

Republic of North Macedonia
Ministry of Finance

Public Sector Energy Efficiency Project
(P149990)

MK-MOF-002-2021-CS-CQS
LOT1

Terms of Reference (TOR)

Consulting Company for development of the detailed energy audit reports, detailed designs with technical specifications for energy efficient building reconstructions and technical audit of public healthcare buildings.

I. Introduction

The global commitment to environmental protection and in particular to reduction of greenhouse gas emissions, Macedonia's dependence on energy imports, as well as the need to secure greater variety and thereby reliability of energy supply undoubtedly impose increased share of renewable energy sources in the final energy consumption. However, in parallel with activities and measures targeting increased share of renewable energy sources, measures and activities to increase energy efficiency of final energy consumption should be pursued. Thus, the target share of renewable energy sources in final consumption will be achieved much easily and faster, but the economy's competitiveness will also be improved due to reduced energy costs.

The Republic of North Macedonia signed and ratified the Agreement of the Energy Charter, the Energy Community Agreement, the United Nations Framework Convention on Climate Change and the Kyoto Protocol. Together with the signing of the Energy Charter Agreement Macedonia also signed a Protocol for Energy Efficiency and Relevant Environmental Protection Aspects.

The activities related to regulating specific issues related to the performance of energy activities specified in the Law on Energy are performed by the Energy Regulatory Commission (ERC) of the Republic of North Macedonia. The Energy Regulatory Commission works and decides independently within the framework of the competences determined in the Law on Energy. The Energy Regulatory Commission has the status of a legal entity. The Law for Energy Efficiency, in which the Energy Efficiency Directive, the Energy Performance of Buildings Directive and the Regulation for establishing a framework for labelling of energy consumption, has been transposed, and was adopted in February, 2020. The Ministry of Economy and Energy Agency are responsible for its implementation.

In partnership with the World Bank, Republic of North Macedonia through Ministry of Finance (MoF) intends to implement the Public Sector Energy Efficiency Project (PSEEP) and intends to apply part of the proceeds for consulting company.

The project development objectives are: (i) reduce energy consumption in the municipal sector; and (ii) support the establishment and operationalization of a sustainable financing mechanism for the public sector.

The project will be supported by a €25 million equivalent IBRD loan, to support energy efficiency investments in public buildings and policy/TA to help set-up and operationalize an energy efficiency revolving fund. Physical investments will be needed to help develop the market for energy efficiency materials and services.

The Project would include three components: (i) energy efficiency investments in the public sector; (ii) technical assistance and implementation support and (iii) establishing of Energy Efficiency Fund and its support.

The project includes consultancies to support the investment component, including development of detailed energy audit reports, detailed designs and technical specifications. It would also include technical assessments needed for adequate disposal of any hazardous materials from the reconstructions as well as their actual disposal and a pre-and post-reconstruction building occupant satisfaction survey. A consultant will be selected in accordance with the Consultant Qualification (CQS) conducted according to the World Bank's Procurement Regulations for Investment Project Financing (IPF) Borrowers 'Procurement in IPF, Goods, Works, Non-Consulting, and Consulting Services' (Procurement Regulations) dated July 2016, revised November 2017 and August 2018, under the 'New Procurement Framework (NPF)'; the 'Guidelines on Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants', dated October 15, 2006 and revised on July 1, 2016; and other provisions stipulated in the Financing Agreements.

The Project implementation unit (PIU) has been established at the Ministry of Finance and has been delegated to assume overall responsibility for the project. This will include completion of the necessary activities to support project preparation as well as implementation for the five-year project period. PIU will administer all aspects of the project, including selection of the buildings, procurement of the various consulting services (e.g., seismic screening, detail energy audits, detail designs, technical specifications, construction supervision, technical assistance or consultancies, etc.), and monitoring.

Through the PSEEP, approximately 100 public buildings will be renovated for EE. Investments would include building envelope measures (roofs/wall insulation, windows, doors), heating/cooling systems, lighting, power systems and other energy-using systems. A limited amount of funds may be allocated for non-EE measures (e.g., rewiring, minor structural repairs, painting, seismic safety, etc.).

