|  |  |
| --- | --- |
|  | **PROCUREMENT CONTRACT** |
|  | **Service – Supplies** |
|  | **Number: 25-MR0722** |
|  | |
|  | **Object of the contract:**  *Study on the Potential of Agrivoltaic Systems in Uzbekistan for Agriculture and Livestock* |
|  | |
|  | **MAXIMUM AMOUNT OF THE CONTRACT:**  *-* |
| |  | | --- | | **Award date:** |   This contract is subject to the French Public Procurement Code in its latest version in force as enacted by [Order No. 2018-1074 issued on 26 November 2018](http://www.marche-public.fr/ccp/ccp-plan-legislative.htm) and its Implementation [Decree No. 2018-1075 issued on 3 December 2018](http://www.marche-public.fr/ccp/ccp-plan-reglementaire.htm) constituting the regulatory aspects of the Public Procurement Code (“CCP”).  It is awarded by means of : adapted procedure in application of Articles L. 2123-1 and R. 2123-1 to R. 2123-7 of CCP. | |

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**special conditions – commitment procedure**

**Between:**

|  |
| --- |
| **EXPERTISE FRANCE SAS**  40, boulevard de Port Royal - 75005 PARIS, France  A simplified joint-stock company with share capital of €828,933 registered under the following numbers:   * SIRET no.: 808 734 792 00035 * Intra-community VAT number: FR36 808734792   Represented by Mr Jérémie PELLET, Managing Director,  **of the first part,** |

**and:**

|  |
| --- |
| **co-contracting party’s name**  (Hereafter the “Contractor”)   * Registered office address: * Registration number at the trade and companies registry: * Intra-community VAT no. (as applicable):   Represented by:  **of the second part,** |

(Hereafter referred to collectively as the “Parties“)

**Whereas:**

In the context of the technical assistance project, hereafter the “Main Contract” (CUZ1064 01 T) signed on *1st August 2023* Expertise France and AFD, covering “*Uzbekistan Energy Sector technical assistance program (23DDU0C027)* “, Expertise France asks the Contractor, which accepts the same, to perform the services and deliver the services under the Contract as set out in the attached technical annex entitled “Specifications”.

**In the light of the foregoing, the following is agreed:**

1. **Object of the contract**

The object of this contract (hereafter the “Contract) is to carry out a “*Study on the Potential of Agrivoltaic Systems in Uzbekistan for Agriculture and Livestock* “.

1. **Contractual documents**

The Contract is composed of the contractual documents set out below in decreasing order of priority:

1. This document and its annexes:

* Annex 1 attached: Specifications;
* The Code of Conduct of Expertise France (available at <https://www.expertisefrance.fr/documents/20182/426622/Expertise+France+%E2%80%93+Code+of+conduct/82cf6060-4768-4b25-8817-ccba1d86e568>);

1. CCAG - General administrative clauses applicable to public procurement for [day-to-day supplies and services approved under the Order of 30/03/2021] [intellectual services approved under the Order of 30/03/2021] [information and communication techniques approved under the Order of 30/03/2021], subject to the exceptions set out in the Contract.
2. The Contractor’s bid dated XX/XX/XXXX

These documents constitute the entirety of the agreement between the Parties with regard to the Contract. They supersede all verbal and written communications, procedures, agreements, commitments, guarantees and settlements referring to its object and facts that may have been made by or on behalf of a Party to the other Party before the notification date. These documents are acknowledged by the Parties to represent the sole and complete expression of the terms of their agreement.

Without prejudice to the general rules applicable to administrative contracts, any modification to the Contract or the waiver of any right resulting from the Contract must be covered by an amendment signed by a duly authorised representative of each Party.

1. **General characteristics of the Contract**

## Form of the Contract

The Contract is a public contract for services at fixed and total price.

## Term of the Contract

The term of the Contract is 8 months from date of signature by both parties.

The Contract shall expire after all services have been delivered by the Contractor and all rights and obligations of the Parties resulting from the Contract have been extinguished. If all or some of the services remain outstanding by the specified period, the Contractor must immediately take all necessary steps to complete delivery without being able to claim any remuneration in this regard.

1. **Financial provisions**

## Amount of the Contract

The amount of the Contract is: XXXXX € exc. VAT.

The amount of the Contract corresponds to the prices stated in the unit pricing schedule below, as applied to the quantities actually delivered.

