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| Programme: | Management of natural resources and safeguarding of ecosystem services for sustainable rural development in the South Caucasus (ECOserve) 12/18-11/21 |
| PN: | 2018.2062.0-002.00 |
| Assignment: | Baseline data collection and analysis – Energy demand, supply and efficiency, Armenia |
| Period: | 15.02.2018 to 30.05.2019 |

1. **Brief programme information and context**

The programme “Management of natural resources and safeguarding of ecosystem services for sustainable rural development in the South Caucasus” (ECOserve) is part of the wider German support in the priority area “Environmental policy, conservation and sustainable use of natural resources in the South Caucasus”.

The objective of ECOserve is to improve the conditions for the sustainable and biodiversity-friendly use of natural resources in the prevailing land-use systems in the South Caucasus, with a special focus on energy security for the rural population.

The main target groups of ECOserve are state and private groups of resource users in rural areas of the South Caucasus, especially farmers, shepherds, state forestry enterprises and rural households that use fuelwood or manure as a source of heating energy.

In Armenia, the Ministry of Territorial Administration and Development (MoTAD) is the lead executing agency, with the Ministry of Nature Protection (MoNP) and the Ministry of Agriculture (MoA) as implementing partners.

ECOserve is a new programme and not a successor programme of the IBiS programme (Integrated Biodiversity Management in the South Caucasus). Nonetheless, ECOserve builds on the experiences of ongoing and past projects.

In Armenia, ECOserve will focus on the dominant land use forms such as sustainable pasture management and forest management as well as sustainable energy supply in rural areas. Pilot regions of ECOserve are mainly located in Northern Armenia, including Aragatsotn and Shirak regions (marzes) as well as selected communities and forest enterprises to be determined.

In the frame of this study, the following output is of particular importance: “One marketable approach is promoted for more efficient use or substitution of firewood or dung as a source of heating energy that addresses the specific benefits of women (e.g. indoor air quality, room temperature, firewood procurement legality).”

The consultant team will consist of one international consultant (lead) and one national consultant.

1. **Objectives and tasks**

The objective of the assignment is to have a comprehensive overview of the energy demand, supply and efficiency in Armenia, both, at national, as well as at regional (pilot regions) level and focusing on rural areas and aspects related to the use of natural resources:

* Availability and use of fire wood, manure and renewable biomass for energy purposes
* Identification of marketable products for more efficient use or substitution of firewood or manure
* Identification of special needs and concerns of women related to energy supply and energy security (indoor air pollution, legality of fire wood etc.)
* Analysis of donor landscape and potential synergies as well as lessons learnt related to energy efficiency in Armenia

The national consultant is expected to support the international consultant during the different parts of the assignment, in particular:

* Data collection and analysis according to agreed standards and methodologies
* Meetings and interviews with relevant stakeholders, incl. travel to regions
* Joint preparation of workings meetings and workshops
* Assistance in reporting and aggregating results and findings.

The following steps have to be applied in order to ensure reliable data quality:

Collection of data: Screening of all available primary (official statistics, government surveys etc.) and secondary (studies, reports etc.) sources to identify the required data and information. In case the data is not available, conduct specific data and information collection via surveys, focused group discussions or interviews with relevant persons (households, governments, experts etc.). In case primary data cannot be generated, develop sound assumptions with justifications and clear methodologies. The collection and/or derivation of data and the respective methodologies have to be well documented (format to be agreed upon with GIZ and international expert at the start of the assignment). Wherever possible, data and information need to be gender-differentiated.

Verification of data: Verification of primary, secondary and developed data/information as well as of the assumptions is therefore crucial. The consultant(s) ensure that all data/information are verified and quality proofed, and, if possible are triangulated and checked / backed up by more than one independent source. All sources need to be referenced and checked.

Analysis of data: To develop a clear project narrative based on sound analysis of data and information, certain analyses of collected and verified data and information might be necessary. The scope and level of detail for analyses will be defined at the beginning of the assignment together with the international expert and GIZ.

**The detailed tasks in the frame of this assignment are:**

Task 0: Joint discussion and agreement on detailed work plan and outputs.

Based on the ToR and the technical offer provided by the successful candidate, the team composed of international and national consultant, GIZ advisors and relevant partners will discuss and agree on the detailed work plan, deadlines and deliverables, as well as involvement of different stakeholders.

Task 1: Collection, verification and analysis of data and information on the energy supply and efficiency profile.

