivery.
- Certificate of Quality ISO 13485 issued by an independent regulatory body to the manufacturer of the product.

Local and registration requirements

- Market authorization from the manufacturer.
- Must be registered and validated by in-country regulatory authority (KMLTTB).
- products must be listed in the Pharmacy and Poisons Board (PPB). Bidders to Provide evidence of listing by PPB

Packing Marking and labelling specifications

- Should be packed as a single unit in a standard wooden carrying case with compartment for eye piece, microscope cleaning fluid, and oil emulsion.
- Should include a rechargeable battery which provides a minimum of two hours working of microscope in absence of power supply.
- The power cable should have a power guard and three pins.
- Should include a dust cover, cleaning brush, blue filter; and an operation & instruction manual in English and/ or Kiswahili.
- Zernik phase contrast kit with RP series phase objectives 4x, 10x, 40x, 100x, dark field kit, simple polarizer/analyzer, dual view attachment.

Shelf life

Not applicable

Product specifications

- Polarizer/analyzer, dual view attachment. epoxy coated, corrosion proof & resistant to organic solvents. All operation knobs are low positioned ensuring comfortable usage during long hours.
- An inclined 30° prismatic binocular eyepiece-sidentopf type, rotatable thru 360°, interpupillary distance ranging 48-75mm, maintaining parfocality, having provision for dioptre adjustment on both eyepieces.
- Anti-fungal coated parts & anti-reflection coated optics. Moister proof design.
- Paired-focusable-wide field achromatic & aplanatic eyepieces with foldable eye guards.
- Dioptre adjustment with graduated scale on both eyepieces. Magnification 10x f.o.v. Numbers 18 or 20mm. High quality optics a.r coated, anti-fungus treated.

- Reverse angle-quadruple or quintuple, made of solid brass with double ball bearings and ribbed grip for smooth & precision movement having positive click stop.
- Parfocality and centration of all the objectives ensured thru high precision manufacturing on cnc machines & check up on auto collimeters.
- Idle port fitted with dust proof plastic caps.
- Infinity corrected anti - reflection & anti-fungal coated especially designed for fluorescence attachment, and bright field microscopy. Corrected for specimens without cover slips plan achromatic, parfocalized &, par centered objectives of din standard. 10x/0.25, 40x/0.65x, 50x or 60x n.a. 0.9 & 100x/1.25 for oil immersion.
- Built-in double plate type mechanical stage. Rectangular size 145x145mm. X & Y travel on precision ball bearing guides, offering a range of 78x50mm. Low drive co-axial movement controls. Rackless x axis. Hard coated surface for scratch resistance. Double specimen holder spring loaded for exact positioning. Abbe type, n.a. 0.9/1.25, with an aspheric lens, iris diaphragm & removable blue day light filters.
- Rack & pinion movement on stainless steel guides. Co-axial coarse & fine focusing mechanism designed for highly smooth & long-life functioning over the full range of coarse travel ranging 15 - 18mm. Sensitivity below 0.002mm on the entire range.
- Safety stop provided to avoid slide damage. One rotation of the fine focusing knob is 0.3mm.
- Reflected light for fluorescence illumination with built-in led blue light source-wavelength 455nm, provided with proper barrier & exciter filters.
- Sub-stage illumination with 3w led lifetime of 50,000 hours, with proper heat sink & well corrected optical system for bright field microscopy.
- The system should provide an on-off switch and intensity control of light during operation. Change-over from fluorescence to bright field illumination is very simple & controlled thru a knob.
- Electric light input 180v-250v. 50hz thru amps offer constant voltage output for led. Power pack (6V DC) with charger working on 180-250V AC/ 50-60 Hz OR 12V Cigarette socket in a car.
- Should have a serial number and model that can be traced to the manufacturer.

Complementary items that are packed with the product

None

Malaria Microscopy: GIEMSA STAIN POWDER

General specifications

Prequalification and quality standard

- Should meet the Giemsa certified stain specifications under the Biological Stain Commission.
- Should have a Material Safety Data Sheet (MSDS).

Local and registration requirements

- The supplier or manufacturer must provide a certificate of analysis for each batch of the product being supplied.
- The bidder is expected to submit the required number of samples each described for tender evaluation

Packing Marking and labelling specifications

- Product labels must show the product name, presentation, pack size, lot number, name of manufacturer, date of manufacture and country of origin. The "country of origin" is defined as the country where the finished product is manufactured.
- All labelling and package inserts shall be in English and/or Kiswahili.
- Each primary and secondary package shall contain only one product and one lot/batch.
- There shall be special markings on packaging as follows: "GoK - Not for Sale".

Shelf life

Giemsa powder should have a shelf life of 36 to 48 months. The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process but shall be at least 75% at time of delivery to the procuring agent.

Product specifications

#	Product name	Presentation / Form	Packaging details	Detailed description
1	Giemsa	Powder	Pack of 25gm	AnalaR product Color: dark blue to purple Melting point - 300 degrees centigrade Solubility in methanol:1mg/ml The product shall be suitable for use in staining blood film, Infrared spectrum: should conform to structure solubility. Absorption spectrum: Absorption maxima λ 1 (methanol) 687-663nm Absorption maxima λ 2 (methanol) 620-626nm

Complementary items that are packed with the product

N/A

Real time Polymerase Chain reaction (PCR) Machine

General specifications

Prequalification and quality standard

- The Malaria PCR (mPCR) products must be prequalified for use by the WHO Prequalification team and listed in the current WHO List of prequalified in vitro diagnostic products.
- The manufacturer should provide a product catalogue with manufacturer's details.
- The manufacturer should attach a product validation certificate of analysis.
- Operator manual.
- One-year warrant from date of delivery.

Local and registration requirements

- Market authorization from the manufacturer.
- Must be registered and validated by in-country regulatory authority (KMLTTB).
- Provide valid service contract.

Packing Marking and labelling specifications

- Not applicable- single machine

Shelf life

Not applicable

Product-specific specifications

- Real time PCR system.
- Fully automated amplification and detection system for nucleic acids using 5- nuclease assay. Ramp rate: 4.5
- Excitation source: LED.
- Filters:4 excitation filters, (470,530,580,630nm) 4 emission filters, (510,565, 620, 665nm).
- Minimum colors emission: four colors emission up to 4 different wavelength combinations are supported (filter wheel).
- Two independent blocks capable of running same or different thermo protocols.
- Dynamic range:11 order of magnitude ;(a broad linear range, from single copy to 11log).
- Software features: quantification, allelic discrimination, melt curve analysis optical unit with a high sensitivity photo electric sensor.
- Optical range; 470 – 665 nm.
- Sample capacity: 2 x 48 x 0.2 ml PCR plate or 96 x 0.2 ml PCR tubes /strips (two independent block 48 samples x 2, total sample capacity: 96samples).
- Sample loading capacity: two different tests on board simultaneously and capable to run individual PCR profiles.
- Temperature control range: 4°C - 99°C (working range).
- Control accuracy ±0.10C over the range of 4°C - 99°C.
- Certificate of calibration
- For diagnostic use; IVD – CE certificate according to the 98/79/EC Directive.

Complementary items that are packed with the product

None

MALARIA POLYMERASE CHAIN REACTION (PCR) BASED ASSAYS – PCR PROBES AND PRIMERS

General specifications

Prequalification and quality standard

- Relevant ISO Standard/ Manufacturer authorization

Local and registration requirements

- Market authorization from the manufacturer

Packing Marking and labelling specifications

- Product labels must show the product name, number of tests, name of manufacturer, date of manufacture and country of origin. The "country of origin" is defined as the country where the finished product is manufactured.
- Must have quality controls, positive and negative controls
- Expiry date
- Batch /lot number
- Storage and handling instructions, including any specific storage conditions
- All labelling and package inserts shall be in English and/or Kiswahili

Shelf life

The reagents should have a shelf life of 36 to 48 months. The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process but shall be at least 75% at time of delivery to the laboratory.

Product-specific specifications

Extraction reagent

- Should extract DNA from dried blood spot / whole blood/ serum/plasma
- PBS-Phosphate buffer salt
- Proteinase K
- Cartridges for extraction

Primers for detection of plasmodium genus

- Detect all human plasmodium genus

Primers for genotyping of plasmodium species; specific for *falciparum, malariae, ovale, vivax*

- Master mix 1 for detection of plasmodium falciparum and plasmodium malariae
- Master mix 2 for detection of plasmodium ovale and plasmodium vivax

Primers for quantification of malaria

- Master mix 1 for detection of plasmodium falciparum and plasmodium malariae
- Master mix 2 for detection of plasmodium ovale and plasmodium vivax
- Master mix 3 for quantification of *plasmodium falciparum*

Complementary items that are packed with the product

- Ice pack during transportation
- Manufacturers insert

Other requirements

None

GENOMIC SEQUENCER MACHINE

General specifications

Prequalification and quality standard

- The manufacturer should provide a product catalogue with manufacturer's details.
- The operation manual should be provided in English and/ or Kiswahili.
- One-year warranty from date of delivery.

Local and registration requirements

- Market authorization from the manufacturer.
- Must be registered and validated by in-country regulatory authority (KMLTTB).
- Provide valid service contract.

Packing Marking and labelling specifications

- Not applicable- single machine

Shelf life

Not applicable

Product-specific specifications

Application-Next generation sequencing, whole genome sequencing, de novo assembly, RNA seq, targeted sequencing, amplicon sequencing, metagenomics.

- Sample Throughput Can -process up to 16 SMRT cells serially per run.
- Maximum reads: 1 – 10
- Maximum output: 1 – 10 Gb
- Run time 0.5 - 4 hours
- Data analysis up to 55,000 reads, up to 1 Gb output
- Cycles of sequencing 93 -318
- Dimensions: WxDxH: 80 in x 35-54 cm in x 63-69 in (203 cm x 90 cm x 160 cm)
- Crated weight: 360-400
- Quantity - one system
- Power requirements: 100–120 VAC 15 A, 220–240 VAC 10A
- Operating environment:
    - Operating system: Windows 10
    - Temperature: 19°C to 25°C (22°C ± 3°C)
    - Humidity: Noncondensing 20%–80% relative humidity
    - Altitude: 0-2000 m (6500 ft)
    - Ventilation: Up to 2048 BTU/hr @ 600 W for indoor use only
- Compliance-NRTL certified IEC 61010-1 CE marked FCC/IC approved

Complementary items that are packed with the product

SECTION II (B): OTHER LAB REAGENTS AND SUPPLIES USED IN THE REFERENCE LABORATORIES AND HEALTH FACILITIES

Other Lab Reagents and Supplies Used in the Reference Laboratories and Health Facilities

Items listed in this section:

1. Double frosted slides	21. Biohazard sharps box	41. Microcentrifuge tubes
2. Slide folders	22. Biosafety container	42. DNA Extraction kit
3. Slide spreaders	23. Glycerol	43. Malaria detection and genotyping RT PCR kit
4. Slide mailers	24. Methanol	44. Plasmodium falciparum quantitative kit
5. Slide boxes	25. Immersion oil grade GPR	45. Plasmodium malariae quantitative kit
6. Slide dying racks	26. Tips	46. Plasmodium vivax quantitative kit
7. Slide staining racks	27. Strip tubes and caps	47. Plasmodium ovale quantitative kit
8. Cover slip	28. Microcentrifuge tubes	48. Falciparum PRT kit
9. Slide cabinet	29. EDTA tubes (purple top)	49. Thermo mixer
10. Tally counter	30. DPX	50. Fridge thermometer
11. Lens cleaning tissue	31. Refrigerated centrifuge molecular	51. Room thermometer
12. Lens cleanings fluid	32. PCR workstation	52. Thermo scientific fridge
13. PH Calibrant 4.01	33. Class II Type A2 biological safety cabinet	53. Refrigerator (-80°C)
14. PH Calibrant 7.01	34. Vortex mixer	54. Strip tubes and caps
15. PH Calibrant 10.01	35. Automated extraction system	55. Micro centrifuge tubes
16. PH Electrode storage solution	36. PCR Cooler Blocks	56. PH meter
17. Disodium hydrogen phosphate	37. Digital Micropipette Set	57. Weighing balance
18. Potassium dihydrogen phosphate	38. Sterile Micropipette tips	58. Wash bottle
19. Waste segregation/ Ziploc bags (yellow)	39. PCR tubes	59. Medical lab coat
20. Waste segregation Ziploc bags (red)	40. Strip tubes and caps	

Item	Prequalification and quality standard	Product specific specification	Packaging
Double frosted slides	Relevant ISO Standard/ Manufacturer authorization	Microscope slides, lime soda glass with SiO2: 72 - 74 %, Al2O3: 1 – 1,9 %, Fe2O3: 0.09 – 0.1 %, size 76 x 24 mm, thickness 1.0-1.2 mm according to ISO 8037/1, pre-cleaned and degreased, straight edges, and corners, cellophanized (tropical packing, paper in-between) double frosted and grounded on both ends,	50 pieces a box All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Slide folders	Relevant ISO Standard/ Manufacturer authorization	Made of heavy reinforced cardboard for protection and durability; Capacity 20, slides convenient to carry with labelled slots with a depth to fit the slide. Easy to open and close.	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Slide Spreaders	Relevant ISO Standard/ Manufacturer authorization	Made from safe polystyrene (PS)/glass slide Lightweight flexible design protects blood cells from destruction that occurs when using glass slides Tapered ends for uniform blood films	Pack size should be 72 pieces All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Slide mailers	Relevant ISO Standard/ Manufacturer authorization	In built slide separators, hinged tight cover, Hold five slides Polypropylene Closing lid is able to close Should conform to ISO standards. The manufacturer must be ISO certified.	Packaging: piece All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of manufacture and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Slide boxes	Relevant ISO Standard/ Manufacturer authorization	Slide storage boxes, plastic, for 100 slides 76 x 26 mm perfect for storage or transportation of standard size slides; molded, rigid boxes securely holding slides in grooved slots, numbered from 1-100; both the lining and the slots are numbered to correspond to the slide inventory sheet; closes securely with a rust-resistant, non mental nickel-plated clasp and pin hinges	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Slide drying racks	Relevant ISO Standard/ Manufacturer authorization	Hold up to 30 slides 8" x 5'' x 2'' Material: acrylic Submit one piece for evaluation Should conform to KEBS/ISO standards or equivalent Manufacturer must be KEBS/ISO certified or equivalent	Packaging: pieces **Labeling:** KEMSA labeled (or GOK) using indelible ink upon award of contract. All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" **Product box and carton should be labeled with:** Manufacturer's Name and Address, Country of Origin, Model Number or Name.