The unit prices below include all costs and expenses (including taxes of all kinds) which apply to the Contractor under the Contract.

|  |  |  |  |
| --- | --- | --- | --- |
| Price heading | Unit | Unit price in € exc. VAT | Applicable VAT (rate: ……%) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Form of prices**

Prices are firm and non-modifiable.

## Advance

A advance of 30% of the total amount of the contract is granted to the Contractor at the validation of the first deliverable (“Inception Report”) by Expertise France.

## Payment terms and late payment interest

Payment is always made out in the name of the issuer of the invoice or of the expense reimbursement request.

Overall payment terms for monies due under the Contract are thirty (30) days maximum from the date of receipt of the complete invoice, including all supporting documentation, or the date of service/supply acceptance if this date is later. Any missing document will prevent payment.

If these payment terms are not respected, Expertise France will pay late payment interest to the Contractor pursuant to Article R. 2192-10 et seq. of the CCP on the fight against late payment in public procurement contracts. The rate applied shall be the interest rate of the European Central Bank for its main and most recent refinancing operations, as applicable on the first day of the semester of the calendar year during which late payment interest started to accrue, plus eight percentage points.

The amount of the fixed indemnity to cover collection costs is set at forty (40) euros and will be systematically paid in addition to late payment interest. Interest below €40 shall not be mandated.

## Presentation of payment demands

In addition to the legal notices (intracommunity VAT no.), invoices relating to the Contract must contain the following information:

* Company name, address and registered office of the Contractor;
* Registration number of the Contractor (SIRET or equivalent);
* Bank account details;
* The code of the department acting as specifying department (stated in the article entitled Contact person and communication);



* Reference number of the Contract;
* The reference and title of the cooperation project concerned (if applicable);
* Clear and accurate description of the equipment/supplies sold and/or services performed;
* If the Contractor’s bank details are not stated on invoices, it must provide a statement or certificate of bank or post office account details, with the third-party form duly completed in all cases.

Invoices are to be forwarded via the Chorus Pro system, and must state the department code provided above corresponding to the department of Expertise France on behalf of which the Contract has been placed.

If the Contractor is not obliged to forward invoices via Chorus, it may submit its invoices to the contact person stated in the article entitled Contact person and communication.

Invoices for advances must be accompanied by the corresponding supporting documentation validated by Expertise France.

Invoices for balances (partial definitive payments) must be accompanied by a copy of the acceptance decision for the corresponding services and/or supplies.

Any missing document will prevent payment.

## Bank transfer

Payment for invoiced services/supplies will be made to the bank account identified in the third-party sheet.

Payment is always made out in the name of the issuer of the invoice or of the expense reimbursement request.

## Value added tax (VAT)

The Contractor must state the VAT rate applicable to the transaction or, as applicable, its VAT exemption by stating on the invoice the relevant provisions of the French General Tax Code or those of Directive 2006/112/EC of 28 November 2006.

Any Contractor benefitting from exemption must state “VAT exempt” in accordance with the rules that apply to it.

## Taxes and duties

The Contractor shall be directly responsible for all taxes and duties that may be levied against it under the Contract, both in the country of its registered office and in those of project implementation.

1. **inspection and acceptance activities**

## Inspection activities

Inspection activities will be carried out for services and supplies as set out in Chapter 5 of the CCAG-FCS. By way of derogation from Article 23 of the CCAG-FCS, inspection activities will be carried out by:

* the project Manager, Hakim BEJAOUI
* the project Team Leader, Murod Saidakhmedov

## Acceptance of services and supplies

By way of derogation from Article 25 of the CCAG-FCS, acceptance activities will be carried out by:

* The project Manager, Hakim BEJAOUI
* The project Team Leader, Murod Saidakhmedov

Any lack of response from Expertise France shall not equate to tacit acceptance of services or supplies.

1. **Specific terms of execution**

## Deliverables table

|  |  |  |
| --- | --- | --- |
| Item | Deliverables | Submission deadline |
| 1 | Inception Report | On the 1st month after signature of the contract |
| 2 | Completion of Literature Review and Data Collection | On the 3rd month after signature of the contract |
| 3 | Interim Report on Technical and Economic Analysis | On the 4th month after signature of the contract |
| 4 | Interim Report on Environmental and Social Impact Assessments | On the 5th month after signature of the contract |
| 5 | Draft Final Report | On the 7th month after signature of the contract |
| 6 | Final Report and Presentation to Stakeholders | On the 8th month after signature of the contract |

## In addition, the contractor will provide monthly progress updates and hold monthly or bi-monthly meetings (or upon necessity) with Expertise France.