The consultants will collect, verify and analyse data and information on the energy supply and efficiency profile at national level (aggregated by regions) and for the pilot regions

* Energy supply/efficiency profile data and information encompasses the key sources of energy supply for heat and hot/water in rural areas (level of gasification: current situation and plans for the future; overview of prevailing energy conversion technologies (e.g. stoves) in use: performance characteristics (efficiency range), source of production; fuelwood supply: sources, channels, type of wood; use of manure and/ or other fuel materials); prices and affordability of different fuel sources.
* All data and information need to be disaggregated by gender and regions

Task 2: Collection, verification and analysis of data and information on the energy efficiency and alternative fuel market profile on national level.

The consultants will collect, verify and analyse data and information on the status of local markets for energy efficiency (EE) and alternative fuel (AF) solutions for EE/AF application in rural areas (households, SMEs, public buildings). This entails producers, range of products, product characteristics, process, volumes of production and sales, size of enterprises, existence of certified products etc. Potential products to be analysed are energy efficient stoves and heat exchangers, building insulation materials, solar water heaters, briquettes.

Task 3: Collection, verification and analysis of data and information on the special needs and concerns of women related to energy supply and energy security (indoor air pollution, legality of firewood procurement etc.)

Task 4: Collection, verification and analysis of data and information on past and ongoing initiatives of the Armenian government, international and national institutions in the sector.

The consultants will collect, verify and analyse data and information on past (back to 2010) and ongoing projects in the energy sector including summaries of existing evaluation reports and lessons learnt, which relate to the topics of ECOserve. This entails projects for technical and financial assistance as well as governmental support programmes and subsidies in the energy sector. The report shall contain an assessment of the current strategy for rural energy supply/energy efficiency by the government (including the list of acting framework documents and their brief summary), as well as recommendations for its improvement.

Task 5: Workshop with relevant stakeholders: Preliminary results of the study shall be shared and discussed with relevant stakeholders from ministries and other institutions.

The consultant team will be responsible for planning and supporting the required assessments and dialogues with stakeholders (beneficiaries, funding partners, national counterparts, local authorities; co-financing institutions and potential implementation partners) and the timely delivery of the agreed documents. They will coordinate their work with assigned project staff. The work of the consultants will build on the project design (proposed module) of ECOserve.

1. **Expected outputs**

* Contribution to technical report (max. 30 pages including key graphs and tables, without annexes) covering the tasks defined in section 3 of the ToR
* Contribution to factsheet (2-3 pages) summarizing the main figures and results, with graphics/ illustrations
* Documentation of workshop

All documents shall be delivered electronically in English language to GIZ, using the official ECOserve reporting format. The consultants shall work in close collaboration with Caroline Wegner and Siranush Galstyan (GIZ advisors).

The consultants shall report to Tobias Wittmann (Team leader Armenia).

1. **Time frame and work schedule**

The maximum total working days for the national consultant under this assignment is **up to 22 working days**.

The consultants have to follow the deadlines for submission of deliverables, as follows:

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| **Task** | **Working days per task (international + national consultant)** | **Working days of national consultant**  **(up to)** | **Submission deadline** |
|  | **(up to)** |
| Task 0: Joint discussion and agreement on detailed work plan and outputs | 4 | 2 | 15 February 2019 |
| Task 1: Collection, verification and analysis of data and information on the energy supply and efficiency profile (national level & pilot regions) | 20 | 10 | 30 March 2019 |
| Task 2: Collection, verification and analysis of data and information on the energy efficiency and alternative fuel market profile on national level. | 10 | 4 | 30 March 2019 |
| Task 3: Collection, verification and analysis of data and information on the special needs and concerns of women. | 5 | 2 | 30 March 2019 |
| Task 4: Collection, verification and analysis of data and information on past and ongoing projects of international or national institutions in the sector. | 5 | 2 | 30 March 2019 |
| Task 5: 1-day workshop with relevant stakeholders to share and discuss results | 4 | 2 | 30 March 2019 |
| **Total days up to** | **48** | **22** |  |
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1. **Requirements on the format of the offer**

The interested candidate shall submit a motivation letter and an up-dated CV, as well as (in a separate envelope) a financial offer.

1. **Qualification requirements for the national consultant**

* Master’s degree or higher in energy, environment, economy or natural resources
* Professional working experience (minimum 5 years) in energy policy and in/with sector institutions in Armenia
* Successful track record in energy policy analysis, design and/or advice
* Demonstrated professional experience with energy and sustainable management of natural resources in rural areas of Armenia
* Excellent Armenian and English language skills (i.e. full proficiency in understanding, speaking and writing)