**TERMS OF REFERENCE**

 **Consultancy services for**

**supporting the digitalization activities of the ANF and DÎFFF through RAPID Project**

**IT Expert for ANF (Individual Consultant)**

1. Background

Romania has received a loan from the International Bank for Reconstruction and Development (IBRD) to support the implementation of the Rural Pollution Prevention and Reduction Project (RAPID Project).

The Romania Rural Pollution Prevention and Reduction Project is an initiative aimed at addressing environmental challenges in the rural areas of Romania. Focused on mitigating pollution and promoting sustainable practices, this project seeks to safeguard the country's rural landscapes, preserve natural resources, and enhance the overall well-being of local communities.

The Loan 9505-RO for the Project and it was ratified by Romania by the Law no. 332/2023 on November 7th 2023 and it became effective on December 13th, 2023. The project closing date is June 30th, 2028.

The objectives of the project are to strengthen the institutional capacity of selected public entities, monitor pollution in agriculture, and transfer knowledge on agricultural pollution reduction to participating farmers. The project consists of three components:

1. **Modernization of Public Institutions:** Enhance the institutional capacity of the Ministry of Environment, Waters, and Forests (MEWF) to monitor, evaluate, and report investments, including those related to environmental aspects of the National Recovery and Resilience Plan (NRRP). This involves increasing the national capacity for monitoring, prevention, and reduction of pollution from agricultural sources in rural areas, including the National Administration "Romanian Waters" (NARW), the National Phytosanitary Authority (ANF), and the Directorate for Land Consolidation and Land Fund (DÎFFF) within the Ministry of Agriculture and Rural Development (MADR).
2. **Knowledge Exchange and Awareness:** Facilitate knowledge exchange, awareness, and information/innovation transfer to participating farmers. This includes establishing model farms to promote best agricultural practices for pollution prevention and reduction. The project also involves creating national knowledge transfer networks and conducting information and awareness campaigns for the public regarding project activities, including other environmentally-focused interventions funded under NRRP.
3. **Project Management:** Ensure effective project management to oversee and coordinate the various components and activities outlined in the project.

The project aims to create a comprehensive framework for addressing agricultural pollution in Romania, involving institutional capacity building, knowledge dissemination, and active participation of farmers in adopting sustainable practices.

Both the funded Project activities and the Project Management activities are including consistent digitalization interventions for ANF, such as modernization of the surveillance and alert system, based on meteorological data, for pests and diseases, IT solutions for laboratories, an IT application for the PPP traceability, data modelling on various emissions from agriculture, etc.

The Ministry of Environment, Waters and Forests, as implementing institution, through the Project Management Unit for the "Prevention and Reduction of Pollution in Rural Areas Project" (PMU "RAPID") (named hereafter **The Client**), intends to contract an Individual Consultant (IC) for consolidating the ANF and DÎFFF capacity to implement the digitalization activities, as foreseen under the RAPID Project.

**Definitions of terms:**

The Project / RAPID – Rural Pollution Prevention and Reduction Project

MMAP – Ministerul Mediului, Apelor și Pădurilor / Ministry of Environment, Waters and Forests

DÎFFF - Directorate for Land Consolidation and Land Fund within the Ministry of Agriculture and Rural Development

MADR – Ministerul Agriculturii și Dezvoltării Rurale / Ministry of Agriculture and Rural Development

PMU – Project Management Unit – represents the unit established within the Ministry of Environment, Waters and Forests, that manages the implementation of the Rural Pollution Prevention and Reduction Project

ANF – Autoritatea Națională Fitosanitară / National Phyto-sanitary Authority

PPP – Plant Protection Products

The Contract – represents the contract to be signed with the awarded Individual Consultant

The Client – is the Ministry of Environment, Waters and Forests through the PMU RAPID

The IT Expert – the Individual Consultant that will be selected, based on the present Terms of Reference, to support the ANF and DÎFFF with the implementation of all the digitalization related activities under the RAPID Project.

1. Objectives of the assignment

Key objective of the consultancy services is to strengthen the ANF and DÎFFF capacity on the implementation of digitalization activities under the RAPID Project.

