

Request for Proposals (RFP)

for

**The supply, installation, commissioning and training
on a particle size analyser with integrated shape
analysis to CSIR**

RFP No. 3414.1/26/03/2021

Date of Issue	Friday, 12 March 2021	
Closing Date and Time	Friday, 26 March 2021 at 16:30	
Place	Electronically: tender@csir.co.za	
Last date for enquiries	Thursday, 18 March 2021	E-mail: tender@csir.co.za
CSIR business hours	08h00 – 16h30	
Category	Laboratory	

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SECTION A – TECHNICAL INFORMATION

1 INTRODUCTION

The Council for Scientific and Industrial Research (CSIR) is one of the leading scientific research and technology development organisations in Africa. In partnership with national and international research and technology institutions, CSIR undertakes directed and multidisciplinary research and technology innovation that contributes to the improvement of the quality of life of South Africans. The CSIR's main site is in Pretoria while it is represented in other provinces of South Africa through regional offices.

2 BACKGROUND

The CSIR has received DSI funding for the installation of a supercritical CO₂ pilot plant used for the encapsulation and micronisation of various compounds and materials. To expand our characterisation facility, we require equipment to measure particle size and particle size distribution of a wide range of materials (polymers, fats, waxes, active compounds, food additives etc.)

3 INVITATION FOR PROPOSAL

Proposals are hereby invited for the supply, installation, commissioning and training on of a Particle Size Analyser (PSA).

The PSA must meet the following basic requirements: 1) measure particle size range from submicron to millimetre, 2) measure wide range of materials, 3) measure particle size distributions for both wet and dry dispersions, 4) functionality to disperse agglomerating powders, 5) reproducible and reliable results, 6) rapid particle size & distribution measurement, 7) Eliminate cross-contamination, 8) Compliance to international quality standards

In addition, local demonstration of the capabilities of the particle size analyser with a variety of materials selected by the CSIR is a requirement.

4 PROPOSAL SPECIFICATION

4.1 Technical Proposal

- Particle size range – at least from 50nm and 2000µm
- Suitable for a wide range of materials – accurately measure wide range of materials (e.g. polymers, fats, waxes, active compounds, food additives) with a wide range of morphologies (spherical, angular, porous etc.) and range of surface tensions
- Wet and dry dispersions – have the option to either disperse powder in a liquid (water/solvent) medium or as a dry dispersion in air
- Integrated particle shape analysis – Integrated with the Particle Size Analyser the capacity to visualise particle shape and calculate various shape parameters such as: aspect ratio and sphericity
- Functionality to disperse agglomerating powders – special features as optional extra's for dispersing agglomerating powders (e.g. dispersing mediums, sonicators)
- Reproducible and reliable results – less than 1% deviation between measurements for a standard reference material
- Speed of measurement – measurement complete in less than 2 minutes
- Cross contamination - risk of cross-contamination eliminated through easy cleaning procedure
- Compliance to international standard: ISO 13320

5 FUNCTIONAL EVALUATION CRITERIA

5.1 The evaluation of the functional / technical detail of the proposal will be based on the following criteria:

Criteria		Weighting
1	Particle size range	15
2	List of materials suitability	10
3	Ability for wet & dry dispersions	10
4	Functionality to disperse agglomerating materials	15
5	Particle shape analysis	10
6	Reproducibility & reliability	10
7	Speed of measurement	5
8	Ease of cleaning	10
9	Compliance to international standards	10
10	Training included for 3 operators	5

- 5.2 Proposals with functionality / technical points of less than the pre-determined minimum overall percentage of 70% will be eliminated from further evaluation.
- 5.3 Refer to Annexure A for the scoring sheet that will be used to evaluate functionality.

6 ELIMINATION CRITERIA

Proposals will be eliminated under the following conditions:

- No local demonstration available
- Submission after the deadline;
- Proposals submitted at incorrect address for electronic submissions;
- Incomplete proposals
- Proposals not in English
- No warranty offered

7 NATIONAL TREASURY CENTRAL SUPPLIER DATABASE REGISTRATION

Before any negotiations will start with the winning bidder it will be required from the winning bidder to:

- be registered on National Treasury's Central Supplier Database (CSD). Registrations can be completed online at: www.csd.gov.za;
- provide the CSIR of their CSD registration number; and
- provide the CSIR with a certified copy of their B-BBEE certificate. If no certificate can be provided, no points will be scored during the evaluation process. (RSA suppliers only)

SECTION B – TERMS AND CONDITIONS

8 VENUE FOR PROPOSAL SUBMISSION

All proposals must be submitted at:

- tender@csir.co.za - all bids must be clearly marked with the bidders name, and the contents of the email.
- Emails can be sent in parts if file or document size exceeds 30MB

9 TENDER PROGRAMME

The tender program, as currently envisaged, incorporates the following key dates:

- Issue of tender documents: 12 March 2021
- Last date for submission of queries: 18 March 2021
- Closing / submission Date: 26 March 2021
- Estimate appointment date of successful tenderer: TO BE CONFIRMED

10 SUBMISSION OF PROPOSALS

10.1 Proposals must consist of two parts, each of which are clearly named per document:

PART 1: Technical Proposal: RFP No.: 3414.1/26/03/2021

PART 2: Pricing Proposal, B-BBEE and other Mandatory Documentation:

RFP No.: 3414.1/26/03/2021

10.2 The CSIR will award the contract to qualified tenderer(s)' whose proposal is determined to be the most advantageous to the CSIR, taking into consideration the technical (functional) solution, price and B-BBEE.

