

INSTALLATION OF SOLAR STREET LIGHTS IN POZHIKKARAI VILLAGE OF KANYAKUMARI DISTRICT, TAMIL NADU

March, 2021

Submitted By:



Holy Cross College (Autonomous)

(AISHE Code: C – 41177)

Nagercoil - 629 004, Tamil Nadu

Principal Invigilator

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Final Project Report of Unnat Bharat Abhiyan

1	Name of the Institute (in Block	HOLY CROSS COLLEGE (AUTONOMOUS),
	letters)	NAGERCOIL
2	AISHE Code	C- 41177
3	Title of the Project	Installation of Solar Street Lights in Pozhikkarai village of
		Kanyakumari District, Tamil Nadu
4	Name of Subject Expert Group	Rural Energy Systems
	(SEG)	
5	Name of the Regional Coordinating	Gandhigram Rural Institute,
	Institute (RCI)	Gandhigram, Dindigul,
		Tamil Nadu
6	Name of village(s) where project	
	development activities were carried	Pozhikkarai
	out	
7	Project Duration	Three months
8	Project Budget	Rs.50000/-
9	Brief Introduction of the Project	Pozhikkarai is a coastal village adopted by our institute.
	(Minimum 100 words)	Being coastal village, this village has a lot of solar energy
		resource. People in the village depend on fishing for their
		livelihood. The fishing activities are carried out in the
		midnight or early morning. Therefore the necessity aroused
		to have regular functioning of street lights. This issue was
		identified by our students during their village visit and
		household survey. Therefore, it was discussed in the Grama
		Sabha meeting held at Pozhikkarai on 26 th January, 2020.
		The students and the public suggested that solar street
		lights will be an alternate source for the regular functioning
		of street light. Moreover, solar lighting systems are
	1	controlled by built-in intelligence which requires no

		manual operation, making them safe and economical. The
		whole construction process is simple and time-saving,
		while maintenance is infrequent and easy.
10	Project Objective(s) / Need of the	The objectives of the project are,
	Project	• To help the villagers in their livelihood by
		providing lighting, as the major fishing activities
		are carried out in the night
		To conserve energy resources and maximum
		utilisation of available natural resources by shifting
		to solar energy
		To have cost efficiency as solar street light requires
		very less amount of maintenance cost.
		• To create awareness among the villagers on eco –
		friendly and non-polluting source of energy
11	(a) Current status	Project completed/ Ongoing (Date: 1st February, 2021 to
		31 st March, 2021)
	(b) Achievement of the project	Most of the cities around the world have installed
	(Minimum 150 words)	Solar Street lights as part of the Govt. initiative for
		preserving the environment. Now, the villagers of
		Pozhikkarai village are benefiting immensely from
		these Solar street lights to ensure electricity during
		night time.
		 During the day, the attached solar panel collects the energy from the Sun and uses it to charge the solar batteries. At night, the solar battery supplies power to the LED lights that brighten the streets in the rural localities. The villagers got awareness on the eco – friendly

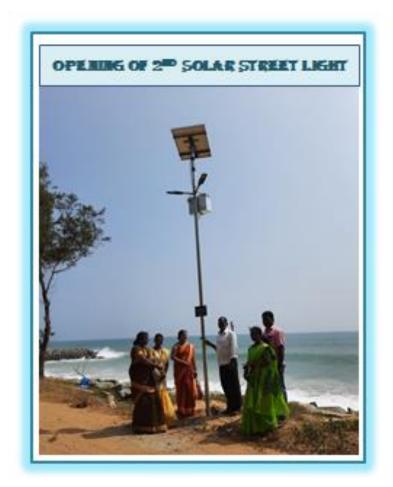
12	Project Outcomes	 The brighten streets during night due to the installation of solar street lights help the villagers to go for fishing activities without trouble The street lights help people to walk in the street without fear The village is illuminated by renewable energy The villagers are having the use of renewable energy due to the installation of solar street lights
13	Description of Project (Minimum 150 words) (Technology, Methodology, etc.)	 Technology The photovoltaic technology is used to convert the sunlight into DC electricity through solar cells. Solar cells convert sunlight into electricity The initial step to convert solar energy to electricity is to install Photovoltaic (PV) cells or solar cells these cells arrest the sun's energy and convert it into electricity. Photons in sunlight hit the solar panel and are absorbed by semiconducting materials, such as silicon. Electrons are excited from their molecular/atomic orbital. Once excited, an electron can either dissipate the energy as heat and return to its orbital or travel through the cell until it reaches an electrode. Methodology By having involvement of staff, students and the villagers, the installation process took place. The awareness programme on renewable energy resource was conducted to the villagers. Solar Street lights were installed in three places

