

**BOSNIA AND HERZEGOVINA ENERGY EFFICIENCY PROJECT-
FEDERATION OF BOSNIA AND HERZEGOVINA**

TERMS OF REFERENCE FOR CONSULTANCY SERVICES

**PERFORMING AUDIT OF PROJECT DOCUMENTATION
Sarajevo, Drvar, Mostar, Čapljina, Čitluk, Prozor**

**Contract No:
BEEP-P143580-CQ-15-CS-19-FBIH**

1. Background:

The Government of Federation of Bosnia and Herzegovina has received financing from the World Bank towards the cost of an Energy Efficiency Project. The project development objective is to demonstrate the benefits of energy efficiency improvements in public sector buildings and support the development of scalable energy efficiency financing models.

The project will consist of three components:

(1) An investment component: This component will support energy efficiency investments ('subprojects') in schools, hospitals and clinic centers. A small number of other public facilities (e.g., elderly homes, orphanages, other administrative buildings) may also be included. The component will finance energy efficiency upgrades,¹ as well as related technical consultancy services (e.g., energy audits, technical and social monitoring and evaluation, technical designs, supervision and subproject commissioning). The selection and implementation of subprojects will be conducted in three annual batches. The public buildings will be selected based on the payback period of energy efficiency investments (i.e. payback periods less than 8 years) and/or the significant energy savings potential, which were both identified as part of audits conducted;

(2) A component to support the development of scalable financing mechanisms and build capacity: This component will support the development of sustainable energy efficiency financing mechanisms in the public sector, strengthen implementation capacity and help to increase public awareness on energy efficiency;

(3) A component for project management: This component will ensure effective project management by the Project Implementation Unit (PIU) through financing additional experts, trainings for PIU staff, and covering incremental operating costs.

The PIU within the Federation Ministry of Physical Planning (FMPP) will be responsible for the preparation, coordination, management and implementation of the project, including procurement, contracting, and payments of all goods, works and services related to the project. This Terms of Reference (ToR) define the nature and detailed scope of an assignment to provide engineering services, which will include: the nature and detailed scope of an assignment to perform audit of project documentation/design.

¹ Eligible measures include upgrades to reduce the energy use of public buildings, including building envelop measures, heating and cooling systems, lighting, upgrading of electrical network if capacity is increased, and other financially viable energy efficiency measures.

2. Objectives

For the preparation and implementation of energy efficiency investments in public buildings (financed under Component 1 outlined above) in 2019, the PIU on behalf of the FMPP ('the client') intends to hire a Consultant Company ('the consultant') who will perform audit of project documentation/design.

The objective of the energy efficiency investments financed as part of the project is to demonstrate the benefits related to energy efficiency (EE), including reduction of energy consumption in selected buildings, demonstration of the economic viability of investments, including reduced recurrent energy costs and associated public expenditures. In addition, the energy efficiency improvements are expected to generate demonstrable co-benefits, such as reduced CO2 emissions and improved indoor comfort levels.

3. Description and Scope of Services:

3.1 GENERAL DEFINITION OF SERVICES

The services will be performed for the public buildings listed in Annex 1 of this ToR. The services to be provided by the Consultant are described in detail in section 3.2. The assignment will be executed through Task 1 which will be compensated on the basis of the Lump-Sum contract provisions.

The realization of the required tasks is the subject to availability of credit Funds to be obtained by the relevant Canton from the Federal Ministry of finance.

3.2 DETAILED SCOPE OF WORK

Task 1. Audit of project documentations (designs)

The Consultant will be responsible for preparing and delivering the documentation related to the Audit of Design to the Ministry of Physical Planning of Federation (FMPP).

The Consultant shall:

- Cooperate closely with the Consultant responsible for preparing the technical design (Design Consultant) and starting the audit of the design while the Design Consultant is working on and finalizing the Design/Project documentations;
- Verify and approve technical documentation and detailed technical designs, verify compliance of the design work in accordance with the provisions outlined in the terms of reference for the Design Consultant and with the applicable regulations;
- Carefully review and provide concise written comments, suggestions, or approvals to the Client and the Design Consultant on any revisions and improvements needed/suggested in the design documentation;
- Provide a lead auditor who is responsible for coordinating the components of the project documentation;
- Verify that the design documentation complies with the requirements relating to safety and environmental protection, mechanical strength and stability, noise and vibration, energy saving measures and fire protection;
- Submit a final Auditor's report (based on individual auditors reports), which includes suggestions that the Consultant for preparation of project documentation must adopt and incorporate into the project;
- Be available to the Client (or the Design Consultant) for questions in the scope of this task;
- Verify that the Consultant for preparation of project documentation adequately addressed and

integrated the suggestions and observations provided by the audit consultant;

The objects, for which development of Audit of design is required, are mentioned in Annex 1.

4. Output/Deliverables and Time Schedule:

The deliverables include the following documents for each building separately:

Task 1:

The deliverables include the following documents for each building:

- Individual audit reports (refers to audit report of technical documentation per building) of including all suggestions and comments on technical documentation;
- Report/approvals of the revised technical documentation confirming that all suggestions and observations of audit where adequately addressed, if necessary.
- The final audit report of review of the overall project documentation;

Individual Reports of audit shall be submitted in two (2) hard copies and one (1) copy on CD ROM (MS Word, Excel) in local language for each object..

