

TERMS OF REFERENCES

Environmental Impact Assessment for Energy Efficiency and Renewable Energy Sources measures in Residential building

Job title:	Environmental Impact Assessment Expert
Type of Contract:	Individual Contract (IC)
Assignment type:	National consultant
Section/Unit:	Environment and Energy Cluster
Duty Station:	Chisinau (Moldova)
Languages required:	English and Romanian, Russian will be an asset.
Starting Date:	28 April 2021
Duration of Assignment:	30 working days till December 2021
Payment arrangements:	Lump sum contract (payments linked to satisfactory performance and delivery of outputs)
Evaluation method:	Desk review

I. BACKGROUND

The objective of the project is to catalyze investments in low carbon green urban development based on integrated urban planning approach, by encouraging innovation, participatory planning and partnerships between a variety of public and private sector entities.

The strategy of the project is to create, launch and support a new institutional mechanism called “Green City Lab” (GCL) as a vehicle for encouraging and supporting new innovative measures and approaches in addressing the urban development challenges and barriers.

Moldova Sustainable Green Cities Project (MSGCP) is targeting the residential sector, part of a broader integrated urban planning approach (IUPA) at a neighborhood level. It seeks to strengthen the role of the Home Owner Associations (HOAs) to manage their buildings and common property and to contribute to the development of their surroundings, while also supporting them to get their legal status as credit-worthy legal entities with the option to access affordable financing for the required energy efficiency (EE) investments.

II. OBJECTIVES

The Environmental Impact Assessment Expert (EIAE) will provide support to Moldova Sustainable Green Cities Project team to ensure that environmental issues are taken into consideration for the following two demo projects:

- a) Energy efficiency measures in a multiapartment residential building in Chisinau municipality;
 - I. Multiapartment residential building. The building is connected to centralized heating system. There is no functional centralized hot water system. Energy Efficiency measures will mainly be focused on insulation of roof and walls, replacement of windows, installation of Individual Heating Point, instalation of smart meters.
- b) Neighbourhood Renewal Green Urban Project.
 - I. Installation of Photovoltaic systems (up to 20 kW installed) and/or solar collectors for hot water preparation in 3 Multiapartment residential buildings.

III. OUTPUTS AND TASKS

Under the overall guidance and supervision of the Project Manager, the EIAE will deliver the following results:

- An identification and assessment of the potential significant environmental impacts of the project in its different alternatives;
- Environmental baseline study
 - Existing environment
 - Expected future situation without the project
- The impact identification and evaluation

The impact identification and evaluation should address - but not necessarily be limited to- the following aspects of the project:

- polluting discharges and emissions;
- noise and vibration;
- production of odours, luminous emissions;
- solid and hazardous waste production;
- land-take requirements;
- presence of workers;
- access and transport;
- if relevant, effects on the population's vulnerability to increasing climate variability and the expected effects of climate change.

The state of the environment resulting in the short, medium and long term from project implementation will be described on the basis of the same indicators or criteria as the baseline study. The impact evaluation must be assessed in comparison with the expected state of the environment under the no-project scenario. The impacts should be described according to their nature and characteristics (e.g. direct and indirect, temporary or permanent, continuous or intermittent, reversible or irreversible, positive or negative, short- medium- or long-term, their magnitude, their mitigability and compensability, their transboundary nature, accumulation and synergies with other impacts). Where appropriate, impacts on humans should be disaggregated by sex, age and other relevant social criteria.

Impacts should be identified for the construction, operation and decommissioning phases of the project, and all associated developments should be taken into account.

- Recommendations, including an Environmental Management Plan (EMP), for the implementation of proposed measures to mitigate negative impacts and optimise positive ones

The Environmental Management Plan (EMP) is a document that identifies the actions needed to implement the EIA recommendations, including environmental monitoring required during the implementation phase of a project. The EMP should clearly translate the recommendations from the EIA into an operational plan. The EMP of the project should include:

- a) Institutional arrangements for its implementation and for environmental monitoring: responsibilities, role of the environmental authorities, role and participation of stakeholders;
 - b) A monitoring and supervision plan (including appropriate indicators, frequency of monitoring, means to gather and analyse the data, reporting system);
 - c) A response plan in case of accidents or unexpected results from the environmental monitoring;
 - d) A proposed schedule for activities (monitoring and mitigation/optimisation measures);
- Demo projects implementation monitoring in compliance with the management plan.

IV. EXPECTED DELIVERABLES AND ESTIMATED TIMING

The assignment will be carried out as 30 working days according to the following timeframe. The payments will be made as per the deliverables indicated below.

#	Deliverables	Estimated timing
1	Environmental Impact Assessment study	By 30 May 2021 10 working day
2	Environmental Management Plan	By 30 June 2021 5 working day
3	Demo projects monitoring report	By 30 November 2021 15 working days

All of the deliverables will be prepared in English or Romanian, working language will be Romanian.

V. QUALIFICATION CRITERIA

Academic qualifications:

- University degree in environmental studies, natural sciences, engineering and/or any other relevant field.

Experience:

- At least 3 years of progressively responsible hands-on experience in construction, construction coordination and technical oversight/inspection with accent on Energy Efficiency/Renewable Energy.
- At least 5 years of practical experience in designing, managing and scheduling of building construction or reconstruction projects with a concentrated focus on energy conservation.
- Experience in designing, implementing and inspecting energy efficiency and/or renewable energy measures is a must.
- Solid working experience with multi-apartment buildings and their management bodies.

- Working experience with international donor organizations is an asset.
- Previous working experience in climate change and sustainable development issues.

Competencies

- Awareness of local and international best practices in the field of environment, natural sciences, civil engineering/designing, structural engineering, energy efficiency and renewable energy housing solutions;
- Knowledge of principles and practices in building systems and materials, construction, building design and renewable energy systems;
- Solid knowledge of energy efficiency and renewable energy technical applications in building sector;
- Excellent knowledge of local building codes, standards, regulations and directives;
- Demonstrated ability of cooperation with stakeholders: government and municipal bodies, scientific institutions, design and construction companies, suppliers and private sector, building management bodies and home owner associations;
- Computer literacy (Word, Excel, Internet, Power Point).
- Strong interpersonal and communication skills;
- Demonstrated problem-solving ability with a proactive and collaborative style that works well in teams;
- Demonstrated attention to detail and organizational skills;
- Ability to work independently as well as part of a team;
- Ability to operate under strict time limits.

Language skills

- Proficiency (verbal and written) in Romanian; working level of Russian and English will be an asset.

VI. PAYMENT MODALITIES

The consultant will organize and facilitate the implementation of all project activities as described above; his/her payment will be lump sum amount based, disbursed in instalments upon satisfactory performance and approval of deliverables.

VII. APPLICATION PROCESS

Applicants shall submit the following four documents:

Required

- Proposal:
 - (i) Explaining why they are the most suitable for the work;
 - (ii) Provide a brief methodology on how they will approach and conduct the work (if applicable)
- CV, including information about past experience in similar assignments;
- Offeror's Letter confirming Interest and Availability
- Financial proposal (in USD, specifying the total lump sum amount as well as the requested amount of the fee per day).