

Szczecin, 24th of May 2019

**ORDER VALUE ESTIMATION  
NO. SZ\_022-2019-1.1.1\_POIR**

The enquiry for quotation concerning the contract as part of the selection of a service for configuration of an aircraft for aerial survey solutions, integration and certification, as part of the project: "Research and development on the prototype technology of the multi-sensor aviation diagnostic station, enabling large-scale inventory and parametrization of vegetation" (project number: POIR.01.01.01-00-1071/17).

Project co-financed by the European Union from the European Regional Development Fund under the Intelligent Development Operational Program. Project implemented as part of the National Center for Research and Development competition - Priority axis: Support for conducting R&D works by enterprises, Measure 1.1: R&D projects of enterprises, Sub-measure 1.1.1: Industrial research and development works carried out by enterprises

**I. ORDERING PARTY**

**GISPRO Spółka z ograniczoną odpowiedzialnością**

ul. Teofila Firlika 19, 71-637 Szczecin

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REGON: 320253489,  
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fax. +48 91 423 41 83



**I. DESCRIPTION OF THE ORDER SUBJECT**

The subject of the order is the configuration of an aircraft for aerial survey solutions, integration and certification, the contracting party will provide a Vulcanair P68 Observer 2 equipped with three hatches intended for installation of photogrammetric mission equipment. In addition, the





supplier will provide all necessary equipment along with wiring. The required length of cables will be determined by the supplier during the contract.

The scope of work planned for implementation under this contract:

1. Dedicated adaptation of a standard aircraft for special tasks - multi-sensor photogrammetric missions:

Modification of the power supply to 50 Amps @ 28VDC

Installation of one mission GPS antenna

Space for mission equipment within the survey cabin configuration already EASA certified

Integration of one (1) stabilization mount and one (1) large format camera above the main hatch

Integration of one (1) Riegl VQ 780i Laser scanner in the rear hatch including IMU

Integration of one (1) stabilization mount and one (1) medium format camera in hatch 3

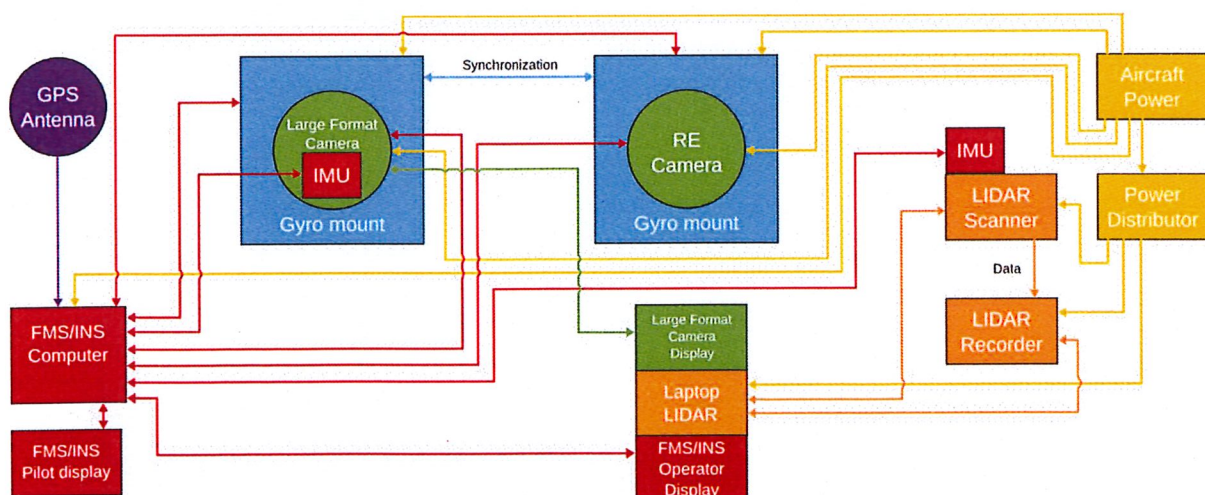
Includes all mechanical parts for the installation of the survey equipment (wiring for the survey equipment will be provided by the client)

Installation of the survey equipment

EASA certification

1. Aircraft Flight Manual Supplements - describing all special procedures related to the use of the mission equipment
2. Aircraft Maintenance Manual Supplements - describing all special procedures related to the use of the mission equipment
3. Detailed wiring diagram - necessary electrical installation documentation for operational and maintenance purposes
4. EASA release to service (Form 53 of a Part 145)

System block diagram



In addition, the order will include:

5. System design of the configuration as described
6. Detailed construction of all necessary components and assemblies
7. Integration of the mission equipment as described
8. Preparation and performance of ground tests
9. Preparation of drawings, compliance showing documents, manuals
10. Performing of system proper function tests in flight

The scope of work assumes carrying out all the following works within the framework specified by the ordering party in the application for co-financing of the above project, i.e.:

Phase 2 of the project (implementation period 2019.06.01 – 2019.09.30):

B16 - Final development of design assumptions for the aviation diagnostic station for the needs of large-area inventory and parameterization of vegetation operating in the technology of multisensory spectral-spatial measurements.

