

Dossier of the Project “Installation of 50 nos Solar Lights at Rehabilitation Area Athoorwala, Block Doiwala, Distt. Dehradun, Uttarakhand”.

Sl. No.	Description	Details	Remarks if any
1	2	3	4
1.	Name of Project	Installation of 50 nos Solar Lights at Rehabilitation Area Athoorwala, Block Doiwala, Distt. Dehradun, Uttarakhand	
2.	Project Code	29/2013-14/ Uttarakhand Renewable Energy Development Agency /IS /Doiwala/(9.50)	
3.	Name of Implementing Unit and Unit Code	CSRUnit, Rishikesh (Other)	
4.	Name of Implementing Agency	Uttarakhand Renewable Energy Development Authority	
5.	Project Cost	Rs. 9,50,000 (Nine Lac Fifty Thousand Rupees)	
6.	Date of Start	07/09/2013	
7.	Date of Completion	05/11/2013	
8.	Location/Area of operation of the Project	Rehabilitation Area (Vill- Athoorwala) Block- Doiwala (Dehradun)	
9.	Activity covered in the Project and Activity Code	Infra Structure (IS)	
10.	Targeted Group	Project affected rehabilitated people	
11.	Number of people benefitted from the project	Approx. 500 people of village- Athurwala Rehab. colony.	
12.	Quantification of benefit accrued from the project, as derived from the Impact Assessment Report/evaluation report by independent agency. If any	The Project is evaluated by National CSR Hub, TISS	
13.	Documentary proof like Photo\video\news items etc. If any	As detailed below	

Project at a Glance:-

Introduction:

Solar street lights are raised light sources which are powered by photovoltaic panels generally mounted on the lighting structure. The photovoltaic panels charge a rechargeable battery, which powers a fluorescent or LED lamp during the night. In 2007, the Civil Twilight Collective created a variant of the conventional LED streetlight, namely the Lunar-resonant streetlight. These lights increase or decrease the intensity of the streetlight according to the lunar light. This streetlight design thus reduces energy consumption as well as light pollution.

Most solar panels turn on and turn off automatically by sensing outdoor light using a light source. Solar streetlights are designed to work throughout the night. Many can stay lit for more than one night if the sun is not available for a couple of days. Older models included lamps that were not fluorescent or LED. Solar lights installed in windy regions are generally equipped with flat panels to better cope with the winds.

It consist of 05 main parts :-

Solar panel, Lighting fixture, rechargeable battery, Controller and pole.

Each street light can have its own photo voltaic panel, independent of other street lights. Alternately, a number of panels can be installed as a central power source on a separate location and supply power to a number of street lights.

Need Assessment:

The village Bhaniawala (Athurwala) is a rehabilitated village with 40 sq km of area. Total 14 villages which were affected by Tehri dam from Tehri District were rehabilitated in this area. The village is in wide spread area which is close to the forest land. The request for installation of 50 solar lights was received from the village Pradhan and a letter was also received from Sh. Harish Rawat the then Ho'ble Minister of State Agriculture & Food Processing Industries (Govt. of India), and presently Chief Minister of Uttarakhand. According to the need assessment done, there was a need of the project in the area as village is near to the forest land and the cases like entering of wild animals, especially elephants in the village and damaging of crop & property were very

common. Animals destroyed the yield of villagers and there were also cases of killing humans in the village by wild animals.

The main objective of the project is to facilitate the people of village with solar street lights so that commuting in night can be easy and safe from the wild animals.

Advantages

- Solar street lights are independent of the utility grid. Hence, the operation costs are minimized.
- Solar street lights require much less maintenance compared to conventional street lights.
- Since external wires are eliminated, risk of accidents is minimized.
- This is a non polluting source of electricity
- Separate parts of solar system can be easily carried to the remote areas

Disadvantages

- Initial investment is higher compared to conventional street lights.
- Risk of theft is higher as equipment costs are comparatively higher.
- Snow or dust, combined with moisture can accumulate on horizontal PV-panels and reduce or even stop energy production.
- Rechargeable batteries will need to be replaced several times over the lifetime of the fixtures adding to the total lifetime cost of the light.

Operation Methodology:

To establish the street solar lights in the area, THDCIL has approached the UREDA (Uttarakhand Renewable Energy Development Authority) Dehradun for Tech. specification and cost of equipment, complete establishment and further R&M of system. UREDA is the state government agency and unique for renewable energy, hence an MOU was signed for implementation of the project.

- Contract is for supply, erection & installation of Solar Street Lights at various locations in the rehab area including 05 years warrantee & AMC and shall be valid till the completion of all related works.

- The completion period of the project was for 02 months from the award of work i.e. 07.09.2013 and as per completion report it was completed on 05.11.2013

Accordingly, the above work has been carried out through UREDA as per technical specifications and Terms & Conditions mentioned in the award of work.

