

TERMS OF REFERENCE

Title of the assignment:	Install a '6KWp Community Based Solar Power Grid with extension power line to 100 households' in an off-grid villages at Chilmari sub district in Kurigram district.
Specific tasks :	Intall a 6KWp Community Based Solar Power Grid in offgrid villages covering the 100 Households including – <ul style="list-style-type: none"> - Plant location study - Plant PV and power house construction - Power house cablees - Accessories inatllation amd electronic items etc.
Area/Location:	Koraibarishal & Bisharpara village, Chilmari Union, Chilmari, Kurigram, Bangladesh
Period of assignment / services:	March 1, 2019 to April 30, 2019
Deadline for Applications:	January 17, 2019
Language:	English

This exercise is part of Habitat for Humanity Bangladesh – HFHB’s one ongoing project namely ‘Improving living condition of poor people through Ahmad Family Fund in Bangladesh project’. The objective of this activity is to ensure acces the electricity to 100 vulnerable households of off-grid char areas with a low cost in Chilmari union under Kurigram District prioritized area for solar energy by the Bangladesh govt.

A. INTRODUCTION OF HABITAT FOR HUMANITY – BANGLADESH:

Habitat for Humanity International is a non-profit ecumenical Christian organization dedicated to eliminating substandard housing and homelessness worldwide established in 1976, has been active in more than 77 countries and territories. HFHI’s vision ‘a world where everyone has a decent place to live’ and mission is to promote sustainable development and adequate housing for all, by working in partnership with local people and organizations regardless of caste, race, ethnicity or religion. HFHI’s program gives low-income people a unique opportunity to improve their lives.

Habitat for Humanity International - Bangladesh (HFHB) was established in 1999 and operates through project offices and partners to provide support to those most in need. We work closely with communities, volunteers, partner’s organizations, NGOs and government, taking a holistic approach to development. To date Habitat Bangladesh served more than 13,000 families by hardware and more than 80,000 individuals through trainings under regular housing, WaSH, DRR and urban programs.

B. GENERAL BACKGROUND AND UNDERSTANDING THE CONCEPT:

In Bangladesh, rural people are devoid from basic utility services like electricity for minimum living standard. The shortage in the power grid and limited access to resource are the key barriers. Thus, rural people struggle to lead their life without the benefits from electricity. In off grid villages maximum residence are using kerosene lamp and few are using candle to survive at night. It creates massive environmental hazards of carbon emission by using kerosene lamp and candle and it creates health hazards too. Even maximum villagers are unable to use kerosene lamp and candle for their children education purpose during evening due to its cost and it's a big threat for ensuring quality and sustainable education and this challenge also works for promoting early marriage. Therefore, this initiative will reinforce the child education, adolescent, women and children protection in night time and alternative livelihood support for women (handicrafts, tailoring etc.). Besides, often fire hazards and burns happen due to kerosene lamp and candle using and loss everything even lives.

The people feel insecure particularly in the night time due to no electricity. As the government does not have immediate plan for providing electricity/power support to the project area. The vulnerable people who are detached from facilities from the government whereas they have excellent contribution in agricultural ground.

On the other hand, a big portion of rural households in **Bangladesh** still do not have access to grid electricity and thus life almost comes to a standstill after sunset. Even for those connected to the grid, power generation capacity constraints due to lack of generation capacity, and fluctuations in demand result in frequent power-cuts. Reliance on grid electricity alone will not allow the government of Bangladesh to realize its vision of universal access to electricity by the year 2020, mainly due to geographic and access limitations. Furthermore, the dispersed nature of rural settlements and the numerous rivers that crisscross the country make grid electrification in many areas difficult and expensive. In areas not connected to the grid, solar power is the most viable and sustainable way to provide power.

In the remote rural areas, where grid electricity is not economically viable, the project is aimed to create a unique opportunity to get solar light supports at individual level in two targeted villages named Karaiborishal and Bishaipara in Kurigram, Bangladesh. Meanwhile a field visit and FGD was conducted in October 2018, where 350 households were identified with limited or no electricity/solar panel and more than 100 HHs have been selected to get the solar support and it was selected by the CBO. The project is implemented by Habitat for Humanity International with the support of Ahmad Family.

