

HSCC (I) Ltd.

Amendment – XII dated 11.12.2017

**Tender Enquiry No. : HSCC/KCGMC/Medical Equipment/2015-06/15
dated: 15/09/2017**

Bid sale, submission and opening date for all items has been extended as per details given (Except the items No.01,03,10,11,12,15) in Table

Sl. No.	Description	Previous	Revised Schedule
1	Sale date of the tender	11.12.17, 3.00 P.M.	18.12.17, 3.00 P.M.
2	Closing date & time for receipt of	11.12.17, 3.30 P.M	18.12.17, 3.30 P.M.
3	Time and date of Opening of	11.12.17, 4.00 P.M.	18.12.17, 4.00 P.M.

Bidders are also requested Technical specification Amendment in the following items:

Item No. 14- Penta head microscope with high end optics

A. Binocular Microscope

1. Optical System - Universal infinity optical system, having objective parfocal distance of 45mm.
2. Objectives: Plan Semi Apochromatic/ Apochromatic 4x or 5x/0.15, Plan Apochromatic Objective lenses - 10x/0.45; 20x/0.75; 40x/0.85 (spring); 100x/1.40 (Spring, oil.) with antifungal treatment.
3. Frame: Ergonomic design for comfort and ease of performance with ergonomically controls
4. Stage: Ceramic coated rectangular mechanical stage with coaxial X and Y motion control knob on right-hand
5. Eye Piece tube: Wide field trinocular tube with eyepiece 10x with field of vision 25mm or better with titling angle and adjustable inter-pupillary distance. Interpupillary distance adjustment should range from 48-75 mm,
6. Eye Piece: Wide field paired eye pieces of 10x, FOV 25mm or better (Field No.25)
7. Nose Piece: 6 position nosepiece to accommodate 6 objectives at a time. It should also have slot for analyser/ polarizer.
8. Illumination: LED lamp with life of 30,000 hours or better , pre-centered and pre-focussed.
9. Condenser & the light relay system fitted with high performance aspheric lenses for bright & uniform illumination
10. External Filters: Daylight blue correction filter, neutral density filters and green filter with light Intensity control.
11. Condenser: Bright field condenser with N.A. 0.9 or more

B. Petaheaded Attachment

It should have modular accessories for simultaneous observations of the same specimen by five persons including main observer, two each on either side

sitting face to face, while giving the same constant degree of brightness, orientation and viewing height.

There should be two color LED arrow pointer with variable intensity and with Green and Red colour selection

- C. Polarizing Attachment and fluorescent attachment.
Polarizer analyzer to be fitted with the body of the microscope.
2) The system should have fluorescence attachment with 4 or more turret. Filters DAPI, FITC, TRITC. Average life should be 2000 or better.
- D. Camera & Software - Digital Colour CCD/CMOS Camera with with HDMI Multi output
12MP or better resolution and pixel size of 5µm X 5µm. Software to capture and image processing like Length, area Measurement etc. Camera should be Capable to acquire BF, PH, Fluorescence, DF, Polarizing images. Microscope, Camera & Software should be from same make for better compatibility.
- E. Computer System - i5 processor, 8GB RAM, 500GB HDD, DVR R/W, TFT 20 along with genuine windows operating system.
- F. There should be provision for demonstration before final approval of equipment
- G. Microscope should be CE Europe and US FDA certified.
- H. Should be provided UPS
- I. Product specification – Camera ,software and microscope should be manufactured by the same manufacturer.
- J. 18 Instrument should have an operating voltage suitable for Indian plugs. Voltage supply 220-240 V-50/60 Hz.
- K. The bidder should justify each specification point by point in their order of requirement and should provide the evidence for the same in the technical brochures of the instrument with page number. Photocopied catalogues will not be considered for technical specification evaluation.

Item 18. Fully automated Flexible Coverslipping workstation

1. Should produce slides with superior optical quality for reliable long-term storage.
2. It should allow for each single glass slide separately and without bubbles.
3. It should have active carbon filters for safety.
4. It should have the storage capacity of about 200- 350 pcs. of slides.
5. Should be capable of cover slipping 200- 300 slides per hour
6. Should be able to handle slide racks of various manufacturers and should be adaptable to individual laboratory requirements
7. Should be used with common range of mounting media including mounting with wet mountants. Should dispense adequate amount of mount ant for coverslipping each slide.

8. Should be equally useful for histopathology and cytopathology slides
9. Should be highly reliable, cause minimum wastage and form a fully automated walk-away system.
10. Should have an inbuilt system for fume extraction so as to minimize exposure of lab personnel
11. Documents supporting track record and satisfactory performance from institutions of national importance (minimum of one) should be provided.
12. The equipment should be USA- FDA and European- CE approved
13. Instrument should have an operating voltage suitable for Indian plugs. Voltage supply 230 V-50/60 Hz.
14. Should be provided with UPS.
15. The bidder should justify each specification point by point in their order of requirement and should provide the evidence for the same in the technical brochures of the instrument with page number. Photocopied catalogues will not be considered for technical specification evaluation.