Within the framework of the PSEEP, a consulting company will be employed to conduct investment grade detailed energy audit reports, prepare detailed designs, Bills of Quantities (BoQ) and technical specifications of selected public buildings and technical audit.

II. Scope of Services

The Consultant will be required to develop detailed energy audit reports, prepare detailed designs with technical specifications for energy efficiency reconstructions in public healthcare

buildings based on detail energy audit reports. This includes architectural, construction, thermo technic, mechanical and electrical phases, technical specifications, cost estimates and bills of quantities (BoQs) and submittal of technical audit of the detail design. The Consultant shall also identify environmental and social risks associated with the planned reconstruction works and prepare Environmental and Social Management Plans (ESMPs) and Checklists.

Estimated total area of buildings for reconstruction with this ToR is 8,309m². (It should be noted that slight changes may occur in the list, in number of buildings and square meters). More data about above buildings are provided in Appendix 1.

| No | Region | Number of the Healthcare centre | Settlement-urban/rural | Name of institution | Area of the buildings (m ²) |
|--|--------|---------------------------------|------------------------|--|---|
| Lot 1: Skopje Region - total area of the buildings 8,309m² | | | | | |
| 1 | Skopje | 29 Skopje | SK- Centar | PHI ¹ Healthcare centre Skopje-Polyclinic Idadija | 3464 |
| 2 | | | SK- Centar | PHI University Clinic for Physical Medicine and Rehabilitation | 4845 |
| Total Lot 1 | | | | | 8309 |
| TOTAL Lot 1 | | | | | 8309 |

III. Key tasks are expected to include:

Task 1: Conduct detailed energy audit report

The consultant shall preparedetailed (investment) energy audit reports of public buildings to identify and recommend energy efficiency measures (EEMs) for implementation of energy efficiency (EE) investment according the Rulebook for energy audit from 2013 (Official Gazette 94 from July 4, 2013) and with content as it is prescribed in the Rulebook and the Environmental and Social Management Framework of the Public Sector Energy Efficiency Project. The activities required to conduct detailed energy audit reports include, but may not be limited to the tasks shortly described in the following sections.

The Consultant will conduct site visits to complete detailed energy audits for the buildings listed in the final list. This will include, inter alia, collecting baseline information on the facility (building description and function, age, heated area, drawings, equipment inventory) as well as analyses on existing building envelope, heating systems, and other energy-using systems (e.g., indoor/outdoor lighting, cooling and ventilation, cooking, etc.). The analysis should also take into account if buildings are connected to the district heating networks, fuel pricing, planned closures/expansions, etc.

The report should take into account the recommendations from the "High-level seismic screening of the structures of medical facilities in North Macedonia" prepared by the "Institute of Earthquake engineering and engineering services (IZIIS)- Skopje," especially for the building of "PHI University Clinic for Physical Medicine and Rehabilitation."

¹ PHI – Public Healthcare Institution

| | | | | |
|----|---|------------|---|---|
| 12 | PHI Healthcare centre Skopje-Polyclinic Idadija Sk-29 | 1964 | Consists of 3 units with reinforced concrete frame structural systems and different number of storeys, that meet the general principles for seismic resistant structural design. The structural elements of all units are in good condition without any cracks, damage, or repairs. Considering the number of storeys, column proportions and built-in concrete grade (greater than 35 MPa), the risk from the deficiencies, (reinforcement detailing) to meet the current seismic code is acceptable. Hazard class is B. | GREEN |
| 13 | PHI Institute of Physical Medicine and Rehabilitation, Administration Sk-30 | Pre - 1964 | Consists of 7 units with different structural systems and number of storeys constructed in 1960-ies; unit A is confined masonry, unit B is reinforced concrete frame structure, units C, D, E, F and G is combined structural system (masonry + reinforced concrete). Although not damaged during the 1963 Skopje earthquake, the structural units A, D, E, F and G were strengthened in 1967. Hazard class is B for units A, D, E, F and G, and class D for units B and C. All units do not meet the general principles and requirements in the current seismic code; it is recommended to perform detailed structural analysis to define the need and extent of structural strengthening to meet the requirements in the current seismic code in the country. | units A, B, C - YELLOW units D, E, F, G - ORANGE |

