



UNITED NATIONS DEVELOPMENT PROGRAMME TERMS OF REFERENCE / INDIVIDUAL CONTRACT

I. Job Information

Job title:	International Consultant on Energy Efficient and Low-Carbon Building codes
Type:	Individual Contract
Project Title/Department:	UNDP/GEF "Market Transformation for Sustainable Rural Housing in Uzbekistan"/Sustainable Development Cluster
Duration of the service:	20 w/d during March – October 2019
Work status (full time /part time):	Part time
Duty stations:	Based on desk work in home-country and with one mission to Tashkent, Uzbekistan
Expected travel site:	1 mission (5-7 days) to Tashkent, Uzbekistan and work in the project office
Reports to:	Project Manager

II. Background Information

The objective of UNDP/GEF and the Ministry of Construction of the Republic of Uzbekistan project is to support the Government of Uzbekistan in provision of rural population in the country with improved, affordable and environmentally friendly living conditions. The project design builds directly on previous and ongoing experience with sustainable, low-carbon and climate-resilient local development in Uzbekistan. Specifically, the project aims at lowering the energy intensity trajectory of Uzbekistan by promoting the construction of new energy-efficient and low-carbon rural housing.

The project consists of four inter-linked outcomes. The first outcome is the establishment of the green mortgage scheme to incentivize and eventually scale-up the demand for low-carbon housing. This outcome will be supported and enabled by three complementary outcomes related to strengthening domestic supply chain and capacities for construction of low-carbon housing (Outcome 2), introducing policies and regulations for low-carbon housing and settlements (Outcome 3) and raising public awareness about benefits and advantages of low-carbon housing (Outcome 4). One the priorities of the project Component 3 is to rework building codes with the aim of improving energy efficiency requirements of new buildings. The project plans to continue to rework building codes in 2019. The works will be contracted to a specialized design firm (a contractor).

Under the overall supervision of the Project Manager, and the direct supervision of the Task Manager on Building designs, codes and standards, the International Consultant will assist the team of national experts in reworking of building codes and regulations to introduce energy efficiency (EE) and low-carbon (LC) standards and requirements for residential housing through fulfilling the following tasks.

III. Functions / Key Outputs Expected

- Provide inputs/recommendations to the team of national experts on reworking the two building codes: KMK 2.03.13-97 "Floors"; KMK 2.03.10-95 "Roof and Roofing" to incorporate the reasonable energy performance standards;
- Provide inputs/recommendations to the team of national experts on development of a new building code "Installation of photovoltaic solar panels and stations" based on the best practices and standards adjusted to the climate and environment in Uzbekistan;
- Contribute to development of four manuals for the developed/reworked building codes: KMK 2.01.04-18 "Construction Heat Engineering»; KMK 2.04.16-18 "Installation of solar hot water

supply"; KMK 2.01.18-18 "Standards of energy consumption for heating, ventilation and air conditioning of buildings and structures"; "Installation of photovoltaic solar panels and stations";

- Identify training needs of national experts/young professionals responsible for development/reworking of the energy efficient and/or low-carbon building codes and manuals; based on which design and conduct one training workshop for national experts and young specialists; provide proposals on relevant trainings and study programmes;
- Formulate recommendations for capacity building of young professionals specialized in development of building codes;
- Develop brief manual for students and young specialists on drafting/developing of modern EE building codes with main principles, sources of information;
- Analyze the first edition of the three building codes KMK 2.03.13-97 "Floors"; KMK 2.03.10-95: "Roof and Roofing"; KMK "Installation of photovoltaic solar panels and stations"; and provide suggestion on their improvements, if any;
- Review the final version of the developed/reworked building codes and the manuals and verify their compliance with the TOR requirements.

IV. Timeframe and fees

The following deliverables and indicative schedule are expected from the consultancy contract. Exact dates of beginning and completion stages as well as scope of works for each phase can be corrected by Project Manager based on reasonable justification by the consultant. The project reserves the right, if necessary, to amend the terms of reference of a consultant on a written agreement. The final schedule will be agreed upon in the beginning of consultancy assignment. All deliverables should be submitted to UNDP by the Consultant in Russian both in hard and e-versions and then approved by the project team and UNDP SDC.

#	Deliverables	Timeframe	Payment
1	Report included recommendation on reworking/development of energy efficient/low-carbon building codes and manuals developed, submitted cleared by Task Manager on Building designs, codes and standards and approved by Project Manager (8 w/d and 40% of the total assignment scope of work).	30 April 2019	40%
2	Report on mission and training workshop conducted that includes findings and recommendations on capacity building of national experts and young specialists and proposals on relevant trainings and study programmes developed, submitted cleared by Task Manager/Building designs, codes and standards and approved by Project Manager (3 w/d and 15% of the total assignment scope of work).	15 June 2019	60%
3	Brief manual for students and young specialists on drafting and developing of modern EE building codes with main principles, sources of information developed, submitted cleared by Task Manager/Building designs, codes and standards and approved by Project Manager (3 w/d and 15% of the total assignment scope of work).	15 August 2019	
4	Report on analysis of the first edition of three building codes and manuals with recommendations on their improvements (if any required) developed, submitted cleared by Task Manager/Building designs, codes and standards and approved by Project Manager (4 w/d and 20% of the total assignment scope of work).	15 September 2019	
5	Report on the final version of the building codes and the manuals and their compliance with the TOR's requirements developed, submitted, cleared by Task Manager/Building designs, codes and standards and approved by Project Manager	31 October 2019	

	(2 w/d and 10% of the total assignment scope of work).		
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This is a lump sum contract that should include costs of consultancy and other related costs, if any, required to produce the above deliverables, including one mission to Tashkent in 2019 (5-7 days). Payment will be released in 2 (two) installments (40% and 60%) upon timely submission of respective deliverables (# 1, and #2, 3, 4, 5 respectively) and their acceptance by Project Manager and UNDP SDC.


V. Recruitment Qualifications

Education:	Master's degree in the following areas: civil engineering, construction engineering, architecture.
Experience:	<ul style="list-style-type: none"> ○ At least five (5) years of proven working experience in development/enforcement of energy efficient and low-carbon building codes and regulations; ○ Proficient in energy efficiency in buildings; ○ Sound knowledge of procedures related to development, application and enforcement of energy efficient and low-carbon building codes and regulations; ○ Proven experience in training needs assessment and conducting relevant trainings; ○ Proven experience with similar assignments in the CIS countries; experience in Central Asia region is an asset; ○ Sound knowledge of best international practices and energy efficiency standards and regulations; ○ Proven working experience with international development organization in promoting energy efficiency in buildings is an asset.
Language Requirements:	Proficiency in Russian. Knowledge of English is an asset.
Other:	<ul style="list-style-type: none"> ○ Strong analytical skills, result-orientation; ○ Ability to perform under tight deadlines and timely delivery of good-quality products; ○ Ability to work in a multinational environment and establish good personal contacts; ○ Ability to use information and communication technology as a tool and resource; ○ Knowledge of spreadsheet and database packages, experience in handling of web-based management systems; ○ Understanding of local conditions and ability to work with local professionals.

UNDP is an equal opportunity employer. Qualified female candidates, people with disabilities, and minorities are highly encouraged to apply. UNDP Gender Balance in Management Policy promotes achievement of gender balance among its staff at all levels.

VI. Signatures - Post Description Certification

Incumbent (if applicable)

Name	Signature	Date
Dosbergen Musaev Project Manager	Signature 	Date 11.02.19

