INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-0567-17

ITEM DESCRIPTION- PROCUREMENT OF ION SOURCE AND ACCELERATOR

Refer our Press Tender Notice No.IISER/S&P/18/17 dated 24.7.2017 for procurement of **Ion Source and Accelerator**. Tender Reference Number – IISER-PUR-0567-17.

Pre-Bid meeting was held on 19th July, 2017 at 2.30 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 / additons / 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 will remain unchanged. No more correspondence in this regard will be entertained

The meeting ended with vote of thanks to the Chair

Sd/-

19.7.2017 Assistant Registrar (S&P)

ANNEXURE -II

IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF ION SOURCE AND ACCELERATOR

TECHNICAL & COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0567-1 DATE : 19.7.17

Sr.No	Query/Clarification Sought	Clarification / Amendment
1	Which are the Implant species to be used?	All of the following atomic ions in fully stripped states: H, He, C, O, N, Ne, Ar and heavier rare gas ions with different charge states. Provision for switching between gaseous and solid samples (2 different sources).
2	What is the implant species polarity?	+ve species. It should be noted that the requirement is only for delivery of an ion beam, not implantation of ions.
3	What is the implant energy range, single charge (keV)?	5–30 keV/q.
4	What is the implant current (eμA)?	up to 1 nA, pulsed, with pulse repetition frequency (PRF) of 10 Hz to 10 kHz, and user defined pulse width consistent with the PRF.
5	What is the implant dose (..e../cm^2)?	No implant dose has been asked for. Beam current is as specified in Item 5 and beam emittance < 20 mm-mrad
6	The system has a long manufacturing time. Hence longer lead time is sought.	Delivery Period is amended to 10 months from opening of L/C.

7	Warranty sought is for 3 years. Normal warranty is 1 year from acceptance test. Extended warranty will involve higher cost. How is this to be reflected in the offer?	Tender details to be amended: Cost for the period upto 3 years (beyond the manufacturer's standard warranty is to be separately mentioned in the offer.
8	Page 17, item 7 specifies that the ion source cannot rely on microwave radiation or liquid cryogens. We are not aware of an ion source by any supplier that meets this. The ion source supplied can do Ar^{18+}, but uses microwave radiation. We are not sure why this limitation is there. We would like to request clarification on the same.	Microwave radiation is not considered because the ion source is also foreseen as an ion trap (e.g. for spectroscopy of high charge ions) and it is therefore necessary to avoid heating (microwave heating) of the ions in the source. For a description of a source not using microwave radiation, see e.g. the publication R Schuch et al (2010) Journal of Instrumentation (http://iopscience.iop.org/1748-0221/5/12/C12018).
9	Customer has mentioned pulsed beam modes, but do not specify pulse frequency or repetition. This impacts the price of the system. We request clarification on the same.	The desired pulse repetition frequency (PRF) is 10 Hz to 10 kHz. The pulse width should be variable from 10 ns to 1 μs (FWHM).