



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI

CLARIFICATION ON TENDER NUMBER – Tender No: : IISERT/PUR/0091/20

ITEM DESCRIPTION- Supply, Installation and Commissioning of

- Steady State Fluorimeter with Integrating Sphere and Cryostat Assembly
- Time Resolved Fluorescence System with Fluorescence Anisotropy

Refer our Tender No. IISERT/PUR/0091/20 dated 21/05/2020 for Supply, Installation and Commissioning of

- Steady State Fluorimeter with Integrating Sphere and Cryostat Assembly
- Time Resolved Fluorescence System with Fluorescence Anisotropy

Pre-Bid meeting was held on May 27th, 2020 at 15:30 via google meet 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 <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

29.05.2020

Sd/-
Assistant Registrar (S&P)



IISER TIRUPATI

- Pre-bid conference for Supply, Installation and Commissioning of**
- **Steady State Fluorimeter with Integrating Sphere and Cryostat Assembly**
 - **Time Resolved Fluorescence System with Fluorescence Anisotropy**

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISERT/PUR/0091/20

DATE: 29/05/2020

S.No	Query/Clarification Sought	Clarification / Amendment
	Steady state system	
1	NIR range: Suitable detector for steady state Fluorescence and steady state Phosphorescence, spectral response range: 900-2000 nm. For this spectral range we usually offer InGaAs detector that can only perform steady state measurements with the sources but we don't have gated Circuit commercially available for INGaAs detectors. Would this be acceptable?	Suitable detector to cover the NIR range is the requirement. Hence, no further changes required in the specification.
2	For the order sorting filter instead of 370nm we can offer 395 nm, can this be acceptable?	Order sorting filter of 395 nm should be OK. Changed in the tender specification
3	Warranty: We usually have a policy to offer a full comprehensive warranty for the complete system for span of 1 year (i.e. from date of installation). In case of extended warranty i.e. for 3 years, we can offer the warranty at the minimum chargeable basis however it would not cover 3rd party items like cryostat, turbo molecular pump & detectors, would this be acceptable?	No changes. Comprehensive warranty should be for 3 years.
4	In one of the light source specifications you have asked 60 W microsecond flash lamp. LSS: We do not offer 60-Watt fash lamp for Phosphorescence, we offer 10 watt only, could you please modify this to 10 watt.	The lowest acceptable power for the microsecond flash lamp can be 40 W. Any lower power is not acceptable.

5	<p>The Optical pulse width for pulsed lamp is asked 1.5-2.5us. LSS: We offer 1-2 us. Hence, we request you to modify to 1-2us or better</p>	The pulse width of the lamp should be in the range of 1.5 – 2.5 μ s or better.
	Time resolved system:	
6	<p>For the 290nm LED, we can offer typical pulse width of 840 ps, would this be acceptable?</p>	Pulse width of 840 ps is acceptable. Changed in the tender specification.
7	<p>Warranty: We usually have a policy to offer a full comprehensive warranty for the complete system for span of 1 year (i.e. from date of installation). In case of extended warranty i.e. for 3 years, we can offer the warranty at the minimum chargeable basis however it would not cover for detectors & light sources, would this be acceptable?</p>	No changes. Comprehensive warranty should be for 3 years.
8	<p>In the sample holder specification, you have mentioned that sample holders should be sharable with the steady state system. Please note these are two independent system with different dimensions. It is not possible to switch the sample holders. Hence this is to be removed.</p>	Separate sample holders, if provided, should be fine.
9	<p>In the polarizer specification you have asked Glan Thompson polarising prism. We use Thin Film Polarisers in our system, which performs better. The GT prism could be removed.</p>	Thin film polarisers, if they can perform the same function is fine. Changes made in the tender specifications.
10	<p>In the emission monochromator specification, you have asked the following; a. Czerny-Turner monochromator with 1800gr/mm grating blazed at 500nm. Our design of the spectrometer is based on Seya-Namioka geometry monochromator with 450 nm blazed wavelength.</p>	The suggested monochromator is acceptable with no compromise on the quality of data. Changes made in the tender specifications.
11	<p>In the slit width specification, you have mentioned adjustable slit width from 1-30nm. We offer 1, 2, 4, 6, 8, 12, 16 & 32 nm motorised slit.</p>	Motorised slit width, with suitable numbers, and covering the suggested range is fine. Changed in the tender specification.

12	<p>You have mentioned that should have provision for higher order removal.</p> <p>LSS: This is very much relevant in Steady state measurement and not for TCSPC. In our system we have provision for filters. Customer needs to specify the type you want.</p>	Higher order removal not relevant for TCSPC, hence not applicable.
13	<p>In the detector specification, you have asked higher counting rates up to 5M cps without damage.</p> <p>We offer both PPD as well as HPPD detector both can work with 5M cps without damage.</p>	Since the suggested detectors meet the required criteria, no further changes required.
14	<p>In the Acquisition Electronics specification, you have mentioned Time to amplitude converter (full range 2.5 nanoseconds to 50 microseconds); 256 to 8192 data bins, nominal minimum bin width 305 femtoseconds (TCSPC mode).</p> <p>In our system we do not use TAC, we use advanced TDC it is fully digital and therefore, has crystal locked time base (unlike TAC) so the time calibration can never drift (unlike TAC). It can offer up to 16k time bins, 10ps FWHM jitter (vs EI 25ps) and it has time range from 10ns to 11s.</p>	<p>Accepted (changes made)</p> <p>Note that the Acquisition electronics be such that the lifetimes can be measured in the range of 100 ps to 50 μs utilizing the tunable lasers and detector as quoted</p>



IISER TIRUPATI

- PRE-BID CONFERENCE FOR SUPPLY, INSTALLATION AND COMMISSIONING OF**
- STEADY STATE FLUORIMETER WITH INTEGRATING SPHERE AND CRYOSTAT ASSEMBLY**
 - TIME RESOLVED FLUORESCENCE SYSTEM WITH FLUORESCENCE ANISOTROPY**
- COMMERCIAL QUERIES AND CLARIFICATION**

TENDER NUMBER - IISERT/PUR/0091/20

DATE: 29/05/2020

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