Vacancy Announcement No. VA/ICMP/2022/05/002

Proposed Job Title: National Consultant (Remote Sensing Expert)
Organization/Project: United Nations Office on Drugs and Crime (UNODC), Country Office for Afghanistan/Illicit Crop Monitoring Programme
Type of Contract: Individual Contract (IC)
Number of Post: One
Location: Kabul
Duration: 169 working days (15 June 2022 to 15 February 2023)
Closing date: 25 May 2022

BACKGROUND:
United Nations Office on Drugs and Crime's (UNODC) Global Illicit Crop Monitoring Programme is part of the Research and Trend Analysis Branch (RAB). It supports the international community and concerned governments in the monitoring of illicit narcotic crop cultivation in various regions of the world. GLOU34 contain alternative development activities in Afghanistan for which the survey officer will lead the research activities. This post is located in the UNODC Country Office Afghanistan. The incumbent will work under the direct supervision of the UNODC Senior survey officer for Illicit Crop Monitoring and Research. For further information on UNODC please visit www.unodc.org

SCOPE OF WORK AND DELIVERABLES:
Under the direct supervision of the Senior Survey Officer, the consultant will be responsible for creating land-cover maps using high resolution satellite imageries for monitoring and evaluation of Alternative Development (AD) initiatives by UNDP-AD projects implemented in treatment communities in Afghanistan.

Also, the consultant will update the agriculture mask of select provinces in Afghanistan using medium resolution satellite imagery during course of consultancy.

OBJECTIVE OF THE ASSIGNMENT:
Under the guidance and supervision of the Senior Survey officer and, in collaboration with national remote sensing team the consultant will contribute to the following:

- Applying GIS and remote sensing techniques for interpretation and visual digitalization of very-high-resolution satellite imagery; Quality check of all crops including poppy field visual interpretation products;
- Conduct multi-date imagery analysis for studying crop dynamics; manage and record image analysis files on daily base;
- Manage and organize the satellite images catalogue, and maintain the information extracted from satellite data;
Generate land-cover maps at community level for assessing the impact of AD projects of UNODC and UNDP; maps for related research products; verification of large-scale interventions of AD projects of UNDP projects with satellite imagery;

Provide mapping and other GIS support the project and related activities;

Preparation of landuse/landcover maps of Afghanistan using medium resolution satellite images;

Generating crop land-cover maps for the selected communities using high resolution satellite imagery;

Prepare and provide reports including tables, graphs and maps;

Coordination with the field staff for collection of ground-based data;

Manage and supervise record of the satellite images received and archive the data, and maintain the information extracted from satellite data;

Manage and record analysis file for image interpretation on daily base;

Analyzing satellite images using Tones/Color, Textures, Patterns, Shape, Shadow, Size and Association for Crop Calendar;

Developing signature for crop identification using ground truth data.

DELIVERABLES:

The consultant will be responsible for the quality and timely submission of his/her specific deliverables, as specified below. The consultant will collaborate and work directly with the Senior Program Officer and Remote Sensing team members throughout the entire consultancy process and is responsible for the following tasks:

- Interpretation of land-cover categories for 81 communities using satellite imagery for CBARD ALL project in Laghman province of Afghanistan;
- Interpretation of land-cover categories for 143 communities using satellite imagery for CBARD ALL project in Balkh province of Afghanistan;
- Interpretation of land-cover categories for 35 communities using satellite imagery for CBARD ALL project in Farah province of Afghanistan;
- Area estimation for land-cover categories and for Verification of interventions using satellite imagery;
- Updating the agriculture mask using sentinel imager for opium sample provinces;
- Analysis of the result and brief activity report.

PAYMENT MODALITY:

The Consultant will be paid upon satisfactory delivery of services/outputs as soon as possible after the submission and approval of each deliverable. The Consultant will receive a daily fee for each working day, as specified in the contract and in accord with United Nations rules regarding consultants contracting.

Deliverables and payments are expected as follows:
<table>
<thead>
<tr>
<th>No.</th>
<th>Main Deliverables/Tasks:</th>
<th>Est. No Working Days*</th>
<th>Start Date</th>
<th>Est. Delivery Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Interpretation of land-cover categories for 81 communities using satellite imagery for CBARD ALL project in Laghman.</td>
<td>31</td>
<td>15-Jun-22</td>
<td>31-Jul-22</td>
</tr>
<tr>
<td>2</td>
<td>Interpretation of land-cover categories for 143 communities using satellite imagery for CBARD ALL project in Balkh.</td>
<td>42</td>
<td>1-Aug-22</td>
<td>30-Sep-22</td>
</tr>
<tr>
<td>3</td>
<td>Interpretation of land-cover categories for 35 communities using satellite imagery for CBARD ALL project in Farah.</td>
<td>43</td>
<td>1-Oct-22</td>
<td>30-Nov-22</td>
</tr>
<tr>
<td>4</td>
<td>Area estimation for land-cover categories and for Verification of interventions using satellite imagery.</td>
<td>20</td>
<td>1-Dec-22</td>
<td>31-Dec-22</td>
</tr>
<tr>
<td>5</td>
<td>Updating the agriculture mask using sentinel imager for opium sample provinces.</td>
<td>17</td>
<td>1-Jan-23</td>
<td>24-Jan-23</td>
</tr>
<tr>
<td>6</td>
<td>Analysis of the result and report</td>
<td>16</td>
<td>25-Jan-23</td>
<td>15-Feb-23</td>
</tr>
</tbody>
</table>

