

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

**Enquiry no.: IITK/PHY/264-2**

**Enquiry date: 1.11.2012**

**Closing date: 17. 11. 2012**

Sealed Quotations are invited for:

Single Photon Counting Modules ( Qty. 03) with the following specifications:

**Specifications:**

Photon detection efficiency (Pd) at: 400nm 650nm 830nm 1060nm	5 % 65 % 45 % 2 %
Dark Count(Counts/s)	50
Average dark count variation at constant case temperature (For at least 6 hrs at 25 °C)	< 2%
Pd variation at constant case temperature	< 10%
Pd variation from 5 °C to 40 °C	< 10%
Average dark count variation at 5 °C to 40 °C case temperature	<2%
Single photon timing resolution	<1 ns
Dead time (count rate below 5M/c)	< 40 ns
Output Count Rate before saturation	30 Mc/s
After pulsing probability	0.5%
Setting time following power up (1% stability) at 1 Mc/s and 25 °C	< 20 s
Output pulse width	15 ns
Supply current	<1.2 A

Supply Voltage	< 5.25 V
Start /trigger delay	<11 ns
Active area (diameter) at minimum Pd	180 $\mu$ m

**Terms and conditions:**

Quote should be made in two parts: Technical bid and Financial bid separately in sealed envelopes.

Financial bids for the product whose technical bid is not acceptable will not be opened. Any quote with the financial bid included in the technical bid will be summarily rejected.

The sealed envelopes with the quotes should be superscribed with the Inquiry number and whether it is a technical or financial bid.

The delivery period should be specifically stated.

Quotes should be made options for the either of the following delivery modes

- Ex-works for pickup by our world-wide transport provider
- FOB in country of origin
- CIF, New Delhi
- For delivery to IIT Kanpur

Maximum educational discounts should be applied – this equipment will be used for research as well as teach and train students.

Quotes should have a minimum validity of 60 days

Address the quotations to:

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