Item	Prequalification and quality standard	Product specific specification	Packaging
Staining Racks	Relevant ISO Standard/ Manufacturer authorization	Home made from glass rods and rubber/ silicon tubes or formed from wire (preferably stainless steel) in appropriate size, rectangular Made from PMP/PP; wet autoclavable. Maximum use temperature is 135°C Accommodates up to 20 slides (76 x 26mm) Removable snap-on handle. Including handle, it measures 70 x 86 x 21mm Submission of sample for evaluation Should conform to KEBS / ISO standard OR equivalent. The manufacturer must be KEBS / ISO certified or equivalent.	Packaging parameters: Packed in single pieces Standard weight of carton should be ≤ 20kg Labeling parameters: Labeling should be in English in indelible ink. All packaging and vials labeled with: "GOK-MOH- Not for Sale" Each carton to be clearly marked with the name and characteristics of the article and number of units per carton. Manufacturer's Name and address, Country of Origin, Batch No
Cover slip	Relevant ISO Standard/ Manufacturer authorization	Borosilicate glass Precleared, grease free microscope rectangular coverslip Dimension: 24mm x 50mm Should conform to KEBS/ISO standards or equivalent. Manufacturer must be KEBS/ISO certified or equivalent Submit 1 packet for evaluation	Packaging: 1 pack of 100 pieces KEMSA Labeled (or GOK) using indelible ink upon award of contract. Wrapped in foil porch All packaging to be labeled with: "GOK-MOH-NOT FOR SALE "Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Slide cabinet	Relevant ISO Standard/ Manufacturer authorization	Modular stackable to store slides Modules are made of metal and drawer are available in metal or ABS plastic deformable for maximum protection of slide Drawer: 14 of ivory color	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Tally counter, 2-key, 4 digits, hand-operated	Relevant ISO Standard/ Manufacturer authorization	Count range 0~9999 Count speed 200/min Transmission ratio 1:1 Return to zero method Rotary type Net weight 60 grams of 30 per box Outline dimensions 52x40x51mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Lens cleaning solution	Relevant ISO Standard/ Manufacturer authorization	Anhydrous >99%; clear non-turbid solution	Should be packed as 59 ml with nozzle spray. All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Lens cleaning tissue	Relevant ISO Standard/ Manufacturer authorization	10 x 15 cm White in color; nonfluffy Bound into booklet The products should have a minimum of 75% remaining shelf-life at the time of delivery. Should conform to ISO standard.	Packaging parameters: 100 sheets per book; booklet or loose sheet packaging Standard weight of carton should be ≤ 20kg Labeling parameters: Labeling should be in English in indelible ink. Generic/ chemical name clearly indicated Quantity/volume matches the label name All packaging and vials labeled with: "GOK-MOH- Not for Sale" Each carton to be clearly marked with the name and characteristics of the article and number of units per carton. Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture, and expiry.
PH Calibrant Ph 4.01	Relevant ISO Standard/	Fundamental for the correct use of electrodes and for obtaining the most accurate and reproducible readings Clear non-turbid solution	Should be packed in 230 ml bottles Sealed against light with an airtight, tamper proof cap. All packaging to be labeled with: "GOK-MOH-NOT FOR

Item	Prequalification and quality standard	Product specific specification	Packaging
	Manufacturer authorization	Shelf life 24months Accuracy: ±0.01 pH • pH 4.01 The mouth should be wide enough to accommodate pH meter electrode	SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry
PH Calibrant ph 7.01	Relevant ISO Standard/ Manufacturer authorization	Fundamental for the correct use of electrodes and for obtaining the most accurate and reproducible readings Clear non-turbid solution Shelf life 24months Accuracy: ±0.01 pH • pH 7.01 The mouth should be wide enough to accommodate pH meter electrode	Should be packed in 230 ml bottles Sealed against light with an airtight, tamper proof cap. All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry
PH Calibrant ph 10.01	Relevant ISO Standard/ Manufacturer authorization	Fundamental for the correct use of electrodes and for obtaining the most accurate and reproducible readings Clear non-turbid solution Shelf life 24months Accuracy: ±0.01 pH • pH 10.01	Should be packed in 230 ml bottles Sealed against light with an airtight, tamper proof cap. All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry
PH Electrode storage solution	Relevant ISO Standard/ Manufacturer authorization	Formulated to minimize organic growth on electrode. Shelf life 24months	Should be packed in 230 ml bottles Sealed against light with an airtight, tamper proof cap. All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry

Item	Prequalification and quality standard	Product specific specification	Packaging
Potassium dihydrogen phosphate	Relevant ISO Standard/ Manufacturer authorization	Packed in 500gm. Synonyms: potassium biphosphate, potassium phosphate monobasic, primary potassium phosphate, mono- potassium phosphate.KH2PO4, M=136,09 g/mol CAS [7778-77-0], Soluble in water (20oC) 222G/L MP: Approx. 253oC; Material safety data sheet (MSDS)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Disodium hydrogen phosphate	Relevant ISO Standard/ Manufacturer authorization	Material safety data sheet (MSDS)500gm. Na2HPO4, anhydrous, M=141.96 g/mol CAS [7778-77-0],Soluble in water (20oC) 222G/L MP: Approx. 253oC	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Waste Segregation Ziploc Bags (Red)	Relevant ISO Standard/ Manufacturer authorization	Ziploc Bags (26cmx15cm) - Red	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Waste Segregation Ziploc Bags (Yellow)	Relevant ISO Standard/ Manufacturer authorization	Ziploc Bags (26cmx15cm) - Yellow	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Biohazard sharp containers	Relevant ISO Standard/ Manufacturer authorization	Designed in accordance with the UN3291 standard; Used for the safe disposal of contaminated sharp objects Made of impact copolymer polypropylene - PP2 Shock-proof container, resistant to solvents and perforation Easy to handle, provided with a practical rotating opening having a temporary and permanent closing system Puncture resistant Built-in needled non removal system Leak-proof when the lid is locked Labelled in accordance to international standards Color should be yellow Size - 6cm long, with bin line of an inch for sharp disposal	Imprint All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Biosafety box	Relevant ISO Standard/ Manufacturer authorization	Made of hard plastic which is puncture proof Has two (2) compartments: one compartment to hold the smaller sharps container and the other lined with the waste disposal bag for non-sharps waste Lockable to prevent unauthorized access and vandalism Portable; the size should fit in the CHVs bags	Imprint All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Glycerol	Relevant ISO Standard/ Manufacturer authorization	Pure Analytical grade (AR) C3H803 M = 92,10 g/mol Density: 1,26 g/cm3 Flash point 1990c Melting point: 180C Boiling point: 0.09hPa) 120oC Miscible with water (20˚C) Ignition Temp: 400˚C Vapor pressure: (20˚C) <0,001 hPa LD 50 (oral, rat):12600mg/kg	Imprint All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry
Methanol	Relevant ISO Standard/ Manufacturer authorization	MW: 32.04 gms/mol BP: 64.7˚C MP: -97.6˚C Clear with no deposits Analytical grade Packaging parameters: ≤ 5 litres in brown screw capped glass bottle Standard weight of carton should be ≤ 20kg The products should have a minimum of 75% remaining shelf-life at the time of delivery. Should conform to KEBS / ISO standard OR equivalent. ISO certified MSDS	Imprint Labeling parameters: Labeling should be in English in indelible ink. Generic/ chemical name clearly indicated Quantity/volume matches the label name All packaging and vials labeled with: "GOK-NOT FOR SALE" Each carton to be clearly marked with the name and characteristics of the article and number of units per carton. Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specification	Packaging
Immersion oil, Grade GPR; 100mls	Relevant ISO Standard/ Manufacturer authorization	100 mls clear amber bottle Non-drying synthetic oil, colourless refractory index 1.515-1.517, viscosity at 20o C 100-120mPas, non-fluorescent, light transparency at 400 nm ≥ 75%. Should conform to ISO standards Non-corrosive Clear	Packaging- Bottle Imprint All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Tips	Relevant ISO Standard/ Manufacturer authorization	Plastic Volume:10 ʃl, 20 ʃl ,50 ʃl, 100 ʃl, 200 ʃl, 1000ul Universal Non-sterile Yellow /blue/white Sealed pack	Packaging parameters: Packet of 1000 tips Standard weight of carton should be ≤ 20kg Quantity/volume matches the label name All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Strip tubes and caps	Relevant ISO Standard/ Manufacturer authorization	0.2 ml tubes for real-time PCR .8 tubes/strip caps are flat and easily pierceable. . Certified RNAse, DNAse and pyrogen free.	Packaging: 120 strips All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Micro centrifuge tubes	Relevant ISO Standard/ Manufacturer authorization	1.5 ml micro centrifuge tubes, Autoclavable graduated. It features a frosted area for writing. 200400P 12x500	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
EDTA Tubes purple top	Relevant ISO Standard/ Manufacturer authorization	Blood collecting tube, 4ml, or 2 mls glass, EDTA-K, purple topped, with label for patient data entry piece Should conform to /ISO standards or equivalent. The manufacturer must be KEBS/ISO certified or equivalent. Submit sample for evaluation	Packaging: packed in 100 All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

DPX	Relevant ISO Standard/ Manufacturer authorization	Appearance: clear colorless liquid refractive index (20degrees centigrade: 589nm): 1.515 - 1.525 natural drying time: 40mins. capacity: 500mls	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Refrigerated centrifuge molecular	Relevant ISO Standard/ Manufacturer authorization	Refrigerated Centrifuge Features: Max. Speed at 6000rpm Max. RCF at 6080g Quick-spin function, Quick Temp. Function, Angle rotor (max capacity at 24*1.5/2ml, rated, Drive System: Low-noise brushless drive motor Accel./Decel. Curve: 3 levels adjustable Refrigerant: R134 (CFC free) Running Time: 0 – 9h 59 minutes Weight: 146 kg Dimensions (W×D×H): 433mm×826mm×600mm Original manufacturer brochure, Operator manual, at least one-year warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
PCR workstation	Relevant ISO Standard/ Manufacturer authorization	Dimensions (W×D×H): 433mm×826mm×600mm 254nm UV: Filter area, Chamber, UV/air recirculator White: Chamber Interior Dimensions: 19.7W x 21.4D in. (500 x 544 mm) Three-stage filters: Pre-filter, Carbon filter, HEPA filter	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

