

PUBLIC CONTRACT JUSTIFICATION

FULL-WAVEFORM AERIAL LASER SCANNER

I. CONTRACT AWARDING AUTHORITY	
Name	Ústav výzkumu globální změny AV ČR, v. v. i. (Global Change Research Institute CAS)
Registered office	Bělidla 986/4a, 603 00 Brno, Czech Republic
Comp. ID No (IČ)	86652079
II. PUBLIC CONTRACT	
Subject matter of delivery	Delivery, installation and verification of the correct installation of full-waveform laser scanner installed in the aircraft of the contract awarding authority of the type Cessna GrandCaravan 208B, including training of the scanner operators and its servicing.
Contract classification (CPV)	38296000-6 – Surveying tools
Type of public contract	For delivery
Type of tender	Open over-limit tendering
Estimated value	CZK 16,500,000 excl. VAT
Sources of financing	Operational Programme Research, Development and Education National Sustainability Programme
III. JUSTIFICATION OF USEFULNESS OF THE PUBLIC CONTRACT	
Contract awarding authority will describe the changes	Description of the needs which are to be fulfilled through the public contract:
<ul style="list-style-type: none"> a) In the list of needs which are to be fulfilled by the public contract fulfilment, b) In the description of the subject matter of the public contract, c) In the mutual relationship between the subject matter of the tender and needs of the contract awarding authority, d) Of the expected deadline of the public contract 	<p>Full-waveform aerial laser scanner will enable fulfilment of a number of scientific tasks necessary for successful solution of research projects (e.g. NPU I reg. No LO1415). The data obtained from the laser scanner will be used to create an exact 3D model of the surface and terrain and they will also enable obtaining information concerning the structural parameters of vegetation. The joint analysis of the data received from hyper-spectral sensors owned by the contract awarding authority</p>

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<p>fulfilment,</p> <p>In contrast with the facts specified in the preliminary notification.</p>	<p>and data from the laser scanner will enable significantly more exact assessment of the current condition of the examined ecosystem.</p> <p>Description of the subject matter of public contract:</p> <p>Delivery, installation and verification of the correct installation of a full-waveform aerial laser scanner installed in the aircraft of the contract awarding authority of Cessna GrandCaravan 208B type, including the training for the scanner operators and its servicing.</p> <p>Description of the mutual relation of the subject matter of the public contract and needs of the contract awarding authority:</p> <p>The contract awarding authority sometimes hires a similar item for the purpose of fulfilment of research tasks.</p> <p>In order not to be dependent on the limited hire options and pay a high rent for this scanner, the contract awarding authority decided to purchase its own full-waveform aerial laser scanner and operate it in its aircraft.</p> <p>Estimated public contract completion deadline:</p> <p>20/03/2017</p> <p>(Scanner delivery and installation – 20/12/2016</p> <p>Installation verification and training 3 months after the delivery)</p>
<p>Description of the risks connected with the public contract fulfilment that were taken into account by the contract awarding authority when determining the contract award conditions It includes mainly the risks of the failure to implement the public contract, delay of the public contract fulfilment, decreased quality of fulfilment, extra costs.</p>	<p>Most of the risks described are covered with standard contractual instruments (contractual penalties, withdrawal from the contract)</p>
<p>The contract awarding authority may specify alternatives of fulfilment of the needs and justification of the selective alternative of the public contract.</p>	<p>There are no realistic alternatives.</p>
<p>The contract awarding authority may specify to which extent the public contract will influence fulfilment of the planned goal.</p>	
<p>The contract awarding authority may specify other information justifying the usefulness of the public contract.</p>	

