

Ref.: EDAC202103009

Brussels, 14/04/2021

**Subject: Ex-ante publicity notice for the negotiated procedure – 21.RTI.NP3.094 - Study on
“LASER WEAPON REAL TIME HAZARD MAP (LAWRHA)”**

To whom it may concern

The European Defence Agency (EDA) will shortly launch a call for tenders for the award of the above mentioned middle value contract.

Should you be interested in being invited in the above mentioned call for tenders, please follow the instructions below.

In order to help you assess whether the envisaged contract is of your interest, the following information is hereby communicated.

Outline description of the envisaged contract	
Type of contract	<ul style="list-style-type: none">• Direct Service Contract for a provision of a study
Maximum estimated budget available for the contract	<ul style="list-style-type: none">• EUR 75 000
Duration of the contract	<ul style="list-style-type: none">• 12 months
Subject matter of the contract	<p>In this new challenging military environment with new more sophisticated asymmetric and hybrid threats, the use of laser weapon has been more and more important in term of force protection and threats defeat.</p> <p>Laser systems face several limitations. In particular, their sensitivity to atmospheric turbulence, absorption and scattering can decrease the beam quality under adverse conditions and hence reduce the circumstances in which the laser systems can be effectively used.</p>

	<p>In addition to the open gaps in developing this technology, another important issues for laser weapons to become operational is related to safety.</p> <p>Spreading of laser high energy in surrounding space, if not well focused on the main beam, can provoke permanent damage to the eyes, skins and injuries to the operators. Moreover, high energy scattering towards other equipment or ammunitions on board of the platform hosting the laser can be also really dangerous and compromise the vulnerability of the platform itself.</p> <p>Therefore, <u>suitable tools for estimating the laser effects in surrounding space before the shot occurs</u>, are fundamental to avoid potential injuries to operators and damage to platform devices. This is the topic of this study.</p> <p>The main objective of this study is to evaluate the feasibility of a simulation tool able to generate a 3D energy space distribution map before the laser weapon shot for an instantaneous evaluation of the injury/damage probability.</p> <p>The specific objectives of this study are:</p> <p>Obj. 1 - Identify the different effects that must be taken into account for the evaluation of the possible collateral damage from the laser effector, including self-damage to the platform hosting the laser, damages to own military asset nearby and also to third parties like civilian aircraft flying in the area.</p> <p>Obj. 2 - Identify and analyse a list of the external data required to evaluate the 3D energy map as well a list of all standards, rules, regulation governing laser safety.</p> <p>Obj. 3 Feasibility study of the tool describing its development tasks and planning.</p>
Participation in the negotiated procedure	<p>Participation in EDA's public procurement procedures is open on equal terms to all natural and legal persons coming within the scope of the EU Treaties. When applying the rules of access to the market, it is the country where the tenderer is established which is to be considered. As regards a natural person, it is the State in which the person has his domicile.</p> <p>EDA procurement procedures are not covered by the WTO Multilateral Government Procurement Agreement (GPA). Tenderers established in third countries (non-EU countries) do not have the right to participate in procurement procedures unless international agreements in the field of public procurement grant them the right to do so. In case there is no such agreement, or the agreement does not apply to the kind of contracts put out to tender, tenderers of third countries are not entitled to participate.</p>