		Features include: Three UV sources, Three-stage filters, Two power outlets, Two small shelves, UV Timer (< 30 min.) Antimicrobial coated metal surfaces Makrolon® panels block below 400nm Original manufacturer brochure, Operators manual, At least one year warranty	
Class II Type A2 Biological Safety Cabinet	Relevant ISO Standard/ Manufacturer authorization	Class II Type A Biological Safety Cabinet (Motorized Control, HEPA Filters, 100% Air Exhaust, Power Supply: 220V/60Hz, Features: Motorized control of sliding front window, Negative pressure Class II Type A Biological Safety Cabinet (Motorized Control, HEPA Filters, 100% Air Exhaust, Power Supply: 220V/60Hz, Features: Motorized control of sliding front window, Negative pressure protection in double-layer side panels, ULPA main and exhaust filters (99.999% at 0.1-0.2μm DOP) Real-time digital display of velocities of both down flow and inflow, Filter life indicator, Interlocked UV Light-900 lamp * 1pc, Air mode: 70% air recirculation; 30% air exhaust, Down flow velocity(m/s): 0.35±0.025, Nominal Size: 0.9 meters (3'), Exterior Dimensions(W×D×H)(mm):1040×790×2130, Exhaust Volume(m3/s): 363, Filter performance: For particulate≥0.1~0.2μm at 99.999%; Output air quality	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

		class 10 Original manufacturer brochure, Operators manual At least one year warranty	
Vortex mixer	Relevant ISO Standard/ Manufacturer authorization	Vortex-27, 230/240V 50Hz 0.5 amps, Single cup head, rpm maximum speed 3000rpm Original manufacturer brochure, Operators manual At least one year warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Automated extraction system	Relevant ISO Standard/ Manufacturer authorization	Automated extraction system, fully automated isolation with magnetic beads. DNA purification, RNA purification, protein purification, Samples per run; throughput: 1–96 samples per run, sample volumes 350/700/200ul, cooling block -yes, heater shaker-yes. UV lamb-yes barcode reader-yes original manufacturer brochure, Operators manual At least one year warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
PCR-Cooler Blocks:	Relevant ISO Standard/ Manufacturer authorization	PCR-Cooler Blocks: Accommodates 96-well PCR plates, PCR strips, and 0.2 mL or 0.5 mL PCR tubes original manufacturer brochure, Operators manual. At least one year warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Digital micropipette set	Relevant ISO Standard/ Manufacturer authorization	Adjustable pipette Piston driven air displacement pipette which should be accurate and precise. performance certificate according to DIN E-12650-7 Autoclavable (sizes 0.5 - 5ul,5-50ul,20-200ul,100-1000ul.1 -5ml) with stand original manufacturer brochure, Operators manual, At least one year warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Sterile micro pipette tips	Relevant ISO Standard/ Manufacturer authorization	Plastic Volume: 10 ul, 20ul, 50 ul, 100ul, 200 ul, 1000ul Universal Sterile Yellow /blue/white tips	Packaging parameters: Packet of 96 tips in a closed box Standard weight of carton should be ≤ 20kg Labeling parameters: All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
PCR Tubes	Relevant ISO Standard/ Manufacturer authorization	0.2 ml tubes for real-time PCR 1000 reactions 4094.5N. Featuring attached caps. Certified RNAse, DNase and PCR inhibitors free.	Packaging: 1000 per packet All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name

			and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Strip Tubes and Caps	Relevant ISO Standard/ Manufacturer authorization	0.2 ml tubes for real-time PCR .8 tubes/strip caps are flat and easily pierceable. Certified RNAse, DNAse and pyrogen free.120 strips Compatible with a rotary based real time thermocycler, for 1000 reactions	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Micro centrifuge tubes	Relevant ISO Standard/ Manufacturer authorization	1.5 ml micro centrifuge tubes, Autoclavable graduated. It features a frosted area for writing. 200400P 12x500	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
DNA Extraction kit	Relevant ISO Standard/ Manufacturer authorization	To be used by Magnesia 16 automated Nucleic Acid Extraction system. 96 Tests	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Malaria detection and genotyping RT PCR kit	Relevant ISO Standard/ Manufacturer authorization	The kit must detect and distinguish Plasmodium falciparum, Plasmodium vivax, Plasmodium ovale and Plasmodium malariae. Kit should work based on multiplex Real- time PCR method with Tagman probe assay and genotyping and should be accomplished in two tubes for each sample and internal control (IC) should be employed in both tubes. The kit must be compatible with the Montania 4896 system.	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Plasmodium falciparum Quantification kit	Relevant ISO Standard/ Manufacturer authorization	Falciparum quantification kit should detect and quantitates *plasmodium falciparum* DNA in human serum or plasma, encompassing all the falciparum sub-genotypes.	Packaging: Kit of 100 tests All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Plasmodium malariae quantitative kit 100 tests	Relevant ISO Standard/ Manufacturer authorization	Falciparum Quantification kit should detect and quantitates *plasmodium malariae* DNA in human serum or plasma, encompassing all the falciparum sub-genotypes.	Packaging: Kit of 100 tests All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Plasmodium vivax quantitative kit 100 tests	Relevant ISO Standard/ Manufacturer authorization	Falciparum Quantification kit should detect and quantitates *plasmodium vivax* DNA in human serum or plasma, encompassing all the falciparum sub- genotypes.	Packaging: Kit of 100 tests All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Plasmodium ovale quantitative kit 100 tests	Relevant ISO Standard/ Manufacturer authorization	Falciparum Quantification kit should detect and quantitates *plasmodium ovale* DNA in human serum or plasma, encompassing all the falciparum sub- genotypes.	Packaging: Kit of 100 tests All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Falciparum PRT kit	Relevant ISO Standard/ Manufacturer authorization	Falciparum Quantification kit should detect and quantitates plasmodium Falciparum DNA in human serum or plasma, encompassing all the falciparum sub-genotypes.	Packaging: Kit of 100 tests All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Thermo Mixer	Relevant ISO Standard/ Manufacturer authorization	Thermomixer Power: 220 V, 50/60 Hz, Accessory: Smart Block 1.5 mL thermoblock for 24 reaction vessels, Basic application: Heating/mixing/cooling, Temperature control range: min: 15 °C1) below RT, max: 100 °C, Maximum heating rate: 6 °C/min, Mixing frequency: 300–3,000 rpm, Timer: 15 sec to 99:30h, continuous Original manufacturer brochure, Operators manual, At least one-year warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number, or serial number
Fridge thermometer	Relevant ISO Standard/ Manufacturer authorization	Range: 30° - 50° Centigrade	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number, or serial number
Room thermometer	Relevant ISO Standard/ Manufacturer authorization	Range: 18° – 450° Centigrade	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number, or serial number

Thermo- scientific fridge	Relevant ISO Standard/ Manufacturer authorization	(BBR- 750), capacity 605liters, stainless steel interior, exterior- galvanized steel plate (SECC), Compressor units 1/3Hp hermetically. refrigerant CFC FREE 1ST R-134A, Original manufacturer brochure, Operators manual, at least one-year Warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number, or serial number.

Refrigerator (-80˚C)	Relevant ISO Standard/ Manufacturer authorization	Capacity 392liters, stainless steel interior Exterior-galvanized steel plate (SECC), Compressor units 1Hp hermetically. refrigerant CFC FREE 1ST R-134A,2ST R-23 R-23Mic Original manufacturer brochure, Operators manual, at least one-year Warranty	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Strip tubes and caps	Relevant ISO Standard/ Manufacturer authorization	Cap Type: Flat Product Size: 80 strips Reaction Speed: standard Tube Type: strip of 12 Volume (Metric):0.2 ml	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Micro Centrifuge Tubes	Relevant ISO Standard/ Manufacturer authorization	Tubes should have uniform wall thickness for consistent, repeatable results. Subdivisions for approximate volume determination. Autoclavable at 120˚C (2bar), according to DIN EN 285. BIO-CERT® sterile, endotoxin-, RNase-, ATP-, and DNA-free	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

PH meter	Relevant ISO Standard/ Manufacturer authorization	ACCURACY: ±0.02 pH, calibrates 2.00 - 16.00 pH, SE220 pH probe. Two point calibration Feature; Fast easy to read results with large digital LED readout Automatic calibration Resistant to shocks and knocks. Extreme accuracy to ±0.02 pH and extended range (-2.00 pH to 16.00 pH) Lightweight and portable Easy measurement: just place the probe in the sample, gently stir and wait for the reading to stabilize Simple push button, automatic two-point calibration for increased accuracy Gel-filled, double junction lab grade pH electrode for low maintenance and high performance with a screw on cap to ensure proper storage Rugged stainless temperature probe 3 feet probe cables for extra flexibility when testing Auto shut off and low power demand with approx. 300 hours of continuous use (battery included)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Serial number
Weighing balance	Relevant ISO Standard/ Manufacturer authorization	Stainless steel. Calibration certificate or verification certificate (or with both Internal calibration device. RS-232	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number Serial number

		Original manufacturer brochure, Operators manual, at least one-year Warranty	
Wash bottle	Relevant ISO Standard/ Manufacturer authorization	Shape-cylindrical Threaded cap, screw cap Capacity (Metric). 250ml -Material LDPE, Diameter (Metric) 5.8cm,Height (Metric) 14.6cm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin,

Medical laboratory coat		Color: White Material: Polyester/Cotton Blend 80/20 Length: At least knee length or longer wristband fitted wristband/cuff to reduce the potential for splashes up the arm and fire hazards Product style Single color and three pockets Branded MOH, Malaria program measurements in inches Size: Length Chest Arms Shoulder Small 35 42 24 19 Medium 36 44 24.5 19.5 Large 36 46 25 20 XL 36 48 25 21 2XL 36 50 25 21.5 3XL 36 52 26 22 (minimum of 65% polyester)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin,

SECTION III: HPT USED IN MALARIA VECTOR CONTROL

Health products and technologies used in malaria vector control:

A. Long Lasting Insecticidal Treated Nets (LLINs)
B. Insecticides used in Indoor Residual Spraying (IRS)
C. Larvicides used in Larval Source Management (LSM)
D. Spatial Repellants/ Emanators (SR)
E. Entomological Equipment and Reagents

A. Long Lasting Insecticidal Nets KENYA (REVISED 2025)

REVISED SPECIFICATIONS OF POLYESTER AND POLYETHYLENE LONG LASTING INSECTICIDAL NETS (LLINs) AND NETTING MATERIALS 2025

General specifications

These specifications apply for Pyrethroid only LLINs, Piperonyl Butoxide (PBO) LLINs and Dual Active Ingredient LLINs.

Prequalification and quality standard

- The LLIN products must be prequalified for use by the WHO Prequalification Team – Vector Control (WHOPQT-VC) and listed in the current WHO list of prequalified vector control products.
- The local authorized representative or distributor shall liaise with the manufacturer to ensure that the LLIN undergoes pre-shipment lot testing at a designated WHO testing laboratory.
- The supplier or manufacturer must provide a certificate of analysis for each lot/ batch of the product being supplied
- Sample should be provided for evaluation.

Local and registration requirements

- The treated net must be registered with the local pesticide control/ regulatory authority of Kenya, i.e., Pest Control Product Board (PCPB). Bidders should provide registration or re-registration and retention certificates from the board.

Packing Marking and labelling specifications

- Product labels must show the product name, pack contents and pack size, and the purpose for which it is intended.

Description	Requirements
Individual packaging	Each net to be packed in an individual, heat-sealed, pre-printed transparent plastic bag. Bag to be sufficient to prevent damage during transit.
Plastic bag	Clear polythene bag with handle, centrally punched, 5cm from top of the bag. Handle size 8.5 cm X 2cm. Bag to be punched with 4 holes, 3.5cm from top and bottom and 5cm from both sides to prevent suffocation and enable air release during compression of the bag during baling.
Bag size	36 cm to 53 cm (minimum size)
Bag thickness	70 microns (minimum size)

Design	Design size = 34 cm X 49 cm Design to print 1cm at the bottom, top and sides + 0.5 cm The background along the strip where the logos are should be left clear to allow view of the net inside All printed in full color process
Instructions for Use	General information as required by the Kenya Pesticide Control Products Board (PCPB) Instructions for use to be pre-printed on the reverse side of each individual bag Printing to be both in Kiswahili and English Date of manufacture and expiry to be shown either as adhesive label or ink jet printed or equivalent applied directly onto reverse of the bag Denier, type of netting material and bursting strength on net should be indicated on the front bottom side of each individual bag Individual net identifier to be printed on the front top side of the bag There shall be special markings on the packaging as follows: "GoK - Not for sale"
Bulk Packaging	
Containers	All containers should, where total volumes allow, be of equal quantities
Bulk Packaging (Nets)	Waterproof compressed bales (preferred option), alternatively, low-density polyethylene (LDPE) bags (stitch closed) will be acceptable. Bales to be strapped with 5 strong plastic strapping, tightly bound by machine Bales to be clearly stenciled or have an adhesive sticker and not handwritten Labeling should be in English and/or Kiswahili; and should indicate: CA: "CA ref. No" Include the GOK, NMCP, Donor and Free Net Logos All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Manufacturer name, address, and country of origin Supplier name Consignee name and address Number of pieces per bale: "One bale contains XX pieces of nets". Color Shape i.e., rectangular or conical Gross weight " . Kgs" (maximum weight per bale of 50 Kgs) Bale No: "...." of " " Range of unique codes for individual nets in the bale "Use no Hooks"
Number of nets per bale	Polyethylene – 40 pieces packed in individual plastic bag per bale Polyester – 50 pieces packed in individual plastic bag per bale

Shelf life

The guaranteed minimum remaining shelf life upon delivery is negotiated as part of the bidding process but should be at least 75% at time of delivery to the procuring agent, and more specifically, at least 18 months of remaining shelf life.