**TOTAL** 169

**INSTITUTIONAL ARRANGEMENTS:**

UNODC Survey Section/Senior Survey Officer will serve as the focal point for providing both substantive and logistical support to the consultant. In close cooperation and consultation with UNODC national and international staff working on the project, the consultant will contribute to the remote sensing monitoring activities in AfghanistanF98 projects, as described in these ToR. The proposed assignment is office-based assignment.

**PRICE PROPOSAL AND SCHEDULE OF PAYMENTS:**

The contractor shall submit a price proposal as below:
Daily Fee – The contractor shall propose a daily fee which should be inclusive of his/her professional fee, local communication cost. The number of working days for which the daily fee shall be payable under the contract is 169 working days.

COMPETENCIES:

- Ability to interpret various (true and false color) satellite imageries, and ability of remote area estimation by drawing and using of remote measuring tools in ARC-GIS;
- Ability to deliver when working under pressure and within changing circumstances;
- Consistently approaches work with energy and a positive, constructive attitude;
- Excellent interpersonal skills;
- Computer skills: ArcGIS package, MS Package (Word, Excel and Power Point);
- Possess excellent analytical, drafting and communication/writing skills in English;
- Proven capacity to produce high-quality remote sensing analysis and report.

QUALIFICATION AND EXPERIENCE:

Education:

- Advanced university degree (Master’s degree or equivalent) or bachelor’s degree in agriculture, social sciences, political science, public health, or any other related field is required. A first level university degree in similar fields in combination with two additional years of qualifying experience may be accepted in lieu of the advanced university degree.

Experience:

- A minimum of ten (10) years professional technical experience in remote sensing and working in satellite imagery using GIS or other similar software is required;
- Experience in using GIS data management and analysis applications is required;
- Professional technical experience in the field of remote sensing and data analysis for the United Nations is desirable;
- Experience in working in a team is required;
- Knowledge and experience of the UN System and in particular of UNODC is desirable;
- Experience in presenting and communicating complex evaluation or research results in a structured manner (in reports, briefs, presentations, etc.) is desirable.

Languages:

- Excellent command of spoken and written in English.
- Excellent command of spoken and written of national languages.

EVALUATION METHOD AND CRITERIA:

Individual Consultant will be evaluated based on the following methodology:

The award of the contract shall be made to the individual consultant whose offer has been evaluated and determined as:
Responsive/compliant/acceptable and having received the highest score out of a pre-determined set of weighted technical and financial criteria specific to the solicitation.

* Technical Criteria weight 70%
* Financial Criteria weight 30%

Only candidates obtaining a minimum of 49 points (70% of the total technical points) would be considered for the Financial Evaluation.

**Technical Proposal (70marks)**

- Technical Approach & Methodology (25 marks) – This explains the understanding of the objectives of the assignment, approach to the services, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. The Applicant should also explain the methodologies proposed to adopt and highlight the compatibility of those methodologies with the proposed approach.

- Work Plan (20 marks) – The Applicant should propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and delivery dates. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan.

**Qualification and Experience [evaluation of CVs for shortlisting]**

- General Qualification (10 marks);
- Experience relevant to the assignment (15 marks).

**Documents to be included when submitting proposals:**

**Interested individual consultants must submit the following documents/information to demonstrate their qualifications in one single PDF document:**

- Duly accomplished Confirmation of Interest and Submission of Financial Proposal Template using the template provided by UNDP (Annex II); as well as the contact details (email and telephone number) of the Candidate and at least three (3) professional references;
- Personal CV, indicating all experience from similar projects.

**Technical proposal:**

- Brief description of why the individual considers him/herself as the most suitable candidate for the assignment;
- A methodology, on how they will approach and complete the assignment and work plan as indicated above.

**Submission of application:**

The application comprises a one-page cover letter explaining your interest and suitability for the post, and a UN Personal History Form (P11), which can be downloaded from http://www.unodc.org/afghanistan/en/vacancies.html

Interested and qualified Afghans national candidates should email their applications (indicating on the subject line the vacancy number and the title of the position applied for) to unodc-afghanistanvacancies@un.org
Financial Proposal: interested candidates are requested to download the financial proposal from following website [http://www.af.undp.org/content/afghanistan/en/home/jobs.html](http://www.af.undp.org/content/afghanistan/en/home/jobs.html) that indicates all-inclusive fixed total contract price, supported by a breakdown of costs, as per template provided and send it along with cover letter and P.11 form.

Please note that incomplete applications & applications received after the closing date (25-May-2022) will not be given consideration.

Qualified female candidates are strongly encouraged to apply.