

IISER PUNE

Technical Committee meeting minutes for Procurement of Time Tagger and two additional Items

Members present:

- 1) Dr. Sunil Nair
- 2) Dr. Shouvik Datta
- 3) Dr. Ashish Arora

Prologue:

An open tender notice was issued on CPP portal and institute's website on **05/06/2023** for Procurement of Time Tagger and Two Additional Items under two-bid system. A pre-bid meeting with the vendors was arranged on **14/06/2023** at IISER Pune via Zoom. In response, the following agencies have submitted bid documents.

1. Simco Global
2. Quantum Design
3. Newage Instruments
4. Laser Spectra
5. Electronic Enterprises
6. Aimil Ltd
7. Advanced Photonics

Analysis:

The committee met on **11/07/2023** to evaluate technical specifications of Time Tagger and two additional items quoted by the above agencies. A detailed comparison of the bid is summarized and attached as annexures-A along with marking system. The committee found that the **certain vendors qualified the technical specification for each items separately and these are not marked in red and** met the technical requirements as set out in the technical specifications in the tender and are found to be 'qualified' of each items.

Recommendations:

The committee recommends that the commercial bids of each items from qualified vendor(s) only may now be opened. Passing Marks for Each Items are 85/100. Details of qualified vendors are in the next few pages.

Dr. Shouvik Datta
(Member)

Dr. Ashish Arora
(Member)

Dr. Sunil Nair
(Chair)

Annexure-A

Detailed Technical Comparison (Qualifying marks \geq 85 out of 100 for each item)

Vendors &/or Quotations Marked with RED are NOT QUALIFIED for that Particular Item

S. No	Indented Specifications	Marks	Name of bidder (Quoted specification)	Marks Passing Marks 85/100 For each item
	1) Main Indent Item: Time Tagger and Time Correlator Electronics Module for $g^{(2)}$[t] experiments along with required power supplies/cables (240V, 50 Hz), accessories like all required SMA signal cables and inclusive of all required software(s) for stand-alone operation with the following Specifications: Quantity - 01 a. Number of Channels: At least 4 and/or more. Marks: 35 b. Timing Jitter: \leq 35 pS RMS, Marks : 35 c. Dead Time: \leq 10 nS; Marks : 30 Total Marks : 100 Passing Marks \geq 85	(i) SIMCO: 35+35+30=100 (ii) Quantum Design: 35+35+30=100 (iii) Newage Instruments: 35+35+30=100 (iv) Laser Spectra: 35+35+30=100 (v) Electronic Enterprises: 35+35+30=100 (vi) Aimil Ltd: 35+35+30=100 (vii) Advanced Photonics: 35+35+0=70 (dead Time 12 nS)	(i) Simco Global (ii) Quantum Design (iii) Newage Instruments (iv) Laser Spectra (v) Electronic Enterprises (vi) Aimil Ltd (vii) Advanced Photonics	(i) 100 (ii) 100 (iii) 100 (iv) 100 (v) 65 (vi) 100 (vii) 70
	<u>2) Additional Item:</u>	(i) SIMCO: 25+25+25+25=100	(i) Simco Global	(i) 100 (ii) 0

	<p>Single Photon Counting Detectors along with power supplies and all required accessories for independent operation – Quantity 02</p> <p>a. Spectral Range: At least 400-1000 nm. Marks : 25</p> <p>b. Max Efficiency $\geq 50\%$ (Even higher value is technically preferable), Marks : 25</p> <p>c. Dark count rate ≤ 100 counts/s (Even smaller is technically more preferable), Marks : 25</p> <p>d. Multi-Mode, ≥ 50 microns wide FC/PC Fiber Input. Marks : 25</p> <p>Total Marks : 100</p> <p>Passing Marks ≥ 85</p>	<p>(ii) Quantum Design: 0+0+0+0=0(Not Quoted)</p> <p>(iii) Newage Instruments: 25+25+25+25=100</p> <p>(iv) Laser Spectra: 25+0+25+25=75 (Efficiency ~30%)</p> <p>(v) Electronic Enterprises: 0+0+0+0=0 (Not Quoted)</p> <p>(vi) Aimil Ltd: 25+25+25+25=100 (Assuming 400-1000 nm)</p> <p>(vii) Advanced Photonics: 25+25+25+25=100</p>	<p>(ii) Quantum Design</p> <p>(iii) Newage Instruments</p> <p>(iv) Laser Spectra</p> <p>(v) Electronic Enterprises</p> <p>(vi) Aimil Ltd</p> <p>(vii) Advanced Photonics</p>	<p>(iii) 100</p> <p>(iv) 75</p> <p>(v) 0</p> <p>(vi) 100</p> <p>(vii) 100</p>
	<p>3) Additional Item: Pico-second pulsed diode laser along with power supply and all required accessories for independent operation – Quantity 01</p>	<p>(i) SIMCO: 25+25+25+25=100</p>	<p>(i) Simco Global</p> <p>(ii) Quantum Design</p>	<p>(i) 100</p> <p>(ii) 0</p> <p>(iii) 100</p> <p>(iv) 100</p>

	<p>a. Center Wavelength 405 nm, Marks : 25</p> <p>b. Repetition Rate ≥ 20 MHz (technically more preferable if 50 MHz or 80 MHz), Marks : 25</p> <p>c. Pulse Width Down to < 60 ps (Even smaller value is technically more preferable), Marks : 25</p> <p>d. Multi-Mode, 50 microns wide FC/PC Fiber Output. Marks : 25</p> <p>Total Marks : 100</p> <p>Passing Marks ≥ 85</p>	<p>(ii) Quantum Design: 0+0+0+0=0 (Not quoted)</p> <p>(iii) Newage Instruments: 25+25+25+25=100</p> <p>(iv) Laser Spectra: 25+25+25+25=100</p> <p>(v) Electronic Enterprises: 0+0+0+0=0 (Not Quoted)</p> <p>(vi) Aimil Ltd: 25+25+25+25=100 (Assuming 400-1000 nm)</p> <p>(vii) Advanced Photonics: 25+25+25+25=100</p>	<p>(iii) Newage Instruments</p> <p>(iv) Laser Spectra</p> <p>(v) Electronic Enterprises</p> <p>(vi) Aimil Ltd</p> <p>(vii) Advanced Photonics</p>	<p>(v) 0</p> <p>(vi) 100</p> <p>(viii) 100</p>



Dr. Shouvik Datta
(Member)



Dr. Ashish Arora
(Member)



Dr. Sunil Nair
(Chair)