C. SCOPE, RESPONSIBILITIES AND DESCRIPTION OF THE PROPOSED ASSIGNMENT:

The project leads to improving living condition of the poor peoples, will help establishing a Community Based Solar Power Grid (CBSPG). The consultant/vendor/agency will have capacity and experience in similar works and project implementation. The consultant firm will have to work closely with HFH and CBO to implement the assignment. One Community Based Solar Power Grid (CBSPG) will be installed in proposed location. The consultant will

have frequent visit to the selected villages to have meeting with CBO and targeted community. The consultant is responsible to form a combine group from CBO and local community who will be involved in the whole process and its maintenance after installation. Individual HHs visit will be made by the consultant selected where CBO will assist as required. Since the project is planned to cover 100 HHs who will get its connection. Before that an orientation/gathering will take place among the targeted beneficiaries as how they will use and its maintenance. The Consultant will provide an operation and its maintenance training towards the selected members as well as will be responsible for providing maintenance support up to June 30, 2020. Mahideb Jubo Somaj Kallyan Somity (MJSKS) a local NGO working in Kurigram will provide necessary support to the project.

The major activities are as below;

S. L	Activity	Quantity
1.	Meeting with CBO and local community	2/3
2.	The solar plant feasibility assessment	1
3.	Plant PV and power house construction	1
4.	Power House and cable distribution	1
5.	Installation accessories	100 HH
6.	Electronic Items installation	100 HH
7.	Capacity building to selected members on solar panel operation and maintenance	1

The outcome of 6KWp Community Based Solar Power Grid Installation in off grid villages;

Total 100 households will be benefited from installation the Community Based Solar Power Grid (CBSPG). Reduced extra cost for lighting support it was for keroshen and candle and helped to purchase required food or non food. Reduced fire incedents and its vulnerabilities, during movement in evening / night time women, adolosent and chidren are protected. Children are self motivated and conitune their education.

D. Expected Deliverables:

Deliverables under this assignment will includes the following;

1. Feasibility assessment report
2. Community Based Solar Power Grid (CBSPG) installation in selected project area report
3. Capacity building and technical support to selected members on operation and maintenance of Community Based Solar Power Grid (CBSPG)
4. Periodical monitoring report

Deliverables and Time Schedule:

It's just like a partnership short time assignment in the project. As from this project will see the installation solar power grid, thus who will be assigned to complete the work mentioned 2 months are allowed to work for this project and to complete the whole work mentioned above. The consultant is expected to begin work from March 1, 2019 and will submit the all necessary document to Habitat Bangladesh no later than January 17, 2019 through email at procurement@habitatbangladesh.org or Habitat for Humanity International – Bangladesh, House # 12 (Level 3), Road # 16/A, Gulshan-1, Dhaka-1212, Bangladesh.

E. PROPOSAL:

Consultant/firm/agency/bidder will require to submit Technical and Financial Proposal on the basis of ToR to Habitat for Humanity Bangladesh office.

The consultant/firm/agency/bidder shall bear all costs associated with preparation and submission of the proposals.

Outline of the Technical Proposal:

The proposal should not contain any publicity documents/brochure of the bidder. It is mandatory that the proposal should maintain the following format:

Topic	Page Limit
Understanding of the Task	Maximum 1 to 2 pages
Methodology: Technical aspect of the proposal and Outline of the task	Maximum 2 pages
Proposed team of the consultancy with names and designation	Maximum 1 pages
Financial proposal with detailed budget in BDT.	Maximum 5 pages
<i>Total Pages</i>	10 pages

The legal documents of the Consultant/firm/agency/bidder should be included in the annexure of the technical proposal. It is desirable that the proposal should contain the above mentioned sections only.

Financial Proposal

The financial proposal shall be structured around the specific tasks and key deliverables described in the Terms of Reference. Interested Consultant/firm/agency/bidder must specify total amount indicating budget for each task and deliverable, which are to be completed by the deadlines specified in the ToR. Payments shall be made based on delivery of the services specified in the ToR and agreement made with the selected Consultant/firm/agency/bidder.

F. SUPERVISION:

The consultant/firm/agency/bidder shall be closely work with Sr. Project Coordinator and project management team under close consultation with Senior Manager- Program Implementation and Innovation, Habitat for Humanity International - Bangladesh.

G. CONFIDENTIALITY:

All the outputs like report pictures and relevant documents etc product by this assessment will be treated as Habitat's property and consequently confidential. So the above mentioned outputs or any part of it can't be sold, used or reproduced in any manner by the assigned organization / individual without prior permission from HFHIB.

H. MISCELLANEOUS:

- a) A agreement will be signed with selected consultant/firm/agency/bidder to execute the assignment;
- b) HFHI-B reserve the rights to select any consultant/firm/agency/bidder who are the best meet;