1. Scope of the Services

The IT Expert will closely coordinate his/her activity with the representatives of the ANF and DÎFFF, as well with or contracted consultants or representatives or other institutions, as instructed by the PMU or ANF/ DÎFFF, to implement, inter alia, the following digitalization activities:

1. Preparation of ToRs/Technical Specifications (or consolidation of ToRs/Technical Specifications as provided by ANF/ DÎFFF) on IT software development / data modeling / procurement of IT hardware and providing support during development of bidding documents and tendering process and negotiations (respond to requests for clarifications / questions from bidders, participation in pre-bid meetings, etc.);
2. Participation in evaluation / reception committees for IT software development / procurement of IT hardware / licenses;
3. Ensuring technical coordination of the ANF and DÎFFF IT activities / contracts financed through RAPID Project with the MADR / Government / National Meteorological Administration, Special Telecommunication Services IT departments, including ensuring monitoring and reporting to ANF, DÎFFF and PMU on progress and flagging risks and delays of relevant activities;
4. Supporting software implementation activities, such as providing guidance / training for the developed software for the end-users;
5. Oversee and take part in ensuring Project visibility on the ANF and MADR website;
6. Ensuring participation at various meeting, workshops, conferences or exchange of experience events, for promoting the PMU’s, ANF’s and DÎFFF’s activities on digitalization and further analyze various options for improving the IT architecture at ANF and DÎFFF level;
7. Preparation of regular and ad-hoc reports for ANF, DÎFFF and PMU on achieved progress and further needs on IT development, following the Project activities as included in the Procurement Plan, Aide-Memoires, contracts, etc, as requested by the PMU.
8. Supporting ANF and DÎFFF on other IT needs for the monitoring and reporting on emissions from agriculture, as necessary.
9. Consultant’s Profile

In order to be able to charge the Client for the activities performed under these terms of reference, the expert must either

1. Be a person authorized under the Law **no. 300/2004 regarding the authorization of individual persons and family associations to carry out independent activities**

**or**

1. **act under a limited liability company or another form of organization that enables him/her to issue invoices for the services provided.**

**In any of the cases, the Consultant should be aware that the services will be provided only by the selected Individual Consultant and n**o substitution of any individual who was initially selected, will be permitted**.**

**The required qualifications and experience:**

* At least the following qualifications: Bachelor degree/Master degree.
* At least 5 years’ experience in the development of large-scale/enterprise-level IT systems and hardware infrastructure for private and/or public institutions, including among others, demonstrated experience in:
	+ - Preparation of technical specifications on development / updating of IT systems and databases;
		- Business analysis, software development and testing of large-scale/enterprise-level IT software;
		- Experience in preparation of technical specifications for IT hardware / procurement of IT hardware.
* Will be considered an advantage, experience in:
	+ - IT security and enterprise architecture;
		- Administration and optimization of databases, as well as in the field of hardware and software architectures proven by the presentation of nationally/internationally recognized diplomas/certifications;
		- Developing software architecture;
		- Internet of Things (IoT) devices and networking;
		- Providing technical project/program management, including monitoring and reporting for the implementation of projects/programs is an advantage.
		- Programming languages such as JavaScript, HTML 5, Python, SQL and experience with middleware and integration tools;
		- Experience in the development of IT systems and/or hardware infrastructure for public institutions.
* Good command of spoken and written English is a must.

In case the Contract for this assignment will be awarded to a company that provides an individual consultant, only the qualification and experience of the individual consultant shall be evaluated, not the company’s experience. All the services/activities provided/delivered under this Assignment shall be delivered exclusively by the proposed individual consultant himself/herself.

1. Duration of the assignment

The services under this Contract shall be provided until 31st of March, 2028, or any subsequent date, as agreed in writing by the Parties through a contract amendment.

The total input under the assignment is estimated at 3,000 working-hours (considering an average of 17 working days per calendar month, at an average of 4h per day).

This total input will be finally agreed during contract negotiations, subject to Client needs for the services, Consultant’s availability and the date of the commencement of services.

This planned estimated input is indicative being only an estimation and there will be no need for modifications of the contract through amendments, in order to adapt the working schedule, unless a substantial increase/decrease of monthly inputs will be agreed between the parties during contract implementation. It is estimated that the exact number of working hours per month to fluctuate, in accordance with the workload at the level of ANF and DÎFFF.

The Work plan will be permanently adapted to the project implementation needs and will be agreed upon between the Consultant and the ANF, with the consultation of the PMU, in respect of the RAPID Project activities and its implementation calendar. Thus, throughout the implementation of the Contract, the Client (through the ANF and DÎFFF) and the Consultant will periodically establish the Work plan and the schedule of the following activities, through written or oral communications, including the estimated inputs for the future activities, as needed.

All the Consultant inputs will be detailed in the monthly time-sheets, which will include a short description of the activities carried out, and will specify the monthly total inputs effectively and actually performed.

