

PART B: DOCUMENTS TO BE COMPLETED BY TENDERER – TECHNICAL+FINANCIAL OFFER

This document contains the following parts:

- Tender submission form
- Supplies to be provided

Part 1. TENDER SUBMISSION FORM

1 SUBMITTED by (i.e. the identity of the Tenderer)

	Name of entity submitting this tender	Nationality
Tenderer		

2 CONTACT PERSON (for this tender)

Name	
Address	
Telephone	
E-mail	

3 TENDERER'S STATEMENT

I the undersigned hereby confirm that the supplies offered in this tender are in full conformity with the specifications submitted to us by the contracting authority. The detailed description of the supplies offered by us is provided in the next part (Part 2.).

In addition to that I confirm that our company is fully eligible for providing supplies under a contract financed by the EU funds. I confirm that we are not in any of the situations that

would exclude us from competing in the EU financed tenders as indicated in the point 2.6.10. 1 in the PRAG Manual.

Furthermore, we agree to abide by the ethics clauses in Section 2.5.6 of the PRAG Manual and have no conflict of interests or any equivalent relation with other short-listed candidates or other parties in the tender procedure at the time of submitting this tender.

4 BANK ACCOUNT INFO

Please indicate the bank account into which payments should be made if the tender is successful

Account number	
Currency	
Bank name	
Address of bank (street, number, city, country)	

5 LEGAL ENTITY INFO

Official name	
Legal form	
Main registration number, place (city, country) and date of registration	
VAT number	
Address of head office (street, number, city, country)	

6 EXPERIENCE

Ref no 1	Project/Contract title			
Name of legal entity	Overall contract value (EUR)	Name of client	Origin of funding	Dates (start/end)
Description of project/contract			Type and scope of services provided	

Signed on behalf of the Tenderer

Name	
Signature/stamp	
Date	

Part 2. TECHNICAL SPECIFICATIONS + TECHNICAL OFFER + FINANCIAL OFFER
Instructions: the tenderer to provide date for one or both lots

LOT no. 1	Specifications required	Specifications offered, including brand and country of origin*	Unit price in EUR (VAT excluded)*	Total price in EUR (VAT excluded)*	Evaluation committee's notes
1	<p>IoT Forest Fire Monitoring Sensors (15 units)</p> <p>General Requirements</p> <ul style="list-style-type: none"> • The offered sensors must be new, unused, and suitable for long-term outdoor deployment in forest environments. • The sensors must be designed for tree-mounted installation and intended for continuous forest 				

	<p>monitoring and early fire-risk/fire-event detection.</p> <ul style="list-style-type: none"> • The sensors must represent an integral and non-substitutable component of the ARCA monitoring infrastructure, forming the core of the wireless sensor network (WSN). • The sensors must be suitable for high-frequency data acquisition and event-based alarm generation, in accordance with project requirements. • The sensors must support remote data transmission to centralized data processing infrastructure. <p><i>Minimum Technical Specifications</i></p> <p>1. Monitoring Functions – Pre-alarm Data</p> <p>The sensors must be capable of producing pre-alarm environmental and eco-physiological data, including but not limited to:</p> <ul style="list-style-type: none"> • Water transport inside the plant (sap flow measurement), 				
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	<ul style="list-style-type: none"> ● Stem or log moisture content measurement, ● Tree growth and stability parameters, ● Microclimatic parameters, such as air temperature and relative humidity. <p>These parameters must be acquired at high frequency and used to support early risk assessment and fire-risk indicators, as described in the Project Application.</p> <p>2. Monitoring Functions – Alarm Data The sensors must be capable of producing alarm data upon the occurrence of a risk event, including:</p> <ul style="list-style-type: none"> ● Gas concentration measurements, such as: <ul style="list-style-type: none"> ○ CO₂, ○ O₃, ○ particulate matter (PM2.5, PM10), ● Flame and/or smoke detection, 				
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	<ul style="list-style-type: none"> • Thermal or infrared measurements relevant for fire detection. <p>Alarm data must be generated event-based, enabling early warning and rapid response mechanisms.</p> <p>3. Wireless Sensor Network (WSN) Integration</p> <ul style="list-style-type: none"> • The sensors must be suitable for distributed deployment as part of a wireless sensor network (WSN). • The sensors must support wireless data transmission to a remote system. • The sensors must enable regular and reliable data transmission, forming the basis for system validation activities. • Data generated by the sensors must be suitable for integration with image data from cameras and data acquired by drones, as foreseen in project validation activities. 				
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	<p>4. Data Management and Processing</p> <ul style="list-style-type: none"> • IoT data generated by the sensors must be suitable for transmission to a centralized data infrastructure. • In accordance with the Project Application, sensor data must be compatible with: <ul style="list-style-type: none"> ○ data lake creation, and ○ advanced data analysis and AI model implementation, including processing at the Supercomputing Center of the CMCC Foundation. • Data formats must be suitable for AI-based post-processing workflows. <p>5. Operational Conditions</p> <ul style="list-style-type: none"> • Sensors must be designed for long-term outdoor operation in forest environments. • Enclosures must be weather-resistant and suitable for exposure to variable environmental conditions. 				
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	<ul style="list-style-type: none"> • Sensors must be suitable for autonomous operation, including battery-powered use. <p><i>Warranty and Service Requirements</i></p> <ul style="list-style-type: none"> • Minimum 12-month warranty covering manufacturing defects, with a clear procedure for repair or replacement. • Technical support availability within the country or region. <p><i>Training Requirements</i></p> <ul style="list-style-type: none"> • Basic user instruction, if required, covering: <ul style="list-style-type: none"> ○ sensor installation and mounting, ○ system operation, ○ basic troubleshooting. • Delivery of user documentation in English (or local language, if available). <p><i>Delivery Conditions</i></p> <ul style="list-style-type: none"> • Delivery shall be completed within 30 calendar days from contract signing. 				
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	<ul style="list-style-type: none"> All equipment must be delivered in original packaging, including all necessary accessories and documentation. <p>Additional Notes</p> <ul style="list-style-type: none"> The offer must include relevant technical datasheets for the proposed sensors. The tenderer shall provide a declaration or appropriate evidence of compliance with applicable CE requirements. The “or equivalent” principle applies. 				
TOTAL PRICE					

*To be provided by the offeror

Signed on behalf of the Tenderer

Name	
Signature/stamp	
Date	