11 DEADLINE FOR SUBMISSION

Proposals shall be submitted at the address mentioned above no later than the closing date of **Friday, 26 March 2021** during CSIR's business hours. The CSIR business hours are between 08h00 and 16h30.

Where a proposal is not received by the CSIR by the due date and stipulated place, it will be regarded as a late tender. Late tenders will not be considered.

12 AWARDING OF TENDERS

- 12.1 Awarding of tenders will be published on the National Treasury e-tender portal or the CSIR's tender website. No regret letters will be sent out.

13 EVALUATION PROCESS

13.1 Evaluation of proposals

All proposals will be evaluated by an evaluation team for functionality, price and B-BBEE. Based on the results of the evaluation process and upon successful negotiations, the CSIR will approve the awarding of the contract to successful tenderers.

A two-phase evaluation process will be followed.

- The first phase includes evaluation of **elimination** and **functionality criteria**.
- The second phase includes the evaluation of **price** and **B-BBEE** status.

Pricing Proposals will only be considered after functionality phase has been adjudicated and accepted. Only proposals that achieved the specified minimum qualification scores for functionality will be evaluated further using the preference points system.

13.2 Preference points system

The 80/20 preference point system will be used where 80 points will be dedicated to price and 20 points to B-BBEE status. If all tenders received are more than R50m, the proposal will be cancelled and re-issued.

14 PRICING PROPOSAL

- 14.1 Pricing proposal must be cross-referenced to the sections in the Technical Proposal. Separate pricing must be provided for each option offered to ensure that pricing comparisons are clear and unambiguous.

- 14.2 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.

14.3 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable.

14.4 Only firm prices* will be accepted during the tender validity period. Non-firm prices** (including prices subject to rates of exchange variations) will not be considered.

**Firm price is the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax which, in terms of a law or regulation is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;*

***Non-firm price is all prices other than "firm" prices.*

14.5 Payment will be according to the CSIR Payment Terms and Conditions.

15 VALIDITY PERIOD OF PROPOSAL

Each **proposal** shall be valid for a minimum period of three (3) months calculated from the closing date.

16 APPOINTMENT OF SERVICE PROVIDER

16.1 The contract will be awarded to the tenderer who scores the highest total number of points during the evaluation process, except where the law permits otherwise.

16.2 Appointment as a successful service provider shall be subject to the parties agreeing to mutually acceptable contractual terms and conditions. In the event of the parties failing to reach such agreement CSIR reserves the right to appoint an alternative supplier.

16.3 Awarding of contracts will be announced on the National Treasury website and no regret letters will be sent to unsuccessful bidders.

17 ENQUIRIES AND CONTACT WITH THE CSIR

Any enquiry regarding this RFP shall be submitted in writing to CSIR at tender@csir.co.za with **"RFP No 3414.1/26/03/2021 – For the supply, installation, commissioning and training on a particle size analyser to CSIR"** as the subject.

Any other contact with CSIR personnel involved in this tender is not permitted during the RFP process other than as required through existing service arrangements or as requested by the CSIR as part of the RFP process.

18 MEDIUM OF COMMUNICATION

All documentation submitted in response to this RFP must be in English.

19 COST OF PROPOSAL

Tenderers are expected to fully acquaint themselves with the conditions, requirements and specifications of this RFP before submitting proposals. Each tenderer assumes all risks for resource commitment and expenses, direct or indirect, of proposal preparation and participation throughout the RFP process. The CSIR is not responsible directly or indirectly for any costs incurred by tenderers.

20 CORRECTNESS OF RESPONSES

20.1 The tenderer must confirm satisfaction regarding the correctness and validity of their proposal and that all prices and rates quoted cover all the work/items specified in the RFP. The prices and rates quoted must cover all obligations under any resulting contract.

20.2 The tenderer accepts that any mistakes regarding prices and calculations will be at their own risk.

21 VERIFICATION OF DOCUMENTS

21.1 Tenderers should check the numbers of the pages to satisfy themselves that none are missing or duplicated. No liability will be accepted by the CSIR in regard to anything arising from the fact that pages are missing or duplicated.

21.2 Pricing schedule and B-BBEE credentials should be submitted with the proposal, but as a separate document and no such information should be available in the technical proposal.

22 SUB-CONTRACTING

- 22.1 A tenderer will not be awarded points for B-BBEE status level if it is indicated in the tender documents that such a tenderer intends sub-contracting more than **25%** of the value of the contract to any other enterprise that does not qualify for at least the points that such a tenderer qualifies for, unless the intended sub-contractor is an exempted micro enterprise that has the capability and ability to execute the sub-contract.
- 22.2 A tenderer awarded a contract may not sub-contract more than **25%** of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an exempted micro enterprise that has the capability and ability to execute the sub-contract.