		where the people use more during night.
		The lights were dedicated to the people
14	Photos with captions of the project activities (maximum of 6 photographs of high resolution)	Annexure - I
15	Description of each photo in	Annexure - II
	maximum of 25 word	
16	Impact of this project in the adopted	• The fishermen in the village, engaged in the
	village(s) in 100 words	activities of stitching, knitting and knotting fish nets
		during day time in addition to fishing. They also
		engaged in manufacturing fish nets by hand. They
		used to stop the work before 6.p.m as the place was
		dark during evening. Now they continue to work
		even in the night as there is light. In this way it
		helps in the livelihood of the villagers.
		Now the villagers are going for fishing activities
		without any trouble as the streets are brighten due
		to the installation of solar street lights
17	Number of Families benefited	650 (450 families from Pozhikkarai village and 200
		families from neighboring village)
18	Link of feedback videos of villagers	https://drive.google.com/file/d/1PpTZ7WPuGiUKv4G8Q9
	(If any)	EozPyHCSGMSUX6/view?usp=sharing
19	Other relevant information	-
	(optional) (Minimum 100 words	
20	Comments from the SEG	-
21	Comments from National	-
	Coordinating Institute (NCI)	
22	Clarification from Participating	-
	Institute (PI)	

Annexure – I











मुर्गिय पीकां भीना बेसुबनां म्रीप्रांप् भीप्रा

நாகர்கோவில் திருச்சிலுமை கல்லூரி சார்பில் தேசிய ஒருங் இணைப்பு நிறுவைத்தின் நிறுமுகிய உள் பொழிக்கரை மத்தும் காட்டுவிளையில் சூரிய மின் விளக்குகள் அமைக்கப்பட்டது. இவற்றின் திறப்பு விழா நடந்தது.

பொழிக்கரையில் நடத்த திவழ்ச்சியில் கடுதல் கிலைடர் மெர்சி ரம்யா, கல்லூரி செயலாளர் ஜொர்டின் ஜெயம், முதல்வர் ஆனி பெர்பெட் சோபி, துணை முதல்வர் லீமர் ரோஸ், திண்டுக்கல் காந்திரோம் கிராமிய பல்கலைக்கழகம் உன்னத்பாரத் அபியான் திட்டத்தின் மண்டல ஒருக்கெண்ட பாளர் ரவிச்சந்திரன் ஆடுயோர் சூரிய விளக்குகளை அர்ப்ப

ணித்துவைத்தனர். பொழிக்கரை பங்குதற்தை ஞானசேகரன் வாழத்தி பேசினார். முன்னதாக கல்லூரியின் உண்னத் அபியான் திட்ட ஒருங் இணைப்பாளர் பனிமய மெர்சி வரவேற்று பேசினார். முடிவில், பொழிக்கரை பஞ்சாயத்து தலைவி கெபின்ஷா தன்றி கூறினார். இதுபோல், காட்டுவிளையிலும் சூரிய மின் விளக்கு நிறத்து வைக்கப் பட்டு அர்பணிக்கப்பட்டது. இந்த நிகழ்ச்சிகளில் பேராசிரியர்கள் பேரபினா, பவானி, வினி மற்றும் மாணவிகள் உள்பட பலர் கலந்து கொண்டனர்.

News Appeared in Daily News Paper

Annexure – II

Photo	Description
DEDICATED CEREMONY OF SOLAR STREET LIGHTS.	The solar street lights were dedicated to the people on 25th February, 2021 by Mrs.I.S.Mercy Ramya I.A.S., Addl. Collector (Dev.) & Project Director, District Rural Development Agency. Secretary, Principal and Vice Principal of our college, Panchayat President of the village were graced the occasion by their presence.
OPENING OF 1 ST SOLAR STREET LIGHT	The opening of first solar street light by Mrs.I.S.Mercy Ramya I.A.S., Addl. Collector (Dev.) & Project Director, District Rural Development Agency in the presence of Mr.K.Ravichandran, Regional Coordinator, Gandhigram Rural Institute, Dindigul
OPPENING OF 200 SOLAR STREET LIGHT	The opening of 2 nd solar street light by a villager in the presence of Mrs. Kebinsha, Panchayat President, UBA coordinator and the members of UBA Cell.
OPERIOR OF S ⁵⁰ SOLAR STREET LIGHT	The opening of 3 rd solar street light by Mrs. Kebinsha, Panchayat President in the presence of UBA coordinator and the members of UBA Cell.
SOLAR DYBRIT LIGHTS DURING BURST - FOLLOW UP	The brighten streets during night after the installation of solar street lights. The picture is the follow – up of the street lights.
The state of the s	News about the installation of solar street lights, appeared in the daily newspaper, "Daily Thanthi" on 27 th February, 2021