## Expert in charge of the assignment

The assignment must be performed by one or more designated experts whose CV must be appended to the Contract.

The Contractor may therefore not replace any designated expert for the delivery of the services attributed to said expert, unless with prior written approval from Expertise France.

## Place of execution

The services will be performed remotely with mission in Uzbekistan.

## Language of the Contract

This document is written in English, which shall be the reference language for any dispute that may arise regarding the meaning or interpretation of the Contract, to the exclusion of any other language.

## Commitments of the Contractor

The Contractor is subject to a performance obligation and therefore undertakes to:

* comply with the Specifications;
* immediately notify Expertise France in writing of any communication or instruction relating to the services/supplies that it may receive from the Client (beneficiary country or public entity) or from a third party, and not to comply with any such communication or instruction until having discussed the matter with Expertise France and after receiving the latter’s written authorisation;
* notify any difficulty it may encounter with the performance of its obligations under the Contract;
* comply with all applicable laws and regulations of the country of delivery of the services/supplies and adopt an attitude and act vis-à-vis third parties in the interests of Expertise France, such that Expertise France cannot be reproached in this regard by the Client, or by any person the latter may have designated;
* protect the interests of Expertise France vis-à-vis the Client;
* act as a loyal advisor vis-à-vis Expertise France;
* present itself vis-à-vis the Client, partners and local authorities as a Contractor engaged by Expertise France;
* apply the undertakings of Expertise France as expressed in its Code of Ethics, provided in Annex 5 of the Contract.

In the context of Contract execution, the Contractor undertakes to:

* perform the services/supplies in a diligent, effective and economic manner, in accordance with generally accepted techniques and practices;
* employ appropriate modern techniques and safe and affective processes.

## Confidentiality

The Contractor shall treat as private and maintain the confidentiality of all documents and information received or which it becomes aware of in the context of the Project. It shall maintain the secrecy thereof and not use them for any purpose other than execution of the Contract.

In this regard, the Contractor undertakes:

* To protect and maintain the confidentiality of information considered or presented as such;
* To handle confidential information it receives with the same degree of care and protection as it applies to its own confidential information;
* only to reveal confidential information to its personnel and third parties involved in performance of the Contract after having received prior written and express approval from Expertise France;
* to take all necessary steps such that its personnel and third parties involved in execution of the Contract, who become aware of confidential information, undertake to treat such information with the same level of confidentiality as set out in this clause;
* As and when required, to reiterate the confidential nature of such information to its personnel and third parties involved in the execution of the Contract, as soon as said confidential information is communicated to the aforementioned persons;
* to reiterate the confidential nature of confidential information prior to any meeting during which confidential information is communicated.

Apart from where necessary for the purposes of service delivery, the Contractor may not disclose any element of the Contract without prior written consent from the other party.

## Provision of documents

Expertise France shall ensure that the Contractor receives in good time all the documents (as set out below) required for delivery of the services/supplies:

* Terms of reference of the mission
* Technical offer of the Main Contract

## Insurance

The Contractor shall take out, and maintain at is own expense, third-party and professional liability insurance policies covering the physical injury and material and consequential damage that may arise from delivery of the services/supplies.

The Contractor shall also take out, and maintain at its own expense, insurance policies covering its working accident and occupational illness liability with regard to its agents assigned to delivery of the services/supplies.

The Contractor must be able to produce on request by Expertise France all certificates demonstrating its possession of the aforementioned policies.

## Contact person and communication

All communication and notifications between the Parties under the Contract shall take place in written form, either through the exchange of e-mails or via registered letter with acknowledgement of receipt, where the latter form is prohibited in certain cases under the Contract, and shall be deemed to have been validly served from its receipt by the addressee.

All correspondence shall be forwarded, all carriage costs paid, to the following addresses:

|  |  |
| --- | --- |
| For Expertise France : | Expertise France  Hakim BEJAOUI, Project Manager  Sustainable development department  40, boulevard de Port Royal  F-75005 PARIS |
| For the Contractor: | To be completed by the Contractor |

Each Party may modify its address at any time subject to notifying the other Party thereof in writing.

