



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

PRE-BID CLARIFICATION ON TENDER NUMBER - IISER/PUR/0011/22

ITEM DESCRIPTION- PROCUREMENT OF SPATIAL LIGHT MODULATOR.

Refer IISER Pune tender number No. IISER/PUR/0011/22 dated **29/07/2022** for procurement of Spatial Light Modulator.

An Online Pre-Bid meeting was held on **05/08/2022** at 3.00 PM and the minutes of the meeting is as under:

1. No written queries were received from any bidder.
2. No bidders were present for the meeting.

It may be noted that the quantity, estimated cost, and Chapter-4 for Spatial Light Modulator is changed. The other terms and conditions of the tender as published on the Institute website www.iiserpune.ac.in and CPP Portal remains unchanged. A copy of the corrigendum is given below as Annexure-I.

No further correspondence in this regard will be entertained

The meeting ended with a vote of thanks to the Chair

10/08/2022

Sd/-
Assistant Registrar (S&P)

Annexure-I

Sr.No.	Tendered Particulars	Amendment in Particulars
1	Quantity-01 No	Quantity-02 No
2	Estimated Cost-Rs.20.00 Lakhs	Estimated Cost-Rs.40.00 Lakhs

CHAPTER 4
SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL DETAILS

Specifications for a high speed spatial light modulator (SLM) with high speed triggering PCIe controller		
Features		Marks
Calibration Wavelength:	$\lambda_c = 1064 \text{ nm}$	9
Array Size:	should be more than $15 \times 8 \text{ mm}$	9
Zero-Order Diffraction efficiency:	more than 75% (max efficiency)	8
Format:	Active pixels should be more than 1900×1050 pixels	8
Pixel Pitch:	$9.2 \times 9.2 \text{ }\mu\text{m}$	8
Laser Induced Damage Threshold (CW):	$\geq 200 \text{ W/cm}^2$ (w/ no loss in phase stroke)	8
External Window:	AR coated, $R_{avg} < 1 \%$, 450 - 1200 nm	5
Mode:	Reflective	5
Fill Factor:	more than 93%	5
Liquid Crystal Response Time (10-90%):	less than 5 ms at 1064nm	5
CPU to Controller Phase Levels:	256 / 8 bits	4
CPU to SLM Transfer Time (one image):	less than 700 micro-sec	4
Maximum Liquid Crystal Switching Frequency:	greater than 250 Hz at 1064nm	4
Phase Stroke (Double Pass):	$2\pi @ \lambda_c$	3
Reflected Wavefront Distortion (RMS Calibrated):	$\lambda_c / 10$	3
Output Trigger Signal:	SMA or DVI connector for high TTL signal	3
Input Trigger Signal:	SMA or DVI connector for high TTL input trigger to control when the image data on the SLM changes	3
Maximum System Frame Rate:	more than 200 Hz	2
Cooling System	Liquid/Air	2
Calibration at an additional wavelength	SLM should be calibrated at additional specified wavelength, and additional calibration files should be shipped with the SLM. The additional wavelength must be one of the standard wavelengths: 532, 635, 785, 1064nm	2
Design Wavelength:	$\lambda_d \sim 500 - 1200 \text{ nm}$	2
Total marks		100
Qualifying marks = 85		