

KENYA MEDICAL SUPPLIES AUTHORITY

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When replying please quote our ref:

KEMSA/GOK-CPF/TB/22-23(103)

Date: 6th October, 2022

ADDENDUM 1:

Attn.: All Prospective Bidders

REF.: KEMSA/GOK-CPF/TB-OIT 03/2022-2023 - SUPPLY OF LED MICROSCOPE

In accordance with ITT Clause 8 (Amendment of Tendering Document) of the Open International Tender (OIT) issued under the above reference.

Please be advised that the technical specifications have been revised as detailed in the attachments herewith.

Yours faithfully,

**JOHN KABUCHI
Ag. DIRECTOR PROCUREMENT
FOR: CHIEF EXECUTIVE OFFICER**

Binocular microscope with LED fluorescence capability

Name of equipment:

Manufacturer: Type/model: Country of origin:

Objectives

For fluorescence microscopy, at least two infinity-corrected Plan Achromat objectives, corrected for use without cover glass (no-cover-slip slides).

Objectives $\geq 50\times$ should be of spring-loaded type.

- 10x NA: 0.25 optional
- 20x NA: 0.40 essential
- 40–63x dry: essential for confirmation
- 100x NA: 1.25, for oil immersion (optional)

Marking and identification

All objectives should be engraved with the following information:

- name or code of the manufacturer
- Magnification and numerical aperture (NA).

Nosepiece

Revolving nose piece to accommodate at least 4 objectives, any ports not covered by an objective should be closed with dust proof metallic or hard plastic screw caps.

The nose piece should be provided with ribbed grip for easy rotation on a precision ball bearing mechanism for smooth and accurate alignment with precise click stops. In changing from one objective to another or reintroducing the same objective by rotation, the object in the center of the field should not appear displaced by more than 0.04 in the object plane in any direction.

Stage

Rectangular built in, uniformly horizontal, mechanical stage.

The stage should be provided with a spring-loaded slide holder for safe and exact positioning of the slide. The construction should allow a smooth travel in traverse directions.

Travel range of at least 75 x 30 mm (w x d), fatigue-proof position of knobs for movement, right or left-hand operation.



Condenser

Sub stage condenser of Abbe type, 0.9/1.25, with rack and pinion arrangement incorporating an iris diaphragm.

Sub stage illuminator

Sub stage illuminator for bright field microscopy, with possibility to switch easily between FM and bright field without tools with either a:

- built in light source (e.g. 20–30 W, 6 V halogen lamp), including a constant power supply with automatic voltage recognition and surge protector. The system should provide a light intensity adjustment device, and an easily accessible on/off switch. The lamp should be provided with a lamp socket for easy replacement of the bulb. The housing for the light source should be designed to prevent dispersion of light and mounted not to heat up the body of the microscope

or

- 3 W, 6 V white LED could be used, built-in or modular.

Fluorescence illumination

Fluorescence illumination, depending on microscope type may be:

- a built-in LED blue light source with maximum wavelength close to 450 nm for reflected light examination
- an LED blue light source attachment with maximum wavelength close to 450 nm that is fitted into a special objective for reflected light examination
- an LED blue light source attachment with maximum wavelength close to 450 nm that is fitted onto the illumination system of a standard microscope and sliding barrier 510 nm long-pass filter for transmitted light examination.

Focusing knobs

Co-axial coarse and fine focusing knobs capable of smooth fine focusing movement over the full range of coarse travel. The fine focusing movement should have a sensitivity of at least 500 μm per rotation over the entire coarse focusing range. Focusing knobs should be at both sides. A focusing stop safety arrangement should be provided, as well as a total range of at least 15 mm.

All metallic parts of the microscope to be corrosion proof, acid proof and stain proof.

Electricity requirements

Supply voltage: 100–230 \pm 10 V, AC, 50/60 Hz

Voltage and plugs shall be adapted to those used inside the country.



KEMSA/GOK-CPF/TB-2022/2023-OIT 03- SUPPLY OF LED MICROSCOPE

Power consumption: Will depend on the illumination equipment (max. 30 W) Conform to electrical safety IEC-60601-1, UL 61010-1, EN 61010-1.

Power supply, wide range input with 6 V converter. Protection class (in accordance with EN 60529).

Designed not to interfere with circuit radio (in accordance with EN 55014).

Documentation

Manufacturer's certificate

The manufacturer must have a management system certified to ISO 9001 and a type-test certificate of relevant optical and mechanical tests.

Quality and safety standards met by the product must be listed.

Accessories

Dust cover, made of antistatic material.

Battery pack

Optional: Battery pack (6 V DC) with charger working with 100–230 V AC, 50–60 Hz supply, as well as from the cigarette lighter of a car, 12 V DC.

Eye protection

Optional: If using an FM without a darkroom, a pair of well-fitting soft rubber pieces to protect the eyes and block stray light.

One antistatic cleaning brush for each microscope.

At least one blue filter per microscope (wrapped separately in a box).

Optional: A self-standing mirror unit adapted to the space between base and sub stage condenser, providing bright illumination when used in bright field.

If a special plug is needed for the country, a set of adapters is to be provided.

Operation, maintenance and installation

Operation and maintenance manual

At least one set of operation, maintenance and service manuals for each microscope, written in United Nations languages (or at least in English) and preferably English for Kenya

The manuals to include instructions for:

- setting up the microscope



KEMSA/GOK-CPE/TB-2022/2023-OIT 03- SUPPLY OF LED MICROSCOPE

- routine cleaning and maintenance (including how to change the bulb)
- changing the batteries inside the pack
- installing and using the mirror (for when the electric lamp is not working)
- planning periodic maintenance.

Installation and maintenance

The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.

The bidder to also provide user training (including how to use and maintain the equipment) and a comprehensive maintenance plan. The cost of the maintenance plan to be defined and guaranteed over the period of warranty minimum one year

The supplier to provide an after-sale service that covers the whole country. The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints, and to repair or replace the microscope within 14 days.

Standard maintenance tools

All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication material, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).

Spare parts

Each assembled microscope to be accompanied by an authorized list of accessories and spare parts.

Packing data

Packing data are not necessarily part of the bidding process, but are required for shipment and for customs declarations.

Net weight.

Gross weight.

Dimensions (W × H × D) in cm.

Appliances must be transported upright (Y/N).

Customer's tariff number.

Warranty: At least one year.

Remarks



KEMSA/GOK-CPF/TB-2022/2023-OIT 03- SUPPLY OF LED MICROSCOPE

The equipment offered, including its power supply, to be designed and constructed to operate properly and continuously in the conditions of the purchaser's country; the equipment may need to tolerate high humidity, ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.

Bidder may propose additional products to the requirements listed above.

