

TENDER BOOK

on awarding through tender of the supply contract

Greenhouse Gases Monitor - photoacoustic method; CPV code 38432100 –3

for the project “Research to support the development of capacity to monitor, assess and capitalize on natural resources provided by wetlands of international importance in Romania and the Black Sea coastal zone ”, contract no. 4PS/02.11.2017

1. References:

Project title: “Research to support the development of capacity to monitor, assess and capitalize on natural resources provided by wetlands of international importance in Romania and the Black Sea coastal zone”, financing contract for projects in the sectoral plan no. 4PS/02.11.2017.

Project objectives: developing a strategy paper on the research priority directions, objectives and projects for:

- i) sustainable development and valorization, including through tourism, of the natural resources provided by the wetlands of international importance in Romania;
- ii) confirmation of and assessing the opportunities for exploration and exploitation of combustible gases in the Black Sea coastal area.

To achieve the overall objective of the project, the partners involved in the project carry out the following activities:

A. 1 – Analyzing the current situation in the EU on the implementation of environmental policies aimed at protecting wetlands of national importance;

A. 2 – Developing a pilot model for the monitoring of wetlands of international importance in Romania;

A. 3 – Pilot model verification and demonstration;

A. 4 – Analysis and assessment of the potential presence of combustible gases in the Black Sea coastal area;

A. 5 – Developing a strategy paper on the protection and enhancement of the natural resources of the wetlands of international importance in Romania and the Black Sea coast;

A. 6 – National and regional debate, in the framework of scientific sessions, of the documents produced with the representative institutions in the field.

NRDI GeoEcoMar is involved, among others, in the activity A IV, namely “*Analysis and assessment of the potential presence of combustible gases in the Black Sea coastal area*”.

Within this activity, NRDI GeoEcoMar aims to study the spatial distribution of combustible gases, particularly methane, in the Romanian coastal area. The proposed working methodology consists of combining the study of the specialized literature containing data and information on the existence of combustible gases, visual observations and measurements of

methane and other gases from the homologous series. Gas measurements will be carried out both *in situ*, for the upper water layer (0-2 m), and in the NRDI GeoEcoMar laboratory, for the water column (at different depths within the water column, starting from the top layer down to water-sediment interface).

2. Subject matter of procurement:

The subject matter of this procurement is to deliver, test, put into operation, train staff and provide service during the warranty period of the following equipment:

Name of equipment	Pcs.
Greenhouse Gases Monitor - photoacoustic method	1

3. Justifying the acquisition:

The acquisition is necessary for:

1. Providing the implementation of the project's activities in order to assess the existence of combustible gases emissions in the Romanian coastal waters;
2. *In situ* measurements of combustible and greenhouse gases at the water-atmosphere interface and within the water column.

4. Funding source

State budget – Ministry of Research and Innovation, Sectoral Plan, contract no. 4PS/02.11.2017.

5. Awarding procedure:

Simplified procedure

6. Awarding criterion

The lowest price.

7. General requirements

The Tenderers shall develop bids in accordance with the provisions of the tender book and with the data sheet published on SEAP

The Tenderers shall bear all the costs associated with the preparation and submission of bids and accompanying documents; the contracting authority is not responsible or liable for these costs.

The offers shall contain: the technical proposal and the financial proposal.

Technical proposal

The technical proposal shall be designed to meet the specifications set out in the tender book and will include the following elements:

- a. The objectives of the contract
- b. The detailed description of the equipment, by which the tenderer will demonstrate the correspondence of the technical proposal with the technical specifications.

The technical proposal shall be drawn up in such a way that the assessment process and the information contained therein allow the easy identification of the correspondence with the technical specifications set out in the tender book.

The technical and functional characteristics of the equipment are mandatory and minimal. If all the required minimum requirements cannot be met, the tender will be declared incomplete (in accordance with Law 98/2016 and Government Decision 395/2016).

The tendered product must be new and of the highest quality, achieved in accordance with current national and international standards (mentioned in the offer). The name, type, code, producing company, and the origin of the tendered equipment will be explicitly mentioned. The Tenderers shall complete the PRODUCER DETAILS FORM according to the Annex 1 of the Tender Book.

Financial proposal

The financial proposal shall be made in EURO, in accordance with the tender form.

The Tenderers shall prepare the financial proposal so that it provides all the required information regarding the price and other financial and commercial conditions (that the tenderer considers to be mentioned) related to the object of the public procurement.

The Tenderers shall include in the financial proposal all the costs related to the production, transport, putting into service of the equipment and personnel training, as the case may be, as required by the Tender Book.

If the offer fails to meet the requirements set out in the Tender Book and the data sheet, the evaluation committee has the right to reject it.

