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

 **IIT.P.O. Madras-600 036**

Ref. No. **Date: 19 / 05 / 2017**

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| **PHY** | **2017** | **020** | **STORES** |

To Whom It May Concern:

Dear Sir,  **Due date: 12/ 06/ 2017**

Please find below the specification of a **Femtosecond** **Autocorrelator** **Single-shot Operation** we require for purchase. Kindly send us a quotation by the due date mentioned above.

Minimum specification for **Femtosecond** **Autocorrelator** **Single-shot Operation** (Quantity 1 – 5 nos. please quote unit price)

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| --- | --- | --- |
| **S. No.** | **Parameters** | **Value** |
|  |  |  |
| 1 | Pulse width range |  Min: < 20 fs (or shorter) Max: > 1000 fs (or longer) |
| 2 | Wavelength range | Min: < 680 nm to Max: 1200 nm or longer  |
| 3 | Input beam diameter | 10 mm or greater  |
| 4 | Sensitivity1. For amplifier pulses
 | * 1. μJ for 35 fs pulses at 800nm wavelength and 1kHz rep rate
 |
|  | (2) With Ultralow power option for oscillator pulses | < 0.020 nJ (1 mW) for 35 fs pulse of 80 MHz rep rate at 800 nm |
| 5 | Step size of CCD pixel to pixel (if applicable) | 7.4 fs or smaller (for single-shot operation mode) |
| 6 | Step size with short pulses (where applicable) | 2 fs (for multishot operation mode) |
| 7 | Laser repetition rate | Single shot to 200 MHz, no limit |
| 8 | Power supply | 100-220V 50-60Hz plug with 5V DC |
| 9 | Data acquisition | USB Digit interface for computer monitor pulse width |
|  |  |  |

Autocorrelators with the following options will be preferred:

1. Optional extension of wavelengths in future between 200 – 680 nm in the same system
2. Optional extension of wavelengths in future between 1200 – 1300 nm in the same system

**Accessories**

The vendor may quote optional accessories which can be used with the instrument mentioned for purchase together but will not be used for price comparison.

Please provide a clear warranty statement.

Please send the quotation (technical and price details) by email (signed and scanned) OR hard copy before the due date.

Please mark reference number on top of the quotation.

 Yours Sincerely,

**Sivarama Krishnan**

**Co-ordinator**

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