PART A: INFORMATION FOR TENDERER

Name and address of the Contracting Authority:	**DOO "MECOnet", Podgorica – Kralja Nikole br. 301, Podgorica**
Project name:	**ARtificial intelligence platform to prevent Climate change natural hazArds – ARCA**
Project number:	**IPA-ADRION00107**
Title of the tender:	**Supply of a Wildfire Detection System**
Reference number:	**IPA-ADRION00107 -ARCA / MCN/PP9**

INSTRUCTIONS TO TENDERERS

1. INFORMATION ON SUBMISSION OF THE TENDERS

Subject of the contract:

The subject of this tender is:

- **Implementation of supply** as indicated in the technical information in the part ''Supply required'' of this document.

Participation:

Participation in this tender procedure is open only to the invited tenderers.

Natural or legal persons are not entitled to participate in this tender procedure or be awarded a contract if they are any of the situations mentioned in Sections 2.4. (EU restrictive measures), 2.6.10.1. (exclusion criteria) or 2.6.10.1.1. (rejection from a procedure) of the Practical Guide[1]. Should they do so, their tender will be considered unsuitable or irregular respectively.

Deadline for submission of the tenders:

The deadline for submission of tenders is **1st of June, 2026. at 15:00 hours** (local time, Montenegro). Any tender received after this deadline will be automatically rejected.

Content of the tender:

The tender will be submitted in **1 original**.

The tenderers will submit their tenders in English using the:

- **Standard tender submission form and technical+financial offer available in the Part B of the tender dossier**

Address and meanings for submission of the tenders:

Tenders must be submitted by e-mail providing the following information:

- **The address for submitting tenders: MECOnet DOO, meconet.me@gmail.com**

- **Subject of e-mail:**
  - **Supply of a Wildfire Detection System, ref no. IPA-ADRION00107 -ARCA / MCN/PP9**

2. TECHNICAL and FINANCIAL INFORMATION

[1] Procurement and Grants for European Union external actions-A Practical Guide, https://ec.europa.eu/europeaid/prag/

The tenderers are required to provide supplies as indicated in chapter ''Required supply'' of this document.

The financial offer must be presented in EUR.

Payments under this contract will be made in the currency of the tender - EUR.

4. ADDITIONAL INFORMATION

Tenderers are bound by their tenders until they have been notified of non-award.

If tenderers have to request additional information during the procedure, they may submit questions in writing to the following address up to **May 29th, 2026 at 15:00 hours** (local time, Montenegro), specifying the reference number and the title of the tender:

Anka Ralević
DOO »MECOnet« Podgorica
E-mail: meconet.me@gmail.com

The Contracting Authority has no obligation to provide clarification after this date. Last date for the Contracting Authority to issue clarification is **May 30th, 2026.**

Tender evaluation session will be organised on **June 1st 2026**, at MECOnet office, Steva Boljevića L13, st. 6.

Selection criteria

The following selection criteria will be applied to the tenderers. In the case of tenders submitted by a consortium, these selection criteria will be applied to the consortium as a whole.

Technical capacity of tenderer.
The reference period which will be taken into account will be the last three years preceding the submission deadline.

- the tenderer has provided supplies under at least 1 (one) contract in fields related to this contract which was implemented at any moment during the following period: **26/5/2023 - 26/5/2026**

The award criteria: best price for offers providing requested technical specification

The unsuccessful/successful tenderers will be informed of the results of the evaluation procedure in writing. The estimated time of response to the tenderers is 7 days from the deadline for submission of tenders.

The tenderer may submit a tender for one lot, or all of the lots.

SUPPLY REQUIRED

1. PROJECT SUMMARY

The primary objective of the project **ARtificial intelligence platform to prevent Climate change natural hazArds** (**ARCA**) is to create a transnationally applicable platform through pilot initiatives in wooded areas, employing cutting-edge technologies to combat the risks posed by climate change-induced natural hazards. The project relies on advanced algorithms based on Machine Learning (ML) and diverse networks made of Internet of Things (IoT) sensors. These technological components work collaboratively to model specific forests and proactively mitigate the impact of natural hazards such as windstorms, drought, and wildfires. The **digital platform** comprises wireless sensor networks (WSNs), video cameras, drones, and LiDAR remote sensing, all contributing to a comprehensive forest modeling approach. A key action of the proposal is "to promote and encourage the development of transnationally designed innovations (technical and non-technical innovation, including services) through pilot and joint actions contributing to facing societal and environmental challenges like energy efficiency or climate change", through effective monitoring of forest sites located in the eligible areas.

