

Energising Development (EnDev) Rwanda
TOR for short term expert assignment
Village Grid Consultant

1. Background

EnDev Rwanda is promoting small-scale village grids in rural Rwanda, providing a financial incentive to companies that aim to invest into small-scale power generation and distribution based on renewable energy technologies (mainly hydropower and PV). Companies have to apply to Urwego Bank (UB) who implements the programme on behalf of EnDev Rwanda. EnDev needs to support UB with the technical due diligence of the proposed projects and the local companies with technical feedback on their village grid proposals.

2. Objective

An experienced consultant with electrotechnical background and significant experiences in the planning and technical design of PV-battery-diesel hybrid minigrids will provide detailed technical feedback on technical aspects of PV village grid proposals based on a pre-assessment conducted by EnDev Rwanda. The feedback will comprise recommendations to EnDev Rwanda regarding the acceptance or refusal of the proposal and to project developers regarding possible technical improvements of their design.

3. Detailed scope of work

Service delivered to EnDev:

- Provide for each PV proposal detailed technical feedback and recommendations on quality and necessary improvements regarding
 - a. the modelling and sizing of power generation & distribution and the supply/demand match,
 - b. the quality and appropriateness of the proposed equipment and,
 - c. the cost efficiency of the proposed budget, and
 - d. the safety for employees and customers.
- Share technical knowledge of PV village grid systems upon EnDev request
- May Conduct site visits on EnDev's request for a detailed technical assessment of project developers proposals or project evaluation.

The consultant is provided with access to all available documents pertaining to the projects, beside the project proposals also any data so far collected and project related templates and check lists.

4. Timeline and deliverables

Month	Activity	Deliverable
January – June 2018	Detailed technical feedback and financial analysis on all project proposals providing recommendations to EnDev (acceptance or refusal of proposal) and feedback to the project developer.	<ol style="list-style-type: none"> 1. Commented proposal and system modelling results 2. Commented application checklist.

January – June 2018	Project developers with uncomplete/sub-standard proposals get 30 days to improve and resubmit their proposals. If required, the consultant will then recheck the improved proposals.	3. If required, comments on improved application

Notes:

1. The consultant will review the proposals on the companies delivery basis .
2. The duration of the consultancy work can be extended depending on the number of the available proposals.

5. Budget proposal

For the implementation it is assumed that the consultant will be based in Rwanda although he/she will be home based and dedicate in average up to two day per proposal. For additional feedback on improved proposals, up to additional 2 days are foreseen (up to 10 days in total).

6. Profile of the consultancy

The bidding consultant should present a relevant track record of at least 10 years of experience in the field of technical design and engineering PV-battery-diesel hybrid minigrids:

- Electrotechnical background, with strong analytical skills and experience in design and engineering.
- Involvement in the design and construction of more than PV-battery-diesel hybrid minigrids.
- A minimum of 10 years' experience in the field of PV-battery-diesel hybrid minigrids in developing countries.

Application deadline

The consultant shall submit a curriculum vitae, references as well as a full financial offer based on a daily rate. All legal registration information shall be included in the offer in a sealed envelope until 24th November 2017 at 16h00.

to:

GIZ Country Office Rwanda
KN 41 Str. / Nr.17, Kiyovu
Kigali

NB: the financial offer must be in RWF and prices must be taxes excluded.

For any other information , do not hesitate to ask , send email to : procurement-rw@giz.de