

**Request for Proposals (RFP)**

**for**

**The provision of**

**Research and technological support for the acquisition and**

**operation of Aeronautics Systems and Air Weapons**

**to CSIR**

**RFP No. 3498/10/01/2022**

Date of Issue	Tuesday, 07 December 2021
Closing Date	Monday, 10 January 2022 at 16:30
Place of tender submission	<a href="mailto:tender@csir.co.za">tender@csir.co.za</a>
Enquiries	E-mail: <a href="mailto:tender@csir.co.za">tender@csir.co.za</a>
CSIR business hours	08h00 – 16h30
Category	Professional

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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 Aeronautics Systems Impact Area of the CSIR, which houses the Aeronautical Defence and Evaluation Research Institute (ADERI) function, supports the core defence capability of the SANDF by developing, maintaining and applying a ready aeronautical technology base in a broad spectrum of the strategic domains which are key in providing the SANDF with a competitive and strategic advantage. The SANDF requires research and technological support for the acquisition and operation of Aeronautics Systems and Air Weapons.

Support is provided to the DOD, especially the SAAF, through the development and application of technology in a number of domains including:

- Simulation Based Acquisition and Operational Support
- Integration of Stores and Weapons on Aircraft

### 3 INVITATION FOR PROPOSAL

Proposals are hereby invited for the provision of technical advisory and modelling services to the CSIR's Aeronautics Systems Impact Area, Defence and Security Cluster.

### 4 PROPOSAL SPECIFICATION

#### **Task 1: Simulation Based Acquisition and Operational Support for Gripen.**

##### ***1.1 Task Outcomes and Objectives***

The service provider will be required to:

This follow-on task aims to demonstrate a systems modelling capability to the South African Air Force Mission Simulations for Beyond-Visual-Range (BVR) Missile Scenarios with Gripen.

This systems modelling capability will be used to generate simulations to advise acquisition, modelling of tactical scenarios, support the development of Gripen doctrine and tactics and understanding threats. The simulations aim to provide insight, knowledge and training with respect to scenarios to enable Air Force mission success. The outcome would include the development of an advisory and modelling capability to support South African Air Force operations and acquisition of complex systems, development of concepts of operation as well as assistance with operator training.

### **1.2 Tasks Specification and Expected Outputs**

The service provider will be required to:

- a) Capture the planning tool and simulation model software requirements necessary to perform the above uses
- b) Document a few (basket) verification scenarios. This shall include the user inputs as well as expected timeline of events and outputs for BVR engagements. The engagements should be chosen to activate all the core functionalities of the simulation models, and should also aim to maximise coverage of the secondary functionalities.
- c) Identify the scope of software development that can be delivered by 31 March 2022
- d) Co-develop models, simulate scenarios and missions with the CSIR Modelling team. The simulation environment of choice will necessarily be a CSIR “in-house” developed system coded in the C++ programming language. The service provider will be granted access to this system for this project. The scope will be what is agreed upon in (c).
- e) Plan and support the demonstration of the simulation tool to stakeholders in collaboration with CSIR.

## **5 FUNCTIONAL EVALUATION CRITERIA**

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

<b>Task</b>	<b>Evaluation Criteria</b>	<b>Weight</b>	<b>Score</b>	<b>Result</b>
Task 1: Simulation Based Acquisition	Relevant South African Air Force Air-to-Air and Air-to-Ground Combat Mission experience:	60%	Out of 100	60

and Operational Support for Gripen.	<ul style="list-style-type: none"> <li>List of actual involvement in South African Air Force air combat and air to ground training missions, mission planning and training exercises to understand the complexities and challenges of Air Operations=100 %</li> <li>No relevant involvement in air force missions = 0%</li> </ul>			
	<b>Qualification:</b> <ul style="list-style-type: none"> <li>University science or engineering degree with mathematics/applied mathematics and computer programming included = 100 %</li> <li>No relevant qualification = 0%</li> </ul>	20%	Out of 100	20
	<b>Experience:</b> Number of years of experience in developing mathematical models and performing simulation using c, c++, or related programming languages: <ul style="list-style-type: none"> <li>1 – 4 years: 50%</li> <li>5 years + = 100%</li> </ul>	20%	Out of 100	20
<b>Totals</b>		100%		100

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

## 6 ELIMINATION CRITERIA

Proposals will be eliminated under the following conditions:

- Submission after the deadline;
- Proposals submitted at incorrect location
- Incomplete proposal submission
- National Treasury Restricted suppliers
- Service providers must be in possession of a valid Armscor Facility Security Clearance;
- Service providers without the following will not be considered for this work:

- Qualified Gripen Fighter Weapons/Attack instructor with training experience in the South African Air Force (SAAF) - formal documentation proof will be required.
- SAAF Gripen Fighter system and sub-system knowledge and experience - formal documentation proof will be required.

SAAF Gripen Flight test and Gripen Operational Test and Evaluation experience  
– proven track record

## **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](http://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 or sworn affidavit on DTic template. 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 content of the email.**
- **Emails may be sent in parts if it exceeds 25 MB**

### 9 TENDER PROGRAMME

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

- Issue of tender documents: 07 December 2021
- Last date for submission of queries: 13 December 2021
- Closing / submission Date: 10 January 2022
- Estimated contract duration (in months/years) 3 months

### 10 SUBMISSION OF PROPOSALS

10.1 Proposals must consist of two parts.

PART 1: Technical Proposal: RFP No.: 3498/10/01/2022

PART 2: Pricing Proposal, B-BBEE and other Mandatory Documentation:  
RFP No.: 3498/10/01/2022

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 ***Monday, 10 January 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 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.*

## 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](mailto:tender@csir.co.za) with ***"RFP No 3498/10/01/2022 - The provision of research and technological support for the***

***acquisition and operation of Aeronautics Systems and Air Weapons 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 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 regards 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: .....	