



Request for Quotation (RFQ) for supply of 1 x Tunable laser system to the CSIR

RFQ No.9239/19/08/2020

Date of issue	Wednesday , 05 August 2020
Closing Date and Time	Wednesday, 19 August 2020 at 16H30 (Late submissions will not be considered)
Contact details	For submission of quotations or any other enquiries: tender@csir.co.za (Please use RFQ Number at subject reference)

1 INVITATION FOR QUOTATION

Quotations are hereby invited for supply of 1 x Tunable Laser system to the CSIR.

2 QUOTATION REQUIREMENTS

Specifications
Tuning range: 805–820 nm Output power: 2,5 W (2 W > 815 nm), before 2nd isolator
Pro design MOPA system with latest DLC pro driving electronics for excellent frequency stability, narrow linewidth & convenience
Alignment free coarse tuning of master laser over entire gain range of diode
Resonance free piezo modulation up to 4 kHz
Ultra stable mirror mounts and chip mount for unmatched stability against acoustic noise, vibrations and ambient temperature changes
Housing machined from a solid metal block
Proprietary optics for highest beam quality and fiber coupling efficiencies > 50% (type 60%) into SM and PM fibers
Output polarization linear, typ. 1:100
Probe Beam output with compact fiber coupling option (FiberDock)
Monitor photo diodes for seed and output power monitoring as well as chip protection
High bandwidth current modulation for both master and amplifier, with diode protection.
Content of delivery: Laser head includes
Pro design master laser including laser diode
Optical Isolator 60dB for protection of master
2x ultra stable beam steering mirrors

Tapered amplifier chip with mount, optics, and thermal management DLC pro electronics includes
Lowest noise and drift, high resolution current, temperature and piezo drivers
Up to 5 A driving current for amplifier chip, up to 10 A are available with DLC TA PRO HP
Flexible control by integrated CPU & FPGAs for intelligent features: scanning, signal display locking*, relock*, FFT, power stabilization etc.
Some features (*) are optionally available with the article DLC PRO LOCK
Wide scan mode with synchronized data recording for spectroscopy and component testing
7" capacitive touch display together with four rotary knobs for comfortable and efficient front panel control
Graphical PC user interface as well as command based (TCP/IP) interface for remote control
Set of required connector cables
Optical Isolator DSR820 800 - 865 nm
Isolation (min/typ): 60/67 dB
Transmission (min/typ): 80/90 %
Aperture 4.7 mm
Maximum power density > 4 kW/cm ² , max. 40 W cw
Can be integrated in DL pro, MDL pro DFB pro L, TA pro, BoostA
Fiber Coupler Unit, FC/APC for direct attachment onto TOPTICA lasers
Extremely stable fiber coupler with all needed degrees of freedom (2 X/Y+Z)
Easy flexure based alignment
Patented design (US 7,321,706, EP 1,666,944)
Including cost for fiber coupler, coupling lens, labour and additional material to install the fiber coupler at the laser head
Fiber Patchcord, SM/PM, FC/AFC 760 - 980 nm, "Longlife", L = 3 m, MFD = 5.5 µm· Longlife fibers cannot be used for physical contact (PC) coupling
typ. NA (5%): 0.11
Fiber Output Coupler, FC/APC
Fiber collimator with variable focus
Including collimation lens
Typical beam sizes out of SM-fibers: 0.6 mm - 3.5 mm (1/e ² , diameter)
Typical beam sizes out of Toptica Long Life fiber 0.6 mm - 2 mm (1/e ² , diameter)
Wavelength range: 350 nm to 3000 nm
Size: 20 x 20 x 34,5 mm ³ (W x H x L)
Please state wavelength to be used, fiber information (MFD), and the desired output beam diameter for lens selection

Please take note of the following:

- Warranties and guarantees
- Add the brochure to the quotation (quotations without brochures will not be considered)
- Clearly indicate VAT charged where applicable (if not VAT registered please state so clearly)
- Provide valid original or certified B-BBEE certificate issued by SANAS accredited provider or CIPC, or valid sworn affidavit in DTI template.

3 Elimination criteria

- 3.1 Late submission of quotes
- 3.2 Failure to adhere to quotation specifications
- 3.3 Submission at the wrong location or incorrect email address (Please submit electronically to tender@csir.co.za)

Should the tender file size exceed 30 MB, tenderers can submit tender in multiple emails

4 EVALUATION CRITERIA

- 4.1 Selection of suppliers will be based on the 80/20 preference point system.
- 4.2 Include a valid B-BBEE certificate with your quotation. No B-BBEE status will equal zero points.
- 4.3 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use www.csd.gov.za to register.
- 4.4 No order will be issued or no contract will be signed without a valid CSD number.

5 PRICING QUOTATION

- 5.1 Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.
- 5.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 5.3 Payment will be according to the CSIR Payment Terms and Conditions.

6 OTHER TERMS AND CONDITIONS

6.1 The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.

6.2 A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

7 No goods and/or services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers will be returned to supplier.

8 Note: This is not a Purchase Order.

DECLARATION BY TENDERER

Only tenderers who completed the declaration below will be considered for evaluation.

RFQ No: 9239/19/08/2020

I hereby undertake to render services described in the attached tendering documents to CSIR in accordance with the requirements and task directives / quotation specifications stipulated in RFQ No 9239-19-08-2020 at the price/s quoted. My offer/s remains binding upon me and open for acceptance by the CSIR during the validity period indicated and calculated from the closing date of the quotation.

I confirm that I am satisfied with regards to the correctness and validity of my quotation; that the price(s) and rate(s) quoted cover all the services specified in the quotation documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this quotation as the principal liable for the due fulfilment of this quotation.

I declare that I have no participation in any collusive practices with any tenderer or any other person regarding this or any other quotation.

I accept that the CSIR may take appropriate actions, deemed necessary, should there be a conflict of interest or if this declaration proves to be false.

I confirm that I am duly authorised to sign this quotation.

NAME (PRINT)
CAPACITY
SIGNATURE
NAME OF FIRM
DATE

WITNESSES	
1
2
DATE:	