Product-specific specifications

Table 16: Specifications for Polyester Nets

Parameter	Value	Test methods
Fibre	100% polyester	ISO 1833 (Fibre analysis method) TES/TEP/TM/07
Linear Density	100 deniers	ISO 2060
Mesh size	Minimum 24 holes/cm^2	WHO specifications 333/LN/1, Note 9
Weight	40 g/m^2 ±10%	ISO 3801 KS 08-120
Bursting Strength	Minimum 350 Kpa	ISO 13938 TES/TEP/TM/08
Dimensional stability	Shrinkage threshold range of <10% stretching of ≤5%	ISO 6330 ISO 5077
Flammability	After removing the ignition source, the following fire phenomena should not occur: - ignition - propagation of the flame or glow. - flaming debris - ignition of the filter paper *Fulfilling the requirements above means that the flame speed rate is 0 mm/s, i.e., no flame or glow achieves first and third marker threads. Formation of holes is allowed provided that the burnt or melted width and length of the holes does not exceed 50 mm and 150 mm, respectively	EN 1102
Type of netting	Knitted	ISO 8388
Colour fastness to: Light Washing	 4 or better 4 or better	 ISO 105 (BO2) ISO 105 C06 A25

*ISO 6941:1984 Textile fabrics – burning behavior – Measurement of flame spread properties of vertically oriented specimens.

Table 17: Specifications for Polyethylene Nets

Parameter	Value	Test methods
Fibre	100% high-density polyethylene	ISO 1833 (Fibre analysis method) TES/TEP/TM/07
Linear Density	≥100 denier	ISO 2060
Mesh size	Minimum 6.452 holes/cm2	KS 08-1305 part 1
Weight	40 g/m2 +10%	ISO 3801 KS 08-120
Bursting Strength	Minimum 350 Kpa	ISO 13938 TES/TEP/TM/08
Shrinkage	Threshold/range of <5%	ISO 6330
Dimensional stability	Shrinkage/stretching of ±10%	ISO 5077
Fire safety*	16	(CFR 1610-CS191-53)
Type of netting	Knitted	ISO 8388
Colour fastness to: Light Washing	 4 or better 4 or better	 ISO 105 (BO2) ISO 105 C06 A25

*ISO 6941:1984 Textile fabrics – burning behavior – Measurement of flame spread properties of vertically oriented specimens.

Table 18: Specifications for combination nets with single material composition

S/No.	Ingredients	Requirement	Standard Test methods
i	Permethrin	20 g/kg ± 25 %	As per WHO guideline
ii	Alphacypermethrin content	5.8g/kg	454/LN/M/3.2, CIPAC Handbook M, p.41,2009
iii	Deltamethrin	2.1g/kg ± 25 %	333/LN/(M), CIPAC Handbook
iv	Piperonyl Butoxide (PBO)	25 g/kg ± 25 %	Guideline CIPAC 33/LN/(M)/3, CIPAC Handbook
v.	Chlorfenapyr	5.0g/kg ± 25 %	CIPAC 5291m
S/No	Dual Active Ingredients (Dual AI)	Requirement	Standard Test Methods
i.	Deltamethrin content Chlorfenapyr content	2.1g/kg ± 25 % +5.0g/kg ± 25 %	333/LN/(M)/3, CIPAC Handbook M, p. 66, 2009 CIPAC 5291m
ii.	Alpha-cypermethrin content + Chlorfenapyr content	2.4 g/kg ± 25 % (100 mg/m2) Alpha-cypermethrin; for 100 denier yarn and 3.2 g/kg + 4.8 g/kg (200 mg/m2) Chlorfenapyr; for 100D	454/LN/M/2, CIPAC Handbook M, p. 40, 2009 CIPAC 5291m
iii.	Alpha-cypermethrin content +	120Denier - 5.5 g/kg (208 mg/m2) Alpha-cypermethrin;	As per WHO guideline; 2019

	Pyriproxyfen	150Denier - 5.0 g/kg (225 mg/m2) Alpha-cypermethrin. + 120Denier -5.5 g/kg (208 mg/m2) Pyriproxyfen 150Denier - 5.0 g/kg (225 mg/m2) Pyriproxyfen	As per WHO guideline; 2019
iv	Bifenthrin content + Chlorfenapyr content	120D - 7 g/kg (245 mg/m2) Bifenthrin. + 8 g/kg (280 mg/m2) Chlorfenapyr	As per WHO guideline; 2025 As per WHO guideline; 2025
https://extranet.who.int/prequal/vector-control-products/prequalified-product-list As per WHO (http://www.who.int/whopes/quality/) or any other internationally recognized body and their affiliated entities published specifications for public health pesticides for treated mosquito nets. As per WHO (https://www.who.int/publications/i/item/9789240051089) field trials for the Dual AI should be performed using both insecticide susceptible and resistant Anopheles populations by the medical research Institute.			

Table 19: specifications for combination nets with more than one material composition

Parameter	Requirement		Test methods
	Roof	Sides	
Fibre composition	Polyethylene	Polyester	ISO 1833-1 ISO 1833-2 ISO 1833-5 ISO 1833-11 ISO 1833-16 ISO 1833-23 ISO 1833-24 ISO 1833-25 ISO/TR 11827
Denier	Minimum 100	Minimum 75	ISO 2060
Mesh size	20 – 25 holes/cm^2	20 – 25 holes/cm^2	Annex F
Weight, g/m^2	40 ± 5	35 ± 5	ISO 3801
Bursting strength	400kPa	Roof: minimum 300 kPa Sides: minimum 350 kPa	ISO 13938
Shrinkage/expansion	≤10% ≤5%	≤10% ≤5%	ISO 5077 ISO 6330
Colour fastness to: Light Washing	 4 or better 4 or better		ISO 105-B01 ISO 105-B02 ISO 105-C10

Active ingredients, g/kg	Roof 100D - 4.0 g/kg (120 mg/m2) Deltamethrin. 25.0 g/kg (750 mg/m2) PBO	Sides 75D - 2.8 g/kg (84 mg/m2) Deltamethrin 100D - 2.1 g/kg (84 mg/m2) Deltamethrin 150D - 2.1 g/kg (84 mg/m2) Deltamethrin	As per WHO guidelines
Prequalified Vector Control Products | Page 2 | WHO - Prequalification of Medical Products (IVDs, Medicines, Vaccines and Immunization Devices, Vector Control) As per WHO (http://www.who.int/whopes/quality/) or any other internationally recognized body and their affiliated entities published specifications for public health pesticides for treated mosquito nets.			

Table 20: Rectangular Net Size dimensions

Width (cm)	Length (cm)	Height (cm)	Surface Area (m^2)
180	190	170	16.00
180	190	150	14.52

Table 21: Conical Net Size dimensions

Slant Height (cm)	Base circumference (cm)	Ring diameter (cm)	Surface Area (m^2)
250	850	60	13.24

Table 22: Colours

Light Blue
White
Green

Table 23: Design of the nets

Description	Requirement
Net attachment for rectangular Nets	6 Suspension loops (one at each of the four corners of the top panel and one equidistant at each of the two long sides)
Net attachment for Conical Nets	1. Stainless ring covered with rubber material 2. One suspension loop attached at the center of the ring
Hanging loop length	Minimum 80cm
Hanging loop Material	Polyethylene/Polyester material (material type and color to match netting material) with stitched edges
Number of vertical seams	One to four seams at the corner(s)
Length of vertical seams	All vertical seams should be of equal length

Table 24: insecticide impregnation

Description	Requirements
Technology	Treated with WHO PQT-VC recommended insecticide (see link to their website *www.who.int/pq-vector-control/en/)* incorporated/coated into netting material to ensure wash resistance of the insecticide for at least 20 washes
Active ingredient	Identity and Strength as recommended by WHO PQT-VC (see website www.who.int/*pq-vector-control*/en/)
Insecticidal effect before PCPB Registration	Net material must conserve ≥ 90% functional mortality of susceptible strains for Pyrethroid and PBO nets only Net material must conserve ≥ 90% functional mortality of susceptible and resistant strains for Dual Active Ingredients nets only

Table 25: bottom border fitting

Description	Requirements
Bottom border edge fitting	Self-binding
Bottom border edge finish	Self-binding selvedge or over-locking stitch
Stitching	Single Stitch using 100% polyethylene/polyester thread (threads must not break when pulled, seems to be tied in)

Table 26: labelling

Description	Requirements
Draft Labelling - front side of the label	Label to be wash resistant and be stitched into the vertical seam inside the net where the hood panel is attached to the body of the net. The label to contain the following information: 1. Distributed by MoH (Logo) 2. Name of supplier 3. Name and Country of manufacturer 4. Net dimensions in centimeters i.e., Width X Length X Height 4. Netting Material 5. Insecticide concentration (W/W) 6. Contract number and net batch number 7. Net Unique identifier 8. Month and year of manufacture and expiry
Draft Labelling - Back side of the label	Label to detail Pictorial instructions for care of the net (as per ISO 3758) with corresponding explanatory text. They must include: Wash gently Do not wash in hot water No bleach No Ironing No dry cleaning No tumble Additional text - " Dry in the Shade, away from direct Sunlight" to be included.
Feel of the net	Non – crease

B. INSECTICIDES FOR INDOOR RESIDUAL SPRAYING

Item	Prequalification and quality standard	Product specific specification	Packaging
Indoor Residual Spraying Insecticides/Product	The product must be registered and listed (https://www.pcpb.go.ke/public- health/) with the local pesticide control/ regulatory authority of Kenya, i.e. Pest Control Product Board (PCPB). Bidders should provide registration and renewal of registration certificates from the board.	Pirimiphos methyl 300g/L Clothianidin 500 g/kg + Deltamethrin 62.5 g/kg Clothiniadin 500 g/Kg Broflanilide 50% WP	All packaging to be labeled with: "GOK- MOH-NOT FOR SALE" Labeling should be in English and/ or Kiswahili, Direction of Use, PCPB Reg No Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture and expiry

C. LARVICIDES FOR LARVAL SOURCE MANAGEMENT

Item	Prequalification and quality standard	Product specific specification	Packaging
Larvicides	The product must be registered and listed (https://www.pcpb.go.ke/public- health/) with the local pesticide control/ regulatory authority of Kenya, i.e. Pest Control Product Board (PCPB). Bidders should provide registration, renewal of registration certificates from the board.	Pyriproxyfen 0.5%w/w Bacillus thuringiensis israelensis (Bti) Bacillus sphaericus (Bs)	All packaging to be labeled with: "GOK- MOH-NOT FOR SALE" Labeling should be in English and/ or Kiswahili, Direction of Use, PCPB Reg No Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture and expiry

D.SPATIAL REPELLANTS

Definition

A *spatial repellent* that passively emanates pyrethroid active ingredient to protect against exposure to mosquitoes, sandflies, and other insects in enclosed and semi-enclosed spaces.