## Understaking against deforestation

Within the framework of the policy to combat imported deforestation and in the hypothesis of the use of raw materials or processed products, the Contractor undertakes to evaluate precisely the quantities really necessary and to study alternatives to the products at risk listed below:

* Meat;
* Eggs ;
* Dairy products ;
* Ready-made meals, margarine, spreads;
* Leather shoes ;
* Automotive upholstery ;
* Household and cleaning products ;
* Agrofuels ;
* Lumber ;
* Solid wood or particle;
* Fuels ;
* Paper ;
* Cardboard ;
* Textiles ;
* Coffee, chocolate ;
* Exotic fruits ;
* Electronics.

For more information, the guide Engaging in Zero Deforestation Public Procurement is available at the following email address : <https://www.ecologie.gouv.fr/sites/default/files/Guide_politique_achat_public_zero_deforestation.pdf>

1. **Re-examination clause**

Under Article R.2194-1 et seq. of the Public Procurement Code, Expertise France may amend the provisions of the Contract, such modifications shall be notified to the Contractor by concluding an amendment.

1. **Similar services**

Under Article R.2122-7 of the French Public Procurement Code, the Contractor may be awarded a contract for similar services to those of the initial contract without advertising or competitive bidding.

1. **penalties**

The amount of penalties will be applied within the calculation of the balance due under the relevant item or purchase order.

## Penalties for periodic documentary deliverables

By way of derogation from Article 14 of the CCAG, penalties are set at the fixed rate of €50 net per day of delay in the delivery of the periodic deliverables specified in Article 6 “Deliverables table” of the Contract.

## Penalties applicable to submission of final deliverables

By way of derogation from Article 14 of the CCAG, penalties are set at the fixed rate of €100 net per day of delay in the delivery of the final deliverables specified in Article 6 “Deliverables table” of the Contract.

1. **intellectual property**

## Definitions

The Assignment provided for by this article requires definition of the following terms:

* “Result” means any intended outcome of the performance of the Contract which is delivered and definitively accepted by Expertise France;
* “Creator” means any natural person who contributed to the production of the result;
* “Pre-existing right” means any intellectual property right, including pre-existing technologies owned by Expertise France, the Contractor or any third party with a prior interest in the order to be executed under the Contract.

## Ownership of results

The ownership of results, and the title to related intellectual and industrial property rights, including the solutions and technical information they contain, are entirely and irrevocably transferred to Expertise France under the Contract. This Assignment only covers the economic rights of creators under the conditions set out in Article 8.3 of the Contract. The moral rights of creators are excluded. Such moral rights cover the disclosure, paternity and respect for the integrity of the results treated as a work within the meaning of the French Intellectual Property Code.

The aforementioned elements shall be deemed to be effectively transferred to Expertise France after acceptance of the results delivered to it by the Contractor.

The payment of the price to the Contractor is deemed to include any fees payable to the Contractor in relation to the acquisition of rights by Expertise France, notably all forms of exploitation of the results. The acquisition of such covers all territories worldwide.

## Exploitation of results

By acquiring title to the results developed by the Contractor, Expertise France becomes the holder of all economic copyright relating to such rights. In this regard, yet without the list being exhaustive, Expertise France may exploit the results for the following purposes:

* internal exploitation:
  + disclosure to its personnel;
  + communication disclosure to persons and entities working for Expertise France or cooperating with it, including contractors, subcontractors (whether legal or natural persons), EU institutions, agencies and bodies and member states' institutions;
  + installing, uploading, processing, arranging, compiling, combining, retrieving, copying, reproducing in whole or in part and in unlimited number of copies.
* distribution to the public:
  + in paper, electronic or digital format;
  + on the internet as a downloadable/non-downloadable file;
  + via display, radio or television broadcasting or any other transmission technique;
  + otherwise in any form and by any method.
* modifications:
  + modification of content, form or technique;
  + addition of new elements of content and form;
  + adaptation using new media;
  + translation into any language;
  + digitisation and computer processing.

## Licensing of pre-existing rights

Expertise France shall not acquire ownership of pre-existing rights. The Contractor shall license the pre-existing rights on a royalty-free, non-exclusive and irrevocable basis to Expertise France, which may use the pre-existing rights as set out in Article 8.3. Such licences shall become effective from the moment the results are delivered by the Contractor and accepted by Expertise France. On delivery of the results, the Contractor may, as required, provide Expertise France with a list of pre-existing rights and third parties' rights, including those of its personnel, of creators and of other right holders. The licensing of pre-existing rights to Expertise France under the Contract covers all territories worldwide and is valid for the whole duration of intellectual property rights protection.