By effectively monitoring eligible forest sites, the ARCA infrastructure aims to achieve, among others, the following goals: 1. Developing AI and machine learning algorithms for continuous monitoring of forest ecosystems and the formulation of climate adaptation scenarios. 2. Implementing a Decision Support System (DSS) for preventing natural hazards, enhancing resilience, and monitoring air quality.

In relation to these project goals, this particular procurement aims to realize the supply and installation of **one wildfire detections system**, which would directly serve to support the establishment of the described digital platform.

The **wildfire detection system** be a Pan-Tilt-Zoom (PTZ) camera-based is envisioned to be a cost-effective, deployable solution for research, pilot implementation, and demonstration purposes, with the capability to monitor large areas (up to approximately 1 km line-of-sight) in real time. The proposed system would rely on high-zoom PTZ cameras with 4G connectivity, enabling remote operation, live video transmission, and integration into custom software platforms. The system would be able to operate in off-grid conditions using solar power, making it suitable for remote and forested locations where traditional infrastructure is not available.

The primary purpose of the system would be to:

- Provide continuous visual monitoring of areas at risk of wildfire
- Enable early identification of smoke or fire indicators during daytime conditions
- Support remote surveillance and control through mobile or web-based interfaces
- Serve as a data source for further processing, including integration with GIS platforms, LiDAR-based analysis, or external AI-based fire detection algorithms

This specification of the system focus on interoperability and flexibility, ensuring compatibility with commercially available mid-range PTZ camera systems (e.g., solar-powered or 4G-enabled units) while maintaining the ability to integrate with custom-developed monitoring and alerting systems via standard protocols such as RTSP and ONVIF. This system is intended primarily as a visual monitoring and data acquisition tool.

2. REQUESTED SUPPLY

The tenderers are required to provide supplies as indicated below. In the tenderer's technical offer, the tenderers will indicate more details on supplies' specification, referring back to the table below.

Item no.	Specifications required	Quantity

1	**Wildfire Detection System**
	
	B.1 Camera Unit (Core Requirement)
	
	Type
	
	• PTZ IP camera (visible spectrum)
	• Optional: dual-spectrum (thermal + optical)
	
	Optical Camera
	
	• Resolution: ≥ 2 MP (preferred ≥ 4 MP)
	• Optical zoom: ≥ 25x (preferred ≥ 30x)
	• Daytime observation range: ≥ 1 km (visual smoke/fire detection)
	• Low-light capability: IR or starlight technology
	
	Thermal Camera (Optional)
	
	• Resolution: ≥ 256×192 (preferred ≥ 384×288)
	• Thermal sensitivity: ≤ 60 mK
	
	B.2 Camera PTZ Mechanics
	
	• Pan: 360° continuous rotation
	• Tilt: ≥ -15° to +90°
	• Presets: ≥ 128 positions
	• Auto patrol / scanning supported
	
	B.3 Power Supply (Solar / External)
	
	Option 1 (Integrated system)
	
	• Solar panels: ≥ 80–200W
	• Battery: ≥ 40–100 Ah lithium
	• Autonomy: ≥ 2–3 days
	
	Option 2 (External system)
	
	• External power (12V / PoE)
	• Separate solar system:
	  ○ Solar: ≥ 150–300W
	  ○ Battery: ≥ 80–150 Ah
	
	B.4 Mounting / Installation
	
	• Pole/tower height: ≥ 4–8 m (optional)
	• Outdoor protection: ≥ IP65 (preferred IP66)
	• Pole or wall mounting supported
	• Basic grounding
		1 pcs

	B.5 Communication
	
	• Built-in 4G LTE modem (EU bands)
	• SIM card support
	• External antenna (preferred)
	
	B.6 Data & Integration
	
	• RTSP video stream access
	• ONVIF support (Profile S or T)
	• Possibility to integrate other cameras via TCPIP
	• API or SDK access
	• PTZ control via ONVIF
	• Event stream (motion detection, optional)
	
	B.7 Edge / On-Site System
	
	• Embedded processing inside camera (optional)
	• Local storage:
	  ○ ≥ 64–256 GB (SD card or internal storage)
	• Event-based recording (optional)
	
	B.8 Monitoring / Receiving System
	
	• Web or mobile-based interface
	• Features:
	  ○ Live video streaming
	  ○ PTZ remote control
	  ○ Event playback
	  ○ Alerts (on events, motion, fire)
	
