

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

TIRUPATI

ADDENDUM ON TENDER NUMBER - IISERT-PUR-0058-16

ITEM DESCRIPTION- ISOTHERMAL TITRATION CALORIMETRY

Please refer our Press Tender Notice No.IISER/S&P/09/16 dated 7.10.2016 for procurement of Isothermal Titration Calorimetry. In this regard refer Pre-Bid Conference held on October 20, 2016

All the Prospective Bidders are required to take cognizance of the addendum (given below) before submitting their bids.

Please note that there is no change in last date and time for submission of bid documents. The last date remains same i.e November 09, 2016, Time – 3.00 pm

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

Sd/07.11.2016 Assistant Registrar (S&P)

DATE: 07.11.16



IISER TIRUPATI

ADDENDUM ON PRE-BID CONFERENCE CLARIFICATION FOR PROCUREMENT OF ISOTHERMAL TITRATION CALORIMETRY

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISERT-PUR-0058-16

S.No	Query/Clarification Sought	Clarification / Amendment
01	Sl. No. 03 Page No – 22 , Chapter 4 , point no 7	The instrument must have a high-sensitivity cell made of compatible material like Hastelloy or Gold
	Tender specifications: The instrument must have a high-sensitivity cell made of compatible material like Hastelloy or Gold (Au0) to allow for the widest range of reagent chemistry, easy cleaning and facilities efficient stirring of the solution. Vendors to specify the working detail about the resistivity of the constituent material to various possible samples. Cell material should be very high chemical resistance to extremes of pH and solvents.	(Au0) to allow for the widest range of reagent.
	Amended specifications: The instrument must have a high-sensitivity cell made of Hastelloy to allow for the widest range of reagent chemistry, easy cleaning and facilities efficient stirring of the solution. Cell material should have very high chemical resistance and should tolerate extremes of pH and solvents. Also, the cell should not react with S-containing groups or strong reducing agents.	
	Clarification requested by one of the bidders: The Nano ITC LV has sample and reference cells composed of 99.999% Gold (0). The cells are highly inert Au(0) that ensures samples will not bind non-specifically to the cell walls while providing a higher heat conductivity of any other metal (especially Hastelloy) used in ITC instruments. All materials used in the Nano ITC are resistant to extreme pH (2-12) conditions, organic solvents, acids, bases, and typical laboratory cleaning agents such as Contrad 70 or 90. In terms of Cell material Pre-Bid committee said both the cell materials are ok. Our cell geometry is Gold and we have this because of it is highly conductive and it is non-reactive	

including thiols. Now other vendor is trying to put only Hastelloy is acceptable. Whereas they were matching the specifications before and now which is making us to technically not acceptable in the tender tomorrow during the evaluation process. 02 Sl. No. 05 Page No – 23, Chapter 4, point no 17 For most of the intended use of the instrument in terms of drug and protein interactions (also peptide **Tender specifications:** Should have user definable mixing speed. Suggestion by nanostructures/ligand interactions and so forth), higher stirring rates are crucial. Higher stirring one of the bidders "We request that the specification should mention the rates (of up to 1000 rpm) ensure homogenous desired speed range." mixing in the cell with more reproducible data. As far as protein denaturation due to stirring is **Amended specifications:** For the current and future applications of the concerned, most of the proteins and all of the instrument, stirring speeds of minimum up to 1000 rpm is required. peptide nanostructures intended to be used in the instrument show remarkable stability to vigorous Clarification requested by one of the bidders: The cylindrical cells in the Nano stirring and withstand even short periods of ITC were designed and tested for stirring efficiency and the elimination of dead sonication. In addition, the modified proteins zones and entrapped air bubbles. The stirring rate for the stirring paddle is and unnatural peptides under investigation are typically in the 250-350 rpm range, minimizing potential shear damage to prone to form self-assembled nanostructures sensitive proteins. A coin-shaped cell requires a much higher stir rate (750as well as organo and hydrogels; therefore we 1000 rpm) to achieve the same stirring efficiency. Many structurally sensitive required higher rpm stirring for proper mixing. proteins have been shown to aggregate and precipitate out of solution at these We also intended to explore ITC to understand higher stir speeds. In terms of RPM as you said both the Cylindrical and Coin cell the interactions of analytes with the gel are Ok with you during the Pre-Bid meeting. Please appreciate that because of forming proteins and peptides for biomedical the cell design of the coin shape which has more volume and it requires more applications. To ensure proper mixing of RPM for mixing, but in the cylindrical cell even with the 400 RPM and we can modified proteins and peptides to understand show the applications done with the 400 RPM. The RPM has to do only with the their interactions with analytes and ligands, geometry of the cell. stirring rates of up to 1000 rpm is required.

DATE: 07.11.16



IISER TIRUPATI

ADDENDUM ON PRE-BID CONFERENCE CLARIFICATION FOR PROCUREMENT OF ISOTHERMAL TITRATION CALORIMETRY

COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISERT-PUR-0058-16

S.No	Query/Clarification Sought	Clarification / Amendment	
	NIL	NIL	