

Request for Quotation (RFQ) for the upgrade of a Spark optical emission spectrometer (OES) to the CSIR

Date of issue	Tuesday, 04 October 2022
Closing Date and Time	Tuesday, 18 October 2022 at 16:30
RFQ No	9391/18/10/2022
Contact details	For submission of quotations or any other enquiries: tender@csir.co.za Mail size is limited to 25MB, if the document exceeds this limit please send multiple mails. Cloud submissions will not be accepted

1 INVITATION FOR QUOTATION

Quotations are hereby invited for the upgrade of a Spark optical emission spectrometer (OES) to the CSIR.

2 QUOTATION REQUIREMENTS

The Advance Materials Engineering (AME) impact area in the Manufacturing Cluster has been tasked by the National Foundry Technology Network to establish the Foundry Technology Centre at the CSIR to support the local foundry industry. This entails upgrading of existing equipment and/or purchasing critical equipment. A spark optical emission spectrometer (OES) was identified as one of the key tools required to offer to provide quality technical support. Although CSIR has a spark OES, this is very old and limited in the range of alloy bases that can be analysed. Acquisition of a new spark OES with the capability to analyse a wider range of alloys with improved accuracies has been approved. Based on the need to service a wide industry sector and the equipment will be used for research and development and technical support, the following needs are met by spark OES specifications for composition analyses.

Table 1: Required specifications for spark OES:

Databases required: (Including all methods)	<ul style="list-style-type: none"> • Al and alloys • Ti and alloys • Fe and alloys • Cu and alloys • Zn and alloys • Mg and alloys • Ni and alloys • Provide calibration standards
Detectable wavelength range:	From 120 nm to 770 nm, inclusive
Number of detectable elements:	<p>Greatest nr of detectable elements per database</p> <p>Must be able to detect small quantities of silver and lithium in aluminium alloys.</p>
Detection limits:	<ul style="list-style-type: none"> • ≤ 5 ppm per element per database • In Fe database: ≤ 20 ppm O, ≤ 5 ppm N • In Ti database: ≤ 75 ppm O, ≤ 20 ppm N • In Cu database: ≤ 20 ppm O
Other functions:	Analyse for inclusions, e.g. oxides and carbides, in Fe and Al
Sample size:	Standard, including spark stand adapters
Signal drift:	Low long-time drift with infrequent use
Included costs:	<ul style="list-style-type: none"> • Commissioning • Instrument and operating software training • ≥ 3-year service and support contract
Delivery and commissioning deadline	By 31 January 2023
Room dimensions:	<p>Door opening – 1400 mm</p> <p>Free floor space – 2800 mm x 2800 mm</p> <p>Height ~ 2500 mm</p> <p>Existing workbench: 2800 mm x 500 mm</p>

3 EVALUATION CRITERIA

- 3.1 Selection of suppliers will be based on the 80/20 preference point system.
- 3.2 Provide valid original or certified copy of the B-BBEE Certificate issued by an accredited verification agency and bearing a SANAS logo; or
 - Valid sworn affidavits made on DTIC designed templates; or
 - DTIC issued sworn affidavit; or
 - CIPC issued B-BBEE certificate.
- 3.3 No order will be issued or no contract will be signed without a valid CSD number.

4 ELIMINATION CRITERIA

- Submission after the deadline;
- Proposals submitted at the incorrect email address
- Failure to adhere to quotation requirements
- Failure to provide delivery estimates (ETA)
- Bidders that are registered on the National Treasury Register of Tender Defaulters
- Incomplete proposal submission
- National Treasury Restricted suppliers
- Failure to submit fully completed and signed SBD 4 and SBD 1.

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 CSIR RESERVES THE RIGHT TO

- 7.1 Extend the closing date;
- 7.2 Verify any information contained in a submission;
- 7.3 Request documentary proof regarding any tendering issue;
- 7.4 Give preference to locally manufactured goods;
- 7.5 Appoint one or more service providers, separately or jointly (whether or not they submitted a joint proposal);
- 7.6 Award this RFQ as a whole or in part;
- 7.7 Cancel or withdraw this RFQ as a whole or in part.

- 8 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.**

- 9 Note: This is not a Purchase Order.**

DECLARATION BY TENDERER

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

RFQ No: 9391/18/10/2022

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 9391/18/10/2022 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:
