

No. NFSU/GNR/43(6)2024-Pur. / 429

Date: 29<sup>th</sup> May 2024

**CORRIGENDUM**

1. In partial modification in the tender document for supply and installation of Comparison Microscope at NFSU Gandhinagar, published on CPPP and university's website( [www.nfsu.ac.in](http://www.nfsu.ac.in)) vide tender Id. No. 2024\_NFSU\_804171\_1(Ref. No. NFSU/GNR/43(6)/2024-Pur. /CPP59), the technical specification is hereby amended as under:-

| Items             | Tender Specification                                                                                  | Specification amended                                                                                                                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heading           | Specifications for Ballistic Comparison Microscope with Zooming Feature                               | <b>Specifications for Ballistic Comparison Microscope with Zooming/Magnifying Feature</b>                                                                                                                                         |
| 1. Optical system | ii. Magnification ranges from 6× - 148× (with 1× objectives) or better                                | <b>Magnification range between 6× - 120× or more</b>                                                                                                                                                                              |
|                   | i. Motorized Zoom based optics                                                                        | <b>All type of design/ objective for Optical system of Comparison Microscope is acceptable to achieve the required, magnification and other parameters of tender including zoom, camera port position and motorised function.</b> |
|                   | iii. Fifteen or more pre-programmed magnification set points and 10 or more programmable set points   |                                                                                                                                                                                                                                   |
|                   | iv. 900 or better matched-magnification setting                                                       |                                                                                                                                                                                                                                   |
|                   | vii. 1× Plan Apochromatic objective (pair).                                                           |                                                                                                                                                                                                                                   |
|                   | viii. Continuous working distance (WD) 60mm (with 1x objectives) or better                            |                                                                                                                                                                                                                                   |
|                   | x. Numerical Aperture (NA) 0.144 or better                                                            |                                                                                                                                                                                                                                   |
|                   | xiv. Motorized mask controller provides three automated modes of operation for programmable two-state |                                                                                                                                                                                                                                   |




|                |                                     |                                                                                                                                                                                 |                                                                                                           |
|----------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|                |                                     | mask width, superimposed view, and automatic image sweep functions.                                                                                                             |                                                                                                           |
|                |                                     | xv. Motorized zoom control on touchpad for synchronous or independent magnification control.                                                                                    |                                                                                                           |
|                |                                     | xvi. Integrated camera port with C-mount provides 100/0 and 70/30 positions, allowing samples to be viewed through the ocular only or binocular and camera image simultaneously |                                                                                                           |
| 2. Lighting    | B. Halogen Based cold light source: | i. Dimmable & 150 Watt or better                                                                                                                                                | <b>Halogen / LED Light source with adjustable light intensity</b>                                         |
| 3. Stage       | ii.                                 | Approx 7" x 9" stage platform                                                                                                                                                   | <b>Approx 6" x 8" stage platform (160x 220 mm) or better</b>                                              |
|                | iii.                                | X/Y travel: 90-95 mm                                                                                                                                                            | <b>iii. X/Y travel: 90 mm or more</b>                                                                     |
|                | ii.                                 | Z travel: 30 to 36mm                                                                                                                                                            | <b>iv. Z travel: 25 mm or more</b>                                                                        |
|                | iii.                                | X/Y axis stage motion and 1.65"(42 mm) Z axis stage motion(Tilt option required)                                                                                                | <b>Additional requirement: X/Y axis stage motion &amp; Z axis stage motion. (Tilting option required)</b> |
| 5. Workstation | i.                                  | Table dimensions: 36" x 24"                                                                                                                                                     | <b>All type of motorized table is acceptable to achieve tender specification and parameters.</b>          |
|                | ii.                                 | Motorized Z-axis column.                                                                                                                                                        |                                                                                                           |
|                | iii.                                | Object roll- off protection edge                                                                                                                                                |                                                                                                           |
|                | iv.                                 | SyCoP system control panel for control of microscope zoom bodies, synchronously or independently                                                                                |                                                                                                           |



|           |                                                                                                                              |                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|           | v. Adjustable height aluminum legs with motorized lead screw drive for 12" (300 mm) table height adjustment, from 26" - 38". | <b>[workstation point no i to viii]</b>                                                                                      |
|           | vi. Accessory support posts (2) which can be positioned over an 18" range, from right to left.                               |                                                                                                                              |
|           | vii. Universal power supply.                                                                                                 |                                                                                                                              |
|           | viii. Control pendant for operation of z-axis column, table height                                                           |                                                                                                                              |
| 6. Camera | ii. Pixel size: 4.54 $\mu\text{m}$ $\times$ 4.54 $\mu\text{m}$ or better                                                     | <b>Recommended Pixel Size:<br/>4.54 <math>\mu\text{m}</math> <math>\times</math> 4.54 <math>\mu\text{m}</math> or better</b> |
|           | iii. Chip size: 12 mm $\times$ 10 mm, equivalent to 1" (16 mm diagonal) or better                                            | <b>Recommended chip size: 12 mm <math>\times</math> 10 mm</b>                                                                |
|           | iv. Spectral range: With IR barrier filter app. 400 nm to 720 nm                                                             | <b>Spectral range: With IR barrier filter app.</b>                                                                           |
|           | v. Max. Full Well Capacity: Approx. 15,000 e                                                                                 | <b>Clause may be removed</b>                                                                                                 |
|           | vi. Cooling: One stage Peltier cooling, regulated to 18°C sensor temperature                                                 | <b>Peltier/ Passive cooling</b>                                                                                              |

2. The last date of receipt of online bid is hereby extended upto 10.6.2024 and bid will be opened on 12.6.2024.

3. All other terms and conditions of the said tender will remain unchanged.

  
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