Procurement reference No. UA/IC-10

Terms of Reference

Trainings on GIS technology use in forest management, nature protection and civil society purpose

A. Background

The Forest Law Enforcement and Governance (FLEG) II Program\(^1\) is carried out over a four-year period 2012-2016, focusing on improving forest governance in seven countries that are included in the European Union’s European Neighborhood and Partnership Instrument\(^2\) (ENPI) East region: Armenia, Azerbaijan, Belarus, Georgia, Moldova, Ukraine, and the Russian Federation. The Program builds on and further develops initiatives and activities undertaken during implementation of the first EU funded FLEG Program (2008-2012).

The Program is supported by the European Union contributing to a trust fund administered by the World Bank (WB). Implementation of the Program is led by the World Bank, working in partnership with the International Union for Conservation of Nature and Natural Resources (IUCN) and the World Wide Fund for Nature (WWF) and in close coordination with governmental and nongovernmental stakeholders of the participating countries.

The vision for the end of the Program in 2016 is that the participating countries have clear sector policies and implementation capacity to fight against illegal logging and associated trade, take into account the full social, environmental and economic value of forests, state-of-the-art forest sector laws, and modern forest sector institutions.

The three specific Program Development Objectives are to:

i. make progress implementing the 2005 St. Petersburg FLEG Ministerial Declaration in the participating countries and support the participating countries commit to a time-bound action plan to ensure its implementation and follow-up activities (regional level);

ii. review or revise (or establish a time-bound action plan to review or revise) forest sector policies and legal and administrative structures; improve knowledge of and support for sustainable forest

\(^{1}\) [http://enpi-fleg.org/](http://enpi-fleg.org/)

\(^{2}\) [http://www.enpi-info.eu/](http://www.enpi-info.eu/)
management and good forest governance (including the impact of related EU regulations) in the participating countries (national level); and,

iii. test and demonstrate best practices for sustainable forest management and the feasibility of improved forest governance practices at the field-level on a pilot basis in all participating countries (sub-national level).

The Program support the participating countries strengthen forest governance through improving implementation of relevant international processes, enhancing their forest policy, legislation and institutional arrangements, and developing, testing and evaluating sustainable forest management models at the local level on a pilot basis for future replication.

Present activity is part of the activities conducted by WWF DCP (hereinafter the Client) under the approved Country Work Plan (CWP) for Ukraine, plan which contains activities that will contribute to achieving Program Development Objectives and will support Ukraine in making progress in the implementation of the 2005 St. Petersburg FLEG Ministerial Declaration.

The proposed assignment is covering the 3rd year CWP activity #4.3 “Trainings on GIS use in forest management, nature protection and civil society development”, contributing to improvement of GIS technology use in forest management, nature protection and civil society sectors.

B. Objectives

A Consultant will be hired to lead trainings for different audiences based on the already existing materials on GIS software tools and to expand these training materials, to encompass the feedbacks received after the trainings.

C. Scope of Services

Training materials on GIS software use, were already developed in the framework of the projects "Protection and Sustainable Use of Natural Resources in the Ukraine Carpathians" and "Support Responsible Forest Management for a Sustainable Development in the Ukrainian Carpathians" (available at http://sfmu.org.ua/ua/forum/qgis). The training materials were developed using modules model on the QGIS as an open source software, and includes video lessons on:

- QGIS Practical advice: Introductory Video
- Loading QGIS
- Download of vector and raster layers in QGIS
- interface
- Basics of digital maps creation
• Setting attributes
• Classification of vector data
• Prototyping digital maps for printing

The Consultant will absorb the information from these training materials, and to prepare training plans to take part, as trainer, in different trainings to be organized by WWF, where the Consultant will be using the existing materials, as well as additional content related novel knowledge. The trainings will be organized as follows:

- 1 training for the national senior forestry managers (decision makers), on GIS technology use available for forestry with the emphasize on why it is good to use it in daily management practices;
- 2 trainings for forest and protected area specialists and for environmental NGO members, on GIS technology use available for forestry with the emphasize on how to use this tool;

After the trainings, the Consultant will gather all the feedbacks (via questionnaires) received during the trainings and will add necessary modules, to cover the trainees’ needs (as identified during the trainings).

Finally, the Consultant will deliver the followings (to be available on internet on the same platform at http://sfmu.org.ua/ua/forum/qgis), for wide use, free to use):

- a video library (in Ukrainian) to include completed training materials, including: how to read field coordinates of objects using GIS instruments and to reconstruct them on digital forest maps; how to match forest inventory information with the digital maps; how to download satellite images from open sources; how to detect forest cover changes using visual decryption of satellite images and comparative analysis of different time series of images;
- a manual with guidelines for basic skills training/qualification improvement of GIS professionals in the forestry and environmental fields based on the open sources software including: how to download and install the software from the Internet; an introduction to basic skills and capabilities of the software; how to create a forestry or conservation project based on the professional data and task requirements; how processing and analysis of data happens; how to prepare and print the most requested map information.

The Consultant will be responsible for organizing the trainings together with Country Project Coordinator and WWF Forest Expert.

D. Reporting and Approval Procedures

Reporting of the consultant is toward FLEG II Project Coordinator and Forest Expert Dmytro Karabchuk (dkarabchuk@wwf.panda.org) in Ukraine for coordination the execution of the assignment.
The Consultant expected deliverables are the participation in the 3 trainings and the complete training materials, which should be delivered within 20 days.

Duration of the trainings will be 5 days in total, with additional 10 days for preparation.

The timeframe for the execution of the assignment is estimated for a period of five months after signing the contract, with a time-input from the consultant of about 30 working days.

Acceptance and approval of the deliverables will be done by the Client through the FLEG II Project Coordinator and Forest Expert in Ukraine. The Country Project Coordinator will provide feedback to the consultant within 5 calendar days after receiving the deliverable (on expiration of this period, if no reply is received by the Consultant, then deliverables will be deemed as accepted otherwise the corrections are expected).

Communications work language is Ukrainian, as well as for the deliverables.

Project deliverables need to be sent by an e-mail address: dkarabchuk@wwf.panda.org and bprots@wwfdcp.org. Besides 1 copy of the printed reports and a CD copy needs to be sent to the address: WWF Danube Carpathian Programme Ukraine (Dunajsco-Karpatska Programa), 42 Mushaka Street, 79011 Lviv, Ukraine.

E. Institutional Arrangements

WWF Ukraine will be responsible for organizing the proposed trainings, in cooperation with the Consultant by creating the training agenda, developing sending the invitations, selecting appropriate trainees and forming professionally oriented groups.

WWF will provide to the selected Consultant support with the training materials available and FLEG communications procedures.

F. Client’s Input

The Consultant will perform the services using its own resources and equipment. However, the Consultant may request additional data and assistance from the Client on the issues related to the implementation of the assignment. The Consultant is expected to participate actively in any additional public, media, workshop, round table and other professional meetings within the objective of this assignment and coordinate the necessary expert’s involvement into the events.

G. Qualification Requirements

- At least 10 years required for consultant's experience in GIS software tools training on forestry and nature protected areas topics;
- Studies in remote sensing and GIS;
- Forest management or biodiversity conservation studies (university degree); PhD or international education or experience is an advantage;
- Good knowledge of the Ukrainian protected areas and forestry systems and related legislation on the use of GIS in their daily management operations.
- Records and experience on appropriate analytical studies for the use of GIS for sustainable forest management and protected areas are an advantage;
- Excellent communication skills;
- Good knowledge of Ukrainian and English.