Item	Prequalification and quality standard	Product specific specification	Packaging
SC JOHNSON GUARDIAN™	The product must be registered and listed (https://www.pcpb.go.ke/public- health/) with the local pesticide control/ regulatory authority of Kenya, i.e. Pest Control Product Board (PCPB). Bidders should provide registration and renewal of registration certificates from the board.	Mesh material enclosed in PET plastic frame. Mesh material is dosed with 2.5g transfluthrin Transfluthrin: CAS 118712-89-3 Passive emanation reliant solely on natural air movement for volatization and dispersal of AI from dosed surface into space without need for heat or electricity Reducing exposure for up to 1 year. Dimensions Individual Unit: 278x260x13mm Case (108 units): 456x285x460mm 0.06 m3 Pallet (16 cases plus Pallet) 1200x1000x1080mm 1.30 m3	The unit is individually packaged in multi-layer plastic film for shelf stability. Labeling is per GHS standard and is directly printed on the plastic film. 108 units packed per case

Item	Prequalification and quality standard	Product specific specification	Packaging
SC JOHNSON MOSQUITO SHIELD™	The product must be registered and listed (https://www.pcpb.go.ke/public- health/) with the local pesticide control/ regulatory authority of Kenya, i.e. Pest Control Product Board (PCPB). Bidders should provide registration and renewal of registration certificates from the board.	Technical specifications Plastic Sheet – approximately the size of A4 paper Plastic material is dosed with 110mg transfluthrin Transfluthrin: CAS 118712-89-3 Passive emanation reliant solely on natural air movement for volatization and dispersal of AI from dosed surface into space without need for heat or electricity Reducing exposure for up to 1 month Individually sealed unit for shelf stability of 4 years Dimensions Individual Unit: 215.9x158.75x.01mm Case (2000 units): 482.6x365.76x210.82mm 0.037 m3 Pallet (3048 cases plus Pallet) 1219.2x1016x1214.1mm 1.504 m3	The unit is individually sealed and labeled for shelf stability. Labeling is minimal safety information and use instructions and is directly printed on the plastic film. 2000 units packed per case

E. ENTOMOLOGICAL EQUIPMENT AND REAGENTS

HPT in this section:

1. Mosquito Light trap	13. Spectrophotometer	25. Microplate
2. Light trap charger	14. Peroxidase substrate kit	26. Bovine serum albumin
3. Rechargeable batteries	15. Goat anti bovine	27. Casein from bovine milk, technical grade (sigma)
4. Aspirators (bent)	16. Goat anticat	28. Phosphate buffered saline with tween pH7.4 (Sigma)
5. Propack Aspirators	17. Goat anti chicken	29.Sodium Hydroxide, Anhydrous, Sigma Ultra, >98%, Pellets [Honeywell]
6. Dippers	18. Goat antidog	30.Phenol Red Indicator, ACS Reagent [Fluka]
7. Larvae collection kits	19. Goat antigoat	31. Thimerosal >97% (HPLC) [Sigma]
8. Dissecting kits	20. Rabbit antigoat	32. Glycerol Molecular Biology Reagent, >99% [Sigma]
9.Petri dishes	21. Buffer solution	33. Trizma® Base, Primary Standard and Buffer, >99.9% (Titration), Crystalline [Sigma]
10. Dissecting microscope	22.pNPP Microwell tablets (Kpl)	34. Potassium Acetate, Reagent Plus®, >99.0% [Honeywell]
11. Bio-Rad gel Doc	23.IGEPAL	35. Ethanol, Pure Absolute, >99.8% (GC) [Riedel-De Haen]
12. PH meter	24. Tween 20	36. Sucrose, cell culture tested, insect cell culture tested, >99.5% [Sigma]
37.EDTA Disodium Salt Dihydrate, Reagent Grade, 98.5-101.5% (titration) [Sial]	49. UltraPure™ DNase/RNase-Free Distilled Water [Invitrogen]	61. Microtip
38. Sodium chloride ACS reagent >99.0% [Fluka]	50. Boric Acid, BioXtra, >99.5% [Sial]	62. Universal tip 2-200microlitres
39. Lauryl Sulfate Sodium Salt, for electrophoresis, >98.5% (GC) [Sigma]	51. Bromophenol Blue, Sodium Salt, A.C.S. Reagent [Sial]	63. Universal tip 50-1000microlitres
40. Agarose (for routine use) [Sigma]	52. Ficoll® PM 400 [Sial]	64. Square boat 7 ml
41. TaqMan® Gene Expression Master Mix, 1-Pack (1 x 5ml) [Applied Biosystems]	53. Ethidium Bromide	65. Square boat 100 ml
42. Alu I, Restriction Enzyme [Promega]	54. Nitrile gloves large	66. Square boat 250 ml
43. Lambda DNA [Promega]	55. Latex gloves large	67. Forceps
44. 100bp DNA Ladder [Promega]	56. Nitrile gloves medium	68. Microtube
45. dNTPs 100mM: dATP, dCTP, dGTP & dTTP [Promega]	57. Latex gloves medium	69. Centrifuge tube 15 ml
46. QPCR 96-Well Plates, Semi-Skirted [Agilent]	58. Nitrile gloves small	70. Centrifuge tube 50 ml

47. Optical caps (8x strip), for use with the Mx3000P & Mx3005P QPCR Systems. [Agilent]	59. Latex gloves small	71. Combitips
48. PCR Tube 0.2ml, Natural (Domed Cap) Bagged in 500s, Non-Sterile [Greiner]	60. Pipette 0.1-10microlitres	72.Hand towel
73. Autoclave indicator tape	85. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(GA) [Mwg]	97. Primer Sequence, Standard HPSF Quality at 0.20umol scale: MOUSTREV1 [Mwg]
74. Labelling tape	86. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(ME) [Mwg]	98. TaqMan MGB Probe, Large Scale: TaqMan-MGB_WT (5' VIC, 3' MGB) [Applied Biosystems]
75. Permanent marker	87. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(QD) [Mwg]	99. TaqMan MGB Probe, Large Scale: TaqMan-MGB_KdrW (5' 6FAM, 3' MGB) [Applied Biosystems]
76. Autoclave bag clear	88. Primer Sequence, Standard HPSF Quality at 0.20umol scale: 23A2_Universal [Mwg]	100. Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_reverse [Mwg]
77.Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(UN) [Mwg]	89. Primer Sequence, Standard HPSF Quality at 0.20umol scale: 27A2_2La [Mwg]	101. Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_forward [Mwg]
78. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(FUN) [Mwg]	90. Primer Sequence, Standard HPSF Quality at 0.20umol scale: DPCross5_2L+a [Mwg]	102. TaqMan MGB Probe, Large Scale: TaqMan-MGB_KdrE (5' 6FAM, 3' MGB) [Applied Biosystems]
79. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(VAN) [Mwg]	91. Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD1 [Mwg]	103.TaqMan MGB Probe, Large Scale: TaqMan-MGB_WT (5' VIC, 3' MGB) [Applied Biosystems]
80. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(RIV) [Mwg]	92. Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD2 [Mwg]	104. Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_forward2 [Mwg]
81. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(PAR) [Mwg]	93. Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD3 [Mwg]	105. Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_reverse2 [Mwg]
82. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(LEES) [Mwg]	94. Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD4 [Mwg]	106. TaqMan MGB Probe, Large Scale: ANGAM_ACE1-GLY-1 (5' VIC, 3' MGB) [Applied Biosystems]
83. Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(UN) [Mwg]	95. Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD5 [Mwg]	107. TaqMan MGB Probe, Large Scale: ANGAM_ACE1-GLY-2 (5' 6FAM, 3' MGB) [Applied Biosystems]
84.Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(AR) [Mwg]	96. Primer Sequence, Standard HPSF Quality at 0.20umol scale: MOUSTDIR1 [Mwg]	108.Primer Sequence, Standard HPSF Quality at 0.20umol scale: ANGAM_ACE1-GLY-1 [Mwg]
109. Primer Sequence, Standard HPSF Quality at 0.20umol scale: ANGAM_ACE1-GLY-2 [Mwg]	121.Single Channel Pipette- 2ml; Inaccuracy 0.8%, impression 1.2%	133. WHO insecticide impregnated papers
110. Eppendorf 5810R Bundle	122.Single Channel Pipette- 10ml; Inaccuracy 0.8%, impression 1.2%	134. WHO tubes for the assay with accompanying copper and silver clips
111. Insectary Chamber	123.Single Channel Pipette- 20ml; Inaccuracy 0.6%, impression 0.5%	135. Hudson pump

112. Taqman MGB Probe WT Genomics	124.Single Channel Pipette-100ml; Inaccuracy 0.5%, impression 0.3%	136. Motorised knapsack 137. Barcode printer 138. Cryogenic Labels and Thermal Transfer Ribbons:
113. Taqman MGB Probe KdrW Genomics	125. Single Channel Pipette-200ml; Inaccuracy 0.4%, impression 0.2%	137. Taq Dna Polymerase 100pmol
114.Taqman MGB Probe KdrE Genomics	126. Single Channel Pipette-1000ml; (1 ml) Inaccuracy 0.3%, impression 0.2%	138. Syber green
115. Primer kdr-forward Genomics	127. multi-channel pipette 10ml	139. MgCl
116.Primer kdr-reverse Genomics	128.Multi-channel pipette 50ml	140. Ready to use and load PCR master mix
117. Microplate ELISA Washer machine	129.Multi-channel pipette 100ml	141. 5x Green Go Taq flexi buffe
118. PCR Workstation	130.Multi-channel pipette 300ml	142. Silica Gel - Indicating Silica Gel 5lb Can, Blue
119. Eppendorf Mini spin Plus (1.5ml centrifuge tubes)	131. Peet Grady Chamber	143. ETHANOL, ABSOLUTE molecular grade 4L
120.Smart spin microcentrifuge	132. Insectary Chamber	144. Gel Loading Buffer, 10X
145. Hot Start Taq 2X Master Mix	146. Primers St-F - CGTATCTTTCCTCGCATCC A, IDT	147. Primers U5.8S-F - ATCACTCGGCTCATGGATCG, IDT
148. Primers UD2-R - GCACTATCAAGCAACACGACT , IDT	149. Primers COI - Forward 5_-TTG ATT TTT TGGTCA TCC AGA AGT-3, IDT	150. Primers COI -Reverse 5-TAG AGC TTA AAT TCA TTG CAC TAA TC-3, IDT
151. Primers COII -Forward 5_-ATG GCA ACA TGA GCA AATT-3, IDT	152. Primers COII - Reverse 5_-CCA CCC TTT CTG AAC ATT GAC C-3, IDT	153. LAMP (An. Stephensi) Primers: F3 - ATTGCACGGGGACTTCCA
154. LAMP (An. Stephensi) Primers: B3- GCCTACAGACTCCACTGTCA	155. LAMP (An. Stephensi) Primers: FIP - CGACTGCAACTGTATGCGA GGACGGGTCGAGTAAC ACTTGC	156. LAMP (An. Stephensi) Primers: BIP - CCGTGTGGGTGAGTGAGGTTAGAATGA TGCGACGG GAGAAG
157. LAMP (An. Stephensi) Primers: LF - AAGATACGAGCGCGTTGGG	158. Plasmodium spp - Plasmo1-F - GTTAAGGGAGTGAAGACG ATCAGA	159. Plasmodium spp - Plasmo2-R - AACCCAAAGACTTTGATTTCTCATAA
160. Plasmodium spp - Plasprobe VIC-TCGTAATCTTAACCATAAAC - MGBNFQ	161. P. falciparum - Fal-F - CCGACTAGGTGTTGGATGA AAGTGTTA A	162. P. falciparum – Falciprobeb - FAM-TCTAAAAGTCACCTCGAAAGA-MGBNFQ
163. P. malariae - Mal-F - CCGACTAGGTGTTGGATGATA GAGTAA A	164. P. malariae – Malaprobe - FAM-CTATCTAAAAGAAACACTC AT-MGBNFQ	165. P. malariae – Ova-F - CCGACTAGGTTTTGGATGAAAGATTTTT
166. P. ovale – Ovaprobea - VIC-CGAAAGGAATTTTCTTATT-MGBNFQ	167. P. vivax – CCGACTAGGCTTTGGATGA AAGATTITA	168. P. Vivax - Viv-F - CCGACTAGGCTTTGGATGAAAGATTITA
169. P. Vivax – Vivprobe - VIC-	170. Probe WT.1 2623029 (VIC	171. Probe Kdr E.1 2623031 (6-FAM

AGCAATCTAAGAATAAACTCC GAAGAG AAAATTCT- TAMRA	MGBNFQ) - 5'-CTT ACG ACT AAA TTT C-3'	MGBFQ) - 5'ACG ACT GAA TTT C -3'
172. Probe Kdr WT.1 2623033.1 (6-FAM MGBNFQ) - 5'-ACG ACA AAA TTT C -3'	173. KdrReverse1 (Scale of synthesis 200nmol) - 5'-CGA TCT TGG TCC ATG TTA ATT TGC A -3'	174. KdrForward1 (Scale of synthesis 200nmol) - 5'-CAT TTT TCT TGG CCA CTG TAG TGA T-3'
175. PBO papers- WHO insecticide Resistance papers	176. Control in olive oil (OP/C control)-WHO insecticide Resistance papers	177. Permethrin 0.75% - WHO insecticide Resistance papers
178. Deltamethrin 0.05%- WHO insecticide Resistance papers	179. Control in silicon oil (PY control) - WHO insecticide Resistance papers	180. Insecticide Impregnated Papers, Pirimiphos-methyl, 0.25%
181. Insecticide Impregnated Papers, Alpha-Cypermethrin 0.05%	182. Technical grade insecticide - Neonicotinoids; Clothianidin	183. Technical grade insecticide - Pyrroles; Chlorfenapyr
184. Technical grade insecticide - Meta-diamides; Broflanilide	185. Technical grade insecticide - Pyrethroids; Deltamethrin	186. Technical grade insecticide - Organophosphates; Pirimiphos-methyl
187. Technical grade insecticide - Pyrethroids; Permethrin	188. Technical grade insecticide - Pyrethroids; Alphacypermethrin	189. UV Light Traps - Miniature backlight trap (UV light trap) Model 912. John W.Hock company, Gainesville, Florida USA
190. UV Light Traps Batteries - Model PS-12120 F2 battery,Voltage: 12 Volt Capacity: 12.0 Amp Hours	191. Battery Chargers - Universal Automatic Battery Charger, Model: 2.70, input90-240 VAC, output: 5.0 Amps, 12 Volt, John W. Hock	192. Hot plate and magnetic stirrer - COLE-PARMER_Stirrer/Hot Plate 10inX10in, 220V
193. Oxford Nanopore Technologies MinION Mk1B device	194. MiniPCR® mini16X thermal cycler (SKU: QP-1016-16)	195. Bloodmeal Primers- UnRev 1025 - ggttg[t/g]cctccaattcatgtta
196. Bloodmeal Primers- Pig573F - cctcgcagccgtacatctc	197. Bloodmeal Primers- Human741F - ggcttacttctcttcattctctcct	198. Bloodmeal Primers- Goat894F - cctaatcttagtacttgtacccttcctc
199. Bloodmeal Primers- Dog368F - ggaattgtactattattcgcaaccat	200. Bloodmeal Primers- Cow121F - catcggcacaaatttagtcg	201. Barcode printer
202. Cryogenic Labels and Thermal Transfer Ribbons		

