



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-0011-0012-15

ITEM DESCRIPTION- PROCUREMENT OF UV-VIS SPECTROPHOTOMETER & ATR-FTIR SPECTROSCOPY

Refer our Press Tender Notice No.IISER/S&P/3/15-16 dated 28.5.2015 for procurement of UV-VIS Spectrophotometer & ATR-FTIR Spectroscopy. Tender Reference Number - IISER-PUR-0011-0012-15.

Pre-Bid meeting was held on June 03rd, 2015 at 2.00 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

03.6.2015

Sd/-
Assistant Registrar (S&P)



IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF ATR-FTIR SPECTROSCOPY

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0011-0012-15

DATE : 3.6.15

S. No.	Query/Clarification Sought	Clarification/Amendment
1.	Page No. 26, Chapter No. 4 Tender mentions rock Solid with cube corner design with ZnSe beam splitter. These are specific to one company. ZnSe is preferred due to its non hygroscopic nature. But the major drawback of ZnSe is its low refractive index (RI) and the infrared region range that it covers viz 5000 to 500 cm ⁻¹ . Corner cube design uses mechanical contacts for alignment which wears out with friction. Most research grade FTIRs incorporate 300 angle. Being permanently aligned, if the interferometer gets misaligned, instrument cannot realign on its own and needs the help of service engineer.	Page No. 26, Chapter No. 4 Tender specifications are modified as given below: ZnSe beam splitter or other beam splitters which are non-hygroscopic without any additional parts/accessories either in-built or otherwise. The incident angle could be 30° 5000-500 cm ⁻¹ is only required for running our Under Graduate Laboratory work.

	<p>We request you to mention the angle of interferometer as 30⁰ incident angle; beam splitter made of KBr with ample protective features like moisture resistant coating on both the surfaces, built in dehumidifier in the FTIR. Additional humidity protection can be the usage of KRS-5 as interferometer windows. This way you get to use the complete range of the instrument from 7800 to 350 cm-1 as KRS-5 and KBr cover the complete mid IR range and also protection from humidity.</p>	
2.	<p>Page No. 26, Chapter No. 4</p> <p>Why not DLATGS detector with added temperature compensation. DLATGS detectors have higher Curie Temp (60⁰C) compared to DTGS (30⁰C) and hence can withstand wider temperature fluctuations. The DTGS detector malfunctions if temp goes beyond its curie Temp. Also DLATGS detectors are more sensitive than DTGS.</p>	<p>Page No. 26, Chapter No. 4</p> <p>Tender specifications are modified as given below:</p> <p>Read detector as DTGS or DLATGS</p>
3.	<p>Page No. 26, Chapter 4</p> <p>S/N ratio- Please specify the conditions under which the S/N ratio is to be calculated and whether it is Peak to Peak or RMS value. Ideally it should be > 30,000 : 1 peak to peak around 2200 cm-1 4 cm-1, 1 min accumulation (when used with KRS-5 window)</p>	<p>Page No. 26, Chapter 4</p> <p>Read S/N ratio as 50000:1 peak to peak</p>
4.	<p>Page No. 26, Chapter 4</p> <p>Resolution- Please specify the maximum resolution of the system. Ideally it should be max 0.5 cm-1</p>	<p>Page No. 26, Chapter 4</p> <p>No change in tender specifications.</p>

<p>5.</p>	<p>Page No. 26, Chapter 4</p> <p>Laser- Tender mentions Ceramic Global-Solid State Laser. A He-Ne laser to does the job very well. The state of the interference of the He-Ne laser used for sampling by the interferometer is continuously monitored and compared with the state under optimum conditions previously recorded by the system. The difference between these states is calculated by an advanced signal processor and inclination of the fixed mirror is changed is continuously in order to eliminate any difference. We request you to change specification to accommodate He-Ne laser as well.</p>	<p>Page No. 26, Chapter 4</p> <p>No change in tender specifications.</p> <p>Solid state laser is required.</p>
<p>6.</p>	<p>Page No. 26, Chapter 4</p> <p>Warranty period- Tender mentions warranty period of 5 years. Normally the warranty period is to cover the user for any manufacturing defects if any that may crop up. We request you to change this to 01 year.</p>	<p>Page No. 26, Chapter 4</p> <p>We require 5 years of warranty.</p> <p>Tender Specification prevails.</p>
<p>7.</p>	<p>Page No. 26, Chapter 4</p> <p>You have asked for Universal ATR accessory. We request you to change it to Diamond ATR, otherwise any vendor can quote lower end ZnSe ATR that can't measure acid, alkali and corrosive samples which diamond ATR can.</p>	<p>Page No. 26, Chapter 4</p> <p>ATR Accessory should be Universal ATR accessory only but it should record even acid, alkali or corrosive samples as well.</p>