## Guarantees

When delivering the results, the Contractor shall warrant that they are free of rights or claims from creators and third parties, including in relation to pre-existing rights, for any use envisaged by Expertise France.

On request from Expertise France, the Contractor shall provide evidence of ownership or rights to use all the listed pre-existing rights and rights of third parties, except for the rights owned by Expertise France.

## Image rights

If natural, recognisable persons appear in a result or their voice is recorded, on request from Expertise France the Contractor shall submit a declaration in which such persons (or of the persons exercising parental authority in case of minors) give their permission for the described use of their image or voice. This does not apply to persons whose permission is not required in line with the law of the country where photographs were taken, films shot or audio records made.

1. **Termination of the contract**

## General terms of performance

The Contract is subject to the termination clauses as defined in Articles 29 to 36 of the CCAG.

By way of derogation from Article [40 of the CCAG PI] [42 of the CCAG FCS] [52 of the CCAG TIC], termination for reasons of general interest is not applicable to this contract. However, the parties agree on the possibility of terminating the contract by mutual consent.

In the event of early termination, the Contractor shall immediately return to Expertise France all documents it may have received for the purposes of execution of the Contract.

## Termination of the Contract due to the non-availability of a designated expert

In the event of the non-availability of a designated expert, the Contractor shall notify Expertise France thereof within 3 days and, within 14 days at the latest, propose the CV of a replacement expert of at least the same level or expertise. If these replacement conditions are not respected, Expertise France may terminate the Contract due to fault on the part of the Contractor.

Regardless of the circumstances, should an expert remain unavailable for a cumulative duration of 3 weeks without a satisfactory replacement having been found, Expertise France may automatically terminate the Contract.

Termination for the non-availability of a designated expert shall not establish any entitlement to any form of compensation for the Contractor.

## Procedure

Any termination decision shall be notified by Expertise France to the Contractor by registered letter with acknowledgement of receipt. It shall state the effective date of termination.

1. **safety and security measures and responsabilities**

The Contractor is the only one who is responsible for the safety of the people and property that he mobilizes for the execution of the present Contract and in this respect, takes all necessary measures. He undertakes to ensure that all of his employees and subcontractors comply with the safety instructions that he issues.

In the event of an incident and/or direct or indirect attack on the safety of people directly or indirectly mobilised by the contractor or its equipment, Expertise France cannot be held responsible in any way whatsoever.

1. **ethics**

The Contractor also undertakes to take note of the  [Expertise France Code of Conduct](https://www.expertisefrance.fr/documents/20182/426622/Expertise+France+%E2%80%93+Code+of+conduct/82cf6060-4768-4b25-8817-ccba1d86e568) and to comply strictly with it (the Expertise France code of conduct is available on the agency’s website: [www.expertisefrance.fr](http://www.expertisefrance.fr)).

Any breach to comply with the code of conduct may result in the termination of the Contract and incur the liability of the Contractor.

1. **Administration of personal data**

Under Article 13 or Regulation (EU) no. 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (GDPR), the Contractor is notified that personal data (notably name, first name and e-mail address) collected under this contract may be processed.

The legal basis under which such processing is performed are set out in c) and e) of Article 6.1 of the GDPR, namely:

* The processing is necessary in order to comply with a legal obligation by which Expertise France is bound;
* The processing is necessary for performance of a public-interest assignment or which falls within the scope of the public authority entrusted to Expertise France.

The purposes of the processing are as follows:

* Management and monitoring of this Contract
* Management and monitoring of reports forwarded to donors and other supervisory authorities.

Recipients or category of recipients of the personal data are exclusively authorised personnel of Expertise France, ministries and state operators and donors responsible for awarding and executing this contract, including any service providers assisting them with their activities.

Retention period: the data will be held throughout the execution of the contract, including the DUA (duration of administrative usefulness) applicable to the contract.

Under Articles 15 to 21 of the GDPR, persons whose personal data is collected enjoy a right of access, rectification and deletion with regard to such data. They also enjoy the right to restrict and refuse processing on legitimate grounds. The information and other rights of data subjects may be exercised by contacting the Data Protection Officer of Expertise France ([informatique.libertes@expertisefrance.fr](mailto:informatique.libertes@expertisefrance.fr)).