Item	Prequalification and quality standard	Product specific specification	Packaging
Mosquito Light trap	KEBS/ Relevant ISO standard	Trap Assembly with light, motor and fan, Lid, Collection Cup, Power Cable, Requires a 6-volt, 12-amp DC battery, with Air Gate (standard model)	All packaging to be labeled with: "GOK-MOH- Not for Sale" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture
Light Trap Charger	KEBS/ Relevant ISO standard	Automatic charger for two 6 V batteries, input of 220 AC, 50/60Hz.	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Rechargeable Batteries	KEBS/ Relevant ISO standard	Sealed, Gelled-Electrolyte Battery, 6 V, 20 Amp/Hrs.	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Aspirators (Bent)	KEBS/ Relevant ISO standard	Mouth Aspirator with 12-inch polycarbonate plastic tube, Collection Screen, Latex Rubber Tubing, Polycarbonate Mouthpiece	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Prokopack Aspirators	KEBS/ Relevant ISO standard	Aspirator unit complete with switch and 13' (4m) of 16-ga copper stranded double insulated power cord with alligator clips, 5 collection cups, regular mesh stainless steel, with lids, 12-volt 12-amp hour gelled electrolyte battery, 5 amps/hr universal and automatic battery charger. Input 100-240 VAC, 50/60 Hz, Adjustable backpack with separate compartments for collection cups and battery, Extension pole adjustable from 4' to 8' (1.2-2.4 m)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Dippers	KEBS/ Relevant ISO standard	Plastic white cup (500ml) and wood stick (1 meter long)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture
Larvae Collection Kits	KEBS/ Relevant ISO standard	Dipper with telescoping handle -1, sieve set for debris separation and larvae-3, concentration, 250 ml sample jars – 2, permanent marker pen (wipes clean with isopropyl alcohol) -1500 ml wash bottle -1, waterproof flashlight -1, waterproof notepad – 1, large aquatic pipette (50 ml) -1, (3) small aquatic pipettes (3 ml) -3, loves -2 (heavy duty)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture
Dissecting Kits	KEBS/ Relevant ISO standard	Forcep pointed, Forcep featherlight, Magnifier, handheld 2x magnification, 35mm diameter, Magnifier, 10x x 21mm folding hand lens, all metal, Scalpel handle, Scalpel blade, Scissors iris, sharp/sharp, Scissors blunt/sharp, 125cm, 3 assorted Needle/Probe/Seeker, Wallet, zip type 14 loop	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Petri dishes	KEBS/ Relevant ISO standard	Type; glass, Diameter 60mm, height 15mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Bio-Rad Gel Doc	KEBS/ Relevant ISO standard	Bio-Rad Gel Doc	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Dissecting microscope	KEBS/ Relevant ISO standard	Zoom stereo binocular dissecting microscope 6.7X~ 45X stereoscopic microscope Binocular head, 45° inclined, 360°rotatable, both two tube diopter adjustment(±5) Trinocular head, 45° inclined, 360°rotatable, both two tube diopter adjustment(±5) 0.5X/165mm; 2X/30mm; 0.67X~4.5X; 6.7: 1 WF10X/20mm, WF15X/16mm, WF20X/12mm Adopt diopter adjustment eyepiece, ensure the different vision of users to get a clear image. 100mm, use optional auxiliary lens, the working distance can extend to 26mm~287mm, to create enough space for the user. Standard magnification 6.7X~ 45X Use optional auxiliary lens, the magnification can be 2X~225X. 54mm-76mm; 0.5X, 2X Top & bottom LED illuminator, uniform lighting, and separate control. Option1: focus arm, two focusing knobs are with tension adjustable, adjust range 50mm Option2: industry bound focus arm Dinclined base, vertical type Base with black and white sheeting and ϕ95mm job board Vertical height: 300mm; Body aperture: ϕ76mm; Base size: 205x275x25mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
PH meter	KEBS/ Relevant ISO standard	ACCURACY: ±0.02 pH, calibrates 2.00 - 16.00 pH, SE220 pH probe. Two point calibration Feature; Fast easy to read results with large digital LED readout Automatic calibration Resistant to shocks and knocks. Extreme accuracy to ±0.02 pH and extended range (-2.00 pH to 16.00 pH) Lightweight and portable Easy measurement: just place the probe in the sample, gently stir and wait for the reading to stabilize Simple push button, automatic two-point calibration for increased accuracy Gel-filled, double junction lab grade pH electrode for low maintenance and high performance with a screw on cap to ensure proper storage Rugged stainless temperature probe 3 feet probe cables for extra flexibility when testing Auto shut off and low power demand with approx. 300 hours of continuous use (battery included)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Model, and serial number
Spectrophotometer	KEBS/ Relevant ISO standard	NanoDrop One spectrophotometer	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Model, and serial number
Peroxidase substrate kit	KEBS/ Relevant ISO standard	ABTS 2-Component Microwell Peroxidase Substrate Kit	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Goat anti bovine	KEBS/ Relevant ISO standard	Goat anti-Bovine, IgG (H+L), HRP	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Goat anticat	KEBS/ Relevant ISO standard	Goat anti-Cat, IgG (H+L), HRP	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Goat antichicken	KEBS/ Relevant ISO standard	Goat anti-Chicken, IgG (H+L), HRP	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Goat antidog	KEBS/ Relevant ISO standard	Goat anti-Dog, IgG (H+L), HRP	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Goat antigoat	KEBS/ Relevant ISO standard	Rabbit anti-Goat, IgG (H+L), HRP	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Rabbit antigoat	KEBS/ Relevant ISO standard	Goat anti-Human IgG (H&L), HRP	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Buffer solution	KEBS/ Relevant ISO standard	DEA Buffer Solution	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
pNPP Microwell Tablets	KEBS/ Relevant ISO standard	pNPP Microwell Tablets	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
IGEPAL	KEBS/ Relevant ISO standard	IGEPAL CA-630 viscous liquid	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Tween20,	KEBS/ Relevant ISO standard	Tween 20, viscous liquid	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Microplate	KEBS/ Relevant ISO standard	Microplate, Flexible, 96-Well Round Bottom, 250ul, PVC, Non-Sterile	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Bovine serum albumin	KEBS/ Relevant ISO standard	Albumin from Bovine Serum (BSA) pH ~7 (1% (w/v) inH2O)>96% (agarose gel electrophoresis) lyophilized powder	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Casein from bovine milk, technical grade	KEBS/ Relevant ISO standard	Casein from bovine milk, technical grade	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Phosphate Buffered Saline with Tween 20, pH 7.4	KEBS/ Relevant ISO standard	Phosphate Buffered Saline with Tween 20, pH 7.4	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Sodium Hydroxide, Anhydrous, Sigma Ultra, >98%, Pellets	KEBS/ Relevant ISO standard	Sodium Hydroxide, Anhydrous, Sigma Ultra, >98%, Pellets	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Phenol Red Indicator, ACS Reagent	KEBS/ Relevant ISO standard	Phenol Red Indicator, ACS Reagent	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Thimerosal >97% (HPLC)	KEBS/ Relevant ISO standard	Thimerosal >97% (HPLC)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Glycerol Molecular Biology Reagent, >99%	KEBS/ Relevant ISO standard	Glycerol Molecular Biology Reagent, >99%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Trizma® Base, Primary Standard and Buffer, >99.9% (Titration), Crystalline	KEBS/ Relevant ISO standard	Trizma® Base, Primary Standard and Buffer, >99.9% (Titration), Crystalline	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Potassium Acetate, Reagent Plus®, >99.0%	KEBS/ Relevant ISO standard	Potassium Acetate, Reagent Plus®, >99.0%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Ethanol, Pure Absolute, >99.8% (GC)	KEBS/ Relevant ISO standard	Ethanol, Pure Absolute, >99.8% (GC)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Sucrose, cell culture tested, insect cell culture tested, >99.5%	KEBS/ Relevant ISO standard	Sucrose, cell culture tested, insect cell culture tested, >99.5%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
EDTA Disodium Salt Dihydrate, Reagent Grade, 98.5-101.5% (titration)	KEBS/ Relevant ISO standard	EDTA Disodium Salt Dihydrate, Reagent Grade, 98.5-101.5% (titration)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Sodium chloride ACS reagent >99.0%	KEBS/ Relevant ISO standard	Sodium chloride ACS reagent >99.0%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Lauryl Sulfate Sodium Salt, for electrophoresis, >98.5% (GC)	KEBS/ Relevant ISO standard	Lauryl Sulfate Sodium Salt, for electrophoresis, >98.5% (GC)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Agarose (for routine use)	KEBS/ Relevant ISO standard	Agarose (for routine use)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
TaqMan® Gene Expression Master Mix, 1-Pack (1 x 5ml)	KEBS/ Relevant ISO standard	TaqMan® Gene Expression Master Mix, 1-Pack (1 x 5ml)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Alu I, Restriction Enzyme	KEBS/ Relevant ISO standard	Alu I, Restriction Enzyme	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Lambda DNA	KEBS/	Lambda DNA	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE"

Item	Prequalification and quality standard	Product specific specification	Packaging
	Relevant ISO standard		Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
100bp DNA Ladder	KEBS/ Relevant ISO standard	100bp DNA Ladder	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
dNTPs 100mM: dATP, dCTP, dGTP & dTTP	KEBS/ Relevant ISO standard	dNTPs 100mM: dATP, dCTP, dGTP & dTTP	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
QPCR 96-Well Plates, Semi-Skirted	KEBS/ Relevant ISO standard	QPCR 96-Well Plates, Semi-Skirted	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Optical caps (8x strip), for use with the Mx3000P & Mx3005P QPCR Systems.	KEBS/ Relevant ISO standard	Optical caps (8x strip), for use with the Mx3000P & Mx3005P QPCR Systems.	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
PCR Tube 0.2ml, Natural (Domed Cap) Bagged in 500s, non-Sterile	KEBS/ Relevant ISO standard	PCR Tube 0.2ml, Natural (Domed Cap) Bagged in 500s, non-sterile	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
UltraPure™ DNase/RNase-Free Distilled Water	KEBS/ Relevant ISO standard	UltraPure™ DNase/RNase-Free Distilled Water	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of

Item	Prequalification and quality standard	Product specific specification	Packaging
			Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Boric Acid, BioXtra, >99.5%	KEBS/ Relevant ISO standard	Boric Acid, BioXtra, >99.5%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Bromophenol Blue, Sodium Salt, A.C.S. Reagent	KEBS/ Relevant ISO standard	Bromophenol Blue, Sodium Salt, A.C.S. Reagent	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Ficoll® PM 400	KEBS/ Relevant ISO standard	Ficoll® PM 400	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Ethidium Bromide	KEBS/ Relevant ISO standard	UltraPure™ Ethidium Bromide, 0.625 mg/mL	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Nitrile gloves Large	KEBS/ Relevant ISO standard	Gloves, Nitrile Examination, Textured, Powder- Free, Blue, Large	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Latex gloves large	KEBS/ Relevant ISO standard	Gloves, Low Protein Latex, Textured Powder Free, Large	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Nitrile gloves medium	KEBS/ Relevant ISO standard	Gloves, Nitrile Examination, Textured, Powder- Free, Blue, Medium	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of

Item	Prequalification and quality standard	Product specific specification	Packaging
			Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Latex gloves medium	KEBS/ Relevant ISO standard	Gloves, Low Protein Latex, Textured Powder Free, Medium	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Nitrile gloves small	KEBS/ Relevant ISO standard	Gloves, Nitrile Examination, Textured, Powder- Free, Blue, Small	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Latex gloves small	KEBS/ Relevant ISO standard	Gloves, Low Protein Latex, Textured Powder Free, Small	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Pipette 0.1-10microlitres	KEBS/ Relevant ISO standard	Pipette tips Easypack D10, 0.1-10ul	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture
Microtip	KEBS/ Relevant ISO standard	Micro Tip, 0.1-10ul, Loose, Non-Sterile, Non-Filter	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture a
Universal tip 2-200 microlitres	KEBS/ Relevant ISO standard	Tip Universal Standard 2-200µl Clear Bagged	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture.

