



SPECIFICATIONS

ECDL-780 Laser System with Electronics

NB688000-16- 16-04137

Background

The Atomic Devices and Instrumentation Group is part of the Time & Frequency Division of the Physical Measurement Laboratory at the National Institute of Standards and Technology (NIST). The group performs vapor-cell wavelength standards and atomic clocks research using stabilized lasers.

Purpose

NIST requires a compact 780 nm wavelength (Rb D2 line) narrow-linewidth laser system as the source of 780 nm wavelength standard. The laser system shall exhibit exceptionally low frequency noise and narrow linewidth. NIST will use the laser system to build a ~kHz reproducibility 780 nm wavelength reference standard for chip-scale SI traceable wavelength standard calibrations (NIST on a chip project).

DELIVERABLES:

NIST requires a compact 780 nm wavelength (Rb D2 line) narrow-linewidth laser system as the source of 780 nm wavelength reference standard per Technical Specifications below:

Technical Specifications

- Extended-cavity laser system
- Nominal output power > 50 mW at 780 nm
- Linewidth <50 kHz.
- Mod-hop free range Tuning range: nominal > 10GHz and Maxim >30GHz
- The laser system must provide low frequency noise (<100 Hz /vHz at 100 kHz) and narrow linewidth (<50 kHz)
- Low laser current noise for the controller no more than 100 pA/vHz
- Compact volume for laser system and controller: Laser system not to exceed: 3" x 2" x 2"; Controller not to exceed: 5.5" x 3" x 1.5.

TECHNICAL CONSIDERATIONS:

The most important technical consideration is the linewidth specification of < 50 kHz.

Deliverables:

One (1) ECDL-780 Laser System with Electronics

Government-Furnished Property, Material, Equipment, or Information.

None

Deliverable Schedule:

The contractor shall deliver no later than twelve (12) weeks ARO.

Inspection and Acceptance:

The acceptable equipment shall meet all technical specifications. NIST will Inspect and Accept within two weeks of delivery.

Good Morning,

Please acknowledge receipt of this Request for Quote (RFQ). Please indicate via email if you decline to provide a quote.

The National Institute of Standards and Technology (NIST) has a requirement for one (1) ECDL 780nm Laser system w/controller.

Attached are the Specifications for solicitation NB688000-16-04137. Please submit a quote for the ECDL 780nm Laser system w/controller that meets the requirement.

This RFQ is conducted under the authority of FAR 13 Simplified Acquisitions, with NAICS code 334515, having a Small Business Size Standard of 750 employees. This is a total small business set aside.

All communications and documents must include the solicitation # NB688000-16-04137. Please email your quote to me at dennis-fuentes@nist.gov.

This solicitation shall close on Monday, July 25, 2016 at 11:00 am Mountain. Your quote must meet all of the requirements of FAR 52.212-1, as well as include the following information:

- Information sufficient to demonstrate you can meet or exceed the requirements in the Specifications.
- Firm fixed price quote for the ECDL 780nm Laser system w/controller.
- Payment Terms: Net 30.
- The requested delivery is twelve (12) weeks after receipt of the order (ARO). FOB Destination for delivery to NIST, 325 Broadway, Boulder, CO 80305. Delivery point of contact will be provided upon award.
- Company DUNS No. In order to be eligible for this award, the quoter must be registered with the System for Award Management at www.sam.gov, and have completed the Representations and Certifications therein for the specified NAICS code, or submit separate Representations and Certifications if the specified NAICS code is not listed in their SAM registration.

The provision at FAR 52.212-1, Instructions to Offerors—Commercial, applies to this acquisition. Quoter shall clearly demonstrate their ability to meet the technical requirements and deliverable schedule as outlined in this solicitation. Quote shall include shipping cost. NIST reserves the right to ship under NIST provided account.

BASIS OF AWARD:

Award shall be made to the Lowest Price Technically Acceptable (LPTA) quote, based upon the technical specifications as detailed within the attached statement of work. This will be a firm fixed price purchase order.

The Government intends to evaluate quotations and issue a purchase order based on the initial quotations received. Therefore, the quoter's initial quotation should contain the quoter's best terms from a price and technical standpoint. The Government reserves the right to request revised quotations from, or negotiate final purchase order terms with, one or more, but not all, quoters if later determined by the Contracting Officer to be necessary. However, the Contracting Officer will not establish a competitive range, conduct discussions, or otherwise use the procedures described at FAR 15.306. The Government may reject any or all quotations if such action is in the public interest; and issue a purchase order to other than the quoter with the lowest priced quotation.

TECHNICAL CAPABILITY:

Evaluation of Technical Capability will be based on the information provided in the quotation. Documentation submitted in the quotation shall be evaluated to determine that the proposed equipment meets or exceeds the Government's minimum required specifications. Failure to clearly and unambiguously demonstrate this will result in an "unacceptable" technical rating.