The baseline energy assessment reports will also specifically analyze the potential for implementation of solar water heating systems in selected buildings where there is a significant use of hot water. The detailed energy audit will develop an energy baseline, assess building envelope measures based on economic criteria (e.g., payback, NPV, and Internal Rate of Return (IRR)), assess other changes to common spaces (e.g., lighting), and alternative heating options (e.g., district heating, building-level boiler, solar water heating). The audit report will help PEESP/PIU to determine the most advantageous investments in order to reduce their energy consumption while preserving or increasing their comfort levels. The audit will be presented and explained to PEESP/PIU and WB.

The Consultant will prepare detailed energy audits, which shall include:

- On-site inspections

Building info

- Building state description: location, building orientation, year of construction, occupancy, and climate zone
- Collection of energy bills for at least past three calendar years (all forms of energy should be included in this analysis)
- Review of available documentation (e.g., drawings of boiler plant, heating installation, etc)
- Interviews with building users, facility managers/engineers

Equipment info Equipment lists for main energy-using equipment

HVAC

- HVAC (Boiler and Chiller part)
- Airside and Other HVAC System equipment (furnaces, unit ventilators, radiators, etc.)
- Package units (Heat pumps, Rooftop Units (RTU), etc.)
- Building level/global controllers

Domestic Hot Water (DHW)

- Showers, kitchen, laundry, etc

Lighting (Interior and Exterior)

Pumps and fans (electrical motors, if not addressed in the HVAC chapter)

Mechanical systems insulation

- Equipment info should include an explanation about working hours assumptions. It should note any deficiencies with the current operations – under/-overheating or cooling, unused equipment, broken /missing lights, equipment capacity/dimensioning
- Showers, kitchen, laundry, etc

Energy consumption data

- Rates and providers (Electricity, Heat, other energy providers)
- Energy consumption profiles (Overview of the total consumption and cost of energy on a yearly basis, including Energy consumption graphs)

Energy calculations based on Energy Performance Certificate (EPC)

Establishment of an existing energy class of the building as defined in EPC

Identified measures for EE and scenarios

New energy calculations according to the recommended EE measures and scenarios

Establishment of a new energy class of the building

Establishment of the energy monitoring system

Establish different investment scenarios according to the proposed energy efficiency measures and determine the most optimal scenarios

CO2 emission calculations before and after proposed EE measures

Write-ups of the detailed energy audit report

Based on the analysis, the detailed (investment) energy audit report will propose technically-viable EE measures (including passive EE measures) calculate energy savings (both based on achievement of heating norms as well as expected actual energy savings), investment costs, payback times and net present value (10% discount rate), environmental benefits and CO₂ emission savings, along with implementation plans, operations and maintenance (O&M) and training requirements, and energy monitoring. Possible EE and reconstruction measures (non-EE measures should not exceed 10% of total cost) should include, but not be limited to, building envelope measures (e.g., windows, wall/floor/roof insulation and repair, doors), efficient heating (water and space) systems, heat meters and controls (for those with DH connections), fuel switching (including to renewable energy such as solar PV, solar PV & thermal, solar water heating, biomass, ground-source heat pumps), cooling and ventilation systems, fans and pumps, lighting system (indoor and outdoor), and improved O&M practices. The audit report will propose technically-viable EE measures, calculate energy savings (both based on achievement of heating and cooling norms as well as expected actual energy savings), and should also include detailed identification of potentially hazardous materials (asbestos, mercury from lighting) in the buildings and will propose mitigation measures for the proper disposal according to the local laws and regulations and World Bank requirements.