Phase 3 of the project (implementation period 2019.10.01 – 2020.03.30):

C1 - Adaptation of the aerial platform structure of the aircraft to the design assumptions developed in B16 along with the implementation of the necessary certification activities in accordance with Polish Civil Aviation Authority requirements.

The above must remain consistent with the Polish Civil Aviation Authority requirements allowing the aircraft to be used in the Republic of Poland.

## I. DESCRIPTION OF THE EXECUTED PROJECT:

The main purpose of the project is to develop a prototype multi-sensory technology of the aviation diagnostic station, enabling large-scale inventory and parametrization of vegetation. The purpose of the works on individual stages of the project is the synchronization of spectral-spatial sensors, development of photogrammetric keys for the inventory and parametrization of vegetation, adaptation of the aviation diagnostic station to the developed design assumptions and performance of prototype validation based on inventory work in real conditions.

## II. PLACE AND TIME FOR SUBMITTING AND OPENING THE QUOTATIONS

1. The quotation should be submitted:
  - a. by mail or courier to the address of the Ordering Party provided in point I of the order value estimation or



- b. submitted personally to the address of the Ordering Party provided in point I of the order value estimation or
    - c. in electronic form as a scan to the e-mail address [badania@gispro.pl](mailto:badania@gispro.pl).
  2. **The deadline for quotations submission is 31.05.2019** (the date of receipt by the Ordering Party is considered). Quotations submitted after the deadline will not be considered.
  3. The price form for estimating the value of the order is attached as Annex 1.
  4. The Bidder should attach the full technical specification of the product, i.e. modification of the aircraft for aerial survey solution, integration and certification, to the offer.
  5. Planned duration of the contract: June 2019 - March 2020.

### III. CONTACT PERSON FOR ESTIMATED ORDER VALUE:

**Marta Sieczkiewicz**

Director of Aerial Photogrammetry Department

telephone: +48 531 349 600

e-mail: [badania@gispro.pl](mailto:badania@gispro.pl)

Website of the Ordering Party: [www.gispro.pl](http://www.gispro.pl)

### IV. ANNEXES:

Annex no. 1: Price form for estimating the value of the order

PROKURENT SAMOISTNY

24.05.2019

  
Marta Sieczkiewicz

.....  
Date and signature of the Ordering Party

**ANNEX NO. 1: ORDER VALUE ESTIMATION FORM**

**SZ\_0022-2019-1.1.1\_POIR**

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Place, date

Name and address of the bidder and registration data, including Tax ID number:

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**PRICE FORM – FOR ORDER VALUE ESTIMATION**

A request for a valuation regarding the estimation of the value of the contract as part of the selection of a configuration modification of an aircraft for aerial survey solutions, integration and certification, as part of the project: "Research and development works on the prototype technology of a multi-sensor aviation diagnostic station, enabling large-area inventory and parametrization of vegetation" (no. project: POIR.01.01.01-00-1071/17).

Project co-financed through the European Union with the European Regional Development Fund by the Intelligent Development Operational Program. The project implemented as part of the competition National Center for Research and Development in Poland: „Szybka Ścieżka” (priority axis: Support for conducting R&D works by enterprises, Measure 1.1: R&D projects of enterprises, Sub-measure 1.1.1: Industrial research and development carried out by enterprises).

In response to the request for estimating the value of the order, below I submit the following estimate:

Name	Net price	VAT	Gross price
Tasks of Phase 2 of the project: <ul style="list-style-type: none"> <li>• B16 - Final development of design assumptions for the aviation diagnostic station for the needs of large-area inventory and parameterization of vegetation operating in the technology of multisensory spectral-spatial measurements.</li> </ul>			



Tasks of Stage 3 of the project:

• C1 - Adaptation of design EN the aircraft to the structural assumptions developed in B16 with making the necessary certification activities consistent with the requirements of the Civil Aviation Authority.

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**Estimated date of delivery** (counting from the date of order submission): ..... days

**Proposed payment schedule:**

1. *[number of days from submitting the order] – [net amount]*
2. *[number of days from submitting the order] – [net amount]*
3. *[number of days from submitting the order] – [net amount]*
4. *[number of days from submitting the order] – [net amount]*

This estimation does not constitute an offer in accordance with art. 66 of the Civil Code, as well as it is not an announcement within the meaning of the Public Procurement Law.

..... date.....

A legible signature of the authorized representative of the Bidder  
and company stamp (if the entity has a stamp)

Annex 1 - Full technical specification of the product (configuration modification of an aircraft for aerial survey solutions, integration and certification)



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