PRICE:

Price shall be evaluated for reasonableness.

FAR 52.212-2, Evaluation - Commercial Items, applies to this acquisition. The Government will award a fixed price contract to the Lowest Price Technically Acceptable (LPTA) quote, based upon the technical specifications as detailed within the attached statement of work.

FAR 52.212-3, Offeror Representations and Certifications -- Commercial Items. The quoter must have completed the Online Representations and Certifications Application (ORCA), which must be uploaded to the System for Award Management (SAM) at www.sam.gov.

FAR 52.212-4, Contract Terms and Conditions -- Commercial Items, applies to this acquisition.

FAR 52.212-5, Contract Terms and Conditions Required To Implement Statutes or Executive Orders -- Commercial Items applies to this acquisition. Additional FAR 52.212-5 clauses cited in the clause applicable to this acquisition are:

52.219-6, Notice of Total Small Business Aside
52.219-28, Post Award Small Business Program Representation
52.222-3, Convict Labor
52.222-19, Child Labor – Cooperation With Authorities And Remedies
52.222-21, Prohibition of Segregated Facilities
52.222-26, Equal Opportunity
52.222-36, Equal Opportunity for Workers with Disabilities
52.222-50, Combating Trafficking in Persons
52.223-18, Contractor Policy to Ban Text Messaging While Driving
52.225-1, Buy American Act-Supplies
52.225-13, Restrictions on Certain Foreign Purchases
52.232-33, Payment by Electronic Funds Transfer

FAR 52.252-1, Solicitation Provisions Incorporated by Reference:

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The quoter is cautioned that the listed provisions may include blocks that must be completed by the quoter and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the quoter may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es): at <http://acquisition.gov/comp/far/index.html> and http://www.osec.doc.gov/oam/acquistion_management/policy/default.htm

FAR 52.225-18 – Place of Manufacture.

FAR 52.232-15, Progress Payments Not Included.

CAR 1352.233-70, Agency Protests

CAR 1352.233-71, GAO and Court of Federal Claims Protests

FAR 52.252-2, Clauses Incorporated by Reference:

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://acquisition.gov/comp/far/index.html> and http://www.osec.doc.gov/oam/acquistion_management/policy/default.htm

FAR 52.232-40, Providing Accelerated Payments to Small Business Subcontractors.

FAR 52.247-34, FOB Destination

CAR 1352.201-70, Contracting Officer's Authority

CAR 1352.209-73, Compliance with the Laws

CAR 1352.209-74, Organizational Conflict of Interest

CAR 1352.246-70, Place of Acceptance (APR 2010)

(a) The Contracting Officer or the duly authorized representative will accept supplies and services to be provided under this contract.

(b) The place of acceptance will be:

NIST

Shipping and Receiving

325 Broadway

Boulder, CO 80305

NIST LOCAL-04 BILLING INSTRUCTIONS

(a) NIST prefers electronic Invoice/Voucher submissions and they should be emailed to INVOICE@NIST.GOV.

(b) Each Invoice or Voucher submitted shall include the following: (1) Contract Number. (2) Contractor Name and Address. (3) Date of Invoice. (4) Invoice Number. (5) Amount of Invoice and Cumulative Amount Invoiced to-date. (6) Contract Line Item Number (CLIN). (7) Description, Quantity, Unit of Measure, Unit Price, and Extended Price of Supplies/Services Delivered. (8) Prompt Payment Discount Terms, if Offered. (9) Any other information or documentation required by the contract.

(c) In the event electronic submissions are not used, The Contractor shall submit an original invoice or voucher in accordance with the payment provisions of this contract to:

NIST

Accounts Payable Office

100 Bureau Drive, Mail Stop 1621

Gaithersburg, MD 20899-1621

NIST LOCAL - 39, NIST LOCAL-39 MARKING/PACKING INSTRUCTIONS

(1) If the total contract/order includes multiple quantities of the same or like item(s), segregated as separate CLIN/Item numbers, deliverables shall be packed accordingly. Each individual Package / container in the shipment shall include deliverables on a per-CLIN or Item basis.

(2) For each shipment made under this contract/order, the Contractor shall furnish itemized packing list(s), enumerating the specific contents of each shipping container and what specific individual components constitute a full and complete "unit" for each bid item. The packing list shall include the brief description of each item found in the Schedule. If more than one container is required for each unit, each container should be marked accordingly, e.g., "Box 1 of 2," "Box 2 of 2," and the boxes, where feasible, should be taped or shrink-wrapped together as an issuable unit.

- (3) The contract number AND CONTRACT LINE ITEM NUMBER (CLIN) OR ORDER ITEM NUMBER shall be placed on the exterior of all containers.

If you have any questions, please do not hesitate to contact me at dennis.fuentes@nist.gov.

Thank you.