



गण्डकी प्रदेश सरकार
स्वास्थ्य मन्त्रालय

०६१-५७५७५१, ५७१०६४
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प्रादेशिक रोग नियन्त्रण केन्द्र

पोखरा, कास्की, नेपाल



प.स. : २०८२/०८३

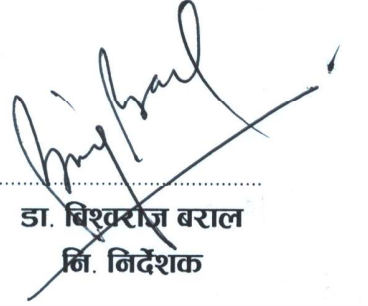
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मिति : २०८३/०२/११

श्री सप्ल्यार्सहरु / फर्महरु / प्राइभेट लिमिटेडहरु

विषय : दररेट उपलब्ध गराइदिने वारे ।

प्रस्तुत विषयमा यस कार्यालयको लागि Bright Field and Fluroscence Hybrid Microscope खरिद गर्नुपर्ने भएकोले यसै पत्रसाथ संलग्न Technical Specifications अनुसारको Microscope को दररेट ०७ दिन भित्र यस कार्यालयमा आइपुग्ने गरी अथवा यस कार्यालयको ईमेल ठेगाना pcdcgandaki@gmail.com मार्फत दररेट उपलब्ध गराईदिनुहुन अनुरोध छ ।


डा. बिश्वराज बराल
नि. निर्देशक



Standards for Fluorescent Microscope 2081/82

S.N.	Purchaser's Specification
	Fluorescent Microscope
	Manufacturer
	Brand
	Model
	Country of Origin
1	Description of Function:
1.1	A light microscope used to study properties of organic or inorganic substances, in our case Acid Fast Bacilli (AFB) in sputum smear with Aurine O stain, using the phenomena of fluorescence and phosphorescence instead of or in addition to reflection and absorption.
2	Operational Requirements:
2.1	The usage requires fatigue/stain free long hours of viewing through the microscope.
2.3	Can be switched between fluorescence and brightfield illumination without any additional setup and apparatus.
3	General:
3.1	It should be a binocular microscope with fluorescence.
3.2	All optical parts including objectives, eyepieces and prisms should have anti-reflection coating along with anti-fungal properties.
3.2	Microscope should be made out of maximum metallic parts and must be corrosion proof, acid proof and stain proof.
3.4	All parts of the microscope including removable parts should have manufacturer's name engraved on it.
3.5	The supplier should supply with a complete assembled microscope in storage/transport case along with a dust cover. The case/box should have storage facilities for all the accessories (eg. Objective, eyepiece, etc.) with appropriate carrying handle at the top. It should also contain a bag of activated silica gel to keep the moisture level under control.
3.6	Should have changeover switch for Transmitted light / reflected light (Brightfield / Fluorescence)
4	Technical Specification:
4.1	Microscope Body:
a	Should be sturdy and stable.
b	All metallic microscope body with focus control knobs located ergonomically for comfortable and prolonged usage.
c	Should have a built-in transmitted illumination with collimating lens, variable field diaphragm and secured filter holder for blue filter.
4.2	Focusing knob:
a	Co-axial coarse and fine focusing knobs conveniently located on either side of the stand for smooth and comfortable focusing over long usage.
b	Should have a focus stop safety mechanism to avoid accidental breakage of slides.
c	The fine focus movement should have sensitivity of 2 microns or less.
4.3	Nose piece:
a	Revolving.
b	Should accommodate minimum 4 objectives with ribbed grip.
4.4	Stage:



S.N.	Purchaser's Specification
a	Uniformly horizontal.
b	Should have conveniently located X-Y coaxial movement knobs for easier use.
c	Should have spring loaded precision slide holder for easy slide loading and removal.
d	Should have ball guide mechanism for smooth movement with traverse range of 80 ± 10 mm in X-direction and 30 ± 10 mm in Y-direction.
4.5	Binocular eyepiece tube:
a	Inter-pupillary distance adjustment range of 50-75mm.
b	Rotatable by 360 degrees.
c	Should have 20-30 degrees inclined eyepiece tubes for comfortable and prolonged use.
4.6	Eyepiece:
a	Paired high quality achromatic.
b	Wide field of 10X .
c	Should be flat field and have minimum field number of 18 mm.
d	Diopter adjustment must be available for both eyepiece and should be suitable for spectacle wearers.
e	Should be safety secured to the binocular tube for any accidental fallout or damage during transit.
f	Both the eyepieces should be provided with special rubber eye-cups to block any stray light leakage during Fluorescence light observation.
g	The image seen through the eyepieces should be well-defined with flat and sharp focus throughout the field of view without any contrast and color losses.
4.7	Sub-stage Condenser:
a	Abbe condenser with numerical aperture 0.9/1.25
b	Built-in aspherical lens and aperture diaphragm with lever.
c	Provision to center the field diaphragm.
4.8	Transmitted light illumination:
a	Should have built-in transmitted illuminator into the microscope stand with a long life white light Minimum 3W LED and must have at least 20,000 hours of operation.
b	The regulator knob for varying the intensity of white light LED should be conveniently positioned at the focus knobs of the microscope.
c	The LED illuminator should have a diffuser, collimating lens and a variable field diaphragm according to Koehler's principle.
4.9	Epi-Fluorescent illumination:
a	Fully integrated Epi-fluorescent illumination tube with built-in blue LED light source.
b	Intensity regulating control knob should be conveniently located with an easy and quick changeover knob for transmission to Epi-fluorescent illumination and vice-versa.
c	The fluorescent illumination tube should have a built-in fluorescent filter unit suitable for "Auramine O" fluorescent dye.
4.10	Objectives:
a	Should be high quality color corrected Plan achromatic objectives with following magnifications and numerical aperture, specially designed to be used without cover glass for the examination of sputum smear:
b	Plan achromatic objective 10x/0.25, D=0 and working distance 4-8 mm.
d	Plan achromatic objective 40x/0.65, D=0 and working distance 0.6mm or less with front lens spring loaded.
e	Plan achromatic objective 100x/1.25 oil, D=0 and working distance 0.25mm or less with front lens



S.N.	Purchaser's Specification
	spring loaded.
f	All the objectives should be engraved with the markings as per international standard with the following details:
g	Type of objective i.e. Plan achromatic with magnification, N.A and cover glass correction.
h	Manufacturer name and part number of the objective.
i	International color coded ring indicating the magnification.
5	Accessories, spares and consumables
5.1	Accessories:
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
5.3	Color filter set (Blue as per WHO prescription)
5.4	Dust protection cover for the microscope.
5.5	Special tools for maintenance.
5.6	Immersion oil in bottle, at least 25ml.
5.7	Pack of lens cleaning paper.
5.8	Bottle of lens cleaning solution, at least 100ml.
5.9	Safety transportation/storage box.
6	Operating Environment
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.
7	Standards and Safety Requirements
7.1	Must submit ISO13485 or ISO 9022-1 AND
7.2	CE (93/42 EEC Directives) and (USFDA or Japanese JIS) approved product certificate.
8	User Training
8.1	Must provide user training (including how to use and maintain the equipment).
9	Warranty
9.1	Comprehensive warranty for 2 years and extra 1 year free AMC
10	Maintenance Service During Warranty Period
10	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.
11	Installation and Commissioning
11	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel.
12	Documentation
12	User (Operating) manual in English.
12	List of important spare parts and accessories with their part numbers.