The parties will keep track of the total inputs actually provided since the beginning of the contract, the total inputs provided during the reporting month and the remaining inputs out of the total inputs foreseen in the contract – data which will be reflected in the Consultant’s monthly report.

 Payments will be calculated and made based on the total number of working-hours actually performed and delivered within each month.

Consultant’s monthly average input will be of about 68 working-hours (calculated as 4 working-hours/day x 17 days/calendar month). Even if the input is foreseen as a part time, the input per working day can normally range between 0-8 hours/day depending on the working schedule agreed between the Consultant and ANF/ DÎFFF. Thus, the monthly work-schedule may include time periods with 4 hours/working-day and time periods with higher or lower than the 4 hours/working day time-input, and also weekends and/or national holidays, if so agreed between the parties and depending on Consultant's availability and Client’s workload dictated by the project activities.

The contract will include a probationary period of 3 months, after which it may be terminated through a simple notification issued by the Client, without further details.

The consultant is expected to commence performance of the services preferably within 5 working days after contract signing.

1. Reporting

Daily contract coordination will be ensured by ANF/ DÎFFF, in close cooperation with the PMU contract coordinator.

During this Assignment, the Individual Consultant shall deliver monthly progress reports, which shall include monthly time-sheets (and the deliverables of the Consultant. Both documents, monthly reports and time-sheets, will have to be endorsed by ANF/ DÎFFF Contract coordinator.

All the Progress Reports shall be transmitted to ANF/ DÎFFF and to the PMU in one copy each, in Romanian language, signed by the Individual Consultant, together with the electronic versions (electronic mail/memory stick).

All the Progress Reports shall be submitted to the authorized representative of the Client (as designated by ANF/ DÎFFF), for initial analysis, after which the reports shall be submitted for the analysis and acceptance of the Committee nominated by the Client.

The Individual Consultant shall consolidate the Progress Reports as requested by the Contract coordinators and/or afterwards by the Acceptance Committee, within maximum 2 working days as from receiving such requests, or within a longer period as agreed by the Consultant and the Client’s authorized representatives, if the circumstances require.

The Acceptance Committee shall decide upon the acceptance of the activities and deliverables provided by the Individual Consultant.

 Based on the acceptance document of the final version of the Progress Reports, issued by the Acceptance Committee, the Individual Consultant shall issue the invoice and the Client shall pay, according to the Contract provisions.

At each 6 months, in line with the PMU Progress reports for the World Bank, the Consultant shall prepare a half-year report which shall include the deliverables and an activity plan for the next 6 months. The half-year report is without payment, but is a pre-condition for the following payments under the contract.

1. Institutional arrangements, Data, Local Services, Personnel and Facilities to be provided by the Client

The IT Expert:

* Will work at the ANF and DÎFFF premises (as requested and needed) with office equipment as ensured by the ANF or DÎFFF. The Expert is allowed to work from his/her office only with the permission of the ANF, for no more than 50% of the total monthly working hours;
* Will work under the direct supervision and daily technical coordination of the ANF/ DÎFFF, and under supervision of the PMU Director and/or the PMU nominated experts;
* Will liaise with RAPID Project other contracted consultants and suppliers, as needed;

All documentation prepared by the Consultant during the course of the assignment will remain the absolute property of the Client. Not later than upon termination or expiration of the contract for the current assignment, the Consultant will deliver all such documentation to the Client.

The observance of the Fiscal Code provisions applicable in any of the legal forms under which the Individual Consultant will provide the services (either (a) limited liability company or another form of organization that enables him/her to issue invoices or (b) person authorized under the Law 300/2004), is the sole responsibility of the Consultant.

The Client will not pay or reimburse the Consultant for any other costs outside of the fees agreed for in the contract and the travel related expenses and, if approved by the Client in advance, other reimbursable type expenses incurred by the Consultant for the delivery of the services.

In case of travel outside Bucharest for meetings / workshops / conferences, any related costs incurred by the Consultant as for travel, accommodation, per-diem and as such, will be paid against supporting documents (for travel and accommodation) and at the level and in line with the thresholds approved for public administration for per-diem.

The Client shall provide to the Individual Consultant all the information necessary, concerning the purpose of this Assignment and that will be reasonably requested by the Individual Consultant in order to complete this Assignment.

The ANF, DÎFFF and the Client will provide access to all relevant information, documents and stakeholders’ contact points to facilitate the implementation of the activities under this assignment, including ANF and MADR servers / network resources, as needed.