Item no. 19 Specifications of Binocular Microscope with high end semiapochromatic optics of international standard QTY-7

Body: Binocular, sturdy, stable base body with focus adjustment controls.

Eye piece: Paired, high quality, (the image of the object as seen through the binocular eyepiece should be well defined centrally in at least 2/3 field of view), semiapochromatic/Plan apochromatic , wide field, 10x with inbuilt pointer. The eyepiece should be aplanatic and have a minimum field number of 25 Diopter adjustment must be present on both eye pieces or on the eye piece tube.

Optical system should be infinity corrected.

System complete with illumination system is required

Objective: Plan Semi Apochromatic/ Apochromatic 5x/0.15, Semi Apochromatic Objective lenses - 10x/0.45; 20x/0.75; 40x/0.85 (spring); 100x/1.40 (Spring,oil.)

100x should have numerical aperture of 1.40 and should be of oil immersion and spring loaded type. Suitable prominent marking should be provided on 100x for easy identification. Unbreakable containers to be provided for storing the objectives. All objectives should be wide field, semi apochromatic/apochromatic and parfocal.

Making for the Objectives : Each objective should be engraved with the following information's :

Name of the manufacturer-

Magnification and numerical aperture, for example, 10x/0.25

100x objective should be engraved with the word 'Oil' in changing from one objective to another or reintroducing the same objective by rotation of the nosepiece, the object at the center of the field should not appear displaced by more than 0.02 mm in the object plane in any direction.

Nose piece: Revolving nose piece to accommodate a minimum of six objectives with click stops. It should be provided with ribbed grip for easy rotation mounted on a precision ball bearing mechanism for smooth and accurate alignment. Extra ports if any should be fitted with dust proof metallic/ebonite caps.

Stage uniformly horizontal, mechanical stage having dimensions of length 140 mm (+/- 20mm) with fine vernier graduations (minimum reading accuracy of 0.1 mm). The stage should be provided with spring loaded slide holder for exact positioning of specimen/ slide. It should be designed with convenient sub-stage vertical coaxial adjustment for slide manipulation. The stage should have ball-bearing arrangement to allow smooth travel in transverse directions i.e. 80 mm (+/-5mm) and front to back direction, 50mm (+/5mm).

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 should have a filter holder and removable/ swing in/ out blue filter (suitable for bright field Microscopy), neutral density filter and green filter (minimum 3 built in filters) with light intensity control. (provided externally)

Sub-stage illuminator:

The system should have a build-in variable light source (Illuminator). This light source should be LED. The circuitry for the light source should include a constant voltage supply.

The system should be provided with a step down transformer and an on-off switch and intensity control. The lamp should be provided with a lamp socket which has the facility for easy replacement of the bulb,

Power supply: Voltage 220 V AC, 50Hz. should have one on-off power switch, 3 core power cord with a 3 point male plug.

The system should have an inbuilt protective/ safety device to withstand fluctuations of voltage from 140 V to 280 V.

The fuse for the LED lamp should be easily accessible to the operator

The Illuminator should have a build-in field diaphragm for Kohler illumination.

Eye piece tubes: Binocular eye piece tubes, inclined at 45 degrees, rotatable through an angle of 360 degrees, having inter-pupillary distance range of 48-74 mm or wider, covering the above mentioned range.

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 should have sensitivity of two microns or less (finer) over the entire coarse focusing stop safety arrangement should be provided.

General:

All optical parts including objectives, eye pieces and prisms should have anti-reflective coating which also gives anti-fungal property.

All metallic parts should be corrosion-proof, acidproof and stain-proof.

Working manual should be provided with each microscope.

A bottle of at least 25 ml immersion oil, a roll of lens tissue paper and lens cleaning solution (100 ml) should be provided with each microscope and at least one LED lamp . LED replacement charges to be quoted for next five years.

One anti static cleaning brush should be provided with each Microscope for cleaning purpose.

Microscope should be supplied with all spare parts including Fuses 6 Nos.

All consumables required for installation and standardization of system and microscope cover to be given free of cost.

The unit shall be capable of being stored continuously in ambient temperature of 0 - 50 deg C and relative humidity of 15-90%.

Should be FDA and CE Europe certified .

Three years warranty, 5 yrs comprehensive AMC should be available with service centers in close proximity.

User/Technical/Maintenance manuals to be supplied.

Certificate of calibration and inspection from factory.

List of important spare parts and accessories with their part number and costing.

8. Sample to be shown

9. The bidder should justify each specification point by point in their order of requirement and should provide the evidence for the same in the technical brochures

of the instrument with page number. Photocopied catalogues will not be considered for technical specification evaluation.

All other terms and conditions of the tender enquiry document shall remain unchanged.

Prospective bidders are advised to regularly visit HSCC website/ CPPP website for corrigendum/amendments etc. if any, as these will be notified on these portals only. No separate advertisement will published in the news papers in this regard.

s/d

**CGM, HSCC India Limited
For and on behalf of DGMR, Panchkula**