

# **Request for Proposals (RFP)**

# for The supply of 3D Printers to the CSIR

# RFP No. 3525/30/06/2022

Date of Issue	Wednesday, 15 June 2022			
Closing Date	Thursday, 30 June 2022			
Place of tender submission	Electronic submission: tender@csir.co.za			
	Mail size is limited to 25MB, if the document exceeds this			
	limit, please send multiple emails.			
	Cloud submissions will not be accepted			
Enquiries	Strategic Procurement Unit Enquiries			
CSIR business hours	08h00 - 16h30			
Category	Computer equipment			

# **TABLE OF CONTENTS**

SECTI	ON A – TECHNICAL INFORMATION	3
1	INTRODUCTION	3
2	BACKGROUND	3
3	INVITATION FOR PROPOSAL	3
4	PROPOSAL SPECIFICATION	3
5	FUNCTIONAL EVALUATION CRITERIA	4
INTER	OPERABILITY	5
FLEXI	BILITY	5
6	ELIMINATION CRITERIA	5
7	NATIONAL TREASURY CENTRAL SUPPLIER DATABASE REGISTRATION	6
SECTI	ON B – TERMS AND CONDITIONS	7
8	VENUE FOR PROPOSAL SUBMISSION	7
9	TENDER PROGRAMME	7
10	SUBMISSION OF PROPOSALS	7
11	DEADLINE FOR SUBMISSION	7
12	AWARDING OF TENDERS	8
13	EVALUATION PROCESS	8
14	PRICING PROPOSAL	8
15	VALIDITY PERIOD OF PROPOSAL	9
16	APPOINTMENT OF SERVICE PROVIDER	9
17	ENQUIRIES AND CONTACT WITH THE CSIR	9
18	MEDIUM OF COMMUNICATION	10
19	COST OF PROPOSAL	10
20	CORRECTNESS OF RESPONSES	10
21	VERIFICATION OF DOCUMENTS	10
22	SUB-CONTRACTING	10
23	ENGAGEMENT OF CONSULTANTS	11
24	TRAVEL EXPENSES	11
25	ADDITIONAL TERMS AND CONDITIONS	11
26	CSIR RESERVES THE RIGHT TO	12
27	DISCLAIMER	12
DECL	ARATION BY TENDERER	13
28	ANNEXURE A	14

#### 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 have established a Smart Factory to support and enable the manufacturing industry. The objectives of the Smart Factory are to:

- Enable research, development, localisation and diffusing of transformative technologies in SA manufacturing sector
- Build and leverage human capital
- Contribute to re-industrialisation of SA manufacturing sector
- Support digital transformation integration and creation of value chains
- Support CSIR-wide manufacturing activities

The Smart Factory requires two metal 3D printers, including the required operating accessories to complement the production system capability within the Smart Factory. The machines should be able to handle a wide range of materials. Users should be able to use any supplier or alloy of their choice, provided materials are supplied at the proper specifications. The machines will be used for industrial as well as academic research.

#### 3 INVITATION FOR PROPOSAL

Proposals are hereby invited for the supply of 3D Printers to the CSIR.

#### 4 PROPOSAL SPECIFICATION

All proposals are to be submitted in a format specified in this enquiry. However, tenderers are welcome to submit additional / alternative proposals over and above the originally specified

format. Preference would be towards a system with the following minimum specifications and features:

#### Performance

- Metal Powder bed fusion machine
- Build volume: ≥5000cm3
- ≥ 400W Yb fiber laser
- Layer thickness: >30um
- Flexible process variation
- Adaptable to non-standard powders
- Maintenance plans

# Interoperability

- Software access to the low level I/O systems (Incl hardware)
- API's or software access to link machine to Manufacturing Execution System (MES) and other systems

