Date: - 02nd August 2016

Corrigendum

for

Composite Cytogenetics Imaging Workstation with Motorized Upright Fluorescence Research Microscope

NIT Issue Date	**:**	**24th June, 2016**
NIT No.	**:**	**Admn/Tender/37/2016-AIIMS.JDH**
Pre-Bid Meeting	**:**	**05th July, 2016 at 03:00 PM.**
Last Date of Submission	**:**	**25th July, 2016 at 03:00 PM.**
Extended Last Date of Submission	**:**	**05th August, 2016 at 03:00 PM**
Revised Last Date of Submission	**:**	**22nd August, 2016 at 03:00 PM**

1. The following revised and additional specification will be added:-

1. **Page No.10, Technical Specification, Microscope Stand:, Para No. 01:**
   For
   Motorized Z -focus drive with minimum step resolution of 10nm-15nm with dedicated TFT touch screen. 8-10 Position motorized fluorescence filter turret, 6-7 position motorized nosepiece facility with slot for DIC.
   Read
   Microscope Stand: Motorized Z -focus drive with minimum step resolution of 10nm-15nm with dedicated TFT touch screen. 8-10 Position motorized fluorescence filter turret, 6-7 position motorized nosepiece facility.

2. **Page No.10, Technical Specification, Objectives:, Line No. 05:**
   For
   Plan Apochromat 60X or 63X /1.35 to 1.4 (Oil, Spring)
   Read
   Plan Apochromat 60X or 63X /1.4 (Oil, Spring)

3. **Page No.10, Technical Specification, Objectives:, Line No. 07:**
   For
   Automatic change in objective of filter turret should be recognized by the system and the system should automatically align the components.
   Read
   Automatic or self-identification of objectives and filter turret should be present and the system should automatically align the components.

4. **Page No.10, Technical Specification, Mechanical Stage:**
   For
   Mechanical Stage
   Read
   Motorized Stage

5. **Page No.10, Technical Specification, Mechanical Stage:, Para No. 01:**
   For
   The stage should be motorized with autoloader and automated metaphase finder.
   Read
   Motorized X-Y scanning stage with minimum 8 slide capacity.

6. **Page No.10, Technical Specification, After Fluorescence Attachment:**
   Added Para:
   Automated Metaphase Finder:
   Automated Metaphase Finder: High speed metaphase scanner system with scan with speed of at-least 12 adjacent fields per second. Scanning of metaphase in both Transmitted light and florescence light mode. Unattended metaphase searching up to 8 slides, should be available. Real-time analysis of grayscale images. Fast and adaptable search algorithm, Three-level statistical classification method for reliable metaphase recognition, User trainable classifier, Focus tracking for each metaphase by advanced autofocus algorithm. Fast monitoring and evaluation of found metaphases by image gallery with interactive scoring. Precisely centered relocation at different magnifications, Graphic presentation of search progress, automated search protocols and evaluation list with transformed coordinates for relocation on other microscopes. User defined scanning area for faster scanning on screen aberration scoring from live image. Automatic light level adjustment during scanning. Automatic centering of object prior to high magnification capture integrated and customized classifiers for scanning. Scanning Software for automatic location of metaphase under low magnification. Software with relocation software to capture under high magnification and relocate automatically. Automatic oil dispenser and automatic image capture under oil immersion objective to be included.
   The system should also be upgradable to Digital Slide Scanning system for digitization of pathological and anatomical slides.

7. **Page No.10, Technical Specification, Fluorescence Illumination:, Para No. 01:**
   For
   High Intensity 130W Mercury or 120W metal halide Illumination. The light source should be fiber coupled to the microscope with lifespan of at least 2000 hrs.
   Read
   High Intensity 120W metal halide illumination with apochromatically corrected fluorescence beam path.

8. **Page No.10, Technical Specification, Fluorescence Filters:, Point No. d:**
   For
   (d) One complete filter block for FITC/TRITC (Dual Band)
   Read
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9. **Page No.10, Technical Specification, Fluorescence Filters:, Point No. e:**
   For
   (e) One complete filter block for DAPI/FITC/TRITC (Triple Band)
   Read
   Deleted

10. Page No.10, Technical Specification, Fluorescence Filters:, Point No. f:

For

f) One complete filter block for Spectrum Aqua/Gold

Read

f) One complete filter block for spectrum Aqua

11. Page No.10, Technical Specification, Fluorescence Filters:, After Point No. f:

Added Point No. g:

g) One complete filter block for near IR or far-red.

12. Page No.11, Technical Specification, Software for Karyotyping Analysis:, After Para No. 01:

Added Para No. 02:

Unlimited UNDO feature and visualization of processing steps.

13. Page No.11, Technical Specification, FISH Software:, Para No. 04:

For

Should have Spot counting feature.

Read

Should have Spot counting feature on captured images.

14. Page No.11, Technical Specification, FISH Software:, Para No. 06:

For

Should compatible to Color Karyotyping upgrade

Read

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15. Page No.11, Technical Specification, FISH Software:, Para No. 07:

For

Should compatible to mFISH/ mBAND upgrade.

Read

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16. Page No.12, Technical Specification, Workstation:, Para No. 01:

For

Compatible latest branded computer Intel i5 processor 3.6 GHz with at least 4GB Ram, 500GB HDD, 1GB Graphic memory, Windows 7 professional 64 bit, 24 inch TFT screen, Compatible online UPS with 30 minutes backup to support the entire system.

Read

Compatible latest branded computer Intel Xenon processor 3.6 GHz with at least 16GB RAM, 1TB HDD, 1GB Graphic memory, Windows 7 professional 64 bit, 24 inch TFT screen, Compatible online UPS with 30 minutes backup to support the entire system.

17. Page No.12, Technical Specification, Certificates:, Para No. 01:

For

Tender Specification: Complete hardware system should be European CE/ European CE IVD/US FDA certified. Cytogenetic software should be FDA/ European CE IVD registered.

Read

Complete hardware system should be European CE/ European CE IVD/US FDA Certified.

18. Page No.12, Technical Specification, Optional:

For

OPTIONAL

Read

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19. **Page No.12, Technical Specification, SPECTRAL KARYOTYPING:, In Headline:**
    For
    Features for MFISH software with compatible filter:
    Read
    Spectral Karyotyping /mFISH System with necessary Spectral Karyotyping/mFISH filters.

20. **Page No.12, Technical Specification, SPECTRAL KARYOTYPING:, Features for MFISH software with compatible filter:, Line No. 05:**
    For
    Accurate background substraction/correction.
    Read
    Accurate background Correction.

21. **Page No.12, Technical Specification, SPECTRAL KARYOTYPING:, Features for MFISH software with compatible filter:, Line No. 08:**
    For
    Acquision should provide interferometer based spectral data and its band width should be under software control.
    Read
    Acquisition should provide interferometer based OR filter based spectral data.

22. **Page No.12, Technical Specification, SPECTRAL KARYOTYPING:, Features for MFISH software with compatible filter:, mCounter, Para No. 01:**
    For
    Counting by intuitive use of the mouse and keyboard to replace existing lab counters and to enable easy spot count for numerical changes, or classify cells according to their signal pattern, instantly providing statistics for customized reports.
    Read
    Deleted

23. **Page No.12, Technical Specification, SPECTRAL KARYOTYPING:, Features for MFISH software with compatible filter:, After Multi Species support:**
    Added Para:
    Optional Autoloader - Auto tray loader with a capacity of at-least 80 slides should be upgradable to 600 or more slides capacity in future.

Administrative Officer
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