TENDER

MAHAVIR CANCER SANSTHAN, PATNA

Tenders are invited from the eligible bidders for the supply of Fluorescent microscope machine with all attachment and price bids are required through Speed post in favour of "To The Director, Mahavir Cancer Sansthan, Phulwari Sharif, Patna-801505 with in 15 days from the date of publications of notice. Date & time for finalization of rates will be intimated through mail to only those Bidders who will qualify after evaluation.

Tenders must be sent in sealed registered envelopes on which tender no and date of publication must be written on the left side of envelop in bold letter.

MCS reserves the right to reject any or all tenders/ quotations at any stage without assigning any reason thereof.

For more details, please visit hospital's website: www.mahavircancersansthan.com

Director 19/10/19

Mahavir Cancer Sansthan

Specifications as under:-

Fluorescent microscope with software

	General	System should consist of upright manual/motorized microscope with epi-fluorescent
1.	Specifications	attachment, image acquisition unit (digital camera) and workstation computer with
	Specifications	data collection & processing software modules.
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2.	Manual/ motorized	1. Manual/motorized Research microscope stand with 10 nm or better Z-
	upright microscope	resolution, with adjustable height stop and torque of focusing. The stand should have inbuilt TFT monitor to display all microscope parameters and controls including the motorized functions. Enable single click on TFT to change between different contrasts techniques like Bright field & Fluorescence. 2. Revolving nosepiece of minimum 4 positions with inward tilt. 3. Objectives for i) 10x Plan Apochromat, ii) Semi Plan Apochromat 40x/0.75, 4. iii) Plan Apochromat 60/63x/1.4 oil and iv) Plan Apochromat 100x/1.4 Oil 5. Achromat Aplanatic Condenser with neutral density & Blue Filters. 6. Power supply for LED lamp, stabilized for transmitted light path
3.	Epi-fluorescent	Three Fluorescence filters.
	attachment	A self-aligning mercury illumination source for fluorescence excitation
		should be offered.
4.	Digital Camera	12 Bit High resolution Monochrome Cooled Camera, pixel size 5 MP, USB Interface
5.	Data Collection and	Branded Pentium IV Core 2 Duo, With, 4 GB Ram, DVD Writer, 320 GB HDD, 17" TFT
	processing unit	Color Monitor, Multimedia Kit Along With UPS.
		Software licenses should be institutional, valid for the lifetime of equipment and
	As per	should include free upgrades whenever upgrades are available.
6.	Karyotyping software	Image Acquisition
		It should be integrated to automated stage capable of capturing metaphase from at
		least 8 slides sequentially unattended.
		It should have One-click image acquisition of G-, R-, Q-, and DAPI-banded metaphases,
**		or of metaphases with other staining patterns.
		It should have a Focusing aid for automated best focus acquisition
		Image Enhancement
		It should have image filter tools for banding anhancement, Unlimited undo,
		processing steps list, and any-time access to original image
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Chromosome Separation

- Automated, semi-automated, and manual separation of chromosomes
- Separation of chromosome clusters with the chromosome brush tool
- Image zoom function on the mouse wheel

Karyotyping

- Automated and manual assignment of chromosomes
- -4 modes of separating the touched chromosomes and 3 modes for separating the overlapping chromosomes, most of the operation should be controlled by mouse buttons.
- -All separated chromosomes should be shown with different colored contour for easy identification
- -The software should have more than 100 Karyoforms available for choice. User should be able to easily import any new karyoforms into the system
- Classification of chromosomes in the metaphase
- Ideograms with different resolutions, flexible annotation function & karyogram form editor
- Karyogram comparison and partial karyograms with aberrant chromosomes

7. FISH Software

Image Acquisition

It should have one click image acquisition of fluorescence images with up to 6-12 color channels based on automated integration time adjustment

Image Enhancement

- -Easy automated, or semi-automated, enhancement of images, individually for each color channel, and with unlimited undo functionality.
- -User should be able change the size, the stain and/or the intensity of either the complete set of chromosome, or the selected chromosomes.

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-Powerful chromosome banding and signal enhancement filters

Color Display Modes

- -Single color channel display as color, grayscale, or inverted grayscale image
- -Various pseudo color display modes (modified color mode, merged color mode, primary false color mode) with editable look-up tables
- -Comprehensive image annotation with unlimited colors and fonts
- -Various measurement functions including fluorochrome profile evaluation

Director 14/10/19

Mahavir Cancer Sansthan