



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-0850-17

ITEM DESCRIPTION- PROCUREMENT OF PATCH CLAMP ELECTROPHYSIOLOGY SET-UP

Refer our Press Tender Notice No.IISER/S&P/21/17 dated /9/2017 for procurement of Patch Clamp Electrophysiology Set-Up . Tender Reference Number - IISER-PUR-0850-17.

Pre-Bid meeting was held on September 08th , 2017 at 3.30 PM and minutes of meeting is as under.

At the outset, the Chairman welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the Project and thereafter requested Assistant Registrar (S&P) to brief the vendors on the salient features of the commercial terms and the indenting Officer to read out the clarification sought by the Prospective Bidders and replied thereto as detailed in Annexure -II

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.

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

The meeting ended with vote of thanks to the Chair.

8.9.2017

Sd/-
Assistant Registrar (S&P)



IISER PUNE
PRE-BID CONFERENCE FOR PATCH CLAMP ELECTROPHYSIOLOGY SET-UP
TECHNICAL & COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0850-17

DATE : 8.9.17

S.No	Query/Clarification Sought	Clarification / Amendment
1.1	<p>Page 18: Technical specifications for Fixed Stage Microscope with IR DIC for Patch clamp 2) Motorized Z focus with 5nm or better step size.</p>	Motorized Z focus with 10nm or better step size.
1.2	<p>Page 18: Technical specifications for Fixed Stage Microscope with IR DIC for Patch clamp 4) An inbuilt shutter and diaphragm module for transmitted light IR Illumination</p>	An inbuilt shutter and diaphragm module / outside control through software for transmitted light IR Illumination
1.3	<p>Page 18: Technical specifications for Fixed Stage Microscope with IR DIC for Patch clamp Eye piece tube - It should be a motorized trinocular tube. The phototube for fixed stage microscope should be with minimum 2 switching positions: 100 % light to the eyepieces and 100% light to the photo port. It should include 1.25x or better magnification lens inbuilt. It should have 10x or better eyepieces pair with 22mm or more FOV.</p>	Eye piece tube - It should be a Manual/motorized trinocular tube. The photo-tube for fixed stage microscope should be with minimum 2 switching positions: 100 % light to the eyepieces and 100% light to the photo port. It should include 1.25x /2x /4x or better magni-fication lens inbuilt. It should have 10x or better eyepieces pair with 22mm

		or more FOV. Vendors may quote for both and final selection will be based on the cost-benefit analysis.
1.4	<p>Page 18: Technical specifications for Fixed Stage Microscope with IR DIC for Patch clamp</p> <p>The external light source should be alignment-free with attenuator and 5ms or faster shutter based 120W/130W Mercury/Metal Halide light source. Should have 5 or more positions based neutral density filter wheel. Lifetime of the source should be minimum 2000h. The light source should be controlled by software and touch screen panel.</p>	The external light source should be alignment-free with attenuator and 5ms or faster shutter based 120W/130W/200W Mercury/Metal Halide/LED light source.
1.5	<p>Page 18: Technical specifications for Fixed Stage Microscope with IR DIC for Patch clamp</p> <p>Microscope should have a motorized two position friction free nosepiece to adapt two objectives simultaneously and should have slot for IR-DIC prism.</p>	Microscope should have a motorized/manual two position friction free nosepiece to adapt two objectives simultaneously and should have a slot for IR-DIC prism. Vendors may quote for both and final selection will be based on the cost-benefit analysis
1.6	<p>Page 18: Technical specifications for Fixed Stage Microscope with IR DIC for Patch clamp</p> <p>Microscope should be provided with the following objectives: Plan Apochromate objective lens LWD 10x / 0.30 NA or better, with a minimum working distance of 3.5 mm or better Plan Apochromate objective lens LWD 20x / 0.50 NA or better, with a minimum working distance of 3.5 mm or better. Plan Apochromate objective lens LWD 40x / 0.80 NA or better, with a minimum working distance of 3.2 mm or better Plan Apochromate objective lens LWD 60 / 63x / 0.90 NA or better, with a minimum working distance of 2 mm or better All objectives Should be of water immersion quality with ceramic top. Should be corrected for UV, Visible and InfraRed transmission.</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>
1.7	<p>Page 19: Technical specifications for Fixed Stage Microscope with IR DIC for Patch clamp</p> <p>Condenser: Microscope should be provided with a centerable</p>	Condenser: Microscope should be provided with a centerable condenser for Koehler illumination, for Bright field, Phase Contrast,

