



## INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-0534-13

ITEM DESCRIPTION- PROCUREMENT OF 600 & 400 MHz NMR Spectrometers

Please refer our Press Tender Notice No.IISER/S&P/07/13 dated 19.09.2013 for procurement of 600 & 400 MHz NMR Spectrometers. Tender Reference Number - IISER-PUR-0534-13.

Pre-Bid meeting was held on 30<sup>th</sup> September 2013 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 / 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.

03.10.2013

Sd/-  
Assistant Registrar (S&P)



## IISER PUNE

## PRE-BID CONFERENCE FOR PROCUREMENT OF 400 MHz AND 600 MHz SPECTROMETER

## TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0534-13

DATE : 30.09.13

S.No	Query/Clarification Sought	Clarification / Amendment
1	High power linear broadband amplifiers of 500 W. Our standard system has got 50 W for highband and 300 W for low band and is perfectly sufficient for the probes we are offering. The probes will meet the specs with these; there is no reason to get stronger ones.	Power configuration was made based on the current and future requirements. Specification not changed.
2	H/C/P/N cold probe. We cannot offer this probe. Also the VT range mentioned is a bit larger than what we can do (we can do 0 to -50C?). As most solvents don't work at extremely low temperatures, so it would be useful to know what experiments they are doing	We need to carry out HCP and HCN correlation experiments. Temperature range of 0 to 80C is needed, for example, to carry out thermal denaturation measurements. Specification not changed.
3	The 5mm C-X dual probe: This would be a special if we were able to do this, so lots of additional cost and lead time. There is no logic for this probe to exist without H1 decoupling capabilities.	C-X dual probe was never mentioned in the tender specification.
4	The last probe locks us out with the H1-F19 capability.	We need to record 1H-19F correlation experiments; Specification not changed.
5	20 samples autosampler: We can offer 12 samples - can it be offered as	12-samples autosampler is too small.

	an option, or the specifications relaxed?	Specification not changed.
6	Deuterium decoupling on the 400: Do you need a separate third channel. We can do deuterium decoupling on channel 2 but then only H1 or F19 observe on channel 1.	A separate third channel is needed. Specification not changed.
7	The two probes mentioned for in the 400 heavily overlap. Otherwise the second one looks like a OneNMR probe while the first one seems like a "B" one that extends to Ag104. But they do not need these two probes, only one of them should suffice. Will they accept a single probe bearing in mind our excellent repair programme, should they have problems with the probe?	Two probes are planned to minimize the down-time and to cover a broad range of isotopes with high sensitivity. Specification not changed.
8	VT Range: We can offer Temperature range upto -80 to +130Deg.C	Inorganic samples may require broader temperature range. Specification not changed.
9	It is noticed that the triple resonance broadband probe for 600 asked for needs to have XYZ gradients. We can offer the same but then the Variable Temp range is no longer -150 to +150 deg C. The probe can have only -50 to +80 deg C temperature range. We request you to kindly note and change the specification accordingly.	We need the broad-band option even if it comes with only Z gradient. Temperature range of -50 to +80 deg C is sufficient for this probe. Specification revised.
10	You have requested for free supply of cryogens during installation. We can offer liquid helium free during installation. But, we do not undertake to supply liq N2 during or after installation.	Liquid nitrogen during installation and after will be arranged by IISER Pune. Specification revised.
11	The point mentioned in console specification in page no 27, Frequency, phase and amplitude switching of the parameters in 25ns, But our specification is 100ns, so please make change in the same.	Fast switching times are needed for high-fidelity RF performance. Specification not changed.
12	The point mentioned for console in page no 27, for the better performance and future up gradation of the spectrometer you can have 300W for X-channel and 100W for 1H (and/or 19F channel).	Stronger RF amplifiers may be quoted as optional replacements. Specification not changed.

13	For the excellent DOSY and better performance for 2D nmr, we are recommending Z-gradient amplifier, which can produce better gradient. Our specification is 90G/cm.	Stronger gradients may be quoted as optional replacements.  Specification not changed.
14	Our specification variable temperature set up can perform from -100 to 150 C, Hence please modify the requirement.	Inorganic samples may require broader temperature range.  Specification not changed.
15	In modern day times instead of buying two separate direct & in- direct probes, generally most of scientists prefer to have one probe with high 1H sensitivity. We have "Royal Probe" which has high sensitivity for 1H as per details attached. Even for 13C the sensitivity is good. We suggest that if IISER can buy a single probe which is equivalent two probes. In this probe can do all nuclei ranging from 31P to 15N, 39K, 109Ag. This probe has the capability to perform temperature ranging from -100 to 1500 C. Details of Royal Probe attached for your ready reference.	Two probes are planned to minimize the down-time and to cover a broad range of isotopes with high sensitivity.  Specification not changed.
16	Volume of the self-pressurized liquid nitrogen dewar not mentioned	Required volume is 200 L.  Specification revised accordingly.



## IISER PUNE

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## COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0534-13

DATE : 30.09.13

S.No	Query/Clarification Sought	Clarification / Amendment
1	<p>Warranty Clause - Page No - 20 Clause 10.</p> <p><u>Delivery and custom clearance of items under warranty for 5 years.</u> Bidder requested that warranty items will be delivered free of charge by our Principals to Mumbai/Pune airport during warranty period. It is IISER's responsibility to clear the consignment from customs and transport to the lab during and after warranty.</p>	<p>Warranty Clause - Page No - 20 Clause 10.</p> <p>After receipt of warranty items at Mumbai/Pune Airport, IISER Pune will clear the consignment from the customs through our authorized CHA. The custom duty and custom clearance charges will be reimbursed by the supplier. Besides this, The transportation charges from Mumbai to Pune also will be borne by the supplier during warranty period.</p> <p>As such Warranty clause 10 at Page No- 20 remains as it is, in addition to above clarification.</p>
2	<p>Security Deposit and Performance Bank Guarantee</p> <p>Bidder requested for 10% order value security deposit to be valid for period of one year . They also agree to the security deposit being renewed as PBG for 1year.</p>	<p>Security Deposit and Performance Bank Guarantee</p> <p>Refer Page No - 14 , Clause 4.3</p> <p>Since the warranty period is 5 years The Security Deposit should be valid for a period till warranty period as we plan to extend the same as Performance Bank Guarantee.</p>