



## Notice Inviting e-Tender

**West Bengal Medical Services Corporation Limited**  
**Swasthya Sathi**  
**GN-29, Salt Lake, Sector-V**  
**Kolkata-700091**

Phone No (033) 40340307/320

E mail: [procurement@wbmsc.gov.in](mailto:procurement@wbmsc.gov.in)

**Supply and Commissioning of Medical equipment for 02 (two) new Government Medical College & Hospital, Dept. Of Pathology**

(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT-195 /2023**

**Dated-24.04.2023**

### **AMENDMENT-I** **Revised Technical Specification**

#### **Item No.-01**

**Binocular with Scanner, 10X, 40X, & Oil immersion lenses**

Specification	Specification Name	Bid Requirement (Allowed Values)
CONFORMITY / TYPE / EYE PIECE - OBJECTIVE DETAILS	Microscope Type	Binocular non hinged type with built in light and with light intensity regulator
	Optical System	Infinity corrected
	Eye piece Type	Compensating, (FOV : 20 mm or more)
	Eye Piece with magnification	Set of Two For Binocular 10x
	Objective Type (Infinity)	Plan achromatic
	Objective Magnification	4X to 100X
	Numerical Aperture of Objective	1.25
	Number of installations in Central / State / PSU Govt Hospitals ( Hint: Seller should supply a performance certificate of the device to the buyer in case demanded after placement of order)	3 or more
	Type of lamp for illumination	led

Specification	Specification Name	Bid Requirement (Allowed Values)
WARRANTY	Warranty	3 years
Specification Parameter Name	Bid Requirement (Allowed Values)	
Objective Magnification	4X,10X,40X & 100X ( oil immersion)	
Certification	CE / EC / UK Cert / US FDA / BIS	

## Item No.-02

### **Diagnostic & Research Work - Trinocular head Microscope**

<b>OPTICAL SYSTEM</b>	: CCIS (Colour Corrected Infinity Optical System) / Infinity Optical System
<b>EYEPIECES</b>	: SW10X / FOV 20 (Pair) or more
<b>VIEWING HEAD</b>	: Ergo Tilting / Butterfly / Seidentopf Trinocular Head, adjustable from 00 to 350.
<b>IPD</b>	: Interpupillary Distance 47-78mm
<b>OBJECTIVES</b>	: S-Apo ( Semi Apochromatic / Plan Achromat) N-PLFN / Plan – 4X / 0.13 N-PLFN / Plan – 10X / 0.30 N-PLFN / Plan – 20X / 0.50 N-PLFN / Plan – 40X / 0.75 N-PLFN / Plan – 100X / 1.30 N-PLN / Plan - 100X / 1.30 with Iris for Dark Field
<b>NOSEPIECE</b>	: Sextuple / Quintable inward Nosepiece
<b>CONDENSER</b>	: Swing in and out / ABE Condenser N.A. 0.9/0.25 / 1.25 and Cardiod Condenser for Dark Field
<b>ILLUMINATION</b>	: Super Bright 3W S-LED.
<b>FOCUSING</b>	: Coaxial Coarse and Fine Adjustment, Fine Division 1µm / 2µm, Moving Range 35mm.
<b>STAGE</b>	: Double Layer Ceramic Coated Mechanical Reckless stage Size: 125 x 145mm or more and cross movement 78 x 32mm. Sapphire Crystal Glass insert / Frosted Filter Glass.
<b>POLARISING UNIT</b>	: High grade polariser and analyser supplied for viewing collagen, amyloid and crystal and double refracting specimen.

#### **FLUORESCENCE: Reflected Type LED Fluorescence Illumination System**

**ATTACHMENT:** 2 Position Turret filter structure with high function Filters, 1st position for bright field. Centre adjustable field diaphragm, aperture diaphragm and 3 positions for fluorescence filters for reflected illumination. High intensity LED EPI Illumination system with 2 Fluorescence Filters are as follows:

#### **Blue Excitation BP400-490nm DM500 BA520**

#### **Green Excitation BP510-550nm DM570 BA590**

In order to make the transmittance of fluorescence higher, the cut-off sharper and the detection effect better, adopted the excellent sub-moiré elimination coating technology on all the fluorescence filter sets. High-sensitivity fluorescence detection allows for less exposure of cells to excitation light, while a higher signal-to-noise ratio (S/N) produces fluorescent images with bright colors and dark backgrounds.

**LED light source:** service life up to 5000 hours, cold light source, less damage to cells, small monochromatic spectral range with 4 LED light sources to meet the observation needs of various dyes.