Benefit from the Project:

General Benefits:

- Extends the Working day in rural areas
- Improves Health issues
- Improves Fire-Reduction
- Saves Energy
- Reduces Maintenance
- Reduces local air pollution
- Offsets greenhouse gases
- Save from wild animals at night

Benefits for community:

Community of Athurwala village is feeling happy after installation of the solar lights. Villagers have been benefitted during nights as they feel safe.

Elephants use to break the boundary wall between village and forest, enters the village and damage the crop & property, even attack villagers some time, but after the lights being installed the frequency of miss happenings like this are reduced.

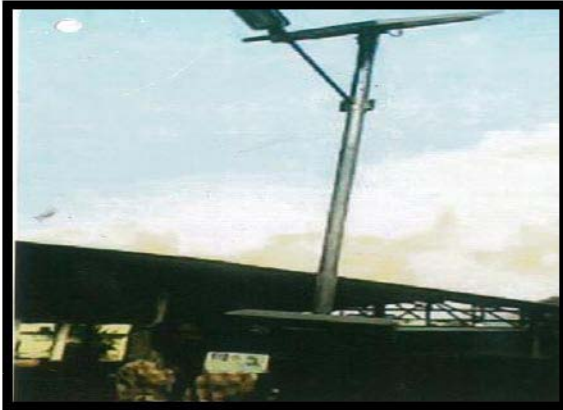
List of beneficiaries is given below:

Sl. No.	Name of Beneficiaries/ Father's Name	Place
1.	Shri Harish Chand Topwal, S/o Late Gajendra Topwal	} Athurwala, Rehab- colony
2.	Shri Giriraj Gusain	
3.	Shri Karmveer Gusain S/o Late Raghunath	
4.	Shri Satish Dobhal	
5.	Shri Balbir Singh Gusain S/o Late Gulab Singh	
6.	Near Santosh Aswal House	
7.	Shri Prem Dutt Ghildiyal S/o Arvind Ghildiyal	
8.	Shri Bhagav Singh S/o Chandra Bahadur	
9.	Shri Surendra Singh Aswal S/o Satte Singh Aswal	
10.	Shri Manoj Semwal	

11.	Shri Natthi Singh Chauhan
12.	Shri Subhash Aswal
13.	Prem Dutt Ghildiyal
14.	Shri Ramesh Negi S/o Bachan Singh
15.	Shri Chandi Prasad S/o Vishambhar Dutt
16.	Shri Vinod Rana S/o Padam Singh Rana
17.	Shri Rajendra Rana S/o Late Padam Singh Rana
18.	Shri Surendra Singh Tanwar S/o Bachhan Singh
19.	Shri Rakesh Singh S/o Gopi Singh
20.	Shri Bhagwati Prasad Saklani S/o Late Lilanand Saklani
21.	Shri K.D.N. Saklani S/o Devanand Saklani
22.	Shri Pratap Rana S/o Matwar Singh Rana
23.	Shri S.P. Thapliyal
24.	Shri Praveen Singh Rawat S/o Indra Singh Rawat
25.	Shri Gyan Singh Sajwan S/o Sher Singh Sajwan
26.	Shri Jagdish Prasad Saklani S/o Naresh Prasad
27.	Fakir Ali S/o Ahmad Ali
28.	Shri Purushottam Dutt S/o Late Jaggannath
29.	Shri Surendra Singh Negi S/o Murari Singh Negi
30.	Shri Prem Saklani S/o Late Ram Prasad
31.	Shri Surendra Singh S/o Chanchhar Singh
32.	Shri Roshan Singh S/o Mahajan Singh
33.	Shri Khushal Singh Negi S/o Manoj Negi
34.	Shri Govind Singh Negi S/o Badri Singh Negi
35.	Shri Jabar Singh Negi S/o Mor Singh Negi
36.	Shri Vinod Prasad Thapliyal
37.	Shri Kushlanand Dobhal S/o Gokulanand Dobhal
38.	Shri Surveer Singh Negi S/o Dr. Satye Singh
39.	Shri Mukesh Bisht S/o Magan Singh Bisht
40.	Shri Surveer Singh S/o Matwar Singh
41.	Shri Vikram Singh Rawat S/o Matwar Singh
42.	Shri M.P. Joshi
43.	Jay Prakash S/o Suresh Shah
44.	Khem Singh S/o Mansa Ram
45.	Anuj Negi
46.	Ashok Bahuguna S/o Ramlal Bahuguna
47.	Balbir Singh Aswal
48.	Suresh Dobhal S/o Pitamar Dobhal
49.	Sanjay Dobhal S/o Chandi Prasad Dobhal
50.	Dharmveer Gusain S/o Late Raghunath

Athurwala, Rehab- colony

Related Photographs:



Solar lights installed at Sapera Basti



Solar lights installed at Bauradi Chawlk



Solar lights installed at Kulna Chawlk



Solar lights installed at Bhaniawala Rehab Area