	<p>condenser for Koehler illumination, for Bright field, Phase Contrast, Polarization Contrast and IR-DIC, including manual holder for attaching to the microscope stand. Travel range of 28 mm or more, manual stop for the optimum "Koehler" position Condenser-base should be with 4 positions-turret for prisms or light ring, one mount for the condenser head 0.9NA or better, water drainage, manual aperture diaphragm, with manual centering for the field diaphragm, IR polarizer and IR Analyzer.</p>	<p>Polarization Contrast and IR-DIC, including manual holder for attaching to the microscope stand. Travel range of 28 mm or more, manual stop for the optimum "Koehler" position Condenser-base should be with 4 positions-turret for prisms or light ring, one mount for the condenser head 0.8 NA or better, water drainage, manual aperture diaphragm, with manual centering for the field diaphragm, IR polarizer and IR Analyzer.</p>
2.1	<p>Page 19: Technical specifications for Inverted Fluorescence Microscope with Monochrome Camera Inverted Frame: Ergonomic Stand with inbuilt Z-focus drive and working range should be 12mm or better. The microscope should have both Coarse and fine focusing knobs in main frame. The system should have a microscope main body mounted with LED indicators & LED should be controlled either by microscope frame or with separate panel.</p>	<p>Tender Specification prevails. No change in the specification. Here we specify working range of the Z-focus should be 12 mm or better. Not the step size.</p>
2.2	<p>Page 19: Technical specifications for Inverted Fluorescence Microscope with Monochrome Camera Transmitted Light system: Transmitted light column with Field Diaphragm, equipped with 12V 100W Halogen / White light LED Illumination with intensity control through microscope frame, main frame inbuilt knob and imaging software. Both light sources should be with 10ms or faster inbuilt shutter.</p>	<p>Transmitted Light system: Transmitted light column with Field Diaphragm, equipped with 12V 100W Halogen / White light LED Illumination with intensity control through microscope frame, main frame inbuilt knob and imaging software. Both light sources should be with fast inbuilt shutter.</p>
2.3	<p>Page 20: Technical specifications for Inverted Fluorescence Microscope with Monochrome Camera Camera: Dedicated microscopy High sensitive and high speed Monochromatic Peltier cooled digital camera with a CCD sensor of minimum 1.3 M Pixel resolution. Minimum 30 fps or higher in full frame. Along with 0.3X ~ 0.7x C-mount adapter should be included.</p>	<p>Camera: Dedicated microscopy High sensitive and high speed Monochromatic Peltier cooled digital camera with a CCD sensor of minimum 1.3 M Pixel resolution. Minimum 30 fps or higher in full frame. Along with 0.3X /0.5/ 0.7x C-mount adapter should be included.</p>
3.1	<p>Page 20: Technical specifications for Stereo Zoom Microscope with HD Camera Stereo microscope with zoom ratio 10 or 8:1, Trinocular</p>	<p>Stereo microscope with zoom ratio 10 or 7:1 or better. Vendors may quote for options with different zoom ratios and final selection will</p>

	<p>Magnification range 5x (or lower) to 80x (or higher) (FOV 70 mm-2.5mm) with 1x Apochromat and additional Distortion free 0.32x objective (W.D. 200mm) or better</p>	<p>be based on the cost-benefit analysis. No change for other specifications.</p>
<p>3.2</p>	<p>Page 21: Technical specifications for Stereo Zoom Microscope with HD Camera Focusable eyepieces with 10x, F.N. 23 or better & 20x with F.N. 12 or larger. Adjustable depth of field from the finest built in zoom body should be possible. Stereo zoom microscope with fully apochromatic optical system. Eyepiece reticule and stage micrometre 38 degrees or better inclined binocular observation tube and port for camera.</p>	<p>Tender Specification prevails. No change in the specification.</p>
<p>3.3</p>	<p>Page 21: Technical specifications for Stereo Zoom Microscope with HD Camera Flex-arm stand with table clamp and Counterbalance adj. weight (1.5 to 7 kg Load) to be mountable onto a table with thickness of 100 mm. extension upto 995 mm (360° arc). Microscope should be mountable on the flex arm stand, a stand providing maximum freedom, flexibility and adjustability. The arm joints should have the flexibility to move/rotate in 360 degrees. Transmitted light stage with LED Illumination, should be movable to desired sample position along with above mentioned Flex-arm. Episcopic ring light illuminator (LED) with integrated power supply & control Bifurcated cold light source with power supply and control High Sensitive and High Definition CMOS / CCD camera with minimum 5MP resolution. Should have SDCard facility to store images directly onto camera. USB interface along with software for image acquisition. Should have High Definition Monitor Interface for live image display. Along with 0.5x-0.7x C-mount adaptor. Microscope, camera & software should be from the single manufacture.</p>	<p>Tender Specification prevails. No change in the specification.</p>