Item	Prequalification and quality standard	Product specific specification	Packaging
Universal tip 50-1000 microlitres	KEBS/ Relevant ISO standard	Tip Universal Standard 50-1000µl Clear Bagged	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture
Square boat 7 ml	KEBS/ Relevant ISO standard	Square Weigh Boat, 7ml, White, 44 x 44mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of manufacture
Square boat 100 ml	KEBS/ Relevant ISO standard	Square Weigh Boat, 100ml, White, 80 x 80mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Square boat 250 ml	KEBS/ Relevant ISO standard	Square Weigh Boat, 250ml, White, 140 x 140mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Forceps	KEBS/ Relevant ISO standard	Forceps 18/10, Anti-Magnetic, Stainless Steel Sharp Straight Point, Length 105 mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Microtube	KEBS/ Relevant ISO standard	Micro Tube with attached Push Cap 1.5ml Neutral, New Improved Cap	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Centrifuge tube 15 ml	KEBS/ Relevant ISO standard	Centrifuge Tube, 15ml, Polypropylene, Graduated, Racked in 50s, Sterile, Blue Cap, DNAse/RNAse, Pyrogen Free, Head Diameter 17mm, Height 120mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Centrifuge tube 50ml	KEBS/ Relevant ISO standard	Centrifuge Tube, 50ml, Polypropylene, Conical Base Graduated, Sterile, Bagged in 20s, Blue Cap, DNAse/RNAse, Pyrogen Free, Head Diameter 30mm, Height115mm	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Combitips	KEBS/ Relevant ISO standard	Combitips advanced®, 2.5ml [Eppendorf]	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Hand towel	KEBS/ Relevant ISO standard	Classic Comfort Premier paper Hand Towel ZZ Fold, Twin-Ply 23x23cm, Pack of 200 Sheets	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Autoclave indicator tape	KEBS/ Relevant ISO standard	Autoclave Indicator Tape, Roll 18mm x 55m	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Labelling tape	KEBS/ Relevant ISO standard	Labelling Tape, Red, 25.4mm x 12.7m, Temperature Resistant from -45 to +121°C, with Removable Adhesive, Oil, Water and Acid Resistant	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Permanent marker	KEBS/ Relevant ISO standard	Sharpie Permanent Marker Fine Tip Black, 1.5mm Line Width	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Autoclave bag clear	KEBS/	Autoclave Bag, Clear Polypropylene, Biohazard Symbol,	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE"

Item	Prequalification and quality standard	Product specific specification	Packaging
	Relevant ISO standard	50um/200-gauge Thickness, 610 x 810mm	Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An. fun (UN)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(UN)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An. Fun (FUN)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(FUN)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20 umol scale: An. fun (VAN)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An. fun (VAN)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(RIV)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(RIV)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(PAR)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(PAR)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(LEES)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.fun(LEES)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(UN)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(UN)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(AR)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(AR)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(GA)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(GA)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(ME)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(ME)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(QD)	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: An.gamb(QD)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: 23A2_Universal	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: 23A2_Universal	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: 27A2_2La	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: 27A2_2La	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Primer Sequence, Standard HPSF Quality at 0.20umol scale: DPCross5_2L+a	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: DPCross5_2L+a	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD1	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD1	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD2	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD2	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD3	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD3	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD4	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD4	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD5	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: AgD5	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Primer Sequence, Standard HPSF Quality at 0.20umol scale: MOUSTDIR1	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: MOUSTDIR1	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: MOUSTREV1	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: MOUSTREV1	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
TaqMan MGB Probe, Large Scale: TaqMan-MGB_WT (5' VIC, 3' MGB)	KEBS/ Relevant ISO standard	TaqMan MGB Probe, Large Scale: TaqMan-MGB_WT (5' VIC, 3' MGB)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
TaqMan MGB Probe, Large Scale: TaqMan-MGB_KdrW (5' 6FAM, 3' MGB)	KEBS/ Relevant ISO standard	TaqMan MGB Probe, Large Scale: TaqMan-MGB_KdrW (5' 6FAM, 3' MGB)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_reverse	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_reverse	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_forward	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_forward	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
TaqMan MGB Probe, Large Scale: TaqMan-MGB_KdrE (5' 6FAM, 3' MGB)	KEBS/ Relevant ISO standard	TaqMan MGB Probe, Large Scale: TaqMan-MGB_KdrE (5' 6FAM, 3' MGB)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
TaqMan MGB Probe, Large Scale: TaqMan-MGB_WT (5' VIC, 3' MGB)	KEBS/ Relevant ISO standard	TaqMan MGB Probe, Large Scale: TaqMan-MGB_WT (5' VIC, 3' MGB)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_forward2	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_forward2	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_reverse2	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: Kdr_reverse2	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
TaqMan MGB Probe, Large Scale: ANGAM_ACE1-GLY-1 (5' VIC, 3' MGB)	KEBS/ Relevant ISO standard	TaqMan MGB Probe, Large Scale: ANGAM_ACE1-GLY-1 (5' VIC, 3' MGB)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
TaqMan MGB Probe, Large Scale: ANGAM_ACE1-GLY-2 (5' 6FAM, 3' MGB)	KEBS/ Relevant ISO standard	TaqMan MGB Probe, Large Scale: ANGAM_ACE1-GLY-2 (5' 6FAM, 3' MGB)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer Sequence, Standard HPSF Quality at 0.20umol scale: ANGAM_ACE1-GLY-1	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: ANGAM_ACE1-GLY-1	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Primer Sequence, Standard HPSF Quality at 0.20umol scale: ANGAM_ACE1-GLY-2	KEBS/ Relevant ISO standard	Primer Sequence, Standard HPSF Quality at 0.20umol scale: ANGAM_ACE1-GLY-2	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Probe	KEBS/ Relevant ISO standard	Probe WT.1 2623029 (VIC MGBNFQ) - 5'-CTT ACG ACT AAA TTT C-3'	Probe Kdr E.1 2623031 (6-FAM MGBFQ) - 5'ACG ACT GAA TTT C -3'
Probe	KEBS/ Relevant ISO standard	Probe Kdr WT.1 2623033.1 (6-FAM MGBNFQ) - 5'-ACG ACA AAA TTT C -3'	Probe Kdr WT.1 2623033.1 (6-FAM MGBNFQ) - 5'-ACG ACA AAA TTT C -3'
Probe	KEBS/ Relevant ISO standard	Probe Kdr E.1 2623031 (6-FAM MGBFQ) - 5'ACG ACT GAA TTT C -3'	Probe Kdr E.1 2623031 (6-FAM MGBFQ) - 5'ACG ACT GAA TTT C -3'
Probe	KEBS/ Relevant ISO standard	KdrReverse1 (Scale of synthesis 200nmol) - 5'-CGA TCT TGG TCC ATG TTA ATT TGC A -3'	KdrReverse1 (Scale of synthesis 200nmol) - 5'-CGA TCT TGG TCC ATG TTA ATT TGC A -3'
Probe	KEBS/ Relevant ISO standard	KdrForward1 (Scale of synthesis 200nmol) - 5'-CAT TTT TCT TGG CCA CTG TAG TGA T-3'	KdrForward1 (Scale of synthesis 200nmol) - 5'-CAT TTT TCT TGG CCA CTG TAG TGA T-3'
Eppendorf 5810R Bundle	KEBS/ Relevant ISO standard	Eppendorf 5810R Bundle (includes 1 x 5811 000 061 5810R Centrifuge; 1 x 5810 709 008 A-4-62 Swing-Out Rotor 4 x 250ml; 2 x 5810 755 000 Bucket for9 x 15ml centrifuge tube (set of 2); 2 x 5810 758009 Bucket for 3 x 50ml centrifuge tube (set of 2) [Eppendorf]	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Insectary Chamber	KEBS/ Relevant ISO standard	Exterior Dimension (W*D*H); 42"x33"x 80"1040 x 825 x 2020 (mm), Light Intensities (6in. from lamp); as below@ 25°C, Electrical service; 220/240-1Ø-50Hz120-1Ø-60HZ; Weight; 795 lb360 Kg	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Taqman MGB probe WT Genomics	KEBS/ Relevant ISO standard	5'-CTTACGACTAAATTTC-3'	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Taqman MGB probe KdrW Genomics	KEBS/ Relevant ISO standard	5'-ACGACAAAATTTC-3'	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Taqman MGB probe KdrE Genomics	KEBS/ Relevant ISO standard	5'-ACGACTGAATTTC-3'	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer kdr-forward Genomics	KEBS/ Relevant ISO standard	5'-CATTTTTCTTGGCCACTGTAGTGAT-3'	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Primer kdr-reverse Genomics	KEBS/ Relevant ISO standard	5'-CGATCTTGGTCCATGTTAATTTGCA-3'	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Microplate ELISA Washer machine	KEBS/ Relevant ISO standard	wash head; two 1x8, two 1x12, 2x8 cell wash head, Wash bottles ;3 bottles (two 4 liter and one 2 liter), Plate format; 96, 384, cell washing -yes, robot formatting -Yes	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
PCR Workstation	KEBS/ Relevant ISO standard	-PCR UV Chamber with HEPA Filter, AC/DC input 220V AC -UK plug	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Eppendorf Mini spin Plus(1.5ml centrifuge tubes)	KEBS/ Relevant ISO standard	Rotor; 12 x 1.5 ml / 2.0 ml, Max. speed; 14,500 RPM, Max. RCF 14,100 x g, Electronic Timer; 15 seconds to 99 minutes with continuous function, Acceleration time; 13 seconds, Braking time; 12 seconds Voltage; 110V / 230V, Frequency; 50/60 Hz, Weight; 4.3 kg / 9.5 lbs., Dimensions; 119h x 226w x 239d mm / 4.7h x 8.9w x 9.4d inches	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Smart spin microcentrifuge	KEBS/ Relevant ISO standard	Time from 1sec-999min, Multi-Rotor for tubes and Strips, LCD display of time and speed, Double capacity of minicentrifuge, Adjustable speed from 1000rpm-12000rpm, Operating Temp : 5°C-40°C, Capacity:12X1.5ml / 2.0ml tubes; 32X0.2ml PCR tubes, 4 XPCR strips (8X0.2 ml), 4X PCR strips (12X0.2ml)	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Single Channel Pipette-2 ⎍l; Inaccuracy 0.8%, impression 1.2%	KEBS/ Relevant ISO standard	Micropipette, Single Channel Pipette- 2 ⎍l; Inaccuracy 0.8%, impression 1.2%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Single Channel Pipette-10 ⎍l; Inaccuracy 0.8%, impression 1.2%	KEBS/ Relevant ISO standard	Micropipette, Single Channel Pipette-10 ⎍l; Inaccuracy 0.8%, impression 1.2%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Single Channel Pipette-20 ⎍l; Inaccuracy 0.6%, impression 0.5%	KEBS/ Relevant ISO standard	Micropipette, Single Channel Pipette-20 ⎍l; Inaccuracy 0.6%, impression 0.5%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Single Channel Pipette-100 µl; Inaccuracy 0.5%, impression 0.3%	KEBS/ Relevant ISO standard	Micropipette, Single Channel Pipette-100 µl; Inaccuracy 0.5%, impression 0.3%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture and expiry.
Single Channel Pipette-200 µl; Inaccuracy 0.4%, impression 0.2%	KEBS/ Relevant ISO standard	Micropipette, Single Channel Pipette-200 µl; Inaccuracy 0.4%, impression 0.2%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture and expiry.
Single Channel Pipette-1000 µl; (1 ml) Inaccuracy 0.3%, impression 0.2%	KEBS/ Relevant ISO standard	Micropipette, Single Channel Pipette-1000 µl (1 ml) ; Inaccuracy 0.3%, impression 0.2%	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
multi-channel pipette 10 µl	KEBS/ Relevant ISO standard	Micropipette, multi-channel pipette 10 µl	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Multi-channel pipette 50 µl	KEBS/ Relevant ISO standard	Micropipette, multi-channel pipette 50 µl	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Multi-channel pipette 100 µl	KEBS/ Relevant ISO standard	Micropipette, multi-channel pipette 100 µl	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
multi-channel pipette 300 µl	KEBS/ Relevant ISO standard	Micropipette, multi-channel pipette 300 µl	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.

