



## Request for Quotation (RFQ) for the supply of 1 x Scanning interferometer system to the CSIR

RFQ No: 5578/06/02/2020

Date of issue	Thursday, 23 January 2020
Closing Date and Time	Thursday, 06 February 2020 @ 16h30 <b>(Late submissions will not be considered)</b>
Contact details	For submission of quotations or any other enquiries: <a href="mailto:tender@csir.co.za">tender@csir.co.za</a> <b>(Please use RFQ Number as subject reference)</b>

### 1 INVITATION FOR QUOTATION

Quotations are hereby invited for the supply of 1 x Scanning interferometer system to the CSIR

### 2 QUOTATION REQUIREMENTS

Specifications
<b>CAVITY</b>
Useful spectral range 400-800 nm, or as much of this range as possible
The cavity must be formed by two spherical mirrors, each with a radius of curvature equal to the spacing between the mirrors (that means a confocal cavity).
The structure of the cavity must be made of Ultrastable Athermal Invar
The mirror substrates must be made of UV fused silica
Mirror reflectance must be larger than 99.3% over the useful spectral range
Mirror finesse must be larger than 250 over the useful spectral range
The free spectral range of the interferometer must be 10 GHz ( $10^{10}$ Hz).
Finesse of interferometer must be larger than 150
The resolution must be 67 MHz ( $67 \times 10^6$ Hz) or smaller
Cavity length must be equal to 7.5 mm or larger than this, but not smaller
<b>DETECTOR</b>
A photodiode that can be mounted onto the cavity or removed by the user must be supplied
A cable ending in a BNC connector to connect the photodiode to an oscilloscope must be supplied

<b><u>SCANNING</u></b>
Scanning of the distance between the mirrors must be possible by means of piezoelectric transducer
A cable ending in a BNC connector to apply the voltage to the piezoelectric transducer must be supplied
Minimum scanning range must be three times the free spectral range

**Please take note of the following:**

- Delivery, warranties, installation and training must be included
- The machine must come with a manual
- 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)

**3 EVALUATION CRITERIA**

- 3.1 Selection of suppliers will be based on the 80/20 preference point system.
- 3.2 Please send a valid B-BBEE certificate with quotation. No B-BBEE status will equal zero points.
- 3.3 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use [www.csd.gov.za](http://www.csd.gov.za) to register.
- 3.4 No order will be issued or no contract will be signed without a valid CSD number.

**4 PRICING QUOTATION**

- 4.1 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.
- 4.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 4.3 Payment will be according to the CSIR Payment Terms and Conditions.

**5 OTHER TERMS AND CONDITIONS**

- 5.1 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.

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

**6 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.**

**7 Note: This is not a Purchase Order.**