For facilities with existing energy audit reports, no baseline energy assessments will be required. However, these reports must be evaluated, any deficiencies identified, and additional data collected to upgrade them into complete and up-to-date reports.

The conclusions and recommendations from the detailed (investment) energy audit report will be the base for preparing the Detail Design for reconstruction, and the conclusions and

recommendations from the detailed energy audit must be taken in consideration while preparing the detailed design for reconstruction.

Task 2: Prepare detailed designs for reconstruction with technical specifications :

- 2a) Analyze the building by comparing the existing survey and the proposed retrofit according to detailed energy audit report where the proposed measures and activities are the base for preparation of the Detail Design;
- Consultant shall include conclusion and recommendations from the Seismic screening Reports (SSR) for each of the listed buildings above and additional seismic analyses assessment on low cost and effective retrofitting if deemed applicable for particular buildings in the detail design particularly phase construction.
- 2b) Prepare any required supplemental drawings of audited facilities, where drawings do not otherwise exist. The Consultant will make site visits and prepare project plans (drawings) for selected buildings including actual measures of windows, entrance doors, building envelope, and unheated areas – building roof and basement; description of windows, doors, external walls, and materials of which buildings are made. During site visit the Consultant shall interview building users and record in minutes their observations and proposals.
- 2c) Prepare detailed technical specifications and detail designs for reconstruction containing all phases and drawings needed. Following PEESP/PIU and World Bank approval of the energy audit reports and agreement from PEESP/PIU and the beneficiaries on the EE measures to be included, the Consultant will prepare detailed technical specifications for works to be tendered and implemented in the selected public buildings. The technical specifications should include description of individual actions and unit's measures (bill of quantities and costs estimates). Detail design will also define measurement and verification of energy savings and CO2 emission savings. If SSR conclusions and recommendations request and if construction loads are changed with adopted EE measures, Consultant should do additional seismic assessment with the required SSR recommendation steps and new load, according to legislation. This design will also include (i) investigation and quantification of presence and amount of hazardous materials, specifically asbestos and mercury-containing light-bulbs, including specifications and bill of quantities for removal, packaging, transport and disposal/interim storage of these hazardous materials, (ii) personal safety equipment and (iii) overall environmental and social mitigation and monitoring requirements (the Environmental and Social Mitigation and Monitoring Measures based on the Environmental and Social Management Framework) and estimate of costs for the implementation of the measures. Consultant will prepare Environmental and Social Management Plan (ESMPs) and Checklist, detailed under Task 4.

This will also include the location where the asbestos and other hazardous wastes can be disposed and the interim storage location for the mercury containing light-bulbs as per ESMF and Macedonian legislation. It will also include any other types of waste to be generated during the retrofitting of buildings. They shall be included in the Detail Designs for reconstruction that shall be prepared by the Consultant. The Detail Designs for reconstruction shall be certified by the Consultant according to relevant provisions of the Macedonian Law on Construction. The draft Detail Design must be submitted to the beneficiary for formal consent, and to any required third parties for review and certification. Any comments provided by the beneficiary, third party auditor or PEESP/PIU must be taken into account and revised, as appropriate, before the design is finalized. Three hard copies of each design for each building shall be submitted to Contracting Authority and one electronic copy on CD (including drawings in PDF plus AutoCAD format).

Task 3: Prepare technical audit of the detail design:

- 3a) Consultant shall provide technical audit of the detail design for all phases, prepared by the independent licensed company.

Task 4: Prepare the Environmental and Social Management Documents:

The Consultant is required to get closely familiar with the Environmental and Social Framework Document (ESMF [DRAFT For public consultation: Environmental and Social Framework for Public Sector Energy Efficiency Project \(finance.gov.mk\)](#)) of the PSEE Project and be capable to design the sub-project specific information during the preparation of each individual Environmental and Social Management Plan (ESMP).