Persons whose personal data is collected under this procedure may submit a complaint to CNIL.)]

1. **Dispute resolution - applicable law**

Any dispute between the Parties relating to the existence, validity, interpretation, execution, and termination of the Contract (or any of its clauses) that the Parties cannot resolve amicably within 30 days of the notification of the dispute by the requesting Party to the other Party, shall be submitted to the competent court.

The applicable law for this Contract is French law, to the exclusion of any other law.

1. **Derogation from the CCAG**

The following articles of this document derogate from the CCAG-FCS:

* article 5 derogates from article 28 and 15 of the CCAG ;
* article 9 derogates from article 14 of the CCAG

1. **AUDIT**

The Contractor may be submitted to an audit concerning compliance with the regulations and contractual obligations applicable to the performance of the present Contract. This audit may be carried out by Expertise France or by a third party appointed by Expertise France and may not be refused by the Contractor. If the audit is carried out by a third party, the appointed third party must not be a direct competitor of the Contractor. Scheduled audits may be carried out periodically or spontaneously at the request of Expertise France or a third party. In all cases, the contractor will be informed at least 5 working days in advance.

The Contractor therefore undertakes to:

* Allow Expertise France or the appointed entity, and facilitate their access to the information required to carry out the audits, including interviews with the people involved and on-site visits;
* Submit documents relating to the performance of the present Contract as well as any documents required by the auditors;
* Demonstrate transparency and respond to auditors’ requests;
* Implement any corrective measures that may be necessary.

Expertise France will notify the Contractor of the identity of the audit structure selected in the case of an external firm, the purpose of the assignment, the planned duration of the assignment and the names of the experts assigned.

The Contractor also undertakes to allow Expertise France, or any other third party mandated by Expertise France, to carry out an investigation in the case of an allegation of a prohibited practice[[1]](#footnote-1) relating to the present Contract, under the conditions set out above.

The conclusions of the audit report will be sent to each of the Parties by any means deemed appropriate by Expertise France.

The conclusions may prescribe the implementation of actions and a deadline for completion.

Any refusal by the Contractor to comply with the audit exercises and/or their conclusions gives as of right to Expertise France the possibility to terminate the present contract without compensation.

1. **Final provisions**

## Declaration

The Contractor, its affiliates, suppliers, service providers, consultants and subcontractors (including directors, employees and agents of such entities) hereby declares:

* that no natural or legal person on whose behalf the Contractor is acting is subject to the prohibitions set out in Articles L. 2141-1 to L. 2141-6 and L. 2141-7 to L. 2141-11 of the French Public Procurement Code or any equivalent prohibition issued in another country;
* that the commitments made by the Contractor within the scope of the Contract do not create a situation of conflict of interest that may affect the execution of the Contract;
* that the Contractor have not committed any act that may influence the process of Project implementation to the detriment of the Beneficiary, and notably that no Understanding has been, or will be, entered into;
* that the negotiation, award and execution of the Contract has not given rise to, nor will do so in the future, any act of corruption as defined in the United Nations Convention Against Corruption dated 31 October 2003;
* accepts that the Contract will be awarded in accordance with standard practices and in electronic format.

Furthermore,

The Contractor, its affiliates, suppliers, service providers, consultants and subcontractors (including directors, employees and agents of such entities) certify that:

* they do not acquire and don't supply/will not acquire or supply equipment and do not intervene/will not intervene in sectors under embargo by the United Nations, the European Union or France. For information, the list can be found at: <https://www.sanctionsmap.eu> ;
* they are not included in the lists of financial sanctions adopted by the United Nations, the European Union, France and/or the United States, notably in the fight against the financing of terrorism and against attacks on national peace and security. For information, the lists can be consulted at the references below:
* for the United Nations, the United Nations Security Council sanctions lists: <https://www.un.org/securitycouncil/content/un-sc-consolidated-list>;
* for the European Union, the lists can be consulted at the following address: <https://www.sanctionsmap.eu>;
* for France, see: <https://gels-avoirs.dgtresor.gouv.fr/List>;
* for the United States, see: <https://home.treasury.gov/policy-issues/financial-sanctions/sanctions-programs-and-country-information>;
* they are not subject to a World Bank exclusion order and are not on the list published by the World Bank. For information, the list can be consulted at the following address:

<https://www.worldbank.org/en/projects-operations/procurement/debarred-firms>

*In the hypothesis of such a decision of exclusion, we can join to the present declaration on honor the additional information which would allow to consider that this decision of exclusion is not relevant within the framework of the market)*.

