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|---|----------------------------------|---|--|--|---------------|--|--|
| REQUEST FOR QUOTATION (THIS IS NOT AN ORDER) | | | THIS RFO <input type="checkbox"/> IS <input checked="" type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE | | | PAGE OF PAGES 1 12 | |
| 1. REQUEST NO. N00173-14-Q-0295 | | 2. DATE ISSUED 07/21/14 | | 3. REQUISITION/PURCHASE REQUEST NO. 56-9530-14 | | 4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1 RATING | |
| 5a. ISSUED BY Supply Officer (Code 3410)NRL Washington DC 20375-5329 | | | | 6. DELIVER BY (Date) TBD | | | |
| 5b. FOR INFORMATION CALL (NO COLLECT CALLS) | | | | 7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule) | | | |
| NAME Lillian M Moore | | TELEPHONE NUMBER AREA CODE: 202 NUMBER: 767-3320 | | 9. DESTINATION a. NAME OF CONSIGNEE Naval Research Laboratory | | | |
| 8. TO: a. NAME To all Quoters | | | | b. STREET ADDRESS 4555 Overlook Ave SW | | | |
| c. STREET ADDRESS | | | | c. CITY Washington | | | |
| d. CITY | | e. STATE | | f. ZIP CODE | | d. STATE DC | |
| | | | | | | e. ZIP CODE 20735 | |
| 10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) 07/30/14 | | IMPORTANT: This is a request for information, and quotations furnished are not officers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or service. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotation must be completed by the quoter. | | | | | |
| 11. SCHEDULE (Include applicable Federal, State and local taxes) | | | | | | | |
| ITEM NO. (a) | SUPPLIES/ SERVICES (b) | QUANTITY (c) | UNIT (d) | UNIT PRICE (e) | AMOUNT (f) | | |
| | See attached continuation sheets | | | | | | |
| 12. DISCOUNT FOR PROMPT PAYMENT | | a. 10 CALENDAR DAYS (%) | | b. 20 CALENDAR DAYS (%) | | c. 30 CALENDAR DAYS (%) | |
| | | | | | | d. CALENDAR DAYS NUMBER PERCENTAGE | |
| NOTE: Additional provisions and representations <input type="checkbox"/> are <input type="checkbox"/> are not attached. | | | | | | | |
| 13. NAME AND ADDRESS OF QUOTER | | | | 14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION | | 15. DATE OF QUOTATION | |
| a. NAME OF QUOTER | | | | | | | |
| b. STREET ADDRESS | | | | 16. SIGNER | | | |
| c. COUNTY | | | | a. NAME (Type or print) | | b. TELEPHONE AREA CODE | |
| d. CITY | | e. STATE | | f. ZIP CODE | | NUMBER | |
| | | | | | | | |

NAME OF OFFEROR CONTRACTOR

To all Quoters

| ITEM NO. | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|----------|--|----------|------|------------|--------|
| 0001 | <p>Five Channel Single Photon Detector System An optical receiver or set of receivers used to measure single photons at a high rate. The single photon receiver shall simultaneously meet the following specifications:</p> <ol style="list-style-type: none"> 1. Five separate receiver channels. These may be configured in separate modules or in combined modules with no more than two receivers in a combined module. 2. The nominal operating wavelength is 1550 nm microns. The operating wavelength range shall cover at least 900-1700nm. 3. Each receiver channel shall have a multi-mode fiber input. The core of the multi-mode fiber will be at least 50 microns in diameter. 4. The photon detection efficiency (PDE) shall be at least 10% at 1550 nm. PDE is measured relative to the power at the input to the multimode fiber. An adjustable PDE is desirable, but not required. 5. The receiver shall be capable of gate operation. Gated operation means that the receivers's photosensitivity can be turned on and off so that the receiver has a duty factor less than 1. The gate time is defined as the time during which the unit is photosensitive. 6. The unit shall be capable of running in gated mode with a gate time of about 1 nanosecond. An adjustable gate time from about 1 nanosecond to more than 10 nanoseconds is desirable, but not required. 7. The repetition rate of the gate shall be adjustable to not less than 100MHz. 8. The unit shall have a dead-time mode. A dead-time mode is defined as a mode in which the biasing of the detector is disabled after the detector fires. 9. The length of the dead-time shall be adjustable to not less than 10 microseconds. 10. The unit shall have an adjustable delay from the external trigger with a trigger delay increments of not more than 0.5 nanoseconds and a maximum trigger delay of not less than 10 nanoseconds. 11. The dark counts of the receiver shall not exceed 8×10^{-5} per nanosecond of gate time at 10% photon detection efficiency at 1550 nm. It is highly desirable for the receiver to exhibit a lower dark count than this maximum. A low dark count rate will be primary deciding factor for selection. 12. The after-pulsing probability shall not exceed 1.5% under the following conditions: gate width of 1 nanosecond or greater, gate repetition rate 100 MHz, photon detection efficiency of at least | 1 | ea | | |

