

Dear Representative,

Kindly send your best quotation for the following item with various accessories on C.I.P. Bangalore basis to the undersigned. Your quotations should clearly indicate the terms of delivery, delivery schedule, entry tax, payment terms etc. The tender should be submitted in two separate sealed envelopes: one containing the technical bid and the other containing the commercial bid, both of which should reach the undersigned, duly signed on or before 1700 hours, November 12, 2019. The technical bid must include details of technical specifications of the equipment along with commercial terms and conditions; however the price components should NOT be shown.

The commercial bid must include the price of the item indicating the break-up of the following:

- (i) The price of the goods quoted on C.I.P. (Bangalore)
- (ii) The charges for any insurance and transportation upto Bangalore customs warehouse.
- (iii) The agency commission charges if any.
- (iv) The installation, training and commission charges, if any.

Please enclose a compliance certificate along with the technical bid.

Terms and conditions:

1. The vendor should have qualified technical service personnel for the equipment based in India, else the equipment should be diagnosable online by the off-site manufacturer.
2. At least 1 year warranty from the date of delivery.

Both documents should be addressed to:

**The Chairman,**

**Solid State and Structural Chemistry Unit,**

**Indian Institute of Science**

**Bangalore 560012.**

Please deliver or mail both sealed quotations to:

**Vivek Tiwari,**

**Solid State and Structural Chemistry Unit,**

**Indian Institute of Science**

**Bangalore – 560012.**

**Instrument Name and description: Nematic Liquid Crystal based Spatial Light Modulator**

**Specifications of the system:**

- Single mask configuration, horizontal liquid crystal extraordinary axis orientation
- Active area at least 60 mm x 10 mm
- Anti-reflection coated liquid crystal array with at least 500-900 nm coating range
- Mirror behind the SLM array for operation in reflective configuration
- Complete LabView instruction set integrated with firmware should be available
- At least 640 addressable pixels, pixel size  $>90$  microns x 10 mm, with gap of 3.2 microns or lesser
- Transmission  $> 80\%$  over 500 nm to 1500 nm or larger range
- Phase shifts @ 500 nm  $\sim 7\pi$  and phase shifts @ 1500 nm  $\sim 2\pi$
- Approximately 90  $\mu\text{J}/\text{cm}^2$  (500 nm, 100fs, 1 kHz) or larger pulse damage threshold
- Driving Voltage 0-8V with 12 bit or higher resolution
- ADC resolution 12 bit or higher, frame buffers 0 to 60 or more
- USB Interface 2.0 or higher, and/or Ethernet connectivity
- Input/Output triggering should be available
- Controller unit, power supply, ADC and USB cable, software drivers, etc. should be available with the SLM array