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IV. JUSTIFICATION OF REQUIREMENTS FOR TECHNICAL QUALIFICATION CONDITIONS FOR FULFILMENT OF A PUBLIC CONTRACT FOR SERVICES	
The contract awarding authority will justify the adequacy of requirements for technical qualification conditions in relation to the subject matter of the public contract and risks connected with fulfilment of the public contract.	
Justification of adequacy of the requirement for a list of significant deliveries. (It must be filled in by the contract awarding authority if the required financial value of all the significant deliveries is the total of minimum three times the estimated value of the public contract.)	The required value does not exceed the specified limit
Justification of adequacy of the requirement for submitting of a list of technicians or technical divisions. (It must be filled in by the contract awarding authority if it requires submitting of a list of more than 3 technicians or technical divisions.)	Not applicable
Justification of adequacy of the requirement for submitting of description of the technical equipment and measures applied by the supplier in order to ensure the quality and description of the equipment or facilities of the suppliers intended for research implementation.	Not applicable
Justification of adequacy of the requirement for the production capacity inspection to be performed by the contract awarding authority or another entity on its behalf, or inspection of the measures for ensuring of quality and research.	Not applicable
Justification of adequacy of the requirement for submitting of samples, descriptions or photographs of the goods intended for delivery.	Not applicable
Justification of adequacy of the requirement for submitting of a document proving compliance of the requested product issued by the competent body.	Not applicable
V. JUSTIFICATION OF DEFINITION OF THE BUSINESS TERMS OF THE PUBLIC CONTRACT	
Justification of the definition of the business condition determining invoice due dates to be longer than 30 days.	Not applicable
Justification of the definition of the business term determining a request for insurance of liability for damage caused by the supplier to third parties at the amount exceeding double the expected value of the public contract.	Not applicable
Justification of the definition of the business term determining a request for a banker's guarantee higher than 5 % of the public contract price.	Not applicable
Justification of the definition of the business term determining a request for a guarantee period longer	Not applicable

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than 24 months.	
Justification of the definition of the business term determining a contractual penalty for the delay of the supplier higher than 0.2 % of the expected value of the public contract for each day overdue.	Not applicable
Justification of the definition of the business term determining a contractual penalty for the delayed payment of invoices by the contract awarding authority higher than 0.05 % of the due sum for each day overdue.	Not applicable
Justification of the definition of other business terms. The contract awarding authority will justify the definition of the business terms of the public contract for supplies and public contract for services in relation to the needs and risks connected with the public contract fulfilment.	N/A
VI. JUSTIFICATION OF THE DETERMINED TECHNICAL CONDITIONS	
Technical condition	Technical condition justification
Requirements for the system operability	The requirements are determined in such a way to be able to use the acquired product for fulfilment of the contract awarding authority's scientific tasks at the adequate level.
Requirements for the obtained data	The requirements are determined in such a way to be able to use the acquired product for fulfilment of the contract awarding authority's scientific tasks at the adequate level.
Requirements for dimensions and weight	They are based on the restrictions given mainly by the internal aircraft space and loading capacity of the relevant parts of the aircraft.
Requirements for system dismantling and installation of all the sensors	They are based on the operating conditions of the aircraft laboratory where various configurations of the sensors of the contract awarding authority and other sensors of the contract awarding authority's partners are used for various surveying campaigns.
Requirements for GNSS/IMU and power supply for the system and accessories	They are based on the need of compatibility of the acquired system with the other parts of the aircraft laboratory.
Requirements for the software function	<p>The requirements are based partially on the need of compatibility of the acquired system with the other elements of the aircraft laboratory and the existing obtained data processing chain.</p> <p>The requirements are also based on the need to obtain data of corresponding quality enabling their further processing for fulfilment of the scientific tasks of the contract awarding authority.</p>
Other technical conditions defined in the contract award terms and conditions	These are requirements concerning compatibility of the acquired equipment with the parts of the aircraft

	laboratory already owned and operated.
VII. JUSTIFICATION OF THE DETERMINED BASIC AND PARTIAL ASSESSMENT CRITERIA	
Assessment criterion	Justification
Bid price	The bid price shows the economic advantageousness of the bid
Ensuring servicing in the duty-free zone	Ensuring servicing in the duty-free zone is significantly more advantageous for the contract awarding authority as it prevents further costs of customs duty and delays during customs checks.
Integration of the existing SW POSPack	Integration of the current SW POSPack will give the contract awarding authority a significantly more compact solution of the data processing chain from the whole aircraft laboratory. Inclusion of the requirement for integration of the existing SW POSPack among the technical conditions would probably result in undesirable narrowing of the market. Therefore the contract awarding authority decided to include the integration offer in the assessment.
Quality guarantee duration	Longer quality guarantee is usually connected with higher quality fulfilment. The guarantee period is also connected with the servicing period.

prof. RNDr. Ing. Michal V. Marek, DrSc., dr. h. c.

Director

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