Report / approval of the suggestions included in accordance with the audit observation must be submitted in two (2) printed copies and one (1) copy on CD-ROM (MS Word, Excel) in local language.

Final Auditor's report in two (2) hard copies and one (1) copy on CD ROM (MS Word, Excel) in local language.

The time schedule for the Consultant(s) is as follows:

- Individual audit reports shall be completed and submitted to the Client within 5 days from delivered Design draft documentation; ;
- Final Audit Reports with included suggestions in compliance with the individual Audit suggestions, will be delivered to the Client for 3 days from delivered revised Design documentation.
- Total number of work days is 45. Expected period of time is from July to August 2019.

5. Qualification requirements and basis for evaluation

The Consultant should be a qualified firm or joint venture of firms (up to 3 companies for a joint venture) that have demonstrated experience in conducting audit of project documentation/design. The firm must propose a team capable of successfully carrying out all aspects of the ToR with in-depth experience in executing similar consultancies. The Consultant shall demonstrate his capability to mobilize enough skilled staff for carrying out the project activities within the allocated timeframe and include all necessary engineering specialists as part of the proposal by including in the technical proposal the Curriculum Vitae of the proposed key staff, including educational background, relevant working experience in similar projects, and by confirming their availability during the period of the contract.

Interested consultants must provide information indicating that they are qualified to perform the services by fulfilling following requirements:

- Company information: name, registration, address, telephone number, facsimile number, year of establishment, contact person for the project, fields of expertise;
- Confirmation on no obligations relating to the payment of direct and indirect taxes in accordance with the relevant laws of Bosnia and Herzegovina (may not be older than three (3) months) or with the relevant law of the country from the EOI submitter;
- Hold a license from Federation Ministry of Physical Planning for Design or if not available will be obtained within 30 days as condition to sign the contract. Such consultant shall provide a confirmation along with the EOI that he will secure the license in case he is selected to submit technical/ financial proposals;
- Details of experience in minimum five (5) similar assignments undertaken in last five (5) years, including value of consulting services and value of works, location, name of the Client, type of services provided, contract period of execution;
- Curricula Vitae (short version, specifying experience in similar assignments, five (5) CVs of key personnel from various professions requested under such services) of key staff who will be working on the assignment(s) with minimum:
 - Team Leader, responsible for managing/overseeing the entire consultancy contract implementation; University degree (Master's equivalent) in architecture, or civil construction engineering or related field; minimum ten (10) years of experience in relevant field, including project management of similar assignments;
 - At least three (3) additional graduate architect and/or civil engineers with competency exam passed and at least five (5) years of work experience in relevant field;
 - At least one (1) graduate mechanical engineer with competency exam passed and at least seven (7) years of work experience in relevant field;
 - One (1) administrative assistant (support personnel, not needed CV);

ANNEXES

Annex 1 – Draft List of selected public buildings

Annex 2 – Detailed Energy audits for selected public buildings

Annex 1 – Draft list of selected public buildings

This annex includes the draft list of selected public buildings and might be a subject to change.

No	Building Name	Canton	Location	Selected scenario (ENG)	Heated area (m2)	Total investment estimation (BAM with VAT)
1.	JU Srednja škola za okoliš i drvni dizajn	Kanton Sarajevo	Vilsonovo Šetalište 1, Sarajevo	Scenario I (S2): (M1) Thermal insulation of the exterior walls, (M2) Thermal insulation of the roof, (M3) Windows and doors replacement; (M4) Installation of thermostatic sets. (M5) Mounting frequencies. regulated circ. pump, (M6) Installation of TRVs (M7) The heating system of regulation and control (M8) Lighting replacement (CFLs)	2639	490.994,00
2.	Osnovna škola „Drvar“	Kanton 10	Pionirska b.b.	Scenario (S2): EE-measures: (M1)- Thermal insulation of the ceiling; (M2)- Thermostatic valves; (M3)- Energy management team; Non-EE measures: Lightning rod installation; replacement AL windowsills; horizontal and vertical gutters replacement	5893	123.001,80
3.	JU Srednja prometna škola/ srednja mašinsko - saobraćajna škola	HNK	Dr. Mile Budaka 26, Mostar	SCENARIJ II (S2): (M1)-Replacement of the windows (M2)- insulation of external walls, (M3)-insulation of the ceiling above heated area, (M4)-Installation of new boiler on pellets and central heating system accessories, construction of new boiler room and installation of radiators in side building (M5)-replacement of lighting	2900	360.990,67
4.	Dom zdravlja Čapljina	HNK	Fra Didaka Buntića bb, Čapljina	SCENARIO I S1: (M1) Thermal insulation of external walls (M2) Replacement of the facade opening, (M3) Thermal insulation of ceilings above heated area, (M4) Partial replacement of the lighting	2471	263.473,57
5.	Dom Zdravlja Čitluk	HNK	Stjepana Radića br.3	SCENARIO II S2: (M1) Thermal insulation of a flat roof, (M2) Replacement of external openings (M3) Thermal insulation of external walls and the walls of unheated	2004	243.040,00

				rooms		
6.	JU Srednja škola Prozor-Rama	HNK	Kralja Tomislava bb, Prozor	SCENARIO II (P2): (M1) - thermo-insulation of the facade; (M2) - thermo-insulation of the ceiling under the sloping roof; (M3.3) - installation of a new pellet boiler (M4) – Partial lighting replacement	1905	229.192,25

Annex 2 – Detailed Energy audits for selected public buildings