

**Indian Institute of Technology, Kanpur  
Department of Physics**

**Enquiry no.: PHY/RV/EQP/DRD/2015/5**

**Enquiry date: 15/07/2015**

**Closing date: ~~27/07/2015~~ extended till 3<sup>rd</sup> Aug 2015, 12 noon.**

Sealed Quotations are invited for:

<b>Description</b>
<b>Single Photon Counting Modules (Gated) – Qty: 2 along with the control unit</b>

**Specifications:**

Centre wavelength of operation	1550 nm
Quantum efficiency (fiber-pigtailed) at: 1550 nm	25% or greater
Dark Count (Counts/s)	500 or less
Gating mode up to frequency	> 50 MHz
Average dark count variation at 5 °C to 40 °C case temperature	< 5%
Single photon timing resolution	<0.5 ns
Dead time (count rate below 5M/c)	< 60 ns
Output Count Rate before saturation	>10 Mc/s
After pulsing probability	1.0%
Setting time following power up (1% stability) at 1 Mc/s and 25 °C	< 20 s
Output pulse width	15 ns
Supply Voltage	< 5.25 V
Start /trigger delay	<11 ns
Optical interface	Single-mode SMF-28 fiber with FC/PC connector
Electronic connector	SMA
Control unit: Front-panel display with counters provided for : Interface with computer (if available)	Detection, clock, gate, coincidence rate USB

**Terms and conditions:**

Quotations should have a validity of a minimum of 60 days.

Quotations with all technical specifications and individual prices of components should be submitted in a sealed envelope with the enquiry number clearly mentioned on the envelope.

Technical specifications along with the extent of compliance should be mentioned.

The delivery period should be specifically stated.

Permissible educational discount should be provided since the equipment will be used for research work of students.

For suppliers from outside India, the rate offered should be FOB (specify city) or FCA terms. IIT Kanpur has its own freight forwarder for shipping from outside India.

IIT Kanpur is exempted from payment of Excise Duty under notification no.10/97

**Prof. R.Vijaya**

Tel: +91-512-2597552

**Dept of Physics**

e-mail: rvijaya@iitk.ac.in

**IIT Kanpur**

**Kanpur 208016, India**