

Technical Specifications for Binocular Microscope

		Bidder's Compliance Sheet		
S.N.	Purchaser's Specifications(FY:80/81)	Yes/No	Page No. in Catalogue	Remarks
	Binocular Microscope Compound			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	Compound microscopes consist of two or more than two magnifying lenses. One can view individual cells, even living ones. It has high magnification.			
2	Operational Requirements			
2.1	Binocular compound microscope with illumination system is required.			
3	System Configuration			
3.1	Binocular Microscope Compound, complete system with complete accessories.			
4	Technical Specifications			
4.1	Body: Binocular, sturdy, stable base body with focus adjustment controls.			
4.2	Eye Piece: Paired, high quality, (the image of the object as seen through the binocular eyepiece must be well defined centrally in at least 2/3 field of view), achromatic, wide field, 10x 20mm FOV. The eyepiece must be aplanatic and have a minimum field number of 18. Dioptre adjustment must be present on one/ both eye pieces or on the eye piece tube.			
4.3	Objective: At least four objectives 4x, to 100x oil. 100x must have numerical aperture of 1.25 and must be of oil immersion and spring loaded type. Suitable prominent marking must be provided on 100x for easy identification. Unbreakable containers to be provided for storing the objectives. All objectives must be wide field, achromatic and par focal. Marking for the Objectives: Each objective must be engraved with the following information: <ul style="list-style-type: none"> Name of the manufacturer Magnification and numerical aperture, for example, 10x/0.25 100x objective must be engraved with the word 'Oil'. Changing from one objective to another or reintroducing the same objective by rotation of the nosepiece, the object at the centre of the field must not appear displaced by more than 0.02 mm in the object plane in any direction.			
4.4	Nose Piece: Revolving nose piece to accommodate a minimum of three objectives with click stops. It must be provided with ribbed grip for easy rotation mounted on a precision ball bearing mechanism for smooth and accurate alignment. Extra ports if any must be fitted with dust proof metallic/ebonite caps.			
	Stage:			

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4.5	Uniformly horizontal, mechanical stage having dimensions of length 140 mm (+/- 10mm) with fine Vermeer graduations (minimum reading accuracy of 0.1 mm). The stage must be provided with spring loaded slide holder for exact positioning of specimen/ slide. It must be designed with convenient sub-stage vertical coaxial adjustment for slide manipulation. The stage travel(X x Y) approx. 75 x 30 mm.Must have Ergonomic grip for easy carrying.			
4.6	Sub-stage Condenser: Abbe-type condenser, numerical aperture (N.A.) 1.25 focusable with rack and pinion arrangement incorporating a spherical lens and an iris-diaphragm. The condenser must have a filter holder and removable/ swing in/ out blue filter (suitable for bright field Microscopy).			
4.7	Sub-stage illuminator: The system must have a build-in variable light source (Illuminator). LED light .power consumption: 0.5 W (nominal value).			
4.8	Power Supply: Voltage 220 V, 50 Hz AC. Must have one on-off power switch, 3 core power cord with a 3 point male plug. The system must have an inbuilt protective/ safety device to withstand fluctuations of voltage from 140 V to 280 V.			
4.9	The fuse for the lamp must be easily accessible to the operator.			
4.10	A Plano-concave mirror in fork mounting must be supplied which would be attachable to the base for field use (where power is not available).			
4.11	The Illuminator must have a build-in field diaphragm for Kohler illumination.			
4.12	Eye Piece Tubes: Binocular eye piece tubes, inclined at 30 degrees, having inter-pupillary distance range of approx 48-75mm , covering the above mentioned range.			
4.12	Focusing Knob: Co-axial coarse and fine focusing knobs capable of smooth fine focusing movement over the full range of coarse travel. The fine focusing movement must have sensitivity of two microns or less (finer) over the entire coarse focusing stop safety arrangement must be provided.			
4.13	All optical parts including objectives, eye pieces and prisms must have anti-reflective coating which also gives anti-fungal property.			
4.14	All metallic parts must be corrosion-proof, acid-proof and stain-proof.			
4.15	Each Microscope must be supplied with Blue filters. The Blue filter must be packed in the ox and not fixed on the Microscopes.			
5	Accessories, spares and consumables			
A	Accessories:			
	25 ml immersion oil bottle – 01 no.			
	Roll of lens tissue paper – 1 roll			
	Lens cleaning solution – 100 ml.			
	Anti-static cleaning brush – 01 no.			

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5.4	Using predefined parameters or user defined and stored image parameters				
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	Computed Radiography (CR) System				
5.5	Correcting typographical in patient demographic module, in case RIS connection was down and manual data Entry was done.				
5.6	Capability of changing R/L, Flipping, Rotating, Zooming, Collimating, annotating the incoming image.				
5.7	Multi-image and slide formats				
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5.8	Capability of storing in CD/DVD.				
5.9	Software for Advance Image processing, Applications, display and quality monitoring				
5.10	Connectivity and compatibility to communicate to RIS/HIS and DICOM Compatible devices such as MR/CT/DSA Work station,				
5.11	Scanning gray scale resolution- 12 bits/pixel or higher.				
6	Console:				
6.1	Software should have graphic selection to allow quick and easy picking of body parts and views				
6.2	Multifunctional console having all image optimization and post processing software like zooming, annotation, flipping, Windowing and centering.				
6.3	Additional computer with necessary software should be provided at the reception to feed the patient information to Help ease the workflow.				
6.4	21" or more LED Monitor with CPU.				
7	Dry view Laser imaging printer: 1 unit				
7.1	Print images from CR workstation, in DICOM 3 format.				
7.2	Printer should provide image depth of 14 bits or more				
7.3	Resolution at least 500 DPI or more				
7.4	Processing capacity should be more than 80 films/hour or more for 14*17 inch film size				
8	IP/Cassettes size:				
8.1	CR system should be provided with the Following cassettes and imaging plates.				
8.2	14 x 17 in: 1 Pcs.				
8.3	10 x 12 in: 1 Pcs.				
9	Accessories, spares and consumables				
9.1	Computer and Printer				
9.2	At least Latest model Computer having Intel i5 processor, HDD-500GB and 4 GB RAM and 21" or more LCD Monitor: 1 set				
9.3	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.				

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B	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).			
6	Operating Environment			
A	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.			
B	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			
A	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
B	CE (EEC Derivative) or USFDA approved product certificate.			
8	User Training			
	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			
	Comprehensive warranty for 2 years after acceptance.			
10	Maintenance Service During Warranty Period			
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	Documentation			
A	User (Operating) manual in English			
B	Service (Technical / Maintenance) manual in English			
C	List of important spare parts and accessories with their part number and costing.			
D	Certificate of calibration and inspection from factory.			

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.

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