The ESMP shall be developed in parallel with the detailed design, not as a separate, individual chapter. The Contractor's Environmental and Social Experts shall strongly collaborate with its engineering team, aiming to conduct the following tasks:

4a) Understand the scope of work of each individual sub-project, especially:

- The EE measures to be implemented, based on the Energy Audit Report; clarify the energy and CO₂ emissions savings;
- Proposed construction works within the Detail Design and their adverse environmental and social impacts;
- Classify and specify the construction waste quantities and types, including hazardous waste; identify appropriate waste management for each specific type (collection, transportation, disposal or reuse);

4b) Fulfillment of Parts 1 and 2 from the ESMP checklist provided in Appendix 6 from ESMF, based on the information provided in the early prepared Environmental and Social Screening Checklist (Appendix 7 from ESMF) by the PIU and further elaborated:

- If relevant, where some information is up-dated during the process of project development, it shall be adequately presented in the Parts 1 and 2 from the ESMP Checklist.

4c) Propose most efficient Health & Safety scheme for project workers and users in communication with the User Committee of the beneficiary:

- For sub-projects for retrofitting of health care buildings to define a specific organizational scheme for regular work of the targeted institutions, without jeopardizing the daily activities, especially those for citizen' services; Discuss with the User Committee's the actual closure of smaller parts and propose temporary reallocation of services, if needed.
- Envisage direct or indirect hazards to public traffic and pedestrians by construction activities for all sub-projects and propose relevant mitigation measures in the Part 3 of the ESMP.

4c) Preparation of the project-specific Mitigation Measures of the ESMP as defined in the ESMF (updated ESMP will be provided to the pre-selected candidates in the ToR for the second stage), in the following manner:

- Collect necessary data for the proposed project site and consult the mitigation options from the relevant national environmental and social legislation for the specific parameters of the ESMP: Air quality, Noise, Water quality and waste-water discharge and treatment, Waste management, Toxic / hazardous waste management (including asbestos), Medical waste infrastructure and management, Protection of natural habitats, Cultural heritage and Land Acquisition Plan/Framework;
- Propose most relevant and site-specific mitigation measures for all above listed parameters within the ESMP matrix.

4d) Preparation of the project-specific Monitoring Plan of the ESMP as defined in the ESMF (updated ESMP will be provided to the pre-selected candidates in the ToR for the second stage).

4e) The completed ESMP Checklist document for each sub-project shall be submitted to the PSEEP PIU for review and approval. Upon the final approval by the PIU, the Contractor shall submit it in electronic and hard copy form. The completed ESMP Checklist shall be subject of a 30 days public disclosure concluded by a public consultation meeting, preferably combining few similar projects, using virtual technologies. The Contractor's Environmental and Social Experts shall participate to these public consultation meetings, more specifically: provide brief presentation of the ESMP including potential impacts and proposed measures, respond to public questions and prepare Minutes with conclusions. In cases there are acceptable revisions on the mitigation measures/monitoring plan, the Contractor shall update the ESMP with these revisions.

Final project-specific ESMP shall be submitted in three hard copies and one electronic version to the PIU within 5 days of the conclusion of the public consultation meeting.

IV. Reporting

A number of reports are scheduled to be provided over the course of the assignment. Although the level detail of those reports has already been described in general terms earlier in this document, a more comprehensive description is provided below:

-Inception Report, to be issued within two weeks from the signing of the contract. It shall: (i) further define the aims and objectives of the services to be provided; (ii) set out a detailed work program for the rest of the project; (iii) state when the fieldwork will take place for the site visit for the audit, (iv) identify potential problems to be overcome and possible solutions; (v) identify counterpart staff in the Client's office and other organizations; (vi) include a stakeholder analysis identifying other third party organizations involved in the project implementation process.

-Draft Final Report, to be delivered 4 weeks prior to completion of the contract period. These will provide an overview and measure of success of the project. They shall contain: (i) an overall review of the assignment; (ii) a description of physical progress, with reference to the program; (iii) explanations for differences between actual and forecast progress; (iv) a report on problems encountered and how they were overcome.

-Final Report, to be delivered 2 weeks prior to completion of the contract period or after comments on the Draft Final Report provided by the Client. The contents will be as for the draft report, with the incorporation of comments/suggestions from the reviewing parties.