#### **DEDICATED MULTI-FUNCTION CAMERA FOR ABOVE MICROSCOPE**

**HDMI MICROSCOPE CAMERA 4K, HDMI / CMOS, USB WITH PC CAPTURE STILL AND VIDEO CLIPS IN SD CARD CONNECTED THROUGH HDMI CABLE TO 4K OR LED TV OR PROJECTOR OR MONITOR OR PC. IMAGING SOFTWARE ON LINE IMAGE PREVIEW, MEASUREMENT AND CAPTURE AND ANALYSIS SOFTWARE OPERATED IN PC.**

**Features:**

1. 5 Mega Pixel 4K Resolution, HDMI / CMOS 2-5 MP

2. **USB Output can connect with PC and with user friendly software.**
3. **Support SD Memory card, Max 32 GB. Image Captured on Card without PC (For HDMI).**
4. **Interface: Live Image 1920x1080P directly to 4K, Ultra Minimum 55 Ultra HD TV and Multimedia Projector via HDMI Cable/CMOS , USB 2.0 for Mouse for Computer interface with monitor.**

### **Item No.-03**

#### **Penta Head Microscope with High end Optics**

##### **Optical System**

Infinity Corrected Optical System

##### **Trinocular& Binocular Observation Head**

Siedentopf Trinocular Observation head inclined at 30° rotatable at 360° (One set).

Binocular observation heads, inclined at 30° fixed on adjustable stand (Four sets).

Vertical Focusable phototube for photomicrography.

3 Way Beam Splitter of 100:0/50:50/0:100

Diopter adjustment ring on ocular tube.( 5)

Interpupillary distance from 45mm or more to 75mm or more

##### **Eyepiece**

Extra Wide Field 10x (paired) F.O.V. 20mm or more for main Binocular observation head and Wide Field 10x (paired 4 Sets for Co-observers ).

##### **Objectives (Infinite Corrected) Anti Mold**

Infinity Plan Achromat 4X/5X (N.A.0.10W.D 30mm)

Infinity Plan Achromat 10X (N.A.0.25W.D 20.1mm)

Infinity Plan Achromat 20X (N.A.0.4W.D 6.4mm)

Infinity Plan Achromat 40X (N.A.0.65W.D 0.7mm)

Infinity Plan Achromat 100X (oil) (N.A.1.25W.D 0.2mm)

##### **Illumination System**

Kohler illumination system with 3W or more LED external illuminator. Brightness control knob with side LED indicator.

##### **G LED pointer**

Focusable with light intensity control Green.

##### **Mechanical Body**

Co-axial focusing control with large knob, PRE-FOCUSING LEVER & TENSION ADJUSTMENT RING.

Reverse angle sextuple / quintuple nosepiece .

Ceramic Coated Recless Glass Bedded Mechanical stage size 125mm or more X 145mm or more & having low positioned co-axial controls on ball bearing guide ways capacity to hold two glass slides at a time.

Fine div 0.002mm, coarse stroke 35mm per rotation, Fine stroke 0.1mm/rotation. Moving range 78mm X 54mm per rotation, moving range 78mm X 54mm. Upper limit stopper. Hard coated mechanical stage surface.

##### **Sub Stage Condenser**

Abbe condenser N.A.0.9/1.25,filter holder and iris diaphragm.

##### **Standard Accessories**

Dust cover,

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## Item No.-04

### Deca Head Microscope

#### **Optical System**

Infinity Corrected Optical System

#### **Trinocular & Binocular Observation Head**

Siedentopf Trinocular Observation head inclined at 30° rotatable at 360° (One set).

Binocular observation heads, inclined at 30° fixed on adjustable stand (ten sets).

Vertical Focusable phototube for photomicrography.

3 Way Beam Splitter of 100:0/50:50/0:100

Diopter adjustment ring on ocular tube. ( 5)

Interpupillary distance from 47mm to 78mm.

#### **Eyepiece**

Extra Wide Field 10x (paired) F.O.V. 20mm or more for main Binocular observation head and Wide Field 10x (paired 9 Sets for Co-observers ).

#### **Objectives (Infinite Corrected) Anti Mold**

Plan Achromat 4X/5X(N.A.0.10W.D 30mm)

Plan Achromat 10X(N.A.0.25W.D 20.1mm)

Plan Achromat 20X(N.A.0.4W.D 6.4mm)

Plan Achromat 40X(N.A.0.65W.D 0.7mm)

Plan Achromat 100X (oil)(N.A.1.25W.D 0.2mm)

#### **Illumination System**

Kohler illumination system with 10W LED external illuminator.. Brightness control knob with side LED indicator.

#### **G LED pointer**

Focusable with light intensity control Green.

#### **Mechanical Body**

Co-axial focusing control with large knob, PRE-FOCUSING LEVER & TENSION ADJUSTMENT RING.

Reverse angle sextuple / quintuple nosepiece

Ceramic Coated Recluse Glass Bedded Mechanical stage size 187mm or more X 166mm or more & having low positioned co-axial controls on ball bearing guide ways capacity to hold two glass slides at a time.

Fine div 0.002mm, coarse stroke 35mm per rotation, Moving range 78mm X 54mm per rotation, moving range 78mm X 54mm. Upper limit stopper. Hard coated mechanical stage surface.

#### **Sub Stage Condenser**

Abbe condenser N.A.0.9/1.25, filter holder and iris diaphragm.

#### **Standard Accessories**

Dust cover, Filters size of 40mm or 32mm ( Day light, Grey, Green(Panchromatic), Yellow ), guarantee card, operating manual and styrofoam molded pack.

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