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## **TERMS OF REFERENCE (TOR)**

**To conduct a baseline study for the implementation of a IA ICS and Solar projects in Tigray & SNNPR regional states**

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**Project:** Energising Development (EnDev) Ethiopia

**PN:**

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### **1. Background Information and Project Objective**

The Energising Development (EnDev) Ethiopia is supporting the improvement of access to modern energy services in Ethiopia in the framework of the Energising Development (EnDev) Partnership, which is jointly funded by the Netherlands Directorate-General for International Cooperation (DGIS), the German Ministry for Economic Cooperation and Development (BMZ), the Norwegian Ministry of Foreign Affairs (MFA-N), Australian Government Department of Foreign Affairs and Trade (DFAT), the UK Department for International Development (DFID), and the Swiss Agency for Development and Cooperation. Irish Aid, several times, has provided co-funding to the EnDev country activities in Ethiopia.

GIZ EnDev is working closely with the Ministry of Water, Irrigation and Energy (MoWIE) in the implementation of the programme, providing technical assistance and cooperating with governmental and non-governmental organisations, private institutions and enterprises, as well as cooperatives and rural communities.

In December 2014, IA and GIZ signed a letter of agreement to extend their cooperation to the field of off-grid lighting in Tigray and SNNPR with a project phase of December 2014 to December 2016. An additional MoU with a respective letter of agreement is expected to be signed in February 2015 on the promotion and dissemination of improved cook stoves (ICS) for a period of 3.5 years until mid 2018. This is in line with Irish Aid's country strategy 2014-2018 to mainstream and engage with environmental and climate change issues which can all have a major impact on the poor.

The overall objective of the project is to contribute to regional energy sector development and CRGE implementation in SNNPR and Tigray and to improve the livelihood of rural households by providing access to modern energy technologies. At the end of the project 180,000 ICS, 28,000 solar lanterns and 350 SHS shall be disseminated and installed, 16 SME and/or

cooperatives trained and supported and up to 25 social facilities e electrified with SHS benefiting 450,000 people with ICS and 57,750 people with pico-PV.

Specific objectives of the projects are:

- To enhance access to improved, clean and efficient cook stove technologies for poor, rural HH in selected woredas by supporting dissemination and promotion of ICS and diversifying fuel sources through support of briquette fuel production schemes.
- To enhance access to small PV technologies for the targeted rural households by supporting their dissemination and promotion.
- To install small PV systems at social facilities such as schools, health posts and community centres so that they can offer improved services (e.g. use of medical equipments that run on electricity; have access to information and communication technologies, etc.).
- To mitigate the emission of CO<sub>2</sub>, other harmful emissions and hazardous waste and contribute to the successful implementation of the CRGE strategy in SNNPR and Tigray.

## **2. General Objective of the Assignment**

The overall objective of the study is to provide EnDev Ethiopia with a baseline survey on the current situation of access to modern energy service (for cooking, baking and lighting) and the socio-economic conditions in the selected woredas of SNNP and Tigray region that serve as yardstick for the evaluation for the socio-economic impacts of the conducted measures within the project.

### 3. Specific Objectives of the Assignment

#### 3.1 Improved Cook Stoves (ICS)

- To collect and establish social data of HH in the intervention woredas in SNNP and Tigray regions, specifically education, health and economic well-being data need to be established primarily.
- To collect current data and information in cooking energy supply and demand situation,
- Sources of acquisition and utilization patterns and marketplace dynamics of cooking fuel
- To review and assess biomass production and supply for the selected Woredas
- To gather Information on marketing situation of ICS such as accessibility, affordability willingness to pay, and acceptable price for ICS
- Quantify percent woody biomass that comes from Non-Renewable Biomass (NRB) resource base.
- To assess the framework conditions of the private business sector on energy saving stoves
- Propose a strategy to develop a sustainable private business sector on energy saving stoves.
- To assess the number of actors/players and identify the level of coordination and involvement at the regional level.
- To assess the environment in the rural communities and the possibility of using CBOs (like cooperatives) to promote ICS
- Identify the level of capacity BoWME and RAME in both regions in developing and managing component project activities (CPAs) under the CDM.
- Identify and propose capacity building measures for BoWME and RAME in both regions in developing and managing component project activities (CPAs) under the CDM.

### 3.2 Solar PV

- To collect and evaluate socio-economic data of households (HH) in the intervention woredas in SNNPR and Tigray, specifically on education, health and economic well-being.
- To collect actual data and information on the level of energy supply and the demand situation of lighting/mobile charging.
- Source identification, on existing utilization patterns and marketplace dynamics of lighting, charging and other uses of energy services, in order to gather information on the current market situation for Pico-PV and SHS, such as accessibility, affordability, willingness to pay and price acceptance.
- To assess the framework conditions of the private business sector in the field of pico PV and SHS in order to propose a tangible strategy for the development of sustainable private businesses in that sector.
- To assess the number of actors, players and stakeholders in the sector and to identify the existing level of coordination and cooperation at the regional level.
- To assess the framework conditions in the rural communities for the possibility of using CBOs (like cooperatives) to promote pico PV and SHS.
- To explore and identify the current market level of pico PV and SHS within the regions.

## 4. Scope of the Work

The baseline survey will be conducted in 6 woredas of SNNP and 4 woredas of Tigray regions. The study team will work in close coordination with EnDev central office, SNNP and Tigray regional technical experts, regional and Woreda level energy bureaus and offices, and other relevant regional partners.

## 5. Result / Report

The consultant shall provide the baseline study report in English after the fieldwork phase and an evaluation of data collected. The report shall follow a structure that will be agreed initially. The report shall be presented and submitted to EnDev for comments and adjustments. Comments shall be integrated and final results presented in Addis Ababa and two copies of hard copy final report will be submitted.

The electronic report (in .doc and .pdf format, used graphs in excel format) will be forwarded to EnDev Ethiopia.

## **6. Responsibilities of the consultant**

- Assign qualified personnel to execute the intended tasks
- Be committed to all points (the time frame, the steps of the study, deliverable etc.)
- Present inception report of the study with action plan and time frame of the survey for review and approval
- Prepare the baseline survey framework, instruments and methodologies (The exact determination of the cornerstones of the survey design, such as the sample size, selection of the sample)
- Collect data, conduct interviews, and analyse data
- Conduct the baseline survey as per the technical proposal
- Present the finding of the assessment to the project
- communicate as well as provide progress reports to the observing body mentioned under 'Section 9' of this ToR
- Avail all equipment required for field work (internet, phone, GPS, etc.)
- Produce draft baseline survey report in English
- Provide presentation of initial findings to EnDev Ethiopia
- Finalize report for submission to EnDev Ethiopia
- Derive in coordination with EnDev Ethiopia recommendations for the adaptation of the findings in order to support the project design, implementation as well as monitoring and evaluation of the project

## **7. Responsibilities of EnDev Ethiopia**

- Provide related studies and literature/documents for the preparation phase.
- EnDev Addis Ababa and the regional EnDev manager and senior experts support the contractor with the information and local contact.
- Evaluate the inception report, survey design, methodology and instruments (questionnaires and interview guides) developed by the consultant.
- Ensure both qualitative and quantitative methods in field research will be used by the consultant under the guidance of the senior expert.
- Contact and inform regional, Woreda level energy bureaus and offices, and other relevant regional partners.
- Provide transport in to and within the survey regions.

## 8. Time Frame

- The survey will be conducted within 35 working days. Including data collection and report writing.

## 9. Assignment managed by

GIZ – EnDev Ethiopia, for further clarification you can communicate with

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