Item	Prequalification and quality standard	Product specific specification	Packaging
Peet Grady Chamber	KEBS/ Relevant ISO standard	Internal measurement of 180 cm x 180 cm x 180 cm, smooth internal wall panels made of either stainless steel, aluminum, glass or other suitable materials to ensure easy cleaning of insecticide or solvent residues, A tight-fitting entrance door approximately 165 x 90 cm, fluorescent light, as well as an exhaust fan in the ceiling to remove insecticide vapor after each test, 4 hooks fitted in the corners of the ceiling about 20 cm from the side walls to suspend test cages, a 30-cm diameter fan with a flat dish of 30 cm diameter, 2 glass observation windows and 4 mosquito introduction and or utility windows	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Insectary Chamber	KEBS/ Relevant ISO standard	Exterior Dimension (W*D*H); 42"x33"x 80"1040 x 825 x 2020 (mm), Light Intensities (6in. from lamp); as below@ 25°C, Electrical service; 220/240-1Ø-50Hz120-1Ø-60HZ; Weight; 795 lb360 Kg	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Piperonyl Butoxide (PBO)	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Permethrin 0.75%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
DDT 4.0%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Deltamethrin 0.05%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Pirimiphos-methyl, 0.25%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Alpha-Cypermethrin 0.05%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Diedrin 0.4%,	WHOPES	WHO- 8 insecticide Impregnated papers per Box	Pack of 8

Item	Prequalification and quality standard	Product specific specification	Packaging
	approved		
Diedrin ,4%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Control in Risella oil (OC control)	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Malathion 5.0%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Fenitrothion 1.0%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Bendiocarb 0.1%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Control in olive oil (OP/C control)	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Permethrin 0.75%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Lambdacyphalothrin0.05%	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
Control in silicon oil (PY control)	WHOPES approved	WHO- 8 insecticide Impregnated papers per Box	Pack of 8
WHO tubes for the assay	WHOPES approved	One red plastic tube (exposure), green dot tube (holding) each of size 125 mm in length and 44 mm in diameter) with each tube fitted at one end with 16-mesh gauze, slide units each fitted with a screw cap on both sides and a 15 mm diameter filling hole	Pieces
Metal clip(copper) for use in the WHO tubes	WHOPES approved	Copper 44mm diameter	Pieces
Metal clip(silver) for use in the WHO tubes	WHOPES approved	Silver 44mm diameter	Pieces

Item	Prequalification and quality standard	Product specific specification	Packaging
Hudson Pump (Capacity 8L)	KEBS/ Relevant ISO standard	Discharge of the nozzle: Using conventional Teejet 8002-E nozzle, 800 ml / min or 950 ml / min. Pump pressure: Greater than 55 pounds / in3. Operator speed: This has to adjust to the discharge of the nozzle, and the operator must measure their steps depending on the time to cover the area of the hatchery to be treated. capacity: 8 liters	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Motorized Knapsack (capacity 12 L)	KEBS/ Relevant ISO standard	Discharge calibration: 1000 ml / min. Download: 12 liters in 12 minutes. Operator speed: Must cover 1200 m2 in 12 minutes, adjust the steps to the discharge of the nozzle. Width of the strip: 5 m to the left and 5 m to the right. Coverage of the strip: 1200 m2	All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English Product should be labeled with: Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry.
Indoor Residual Spraying Insecticides/Product	The product must be registered and listed (https://www.pcpb.go.ke/public-health/) with the local pesticide control/ regulatory authority of Kenya, i.e. Pest Control Product Board (PCPB). Bidders should provide registration and renewal of registration certificates from the board.		All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English and/ or Kiswahili, Direction of Use, PCPB Reg No Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture, and expiry
Larvicides	The product must be registered and listed (https://www.pcpb.go.ke/public-health/) with the local pesticide control/ regulatory authority of Kenya, i.e. Pest Control Product Board (PCPB). Bidders should provide registration, renewal of registration certificates from the board.		All packaging to be labeled with: "GOK-MOH-NOT FOR SALE" Labeling should be in English and/ or Kiswahili, Direction of Use, PCPB Reg No Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Model Number or Name, Batch No, Date of Manufacture and expiry
Master mix for PCR	KEBS/ Relevant ISO standard	Hot Start Taq 2X Master Mix	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry

Item	Prequalification and quality standard	Product specific specification	Packaging
Primer Sequence	KEBS/ Relevant ISO standard	Primers St-F - CGTATCTTTCCTCGCATCCA, IDT	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Primer Sequence	KEBS/ Relevant ISO standard	Primers U5.8S-F - ATCACTCGGCTCATGGATCG, IDT	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Primer Sequence	KEBS/ Relevant ISO standard	Primers UD2-R - GCACTATCAAGCAACACGACT, IDT	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Primer Sequence	KEBS/ Relevant ISO standard	Primers COI - Forward 5_-TTG ATT TTT TGGTCA TCC AGA AGT-3, IDT	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Primer Sequence	KEBS/ Relevant ISO standard	Primers COI -Reverse 5-TAG AGC TTA AAT TCA TTG CAC TAA TC-3, IDT	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Primer Sequence	KEBS/ Relevant ISO standard	Primers COII -Forward 5_- ATG GCA ACA TGA GCA AATT-3, IDT	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Primer Sequence	KEBS/ Relevant ISO standard	Primers COII - Reverse 5_-CCA CCC TTT CTG AAC ATT GAC C-3, IDT	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Anopheles stephensi			Labeling should be in English and/ or Kiswahili, Direction of Use,

Item	Prequalification and quality standard	Product specific specification	Packaging
Primer Sequence	KEBS/ Relevant ISO standard	LAMP (An. Stephensi) Primers: F3 - ATTGCACGGGGACTTCCA	Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture, and expiry
Anopheles stephensi Primer Sequence	KEBS/ Relevant ISO standard	LAMP (An. Stephensi) Primers: B3- GCCTACAGACTCCACTGTCA	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Anopheles stephensi Primer Sequence	KEBS/ Relevant ISO standard	LAMP (An. Stephensi) Primers: FIP - CGACTGCAACTGTATGCGAGGACGGGTCGAGTA AC ACTTGC	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Anopheles stephensi Primer Sequence	KEBS/ Relevant ISO standard	LAMP (An. Stephensi) Primers: BIP - CCGTGTGGGTGAGTGAGGTTAGAATGATGCGAC GG GAGAAG	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Anopheles stephensi Primer Sequence	KEBS/ Relevant ISO standard	. LAMP (An. Stephensi) Primers: LF - AAGATACGAGCGCGTTGGG	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	Plasmodium spp - Plasmo1-F - GTTAAGGGAGTGAAGACGATCAGA	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	Plasmodium spp - Plasmo2-R - AACCCAAAGACTTTGATTTCTCATAA	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO	Plasmodium spp - Plasprobe VIC-TCGTAATCTTAACCATAAAC -MGBNFQ	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and

Item	Prequalification and quality standard	Product specific specification	Packaging
	standard		Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	P. falciparum - Fal-F - CCGACTAGGTGTTGGATGAAAGTGTTA A	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	P. falciparum – Falciprobeb - FAM-TCTAAAAGTCACCTCGAAAGA-MGBNFQ	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	P. malariae - Mal-F - CCGACTAGGTGTTGGATGATAGAGTAA A	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	P. malariae – Malaprobe - FAM-CTATCTAAAAGAAACACTCAT-MGBNFQ	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	P. ovale – Ovaprobea - VIC-CGAAAGGAATTTTCTTATT-MGBNFQ	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	P. vivax - CCGACTAGGCTTTGGATGAAAGATTITA	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	P. Vivax - Viv-F - CCGACTAGGCTTTGGATGAAAGATTITA	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of

Item	Prequalification and quality standard	Product specific specification	Packaging
			Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	. P. Vivax – Vivprobe - VIC-AGCAATCTAAGAATAAACTCCGAAGAG AAAATTCT- TAMRA	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	Probe WT.1 2623029 (VIC MGBNFQ) - 5'-CTT ACG ACT AAA TTT C-3'	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	Probe Kdr E.1 2623031 (6-FAM MGBFQ) - 5'ACG ACT GAA TTT C -3'	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	Probe Kdr WT.1 2623033.1 (6-FAM MGBNFQ) - 5'-ACG ACA AAA TTT C -3'	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	KdrReverse1 (Scale of synthesis 200nmol) - 5'-CGA TCT TGG TCC ATG TTA ATT TGC A -3'	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Plasmodium spp. primer sequence	KEBS/ Relevant ISO standard	KdrForward1 (Scale of synthesis 200nmol) - 5'-CAT TTT TCT TGG CCA CTG TAG TGA T-3'	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Technical grade insecticide	KEBS/ Relevant ISO standard	Neonicotinoids; Clothianidin	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry

Item	Prequalification and quality standard	Product specific specification	Packaging
Technical grade insecticide	KEBS/ Relevant ISO standard	Organophosphates; Pirimiphos-methyl	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Technical grade insecticide	KEBS/ Relevant ISO standard	Pyrethroids; Permethrin	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Technical grade insecticide	KEBS/ Relevant ISO standard	Pyrethroids; Alphacypermethrin	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Technical grade insecticide	KEBS/ Relevant ISO standard	Pyrethroids; Deltamethrin	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Technical grade insecticide	KEBS/ Relevant ISO standard	Meta-diamides; Broflanilide	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Technical grade insecticide	KEBS/ Relevant ISO standard	Pyrroles; Chlorfenapyr	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
UV Light Traps	KEBS/ Relevant ISO standard	UV Light Traps - Miniature backlight trap (UV light trap) Model 912. John W.Hock company, Gainesville, Florida USA	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry

Item	Prequalification and quality standard	Product specific specification	Packaging
UV Light Traps Batteries	KEBS/ Relevant ISO standard	Model PS-12120 F2 battery,Voltage: 12 Volt	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Battery Chargers	KEBS/ Relevant ISO standard	Universal Automatic Battery Charger, Model: 2.70, input: 90-240 VAC, output: 5.0 Amps, 12 Volt, John W. Hock	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Hot plate and magnetic stirrer	KEBS/ Relevant ISO standard	Hot plate and magnetic stirrer - COLE-PARMER_Stirrer/Hot Plate 10inX10in, 220V	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Oxford Nanopore Technologies MinION Mk1B device	KEBS/ Relevant ISO standard	Oxford Nanopore Technologies MinION Mk1B device	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
MiniPCR® mini16X thermal cycler (SKU: QP-1016-16)	KEBS/ Relevant ISO standard	MiniPCR® mini16X thermal cycler (SKU: QP-1016-16)	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Bloodmeal Primers	KEBS/ Relevant ISO standard	UnRev 1025 - ggttg[t/g]cctccaattcatgtta	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Bloodmeal Primers	KEBS/ Relevant ISO standard	Pig573F - cctcgcagccgtacatctc	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry

Item	Prequalification and quality standard	Product specific specification	Packaging
Bloodmeal Primers	KEBS/ Relevant ISO standard	Human741F - ggcttacttctcttcattctctcct	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Bloodmeal Primers	KEBS/ Relevant ISO standard	Goat894F - cctaatcttagtacttgtacccttcctc	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Bloodmeal Primers	KEBS/ Relevant ISO standard	Dog368F - ggaattgtactattattcgcaaccat	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Bloodmeal Primers	KEBS/ Relevant ISO standard	Cow121F - catcggcacaaatttagtcg	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Date of Manufacture and expiry
Barcode Printer	KEBS/ Relevant ISO standard	Industrial barcode printer Printing technology: Thermal transfer / Direct thermal Resolution: 203 or 305 dpi With label design and printer management software with compatible external barcode rewinder With standard connectivity USB, Ethernet, RS-232 Support for 1D and 2D barcodes	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No,

Item	Prequalification and quality standard	Product specific specification	Packaging
Cryogenic Labels and Thermal Transfer Ribbons	KEBS/ Relevant ISO standard	Cryogenic labels: Thermal transfer printable labels designed for ultra-low temperature storage (up to −196 °C), suitable for cryovials, tubes, and laboratory containers. Durability: Resistant to moisture, chemicals, abrasion, and freezing conditions to maintain barcode readability. Printer compatibility: Suitable for industrial barcode printers such as the SATO CL6NX or equivalent. Thermal transfer ribbons: Resin ribbons designed to produce high-contrast, long-lasting prints suitable for cryogenic environments. Usage efficiency: Approximately one ribbon to print about four rolls of labels, depending on label size and print density.	Labeling should be in English and/ or Kiswahili, Direction of Use, Product should be labeled with: Local Agent, Manufacturer's Name and Address, Country of Origin, Name, Batch No, Labels supplied in protective packaging to prevent contamination and moisture exposure Ribbons individually wrapped to prevent dust or damage during storage and transport

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