	B.10 AI / Detection (Optional)
	
	• Motion detection (required)
	• Human/vehicle detection (optional)
	• Smoke/fire detection:
	  ○ Optional (external software recommended)
	
	B.11 Installation
	
	• Installation on recommended spot (site)
	• Testing on receiving site	

3. LOCATION AND DURATION

Location for delivery of supply is: **DOO »MECOnet« Podgorica, Steva Boljevića bb, L13, st.6.**

The terms of delivery of the goods shall be *DDP - Delivered Duty Paid*— Incoterms 2010 International Chamber of Commerce

The intended start date is **2nd of June 2026.** and the period of implementation of the contract will be **30 days from the contract** signature by both parties.

4. REPORTING

n/a

FORMAT OF THE CONTRACT BETWEEN THE CONTRACTOR AND THE CONTRACTING AUTHORITY

PROJECT TITLE: ARtificial intelligence platform to prevent Climate change natural hazArds – ARCA

PROJECT No. IPA-ADRION00107

CONTRACT TITLE: Supply of a Wildfire Detection System, Podgorica - Montenegro

REF No: IPA-ADRION00107 -ARCA / MCN/PP9

Concluded between:

DOO "MECOnet"
Podgorica, Kralja Nikole br. 301

(Contracting Authority)

AND

Title
Address of the contractor
Reg.no.

(Contractor)

Article 1: Subject of the contract

The subject of the contract are the supply as indicated in the contractor's offer – ''Part B: Documents to be completed by the tenderer''.

Article 2: Contract value

This contract, established in Euro is a supply contract.

The maximum total contract value for implementation of supply indicated in the Article 1 is ___ EUR (VAT included) / ___ EUR (VAT excluded).

Article 3: Contracting documents

This documents which form the part of this contract are (by the order of precedence):

- Contract agreement
- Contractor's technical/financial offer as provided in the tendering phase - ''Part B: Documents to be completed by tenderer Technical/financial offer''

Article 4: General provisions

The Contractor must comply with publicity and visibility requirements of Interreg ADRION Programme. For more information Contractor is advised to visit official website of the Programme: https://www.adrioninterreg.eu/

Article 5: Deliveries and payments

The Contractor will deliver without reservation the supply indicated in the contractor's offer. The deliveries will be implemented within the indicated dates.
The terms of delivery of the goods shall be *DDP - Delivered Duty Paid*— Incoterms 2010 International Chamber of Commerce

The Contracting Authority will pay to the contractor the supply in the amount indicated in the Article 2 of this contract document. The payments will be issued based on delivered supply and invoice provided.

no		EUR
1	Final paymnet	Amount based on financial offer:
	Total	Amount based on financial offer:

Article 6: Duration of the contract

The duration of the contract is **30 days** from contract signature date.

Article 7: Cancellation of the contract

The contract can be suspended by the Contractor due to one of the following reasons:
- Contracting Authority not fulfilling payment and other obligations

The contract can be terminated by the Contracting Authority due to one of the following reasons:
- The Contractor is in serious breach of the contract, failing to meet contractual obligations
- The Contractor is bankrupted or being wound up, is having its affairs administrated by courts, has entered into arrangements with creditors, has suspended business activities, is the subject of proceedings concerning those matters, or is in any analogous situations arising from a similar situation provided for in national legislation or regulations

Article 8: Resolving of disputes

Any disputes arising out of or relating to this Contract which cannot be settled otherwise shall be referred to the exclusive jurisdiction of court in Montenegro in accordance with the legislation of the state of the Contracting Authority.

Article 9: Other specific conditions applying to the contract

Done in English in two originals, one original for the contracting authority and one original for the contractor.

For the Contractor	**For the Contracting Authority**
Name:	Name:
Title:	Title:
Signature:	Signature:
Date:	Date:

ADMINISTRATIVE - SELECTION COMPLIANCE GRID

Project acronym :	**ARCA**	**Project no:**	**IPA-ADRION00107**
Contract title :	**Supply of a Wildfire Detection System**	**REF No:**	**IPA-ADRION00107 -ARCA / MCN/PP9**

Tender envelope number	Tenderer's name	Within deadline? (Y/N)	Eligible nationality? (Y/N)	Tender submission form duly completed? (Y/N)	Language as required ? (Y/N)	Documentation complete? (Y/N)	Other administrative and selection requirements of the tender dossier? (Yes/No/Not applicable)	Overall decision? (Accept / Reject)
1								
2								
3								