Finally, the Contractor, its affiliates, suppliers, contractors, consultants and subcontractors (including directors, employees and agents of such entities) acknowledge and accept that the above-mentioned situations may lead to the automatic termination of the contract.

They undertake to inform Expertise France without delay of any change in our situation during the execution of the contract with regard to the present declaration.

FOR THE CONTRACTOR:

In.....………....….., on...…….....20....

Preceded by the handwritten words “Read and approved":

Signature[[2]](#footnote-2):

Name:  
First name:

Role:

FOR EXPERTISE FRANCE:

This offer is accepted as an undertaking.

In.....………....….., on...…….....20....

Signature[[3]](#footnote-3):

Name:  
First name:

Role:

**Done in one original copy retained by Expertise France.**

**Annex 1: Specifications**

**Terms of Reference**

**Study on the Potential of Agrivoltaic Systems in Uzbekistan for Agriculture and Livestock**

**Version of 28th of January 2025**

|  |  |
| --- | --- |
| Project name | Uzbekistan Energy sector technical assistance program  23DDU0C027 |
| Assignment name | Consultancy for a study on the potential of agrivoltaic systems |
| Beneficiary | Ministry of Energy of Uzbekistan  Ministry of Agriculture of Uzbekistan |
| Country | Uzbekistan |
| Duration | 8 months |

**1. Background and Context**

Agrivoltaic systems, which combine solar photovoltaic (PV) energy generation with agricultural and livestock activities on the same land, offer a sustainable solution to optimize land use while enhancing both food and energy security. Uzbekistan, with its extensive agricultural lands, livestock sector, and abundant solar resources, stands to benefit from such integrated systems. This study aims to assess the potential of agrivoltaic systems in Uzbekistan, focusing on both crop production and livestock management.

**2. Objectives of the Study**

* **Primary Objective:** To evaluate the potential of agrivoltaic systems in Uzbekistan, specifically in the context of their application in agriculture and livestock management.
* **Specific Objectives:**
  1. Assess the solar energy potential across different regions of Uzbekistan suitable for agrivoltaic installations.
  2. Analyze the compatibility of various crops and livestock with agrivoltaic systems, considering local agricultural and livestock practices.
  3. Evaluate the economic feasibility of agrivoltaic systems in different agricultural and livestock settings.
  4. Analyse the impact of agrivoltaic on productivity and quality on agriculture and livestock (milk, meat, wool…)
  5. Identify environmental impacts and benefits of agrivoltaic systems, including water conservation, soil health, and livestock welfare.
  6. Assess the social implications, including potential benefits to local communities, impacts on food and livestock production, and challenges related to land use.
  7. Provide policy recommendations to support the development and adoption of agrivoltaic systems in Uzbekistan.

**3. Scope of Work**

The study will encompass the following tasks:

* **Task 1: Literature Review and Data Collection** 
  + Review best practices in agrivoltaic systems with a focus on agriculture and livestock integration (especially in France, Italy, Israel and USA or other countries demonstrating similarities with Uzbekistan).
  + Review of the different contractual existing schemes between the developers (in charge of developing, financing and operating the facility), the farmers (owner of the land) and the offtaker (in charge of buying the electricity produced) showing pros and cons of each contractual scheme.
  + Collect data on solar radiation, agricultural and livestock production, and land use in Uzbekistan.
* **Task 2: Technical Feasibility Assessment** 
  + Analyze the solar energy potential for agrivoltaic systems in different regions of Uzbekistan by identifying the various constraints (solar yield, soil erosion and drainage, wind resistance and use of trackers).
  + Assess the technical requirements for integrating PV systems with agricultural practices (e.g., crop selection, irrigation) and livestock management (e.g., shading, grazing patterns).
  + Assess the changes in resource management (water, food, grazing).
  + Field visit to Uzbekistan, assess agrovoltaic potential on croplands, pastures and greenhouses.
* **Task 3: Economic Analysis** 
  + Conduct a cost-benefit analysis of agrivoltaic systems, considering capital costs, operation and maintenance costs, crop yield, livestock productivity and quality (milk, meat, whool…), and energy production.
  + Evaluate potential revenue streams from agricultural produce, livestock products, and solar energy generation.
* **Task 4: Environmental Impact Assessment** 
  + Assess the environmental impacts of agrivoltaic systems, including effects on soil health, water usage, livestock welfare, and biodiversity.
  + Identify potential environmental benefits, such as improved microclimates for crops and livestock, reduced carbon emissions, and enhanced land use efficiency.
* **Task 5: Social Impact Assessment** 
  + Evaluate the social implications of agrivoltaic systems, including potential impacts on local communities, food security, and livelihoods.
  + Engage with stakeholders, including farmers, livestock herders, local communities, and government agencies, to gather insights and feedback.
* **Task 6: Policy and Regulatory Framework** 
  + Review existing policies and regulations relevant to agrivoltaic systems in Uzbekistan.
  + Provide recommendations for policy and regulatory adjustments to facilitate the adoption of agrivoltaic systems, especially those involving agriculture and livestock.
* **Task 7: Reporting and Dissemination** 
  + Compile the findings into a comprehensive report, including an executive summary, detailed analysis, and actionable recommendations.
  + Present the findings to relevant stakeholders through workshops or seminars.

