



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान पुणे
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

निविदा संख्या पर प्रीबिड स्पष्टीकरण - आईआईएसईआर/पीयूआर/1254/23
PREBID CLARIFICATION ON TENDER NUMBER - IISER/PUR/1254/23

आइटम विवरण- लेजर स्कैनिंग कन्फोकल माइक्रोस्कोप
ITEM DESCRIPTION- LASER SCANNING CONFOCAL MICROSCOPE

लेजर स्कैनिंग कन्फोकल माइक्रोस्कोप की खरीद के लिए संस्थान की वेबसाइट www.iiserpune.ac.in और CPP पोर्टल पर 01/11/2023 को प्रकाशित वैश्विक निविदा देखें।

Refer a Global tender published on Institute website www.iiserpune.ac.in and on CPP Portal on 01/11/2023 for procurement of Laser Scanning Confocal Microscope.

बोली-पूर्व बैठक 10/11/2023 को अपराह्न 3.00 बजे आयोजित की गई और बैठक का विवरण इस प्रकार है:

Pre-Bid meeting was held on 10/11/2023 at 3.00 PM and minutes of meeting is as under:

प्रारंभ में, अध्यक्ष ने सभी सदस्यों और संभावित बोलीदाताओं के प्रतिनिधियों का स्वागत किया और सामान्य रूप से निविदा के दायरे के बारे में जानकारी दी और उसके बाद सहायक रजिस्ट्रार (एसएंडपी) से बोलीदाताओं को निविदा की मुख्य विशेषताओं के बारे में जानकारी देने का अनुरोध किया।

At the outset, the Chairman welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the tender and thereafter requested Assistant Registrar (S&P) to brief the bidders on the salient features of the tender.

उपस्थित प्रतिनिधि दिए गए उत्तरों से संतुष्ट थे और यह सूचित किया गया था कि प्री-बिड कॉन्फ्रेंस के दौरान की गई चर्चा के अनुसार दिए गए सुधार / परिवर्धन / स्पष्टीकरण को IISER पुणे की वेबसाइट पर होस्ट किया जाएगा और सभी संभावित बोलीदाताओं को बोली दस्तावेजों में निर्धारित अनुसार अपनी बोली जमा करने से पहले प्री-बिड सम्मेलन की कार्यवाही का संज्ञान लेना आवश्यक है।

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of IISER Pune and all the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

हमारी IISER वेबसाइट www.iiserpune.ac.in पर जारी नोटिस के अन्य नियम और शर्तें अपरिवर्तित रहेंगी। इस संबंध में किसी भी पत्राचार पर विचार नहीं किया जाएगा।

The other terms & conditions of the notice issued on our IISER website www.iiserpune.ac.in will remain unchanged. No more correspondence in this regard will be entertained

अध्यक्ष को धन्यवाद ज्ञापन के साथ बैठक समाप्त हुई।

The meeting ended with vote of thanks to the Chair.

10/11/2023

10/11/2023

Sd/-

सहायक कुलसचिव (भांडार एवं क्रय)

Assistant Registrar (S&P)

TECHNICAL AND COMMERCIAL QUERIES AND CLARIFICATION

PRE-BID CONFERENCE FOR PROCUREMENT OF LASER SCANNING CONFOCAL MICROSCOPE

Sl.No	Query/Clarification Sought	Clarification / Amendment
1	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No. 10, Lasers:</u></p> <p><u>Query 1:</u> All the Lasers should be of 20mW or more. Provision should be there to add additional 5 to 7 lasers like 445, 514 and 594nm.</p> <p><u>Query 2:</u> Request if the laser power can be changed to 40-50mW at source or better OR 15-20mW at fibre out.</p> <p><u>Query 3:</u> Request you to change point No.6 and 8 PMTs/HYDs488nm 20mW561nm 20mW640/638nm 30mW</p>	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No. 10, Lasers amended to:</u></p> <p>All the lasers should be solid state and the power should be 20 mW or better and regulated by AOTF for fast switching. Required lasers are mentioned below. 405nm, 488nm, 561nm, 640nm. We should be able to upgrade to at least two more lasers</p>
2	<p><u>Page No. 22, chapter No. 4, Point No. 1, Sub-Point No. 1, Anti-vibration table:</u></p> <p><u>Query 1:</u> Request you to change Honeycomb/microscope grooved</p>	<p><u>Page No. 22, chapter No. 4, Point No. 1, Sub-Point No. 1, Anti-vibration table amended to:</u></p> <p>A Passive anti-vibration table with honeycomb table top or microscope grooved for vibration isolation should be provided. With rack to carry accessories.</p>
3	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No 6 Spectral Separation:</u></p> <p><u>Query 1:</u> The spectral separation module should have a wavelength resolution of at least 2 to 5 nm throughout the spectrum and spectral Band width should be variable from 2 to 100 nm on both sides of the spectrum and can be imaged by the PMTs simultaneously or sequentially.</p>	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No 6 Spectral Separation amended to:</u></p> <p>The spectral separation module should have a wavelength resolution 2 to 5 nm and can be imaged by the PMTs or Sensitive detectors simultaneously or sequentially.</p>

