



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

TIRUPATI

CLARIFICATION ON TENDER NUMBER - IISERT-PUR-0023-18

ITEM DESCRIPTION- PROCUREMENT OF **DUAL BEAM OPTICAL TWEEZERS**

Refer our Press Tender Notice No.IISERT/S&P/02/18 dated 04.06.2018 for procurement of DUAL BEAM OPTICAL TWEEZERS.Tender Reference Number - **IISERT-PUR-0023-18**.

Pre-Bid meeting was held on June 11th, 2018 at 14.30 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 Tirupati 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.iisertirupati.ac .in](http://www.iisertirupati.ac.in) will remain unchanged. No more correspondence in this regard will be entertained

The meeting ended with vote of thanks to the Chair

27.06.2018

Sd/-
Assistant Registrar (S&P)



ANNEXURE -II

IISER TIRUPATI
PRE-BID CONFERENCE FOR PROCUREMENT OF DUAL BEAM OPTICAL TWEEZERS

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - **IISERT-PUR-0023-18**

DATE: 11.06.18

S.No	Query/Clarification Sought	Clarification/Amendment
01.	<p>Page No. 22, Chapter 4</p> <p>A vendor wanted to clarify if the force detection is required in XY or XYZ.</p>	<p>Page No. 22, Chapter 4</p> <p>The OT setup will be used to perform high resolution protein folding experiments. Force detection in the XY plane is enough for this application.</p> <p>Hence tender specification prevails</p>
02.	<p>Page No. 22, Chapter 4</p> <p>A vendor wanted to clarify about the maximum duration of force stability and also on the kind of application studies</p> <p>Existing specification:</p> <p>The system should provide an exceptional long-term force stability. (Force stability: <1.0 pN drift over 2 minutes or better)</p>	<p>Page No. 22, Chapter 4</p> <p>To study slow kinetics, the longer we can record a drift free Force vs Time data the more number of events we can observe. So, there was no maximum limit set for these but the instrument should be capable of a minimum of 2 minutes of < 1.0 pN drift free data acquisition or better.</p> <p>Hence tender specification prevails. The following point has been added:</p> <p>The vendors should provide relevant literature/data to support this specification. The same will be considered for further evaluation.</p>
03.	<p>Page No. 22, Chapter 4</p>	<p>Page No. 23, Chapter 4</p>

	<p>One vendor wanted a clarification on the following specifications.</p> <p>14. Force acquisition rate: At least 50 kHz 15. Trap distance resolution: <3 Å @100 Hz or better 16. Minimal incremental step size: <0.2 nm or better 17. Trap stiffness: Up to 1.5 pN/nm 18. Camera-based live bead tracking accuracy: <3 nm @100 Hz or better 19. Laser stability: <0.1% over its full dynamic range (0-100%).</p>	<p>These specifications are the minimum requirements for performing a high resolution protein dynamics experiments. They will enable us</p> <ul style="list-style-type: none"> • to achieve information such as population of short lived intermediate states, energy landscape of proteins, internal friction • to get a good signal/noise ratio. • live bead tracking will allow fast bead trapping <p>Hence tender specification prevails. The following point has been added:</p> <p>The vendors should provide relevant literature/data to support these specifications. The same will be considered for further evaluation.</p>
04.	<p>Page No. 23, Chapter 4</p> <p>One vendor wanted a clarification on the following specifications.</p> <p>Should be upgradable to 1D STED super-resolution nanoscopy.</p>	<p>Page No. 23, Chapter 4</p> <p>This specification was included as an optional as it is subjected to price and availability of budget. STED in addition Dual beam OT was included to increase the scope of applications for the users.</p>
05	<p>Page No. 23, Chapter 4</p> <p>One vendor raised a point about the provision of the UPS facility</p>	<p>The following point has been added:</p> <p>An UPS should be included to provide a backup of at least 1hr so that the data for the ongoing experiment is saved</p>



ANNEXURE -III

**IISER TIRUPATI
PRE-BID CONFERENCE FOR PROCUREMENT OF DUAL BEAM OPTICAL TWEEZERS**

COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - **IISERT-PUR-0023-18**

DATE: 11.06.18

S.No	Query/Clarification Sought	Clarification/Amendment
01.	<p>Page No. 12, Chapter 2 Point No.4.1</p> <p>Within ten (15) days of the award of contract, the vendor shall furnish a Security Deposit amounting to 10% of the purchase order value in the form of Demand Draft/Bank Guarantee (from scheduled Bank only) favoring the Director, Indian Institute of Science Education and Research, Tirupati.</p>	<p>Page No. 12, Chapter 2 Point No.4.1</p> <p>Within Fifteen (15) days of the award of contract, the vendor shall furnish a Security Deposit amounting to 10% of the purchase order value in the form of Demand Draft/Bank Guarantee (from scheduled Bank only) favoring the Director, Indian Institute of Science Education and Research, Tirupati.</p>