# Support

Must provide local technical support

# Flexibility

- Adaptable to non-standard powders
- Ability to use different metal powders

#### 5 FUNCTIONAL EVALUATION CRITERIA

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

#### Performance

- Metal Powder bed fusion machine

- Build volume: ≥5000cm3

- ≥ 400W Yb fiber laser

Layer thickness: >30um

Flexible process variation

- Adaptable to non-standard powders
- Maintenance plans

# Interoperability

- Software access to the low level I/O systems (Incl hardware)
- API's or software access to link machine to Manufacturing Execution System (MES) and other systems

# Support

- Must provide local technical support

# Flexibility

- Adaptable to non-standard powders
- Ability to use different metal powders

Description	Weight	
Performance	40%	
- Metal Powder bed fusion machine		
- Build volume: ≥5000cm <sup>3</sup>		
- ≥ 400W Yb fiber laser		
- Layer thickness: >30um		
- Flexible process variation		
- Preferably larger in build volume		
Local support and service capability	20%	
Interoperability - API's or software access to link machine to Manufacturing Execution System (MES) and other systems	20%	
Flexibility - Adaptable to non-standard powders	20%	
- Ability to use different metal powders		

- 5.1 Proposals with functionality / technical points of less than the pre-determined minimum overall percentage of 70% will be eliminated from further evaluation.
- 5.2 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:

- Submission after the deadline;
- Proposals submitted at the incorrect email address;
- Local technical support must be based in South Africa

- OEM must provide software access to the low level I/O system (including hardware)
- National Treasury Restricted suppliers

#### 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 the following email address: tender@csir.co.za

Mail size is limited to 25MB, if the document exceeds this limit, please send multiple emails. Cloud submissions will not be accepted

#### 9 TENDER PROGRAMME

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

• Issue of tender documents: Wednesday, 15 June 2022

Last date for submission of queries: Monday, 20 June 2022

Closing / submission Date: Thursday, 30 June 2022

#### 10 SUBMISSION OF PROPOSALS

10.1 Proposals must consist of two parts, each of which must be sent on different folders or files:

PART 1: Technical Proposal: RFP No.: 3525/30/06/2022

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

RFP No.: 3525/30/06/2022

- 10.2 Proposals submitted by companies must be signed by a person or persons duly authorised.
- 10.3 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 **Thursday**, **30 June 2022** 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 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. Any options offered must be clearly labelled. 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 3525/30/06/2022 - The supply of 3D Printers to the 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 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-imbursements, 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 at accordance with the requirements and task directives / p No	roposal specifications stipulated in RFP remains binding upon me and open for				
I confirm that I am satisfied with regards to the correctner price(s) and rate(s) quoted cover all the services specific price(s) and rate(s) cover all my obligations and I accept the rate(s) and calculations will be at my own risk.	ed in the proposal documents; that the				
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 practic regarding this or any other proposal.	es with any tenderer or any other person				
I accept that the CSIR may take appropriate actions, deem of interest or if this declaration proves to be false.	ned necessary, should there be a conflict				
I confirm that I am duly authorised to sign this proposal.					
NAME (PRINT)	WITNESSES  1				
DATE					

# 28 ANNEXURE A

Functional/Technical criteria	Weighting	0	7	10
Performance  • Metal Powder bed fusion machine  • Build volume: ≥5000cm3  • ≥ 400W Yb fiber laser  • Layer thickness: >30um  • Flexible process variation  • Preferably larger in build volume	40%	Does not meet machine specifications	-	Meet all machine specifications.
Local service capability	20%	Sales only	Limited local technical support. Experts needs to be flown in from overseas for complex problems	On-site service support. Full capable local team with a track record
Interoperability  • API's or software access to link machine to Manufacturing Execution System (MES) and other systems	20%	No access or connectivity to machine	Limited API access to some of the functions	Full API access to all the functions
<ul> <li>Flexibility</li> <li>Adaptable to non-standard powders</li> <li>Ability to use different metal powders</li> </ul>	20%	Only OEM approved powders are allowed	Limited number of non- standard powders. Limited range of different metal powders	Large range of non- standard powders and metal powders can be used.