23 ENGAGEMENT OF CONSULTANTS

The consultants will only be remunerated at the rates:

- 23.1 Determined in the "Guideline for fees", issued by the South African Institute of Chartered Accountants (SAICA); or
- 23.2 Set out in the "Guide on Hourly Fee Rates for Consultants", by the Department of Public Service and Administration (DPSA); or
- 23.3 Prescribed by the body - regulating the profession of the consultant.

24 TRAVEL EXPENSES

- 24.1 All travel expenses for the CSIR's account, be it directly via the CSIR's travel agent or indirectly via re-imburements, must be in line with the CSIR's travel policy. The following will apply:
- 24.1.1 Only economy class tickets will be used.
- 24.1.2 A maximum of R1400 per night for accommodation, dinner, breakfast and parking will be allowed.
- 24.1.3 No car rentals of more than a Group B will be accommodated.

25 ADDITIONAL TERMS AND CONDITIONS

- 25.1 A tenderer shall not assume that information and/or documents supplied to CSIR, at any time prior to this request, are still available to CSIR, and shall consequently not make any reference to such information document in its response to this request.
- 25.2 Copies of any affiliations, memberships and/or accreditations that support your submission must be included in the tender.
- 25.3 In case of proposal from a joint venture, the following must be submitted together with the proposal:
- Joint venture Agreement including split of work signed by both parties;
 - The original or certified copy of the B-BBEE certificate of the joint venture;
 - The Tax Clearance Certificate of each joint venture member;
 - Proof of ownership/shareholder certificates/copies; and
 - Company registration certificates.
- 25.4 An omission to disclose material information, a factual inaccuracy, and/or a misrepresentation of fact may result in the disqualification of a tender, or cancellation of any subsequent contract.
- 25.5 Failure to comply with any of the terms and conditions as set out in this document will invalidate the Proposal.

26 CSIR RESERVES THE RIGHT TO

- 26.1 Extend the closing date;
- 26.2 Verify any information contained in a proposal;
- 26.3 Request documentary proof regarding any tendering issue;
- 26.4 Give preference to locally manufactured goods;
- 26.5 Appoint one or more service providers, separately or jointly (whether or not they submitted a joint proposal);
- 26.6 Award this RFP as a whole or in part;
- 26.7 Cancel or withdraw this RFP as a whole or in part.

27 DISCLAIMER

This RFP is a request for proposals only and not an offer document. Answers to this RFP must not be construed as acceptance of an offer or imply the existence of a contract between the parties. By submission of its proposal, tenderers shall be deemed to have satisfied themselves with and to have accepted all Terms & Conditions of this RFP. The CSIR makes no representation, warranty, assurance, guarantee or endorsements to tenderer concerning the RFP, whether with regard to its accuracy, completeness or otherwise and the CSIR shall have no liability towards the tenderer or any other party in connection therewith.

DECLARATION BY TENDERER

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

RFP No:

I hereby undertake to render services described in the attached tendering documents to CSIR in accordance with the requirements and task directives / proposal specifications stipulated in RFP No..... 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 proposal.

I confirm that I am satisfied with regards to the correctness and validity of my proposal; that the price(s) and rate(s) quoted cover all the services specified in the proposal 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 proposal as the principal liable for the due fulfilment of this proposal.

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

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 proposal.

NAME (PRINT)
CAPACITY
SIGNATURE
NAME OF FIRM
DATE

WITNESSES	
1
2
DATE:	

28 ANNEXURE A

	Functional/Technical criteria	Weighting	0	7	10
1	Particle size range	15%	Minimum above 500nm; maximum below 500µm	Minimum above 0.25µm; maximum below 2000µm	Minimum below 0.25nm; maximum above 2000µm
2	List of materials suitability	10%	Not suitable for either of the following: polymers, fats, waxes, food additives	All of the following: polymers, fats, waxes, food additives.	All of the following: polymers, fats, waxes, food additives – including metal powders
3	Ability for wet & dry dispersions	10%	Only wet or dry dispersions		Wet and dry dispersions
4	Functionality to disperse agglomerating powders	15%	No functionality to disperse agglomerating powders		Functionality to disperse agglomerating powders
5	Particle shape analysis	10%	No integrated shape analysis	Integrated shape imaging without calculation of shape parameters	Integrated shape imaging with calculation of various shape parameters including: sphericity & aspect ratio
6	Reproducibility & reliability	10%	More than 2% deviation between measurements for a standard reference material	Between 1 – 2% deviation between measurements for a standard reference material	Less than 1% deviation between measurements for a standard reference material
7	Speed of measurement	5%	More than 4 minutes for measurement completion	Measurement complete between 4 and 2 minutes	Measurement complete in less than 2 minutes
8	Ease of cleaning	10%	Parts cannot be removed for proper cleaning	Complex parts to be removed for cleaning	Easy access to parts for rapid cleaning
9	Compliance to international standards	10%	No international standard compliance	Complies to requirements of the ISO 13320	Exceeds ISO 13320 requirements
10	Training included for 3 operators	5%	No training included	Training included for 3 operators	Training included for 3 operators – free of charge