	<p>The relevant international agreements in the field of public procurement are the Stabilization and Association Agreements (SAA) and the European Economic Area Agreement (EEA). Currently, the following countries have signed and ratified the above Agreements and therefore economic operators established in Iceland, Liechtenstein, Norway, North Macedonia, Albania, Montenegro, Serbia, Kosovo, Bosnia and Herzegovina also have the right to participate in EDA’s public procurement procedures.</p>															
Selection criteria: necessary capacity to implement the contract	<p>Potentially interested economic operators are hereby informed that the following selection criteria will be assessed in the scope of the envisaged negotiated procedure:</p> <table><tr><th colspan="3">Economic and financial criteria</th></tr><tr><th>Criterion</th><th>Minimum capacity</th><th>Evidence/supporting documents</th></tr><tr><td>Economical and financial capacity</td><td>The tenderer must have a minimum annual turnover of 70 000 EUR for each of the last three financial years for which accounts have been closed.</td><td>The duly completed and signed Financial and Economic Capacity Overview Form in annex to the tender specifications.</td></tr></table> <p style="text-align: center;">Technical and professional criteria</p> <table><tr><th>Criterion</th><th>Minimum capacity</th><th>Evidence/supporting documents</th></tr><tr><td>Minimum capacity level relating to tenderers</td><td><p>1. The tenderer shall demonstrate its experience in conducting studies in at least 2 of the following 4 areas related to Sensor Technologies and ammunitions:</p><ul style="list-style-type: none">• Active EO sources;• Laser systems physics and design;• High energy laser weapons;</td><td>List of relevant projects delivered in the past three years, with sums, dates and recipients, funded by public or private entities, describing the results gathered with respect to the requirements laid out under “Minimum capacity”. The most important projects shall be accompanied by a document certifying the successful completion (if available);</td></tr></table>	Economic and financial criteria			Criterion	Minimum capacity	Evidence/supporting documents	Economical and financial capacity	The tenderer must have a minimum annual turnover of 70 000 EUR for each of the last three financial years for which accounts have been closed.	The duly completed and signed Financial and Economic Capacity Overview Form in annex to the tender specifications.	Criterion	Minimum capacity	Evidence/supporting documents	Minimum capacity level relating to tenderers	<p>1. The tenderer shall demonstrate its experience in conducting studies in at least 2 of the following 4 areas related to Sensor Technologies and ammunitions:</p> <ul style="list-style-type: none">• Active EO sources;• Laser systems physics and design;• High energy laser weapons;	List of relevant projects delivered in the past three years, with sums, dates and recipients, funded by public or private entities, describing the results gathered with respect to the requirements laid out under “Minimum capacity”. The most important projects shall be accompanied by a document certifying the successful completion (if available);
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		<ul style="list-style-type: none"> • High energy light propagation and interaction in space. <p>The tenderer shall demonstrate to have completed three projects delivered within the last three years in at least 2 of the 4 areas identified above for a minimum value of 50 000 EUR per project.</p> <p>2. The tenderer shall demonstrate capacity to draft reports in English with a minimum of two (2) projects delivered in the last three years.</p>	
	Minimum capacity level relating to the team delivering the service	<p>The tenderer shall demonstrate its capacity to provide a qualified team of experts for delivering the study.</p> <p><u>A team of minimum three experts</u> having at least the following qualifications/expertise:</p> <p>One Project Manager: At least 5 years' experience in activities such as project coordination, including overseeing project delivery, quality control of delivered project results, client orientation and conflict resolution experience in project of a similar size.</p>	<p>The CVs of experts detailing the educational and professional qualifications and experience. The Europass curriculum vitae format¹ shall be filled in. Each CV provided shall indicate the intended function in the delivery of the study. The precise contractual link with the tenderer has also to be described.</p>

¹ <http://europass.cedefop.europa.eu/en/home>

		At least two Technical Experts: Relevant higher education degree and at least 3 years' professional experience in the field of high energy laser source design and propagation.	
	NB Whilst no documents need to be submitted at this stage to prove that the above criteria are met, potentially interested economic operators are strongly advised to verify that they fully comply with the announced criteria.		
Indicative date for launching the negotiated procedure	Invitation to submit tenders will be electronically sent to economic operators indicatively by 15/05/2021.		
Indicative time schedule for signing the contract	The envisaged contract will be signed indicatively by 10 July 2021.		

If you are interested in being invited in the above mentioned call for tenders, please reply to this ex-ante publicity notice by sending via email the filled-in **Reply Form**. Such Reply Form shall be sent to no later than **04/05/2021, 17h00** (Brussels time) to the following EDA functional mail box:

procurement@eda.europa.eu

No evaluation is performed at this stage. All the economic operators who have expressed their interest to participate in this procurement procedure within the above-mentioned deadline will be subsequently invited to submit a tender. The contracting authority reserves the right to also invite economic operators not included in the list of interested economic operators who responded to this ex-ante publicity.

Only the candidates invited by the contracting authority to participate in this procurement procedure will be admissible.

This publicity is in no way binding for the EDA. The EDA's contractual obligation commences only upon signature of the contract with the successful tenderer.

Submission of an expression of interest implies acceptance of receiving the invitation to tender by electronic means. **It is the tenderer's responsibility to provide a valid e-mail address together with their contact details in the Reply Form and to check their e-mail regularly.**

We look forward to receiving your expression of interest.

Annex: Reply Form (Expression of interest)

REPLY FORM (Expression of interest)

Please return the present page duly filled in to the following e-mail:

procurement@eda.europa.eu

Please indicate in the subject line of the e-mail the title and number of the procedure:

21.RTI.NP3.094 - LASER WEAPON REAL TIME HAZARD MAP (LAWRHA)

Name of the Company	
Title, first name and last name of contact person, and Function within the Company	
Address of the Company (including post code, town, country)	
Telephone: (with international prefix)	
E-mail of the contact person ²	

Upon reception of your expression of interest, your personal data will be recorded and further processed by EDA for the sole purpose of drawing up list of interested economic operators that will be invited to take part in the present negotiated procedure. Such data will be processed by EDA in accordance with Regulation (EU) No 2018/1725³, pursuant to Article 31 of Council Decision (CSFP) 2015/1835.

Details concerning processing of your personal data are available in the privacy statement at the page:

<http://www.eda.europa.eu/docs/default-source/procurement/privacy-statement.pdf>

² Where the invitation to tender will be sent.

³ Regulation (EU) No 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p.39)