8	<p>Page No. 26, Chapter 4</p> <p>In the specification you have asked for Gold optics which is not having any importance, it can be gold/aluminum. As in all reputed manufacturer's have aluminium optics in their high end FTIR. Hence we request you to consider Aluminium optics also.</p>	<p>Page No. 26, Chapter 4</p> <p>The tender specification modified as given below:</p> <p>Read Optics as Gold/aluminium coated</p>
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IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF UV-VIS SPECTROMETER

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0011-0012-15

DATE : 3.6.15

S. No.	Query/Clarification Sought	Clarification/Amendment
1.	<p>Page No. 25, Chapter No. 4</p> <p>Light Source- Xenon flash lamp- Why not deuterium and tungsten iodide lamp for UV and Vis region respectively. Xenon is a high intensity lamp required when the amount of sample that is to be analysed in the range of 1to 2ul and that too mostly for DNA /protein analysis. A normal deuterium and tungsten iodide lamp for UV and Vis region respectively can easily do the job even when the sample quantities are as low as 50ul. We request you to change the specification to accommodate deuterium and tungsten iodide lamp as well.</p>	<p>Page No. 25, Chapter No. 4</p> <p>Tender specifications are modified as given below: Light Source: Xenon flash lamp or Deuterium and Tungsten Iodide lamp with 3-year warranty</p>

2.	<p>Page No. 25, Chapter No. 4</p> <p>Scan speed and slew rate- Slew rate is the max rate at which a system can follow a command. Normally the slew rate is more than that of the scan speed whereas the tender specification mentions the scan speed to be more than slew rate. We request you to reverse it.</p>	<p>Page No. 25, Chapter No. 4, Point No.1 modified as :</p> <p>Slew rate is now ≥ 25000 nm/min</p>
3.	<p>Page No. 25, Chapter 4</p> <p>Data intervals- What do you mean by data intervals?</p>	<p>Page No. 25, Chapter 4, Point 2</p> <p>Data intervals mean: How closely spaced are the data points</p>
4.	<p>Page No. 25, Chapter 4</p> <p>Warranty period- Kindly specify the warranty period as 01 year.</p>	<p>Page No. 25, Chapter 4, Point 3</p> <p>No change in warranty terms. The warranty remains 3 years comprehensive.</p>
5.	<p>Page No. 25, Chapter 4</p> <p>Silicon photodiode based instruments are always split beam , there is no need to have a second cuvette. Second cuvette will only help to reduce efficiency. Hence we request you to accept single cuvette system also.</p>	<p>Page No. 25, Chapter 4, Point 7</p> <p>We require two cuvette system. No change in Tender specification.</p>
6.	<p>Page No. 25, Chapter 4</p> <p>Spectral Bandwidth asked is 1 nm. Please accept bandwidth of 1.5 nm or better as well: Reason, there is no specific requirement anywhere for 1 nm, but if instrument is only 1 nm , it cannot do solid, colloidal liquid or it cannot be upgraded to integrating sphere, plate reader, reflection accessories etc. It requires minimum 1.5 nm.</p>	<p>Page No. 25, Chapter 4</p> <p>The indented spectrophotometers are for running Under Graduate laboratory wherein we do require resolution. In view of these, we have drawn generic specifications in such a way that the UG students get enough exposure.</p> <p>No change in Tender Specification.</p>

7.	<p>Page No - 25, Chapter 4</p> <p>Please Change scan rate to atleast 20000 nm/min if you really want to utilize the advantages of Xenon flash lamp. Simply having slew rate won't help, it indicates that hardware can transmit in that speed, but real measurement is based only on scan rate.</p>	<p>Page No - 25, Chapter 4</p> <p>Tender specifications are modified as given below:</p> <p>Light Source: Xenon flash lamp or Deuterium and Tungsten Iodide lamp with 3-year warranty</p>
8.	<p>Page No - 25, Chapter 4</p> <p>If you are looking for true double beam, it can be achieved only by using PMT detector as in silicon photodiode or split beam sample and reference are monitored by two different detectors which can never be equal. Sample gets only 50% of energy, it cannot do continuous reference correction.</p>	<p>Page No - 25, Chapter 4</p> <p>The indented spectrophotometers are for running Under Graduate laboratory wherein we do require resolution. In view of these, we have drawn generic specifications in such a way that the UG students get enough exposure.</p> <p>No change in Tender Specification.</p>



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COMMERCIAL QUERIES AND CLARIFICATION

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DATE : 3.6.15

S.No	Query/Clarification Sought	Clarification / Amendment
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