**4. Methodology**

* **Data Collection:** Utilize both primary and secondary data sources, including satellite data for solar radiation, agricultural and livestock statistics, and interviews with stakeholders.
* **Analysis:** Apply quantitative and qualitative methods for analyzing technical feasibility, economic viability, and social and environmental impacts.
* **Stakeholder Engagement:** Conduct consultations with key stakeholders, including government agencies, farmers, livestock herders, local communities, and experts in renewable energy, agriculture, and livestock management.

**5. Deliverables**

* **Inception Report:** Detailed study plan, methodology, and work schedule.
* **Interim Reports:** Progress reports on key tasks, including preliminary findings.
* **Final Report:** Comprehensive analysis with recommendations and an executive summary.
* **Presentation Materials:** Slide deck summarizing the study’s key findings and recommendations.
* **Conducting presentation** to the Ministry of Energy and other national stakeholders.

All deliverables must be submitted in English and translated to Russian/or Uzbek. Meetings between the consulting team and Expertise France/AFD will be hold in English.

**6. Timeline**

The study is expected to be completed within 8 months from the start date. The timeline for key deliverables is as follows:

* **Month 1:** Inception Report
* **Month 3:** Completion of Literature Review and Data Collection
* **Month 4:** Interim Report on Technical and Economic Analysis
* **Month 5:** Interim Report on Environmental and Social Impact Assessments
* **Month 7:** Draft Final Report
* **Month 8:** Final Report and Presentation to Stakeholders

**7. Required Expertise**

The consulting team should possess the following expertise:

* Renewable energy experts with experience in solar PV systems.
* Agricultural specialists with knowledge of local farming practices and crop compatibility with agrivoltaic systems.
* Livestock management experts with experience in integrating livestock with PV systems.
* Environmental scientists with experience in impact assessments.
* Economists with expertise in cost-benefit analysis.
* Social scientists with experience in stakeholder engagement and social impact assessment.
* Partnership or consortium with local (Uzbekistan-based) firms or individual experts

**8. Submission**

Interested candidates are invited to submit a technical and financial offer in English including:

* A detailed curriculum vitae of experts;
* A technical proposal with the envisaged methodology;
* An estimated budget and work schedule;
* Relevant professional references.

**9. Selection criteria**

Applications will be assessed on the basis of the following criteria:

* Global understanding of the mission and compliance with the terms of reference
* Relevance of the proposed approach and methodology and of the work plan and timeline
* Relevance of the experience and competencies of the consulting team in relation with the profile defined in the terms of references
* Relevance of references and recommendations
* Price

**10. Reporting and Coordination**

The study will be managed by a designated Project Coordinator, who will ensure regular communication with the Client. The team will provide monthly progress updates and hold monthly/ or bi-monthly review meetings (or upon necessity) with the Client. In addition, the Ministry of Energy may appoint focal point to monitor the progress of assignment.

1. Prohibited practices as defined by the Agence Française de Développement group are defined below: <https://www.afd.fr/en/ressources/afd-groups-policy-prevent-and-combat-prohibited-practices-2020> [↑](#footnote-ref-1)
2. Date and original signatures [↑](#footnote-ref-2)
3. Date and original signatures [↑](#footnote-ref-3)