## Shot sour specific

## INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

## MATERIALS MANAGEMENT DIVISION

Powai, Mumbai - 400076

## Technical Specifications for Single Photon Detection System RFx No. 6100000804 (Reference No. 1000020752)

Photon counting electronics, Optical fibre and soft wares should be included

Detection wavelength range: 400 - 800 nm

Photon Detection Efficiency (PDE) :>70% at 550 nm.

Active area (diameter) at minimum PDE:200-500 µm

>10Mcps dynamic range before saturation

Both gated and free running output modes should be allowed

Time jitter: <350 ps

Case operating temperature:  $5 - 70^{\circ}C$ 

FC fiber adapter, C mount bracket

Suitable power supply.

Dark count: ≤250 counts/sec

Dead-time: <250 ns

Instrument should be supplied with 1 year standard warranty