

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus
Farmagudi, Ponda, Goa 403401
E-mail: purchase@iitgoa.ac.in

GSTIN: 30AABAI1653D1ZF
PAN: AABAI1653D
TAN: BLRI08261B

Enquiry No: IITGOA/2018-19/106

Date: 14/02/2019

IIT Goa invites sealed quotations in two bid form for the supply of below mentioned item.

Sl. No.	Description of Item	Qty.
1	Picosecond Pulsed Laser Diode & Driver for Photon Correlation Setup (Detailed Specifications Attached)	01 No.

Terms and conditions:

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Prices:
 - I) For Import Supplies:**
 - a) It is mandatory to quote price in CIF/CIP Goa basis only with separate cost breakup.
 - b) In case of Multiple options of same product, bidders are requested to quote only one best option and not multiple options.
 - c) All local taxes, customs duty and clearance charges will be borne by the Institute as applicable.
 - d) Payment terms: 90% payment by letter of credit and balance 10% will be paid by wire transfer after satisfactory installation and commissioning.
 - II) For Indigenous Supplies:**
 - a) In case of Multiple options of same product, bidders are requested to quote only one best option and not multiple options.
 - b) Payment terms: Within 30 days after the delivery and installation of the item at IIT GOA.
5. Delivery and installation should be made within 4-6 weeks of getting a confirmed order.
6. Supplier should provide minimum three-years warranty for the above stated item.
7. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
8. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason.

9. Quotations shall be submitted in two parts;
- 1) **Part – I (Technical)** should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, compliance certificates, proprietary certificates (if applicable), any other certificates/details etc. This envelope should be marked as “Technical Bid”
 - 2) **Part -II (Financial)** The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.
10. For any clarification, you may kindly contact Dr. Santosh Kumar (e-mail: skumar@iitgoa.ac.in) and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 22/02/2019.
11. All sealed quotations must reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa by 17.00 Hrs on or before 07th March, 2019”.

Sd/-
Asst. Registrar (S&P)

Specifications of Picosecond Pulsed Laser Diode & Driver for Photon Correlation Setup

Topic	Specification required	
Specifications of laser diode		
Modes of operation	pulsed	repetition rate: up to 100 MHz or higher
	single shot	
	cw	as an optional feature
Wavelengths	peak	510 or 520 nm if both wavelengths available then quote for 520 nm
	FWHM	<20 nm
	tolerance	±10 nm
Pulse width	typical	<130 ns or below
	max.	not more than 200 ps at any operating frequencies and intensities/power
Average output power @ 100 MHz	max.	5 mW or above
	min.	not below 0.5 mW at any operating frequencies and at any intensities/power
	stability (important)	The supplier/manufacturer must provide RMS & Peak to peak power stability values/curves measured for 8 hours duration & a temperature change of ≥3-degree C
Optical quality	Polarization	Linear, quote the value if there is any ellipticity
	Polarization extinction ratio	>1:9
	spectral sideband (important)	The supplier/manufacturer must provide figure-of-merit parameters to explain the suppression of spectral line or modes present in the higher wavelengths side of the emission spectrum
Cooling of laser head	Preferably using a Peltier cooler to achieve a 1 degree or below temperature stability in 10 to 30 degree C ambient temperatures	
Specification of laser Driver		
Modes of operation	pulsed	internal trigger with frequency locked technology: 1 Hz to 100 MHz in steps of 1, 2, 5, or 10 times
		external trigger: single shot to up to 80 MHz or more
	burst	external, internal bursting as an optional feature
	cw	as an optional feature
Synchronization output to a 50 Ohm impedance input	amplitude	LVTTL or NIM
	pulse width	<9 ns,
	delay	>10ns, fixed or adjustable positive/negative delay between sync out and laser out
50 Ohm external trigger input	amplitude	must accept TTL, LVTTL or NIM adjustable trigger level between -0.8 V to 0.8 V
	required pulse width	10 ns or below
	acceptable frequencies	single shot to 80 Hz or above
Common specifications for laser diode and driver		
Operating temperature range	10 – 30 degree C	
Operating humidity	<70%	