4	<p><u>Page No. 22, chapter No. 4, Point No. 1, Sub-Point No 1 Touch pad:</u></p> <p><u>Query 1:</u> requesting if above specification can be mentioned as Touchpad/Tab to control the microscope.</p>	<p><u>Page No. 22, chapter No. 4, Point No. 1, Sub-Point No 1 Touch pad amended to:</u></p> <p>The microscope should have a fully motorized frame with bright field, fluorescence, and DIC modules including motorized focusing, nose piece, condenser, turret, eyepiece, camera and confocal mode switching, and motorized stage. It should include a touchpad/tab to control all the motorized components.</p>
5	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No 8 Detectors:</u></p> <p><u>Query 1:</u> We will be able to offer 2 PMT and 2 GaAsp combination or other option is all 4GaAsp (high sensitivity) can be offered.</p> <p><u>Query 2:</u> Request you to change point No.6 and 8 PMTs/HYDs,</p> <p><u>Query 3:</u> All the detectors should have the capability of variable barrier filter image acquisition mode and multi-channel parallel lambda scan mode, the system should have 2 high-sensitivity PMTs (GaAsp, HyD, or HSD) and 1 transmitted PMT detector dedicated to DIC or brightfield imaging in confocal mode. Provision should be there to add additional two High Sensitivity ((GaAsp, HyD, or HSD) or Two Standard PMT.</p>	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No 8 Detectors amended to:</u></p> <p>The system should have two high-sensitivity PMTs(GaAsp/HyD/HSD) and 1 transmitted PMT detector for DIC or brightfield imaging in the confocal mode. The system should be upgradeable to two additional high sensitive PMTs.</p>
6	<p><u>Page No. 24, chapter No. 4, Point No. 3, Sub-Point No 4, Imaging Software:</u></p> <p><u>Query1:</u> Request you to remove Kymographs software module</p>	<p><u>Page No. 24, chapter No. 4, Point No. 3, Sub-Point No 4, Imaging Software amended to:</u></p> <p>Basic image processing features like histogram adjustment, background subtraction, shading correction, cropping, channel shift correction, and other geometric processing, along with spectral unmixing should be provided. Additionally, image analysis modules like colocalization, FRAP, FRET, Ratio-metric analysis, counting, and intensity measurements should be quoted. Bleaching should be possible with multiple ROI with different lasers and customization scan speed.</p>

7	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No 4,</u> <u>Query 1:</u> Request you to remove 1x Zoom.</p> <p><u>Query 2:</u> A laser scanning microscope based on galvometer with at least 7-10 fps at 512x512 pixels or better should be quoted. It's not possible to achieve such speed at 1X zoom in Galvo scanner. Additionally, please advise if Resonant Scanner is to be offered as optional or as main part of the equipment.</p>	<p><u>Page No. 23, chapter No. 4, Point No. 2, Sub-Point No 4, amended to:</u> A laser scanning module based on a galvanometer with at least 7-10 fps at 512 x 512 pixels. The software should have the capability to acquire up to 4k resolution or better. The scanner's field of view should be 18 mm or higher. The galvanometer scanner should be able to bleach the region of interest marked in the software for bleaching experiments (FRAP, FRET, etc.) In addition, a resonant scanner for high speed imaging should be quoted.</p>
8	<p><u>Page No. 24, chapter No. 4, Point No. 3, Sub-Point No 2</u> <u>Query 1:</u> We would like to request to remove the Photon counting as NIS Elements is not having this module. We look forward for you kind consideration enabling us to participate in the tender</p>	<p><u>Page No. 24, chapter No. 4, Point No. 3, Sub-Point No 2 amended to:</u> Image detection should be done with integration mode.</p>