

## **Annex I – Terms of Reference**

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**National or International consultant:**            **National**

**Description of the assignment (Title of consultancy):** Procurement for the services of a GIS Specialist for the Land Degradation Neutrality of Mountain landscapes in Lebanon (LDN) project

**Project Title:** Land Degradation Neutrality of mountain landscapes in Lebanon (LDN)

**Period of assignment/services:** 150 workdays spread over three years.

**Is this a LTA (yes/no):** Yes

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### **1. Background / Project Description**

The project seeks land degradation neutrality (LDN) in mountain lands by rehabilitating degraded land and preventing further degradation. It will do this initially at the pilot scale to gain the necessary skills and know-how as well as confidence, before it can be up-scaled and replicated post-project comprehensively. The pilot areas will be the mountain ranges in the Cazas of Jbeil and Akkar. The project duration is five years.

Rehabilitation practices will be tested for technical effectiveness, cost-effectiveness and benefits in the agriculture, mountain pastures and forestry sectors, the quarrying sector, and the eco-tourism and outdoor recreation sectors. Prevention will be achieved through comprehensive land use planning and the monitoring for compliance with set conditions and their enforcement.

There will be clarification of roles and enhancement of capacities particularly at local government level. The institutional and regulatory context will be reviewed, updated and strengthened so as to prevent new degradation of forests, rangelands and agricultural lands. The project will aim for a robust, comprehensive and appropriate legal framework which will assess biodiversity and key ecosystem goods and services to inform permitting decisions.

Ultimately, the key to achieving LDN is in making the most effective land use planning decisions and in implementing and upscaling these together with appropriate restoration measures – which is reflected in the three Outcomes of the project which are:

Outcome 1: Degraded mountain land in selected mountain districts of northern Lebanon identified, rehabilitated and restored

Outcome 2: Mountain lands managed sustainably to prevent degradation

Outcome 3: Project monitoring and evaluation, communication, knowledge management and financial mechanisms for the dissemination and replication of the results of the project with the aim of achieving land degradation neutrality

UNDP is seeking to procure the services of a GIS Specialist to work under the guidance and supervision of the Project Manager (PM) on a long-term agreement basis for specific deliverables. The GIS Specialist would provide support in the compilation and analysis of GIS data for the various needs of the project.

### **2. Scope of work, responsibilities and description of the proposed analytical work**

## **2.1 Compiling data and database set-up**

- Undertaking analysis of data and geographic information as needed to determine the indicators of the project;
- Provide data and technical support for the landscape scale survey of land degradation in the pilot areas and the identification of pilot sites to be rehabilitated;
- Provide data and technical support for forestry management and surveying based on satellite imagery and GIS data analysis to determine and update the project KPIs,
- Provide recommendations to the Project Team on GIS database(s) needs;
- Provide technical support for the establishment of a GIS platform for land use planning and related monitoring;
- Creation of information databases (in excel or other existing software) as per the requirements of the project;
- Cross check data collected in the field and developing dynamic links between Database(s) and GIS data and ensuring regular updates and recommend solutions to eventual potential discrepancies
- Review outputs related to GIS that are developed for the project by other consultants or consultancy firms and provide advisory support accordingly;
- Provide advisory support on GIS related matters particularly for quarries and other land management issues as requested by the Project.

## **2.2 Production of maps**

- Ensuring that the produced reports/maps meet the requirements of the Project;
- Identifying map information needs and accessing map information sources;
- Preparation, conception and production of maps, including the supervision and monitoring of mapping-related data collection undertaken by the experts/Consultants;

## **3. Expected Outputs and deliverables**

Periodic reports (including main completed tasks) & time sheets shall be submitted. Where applicable, the reports shall include:

- Analytical reports or reviews;
- Prepared maps or compiled spatial data sets;
- Activities undertaken during the reporting period.

## **4. Institutional arrangements**

The consultant will work under the direct guidance of the LDN Project Manager.

## **5. Duration of work**

- The contract will be valid on an LTA basis for three years from contract signature date, with a maximum of 150 man-days.

- The workload might be distributed unequally over time with more and less intense periods of work.

## **6. Duty station**

The assignment requires deskwork, research, meetings, as well as coordination between the different related entities. The consultant is requested to perform his duties mainly from home but may need to attend regular meetings at the Ministry of Environment in Beirut in Beirut.

## **7. Requirements for experience and qualifications**

The consultant must present the following qualifications:

### I. Academic Qualifications:

Bachelor's degree, preferably in, GIS in addition to a background in agriculture, forestry, land use planning or related field;

### II. Years of experience:

7 years of relevant work experience, preferably in environment, development or related fields;

### III. Technical experience:

- Experience in cartography, spatial analysis;
- Experience in setting and operating Collector for ArcGIS;
- Experience with UN or international donor project(s) is an asset;
- Experience in monitoring of forest and rangeland management;
- Experience in environmental, agriculture forest and rangeland or similar projects.

### IIV. Competencies:

- Language skills: Proficiency in English and Arabic languages. French is an asset;
- Good proven command of Database and GIS software (especially ArcGIS, QGIS, GPS, Remote Sensing, Databases and Spreadsheets).

## **8. Scope of Price Proposal and Schedule of Payments**

Payment will be made against each requested and completed task and upon submission of certificate of payment or invoice based on man-days, IC time sheets, submissions (tasks/deliverable, timesheet, and payment request) shall be approved by the Project Manager.