All Documents need to be in Macedonian language, while the first Energy Audit and detailed reconstruction design and the summary of the EE Audit, and Summary of Detail Design shall be in English language as well. All approved energy audit reports, detail designs with specification and technical audit must be submitted as Hard Copy in three copies signed and stamped, one soft copy (including drawings in PDF plus AutoCAD format).

The detailed energy audit report has to be prepared by a licenced company that holds relevant licence for preparation of EE audits in accordance with the Macedonian positive laws.

-Facilities provided by the consultant: The Consultant must ensure that the professional staff has adequate support and equipment. All costs for equipment and administrative and logistic support will be within the jurisdiction of the Consultant including:

-All costs arising from the activities of its staff during the contract period, including accommodation, allowances, transportation, insurance, etc.

-Automotive, equipment, office supplies and hardware and software to ensure that the monitoring is fully functional;

-All communication costs, including fax, email, telephone, etc.

-All the equipment, instruments, services and logistical support required for the implementation of the contract, and any costs incurred during its preparation of documents and drafts, copying, printing, etc.

-Technical equipment at the monitoring site;

-Other equipment, instruments, services and logistical support necessary for the implementation of the contract.

Excellent written and spoken English and Macedonian is required. If the Consultant will require a translation service, it will be at his own expenses and the Consultant will be responsible for the accuracy of the translation.

The Consultant is required to obtain all the necessary permits, approvals, payment of all fees and contributions, as well as all the other elements necessary for the work of his professional staff who is engaged at his own expense for the performance of this Contract.

V. Deliverables and payment schedule

The deliverables for each task will be submitted to and approved by the PEESP/PIU. The consulting firm must obtain approval for each deliverable before moving to subsequent tasks. The table below summarizes the deliverables and includes an indicative timeline and payment schedule.

| Task | | Deadline (months after contract signing) | Payment (% of total payment) |
|------|---|--|------------------------------|
| 1 | Delivering complete detailed energy audit reports for both PHI Healthcare centre Skopje-Polyclinic Idadija and PHI University Clinic for Physical Medicine and Rehabilitation | 1 | 40% |
| 2 | Delivering complete detailed design for reconstruction with included environmental and social framework documents, and technical audits of the detailed designs for both PHI Healthcare centre Skopje-Polyclinic Idadija and PHI University Clinic for Physical Medicine and Rehabilitation | 3 | 60% |

VI. Timeline

The estimate time for this assignment will be from July 2022 and to be continued until the end of December 2022, subject of completion of the work contract and DLP period

VII. Experience and Qualifications of the Consultant

The Consultant should be a consulting firm with relevant project experience. The work should be undertaken by a consulting team consisting of experts who have following skills and credentials:

1) Economic and financial capacity of the Consultant

— The average annual turnover of the Consultant must exceed 150.000 EUR for the last 3 financial years each (2019, 2020 and 2021)

2) Professional capacity of the Consultant

Criteria for legal and natural persons:

- The Legal entity must possess valid Company License for conduct of energy audit issued by the Ministry of Economy of the Republic of North Macedonia
- For Lot 1, the Legal entity must possess valid Company License A for design issued by the Ministry of Transport and Communication of the Republic of North Macedonia

- At least 10 permanent staff working for the Consultant/JV

The work should be undertaken by a consulting team consisting of experts with below required skills and qualifications. The team will consist of minimum 9 key experts employed by the Consultant and supported by a subsidiary team of senior and junior non key experts. The staffing structure is as follows:

1. Project Manager/ Engineer

Qualification and skills:

- University degree

General professional experience:

- Minimum of 10 years of relevant working experience
- At least two projects as a project manager for an energy efficiency project
- Authorization A for preparation of design documentation issued by the Macedonian Chamber of certified architects and certified engineers
- Extensive experience in the field of energy efficiency

2. Civil engineer- 2 (two)

Qualification and skills:

- University degree in civil engineering, specialization in structural engineering

General professional experience:

- Minimum of 5 years of relevant working experience.
- Authorization A for preparation of design documentation issued by the Macedonian Chamber of certified architects and certified engineers
- Extensive experience in the field of energy efficiency will be evaluated as advantage.

