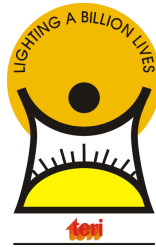


November 2010



## Lighting a Billion Lives<sup>©a</sup> – Implementation in Kacchuwa 2 with support from ERSAF

*Submitted to  
Energy Research and Social Advancement Foundation*



[www.teriin.org](http://www.teriin.org)

The Energy and Resources Institute

TERI has applied for a copyright on the textual material as well as the phrase “Lighting a Billion Lives” before the copyright registry which is a concept that aims to bring light into the lives of one billion rural people by displacing the kerosene and paraffin lanterns with solar lighting devices. Hence TERI owns and is the deemed rightful owner of IP (trademark, copyright and others) in respect of the above-mentioned IP. The technology involved in the above Campaign is also the subject matter of the patent rights which have been applied for by TERI, vide patent application titled “A Solar-energy based charging assembly equipped with a novel junction box and method of working for same” of August 2008.

Thus it is imperative that the necessary IP status in respect of “Lighting a Billion Lives” be rightfully acknowledged in any publicity or promotional material/event developed on the concept.

The following line may please be added in promotional/publicity material developed by any organisation/individual on “Lighting a Billion Lives<sup>®a</sup> - *A TERI Initiative*”.

**All IP rights (trademark, copyright and others) in respect of “Lighting a Billion Lives” rests with TERI.**

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## PROJECT DETAILS

<b>Village name:</b>	Kacchuwa 2
<b>Block:</b>	Manpur
<b>District:</b>	Umaria
<b>State:</b>	Madhya Pradesh
<b>Sponsor:</b>	Energy Research and Social Advancement Foundation
<b>LaBL Partner Organization:</b>	The Corbett Foundation

## SOLAR CHARGING STATION - TECHNICAL SPECIFICATIONS

Components	Description
Solar Lantern Charging Station	50 Wp capacity (5 nos.)
Junction Box	5nos. having 10 ports each
Lanterns	50 nos. of LED lanterns
Running time (lantern)	Minimum 5-6 hours for a fully charged battery
Recharge time	About 5-6 hours of peak sun-shine (on normal sunny days)

### NOTE:

Although the proposal to ERSAF was aimed at implementing a solar charging station with 50 lanterns only but TERI could increase it to 60 nos. by leveraging capital subsidy for the project from the Ministry of New and Renewable Energy, Government of India. This clearly exemplifies the innovative Public Private Partnership in further increasing the project's impact at the grassroots level.

## IMPLEMENTATION BRIEF

TERI in collaboration with The Corbett Foundation organized a program to give-away solar lanterns in Kacchuwa village of Bandhavgarh, Madhya Pradesh on 9<sup>th</sup> of September 2010. This solar charging station is supported by **Energy Research and Social Advancement Foundation**.

**Kacchuwa** is a moderately sized village with a population of around 3000 individuals in 550 households is located on the periphery of Bandhavgarh national park just outside the Park boundary. Dominated by the Baiga tribes, this village lies in very much interior and still has a long way to go on path of progress and prosperity. Agriculture being the main occupation, Baiga tribe here is also involved in certain other occupation like collection of NTFP's (non-timber forest products) and making bamboo artifacts. There are 3 schools in the village- 2 upto class 5<sup>th</sup> and 1 upto class 8<sup>th</sup> with average 600 children studying in these 3 schools. The younger generation is involved in labor work like Carpentry, mason work, blacksmith and other type of skilled work and makes a living out of it by going to the closest town (Manpur) which is 8 km from this village. When TCF surveyed the village, it was found that out of 550 households only 25% of them had a regular electric supply and rest of the village lacked it.

Hence, the two solar charging stations with a cumulative capacity of 120 solar lanterns (Kacchuwa1 and Kacchuwa2) were implemented in the first phase bringing smiles on the faces of the people who received them. The solar lanterns were distributed by Shri C.K. Patil (Park director, Bandhavgarh) who was extremely happy with the kind of efforts TERI, ERSAF and TCF are putting in for the development of people in and around Bandhavgarh national park.

The project has led to the following specific outcomes by virtue of Lighting a Billion Lives being supported in Kacchuwa 2 by ERSAF:

- Provisioning of improved solar lighting services to rural communities thereby expanding the livelihood potential of the region
- Generation of livelihood opportunities through the rental and use of solar lighting devices in the aforesaid areas
- Diversion of around 18,000 litres of kerosene which translates into mitigation of around 72.5 mT CO<sub>2</sub>e.

The tribals who have received the lanterns in the first phase will be paying a minimum fee of Rs 30 per month for solar charging. The money will be collected by Mr Gudda Baiga who has been appointed as the entrepreneur for village Kacchuwa and he will be handing over the monthly accounts to the eco-development samiti of the village. The Corbett foundation will be looking over the smooth running of the solar charging system and solar charging station in this village from time to time.

The subsequent portion of the report gives some insights into the installation and commissioning phase of the project along with the smiles on the users' faces because of dispelled darkness of their lives. We thank ERSAF for all their support and would like to receive further support and guidance in future.

**PICTURES FROM FIELD**



**Picture 1. Solar Charging stations in Kacchuwa (Inside)**



**Picture 2. Solar Charging stations in Kacchuwa (Outside)**



**Picture 3. Shri. C.K.Patil (I.F.S) giving away solar lanterns**



**Picture 4. Lantern distribution at Kachuwa village**



**Picture 5. Lantern distribution at Kacchuwa village**