8. TECHNICAL SPECIFICATIONS

The Greenhouse Gases Monitor – photoacoustic method will be used during the campaigns that will be carried out in the coastal area for assessing the combustible gasses and greenhouse gasses emissions at sea-atmosphere interface. The equipment must have the following minimum technical and performance characteristics:

No.	Name	No. of pieces	General characteristics	Technical characteristics
1	Greenhouse gases monitor – photoacoustic method CPV code: <u>38432100-3</u>	1	Portable gas monitor capable of simultaneous monitoring of up to five component gases and water vapor	- Mandatory gaseous components for simultaneous analysis and minimum detection limit expressed in parts per million (ppm): <ul style="list-style-type: none"> • Methane (CH₄) – 0.1 ppm • Carbon dioxide (CO₂)

			compensation.	<ul style="list-style-type: none"> - 5.0 ppm • Nitrous oxide (N₂O) - 0.05 ppm • Dimethyl sulfide (C₂H₆S - DMS) – 0.4 ppm - For maximum detection limits, the calibration graph will be established with the supplier; - Compensation for water vapor interferences; - Compensation for pressure and temperature fluctuations; - Standard communication interfaces: USB, RS232, Ethernet ; - Power supply: 220V.
	ACCESSORIES			
2	Software	1	PC data acquisition software	PC dedicated software for online data visualisation both numerical and graphical display, immediately after analysis.

9. Estimated value of the contract:

The estimated value of the contract is 35,000 Euro, excluding VAT.

10. Duration of the contract

The contract shall enter into force on the date of its signature by the parties and shall be for a period of 30 days.

11. Delivery conditions:

Delivery term: 30 days from the date of signing by the parties of the supply contract.

The delivery shall be made with the supplier's own means.

Delivery place: Romania, Constanta, Mamaia Blvd., 304.

12. Reception and Payment conditions:

The reception of the equipment shall be carried out at the Constanta branch of NRDI

GeoEcoMar (Mamaia Blvd. no. 304, Constanta, Romania) after the putting into service and testing the equipment. Upon completion of the contract, the equipment subject to the contract will be handed over on the basis of an acceptance report signed by the parties. On the basis of this document, the supplier will issue the invoice for the delivered equipment, and the payment will be made by the beneficiary within 30 days of receipt of the invoice by bank transfer to the account indicated by the Provider.

13. Warranties

The equipment warranty shall be at least 12 months and will start from the date of signing the acceptance report (by both parties), as a Warranty Certificate.

The service during the warranty period must be provided by the Provider through qualified personnel. The spare parts and labor during the warranty period must be free of charge. If the equipment will not operate properly or in case of malfunctions making impossible the use of equipment during the warranty period, the Provider must remedy the technical problems within 15 days from their discovery. All the expenses (transport, spare parts, technical assistance, etc.) associated with the remedy of malfunctions found during the warranty period will be borne by the Provider.

If the malfunctions can not be remedied within 15 days from their reporting, the Provider must replace the equipment with a new one within 30 days. The new equipment shall have the same characteristics, without additional costs for the Beneficiary. The new equipment shall be

The equipment that replaces the defective product during the warranty period shall benefit from a new warranty period running from the date of replacement of the defective product.

The above mentioned requirements will be included in its entirety on the Warranty Certificate issued by the Provider.

The above mentioned requirements will be confirmed by the bidder in the technical proposal.

14. Accompanying documents

a) which will accompany the offer submitted under this award procedure

- Producer Details Form (Annex 1) of the offered equipment;
- Technical data sheets/ catalogs/ brochures/ original specifications supporting the description and technical documentation of the declared features for the offered equipment;
- Copies of the documents certifying / demonstrating the conformity of the product offered, as required by the Tender Book.

b) which will accompany the goods provided under the contract

- Certificate of Origin and Declaration of Conformity (in Romanian or English) issued by the supplier, to which will be attached the conformity declarations issued by the manufacturer;
- Warranty Certificate delivered by the supplier (in Romanian or English);
- Certificate of Calibration (in Romanian or English);

- User Manual of the equipment (in English or Romanian) which shall provide a complete description of the operating, calibration and maintenance procedures.

Note: The technical specifications indicating a particular origin, source, production, special process, manufacturing or trade mark, patent, manufacturing license are only mentioned for an easier identification of the product type and do NOT the effect of favoring or eliminating certain economic operators or certain products that meet the requirements of this specification.

Legal Adviser

Florentina GHEORGHITĂ

Project responsible

Dan-Lucian VASILIU

PRODUCER DETAILS FORM

Name of product _____

<i>Required information</i>	<i>Answer</i>
1. Name of producer	
2. Address of the producer	
3. Webpage (if available)	
4. EU countries where the products is marketed	
5. Quality system	
- Applied standard	
- Activities covered by the standard	
- Certification body	
6. Declaration or authorization	
- Name of signatory	
- Position in the producing company	
- Contact data (tel./fax/email)	

*Note:**All the fields in the table must be explicitly filled in by the tenderers*