Binocular Microscope

.N.	Purchaser's Specifications	Bidder's Offer
	Binocular Microscope	Market and the Color of the Col
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
	Description of Function	
.1	Binocular 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 without inbuilt pointer. 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: Three objectives 10x, 40x, 100x.	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
	10x and 40x objectives must have numerical apertures of 0.25 and 0.65 respectively	
	and must be of spring loaded type or otherwise.	
	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.	
	Making for the Objectives: Each objective must be engraved with the following	
	information:	
	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	
Page	stops. It must be provided with ribbed grip for easy rotation mounted on a precision	
18	ball bearing mechanism for smooth and accurate alignment. Extra ports if any must	
	be fitted with dust proof metallic/ebonite caps.	
4.5	Stage:	
	Uniformly horizontal, mechanical stage having dimensions of length 140 mm (+/-	
Te.	20mm) 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	1 4
	adjustment for slide manipulation. The stage must have ball-bearing arrangement to	
	allow smooth travel in transverse directions i.e. 80 mm (+/-5mm) and front to back	



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5.IV.	direction, 50mm (+/-5mm).	
16	Sub-stage Candonson	
1.6	Abbertupe condenses, numerical aperture (N.A.) 1.25 focusable with rack and pinion	
	arrangement in a sure and in a sure and an init of an init of the conduction	
	must have a filter holder and removable/ swing in/ out blue filter (suitable for bright	
	field Microscopy).	
1.7	Cub stone illuminates	
4.7	The section of the secretary fight source (Illuminator). This light source	
	must have a 20 W, 6 V Halogen lamp. The circuitry for the light source must include	
	The evelon must be provided with a step down	
	transformer and an en-off switch and intensity control. The tamp must be provided	
	with a lamp socket which has the facility for easy replacement of the bulb.	
4.8	Down Cumber	
7.0	Walter 220 W 50 Ha AC Must have one on-off power switch, 3 core power cold	
	with a 3 point male plug. The system must have an inbuilt protective/ safety device	
	to withstand fluctuations of voltage from 140 V to 260 V.	
4.9	The fuse for the helogen lamp must be easily accessible to the operator.	
4.10	A Plano-concave mirror in fork mounting must be supplied which would be	
7.10	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	Eva Dioga Tubas	
	Binggular and piece tubes, inclined at 45 degrees, rotatable through an angle of 300	
	degrees, having inter-pupillary distance range of 54-74 mm or wider, covering the	
	above mentioned range.	
4.12	Focusing Knob.	1 2 2 2
	Co-axial coarse and fine focusing knobs capable of smooth fine focusing movement	
	aver the full range of coarse travel. The fine focusing movement must have	- 715519
	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-	35
	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	
5.1	Accessories:	
	• 100x oil immersion objective – 01 no.	,
	 Halogen bulb. (6volts, 20w) – 6 nos. 	
	• Fuses – 6 nos.	
	 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.	
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	100
	(including items not specified above).	
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	



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-	must be at least 3 metre in length.	
6.3	Suitable voltage corrector/stabilizer shall be supplied	
7	Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE or USFDA 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 after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance	
	whenever required.	
11	Installation and Commissioning	
11.1	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	
12.1	User (Operating) manual in English.	
12.2	Carrier (Technical / Maintenance) manual in English	
12.3	List of important spare parts and accessories with their part numbers and costing.	
12.4	Certificate of calibration and inspection from factory	