3. Architect- 2 (two)

Qualification and skills:

- University degree in architecture

General professional experience:

- Minimum of 5 years of relevant working experience.
- Authorization A for preparation of design documentation issued by the Macedonian Chamber of certified architects and certified engineers
- Extensive experience in the field of energy efficiency will be evaluated as advantage.

4. Mechanical engineer -1 (one)

Qualification and skills:

- University degree in Mechanical Engineering

General professional experience:

- Minimum of 5 years of relevant working experience
- Authorization A for preparation of design documentation issued by the Macedonian Chamber of certified architects and certified engineers
- Extensive experience in the field of energy efficiency will be evaluated as advantage.

5. Electrical engineer-1 (one)

Qualification and skills:

- University degree in electrotechnical engineering.

General professional experience:

- Minimum of 5 years of relevant working experience
- Authorization A for preparation of design documentation issued by the Macedonian Chamber of certified architects and certified engineers
- Extensive experience in the field of energy efficiency will be evaluated as advantage.

6. Environmental expert-1 (one)

Qualification and skills:

- University degree in relevant technical science, or natural science such as: biology, chemistry, technology, environmental protection, geography, and similar;
- Certificate for Environmental Impact Assessment examination, issued by a relevant National Authority

General professional experience:

General professional experience:

- Previous experience in Environmental Impact Assessment studies/reports or Environmental Management Plans (Mitigation and Monitoring Plans with specific measures) for minimum 3 (re)construction projects funded by international finance institutions, preferably World Bank, EBRD, EU IPA, etc.

7. Social Expert -1 (one)

Qualification and skills:

- At least a university degree in social sciences, or other related field

General professional experience:

- Proven successful expertise in the last 5 years in preparation of social surveys and detailed reports;
- Proven successful experience in collaboration with government institutions including local self government (municipalities) and
- Proven successful experience with international financial institutions will be an asset.

Minimum two persons shall have Authorization for energy auditor issued by the Ministry of Economy of Republic of North Macedonia

Non key experts

Additional senior or junior experts required for the assignment will be defined by the candidate.

3) Technical capacity of the Consultant

References:

The reference period which will be taken into account will be the last 5 years from submission deadline.

— The Consultant/JV should have successfully completed at least 3 service contracts for design over energy efficient construction.

Required standards:

- ISO 9001: 2015

Required minimum access to equipment:

- Multifunction measuring instrument,
- IAQ probe-CO2 probe, humidity, temperature, pressure,
- Air flow measurement probe,
- U value temperature probe, triple sensor with wall mounting material,
- Light measuring probe,
- Wireless humidity probe
- And others equipment if is necessary
- 2 vehicles

Consultants may associate with other firms in the form of a joint venture or a sub-consultancy to enhance their qualifications. The “association” may take the form of a Joint Venture or a sub consultancy. In case of a Joint Venture (JV), all members of the JV will be evaluated jointly for the purpose of short listing and shall be jointly and severally liable for the assignment and shall sign the contract in case of award is made to that JV group. Interested consultants should clearly indicate the structure of their “association” and the duties of the partners and sub consultants in their application. Unclear expression of interests in terms of “in association with” and/or “in affiliation with” and etc. may not be considered for short listing. Keeping one expression of interest per firm as principle, a consultant firm may decide whether it wishes to participate as a sub consultant or as an individual consultant or as a partner in a joint venture.

Please note that a firm shall submit only one expression of interests in the same selection process either individually as a consultant or as a partner in a joint venture. No firm can be a sub consultant while submitting an expression of interests individually or as a partner of a joint venture in the same selection process. A firm, if acting in the capacity of sub consultant in any consultant or JV, may participate in more than one consultant, but only in the capacity of a sub consultant.