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Nehru College of  
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Panipady Thiruvilwamala, Thirissur Dt  
Pin - 680 597 Kerala



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7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

S No	Name of Facility	Number of Units	Cost of Investment	Purchase details
1	Solar Streetlights	8	Rs.18968	08-08-2020
2	Solar Garden Lights	12	Rs.16068	26-08-2020
3	Solar Waterheater	1	Rs.18700	23-02-2008
4	Sensor-based Lights	16	Rs.5120	01-08-2020
5	Use of LED bulbs	420	Rs.231000	continuous
6	Bio gas Plant	1	Rs.3.5lakhs	Apr-07

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7.1.2 DVV Response

Certificate from Head of Institution



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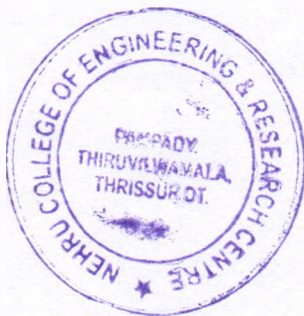
TO WHOMSOEVER IT MAY CONCERN

Certified that Nehru College of Engineering and Research Centre facilitate the following Alternative sources of energy, so as to execute effective practices for energy conservations.

- Solar Energy: Solar Powered street lights and Solar Powered Garden Lights
- Biogas Plant
- Sensor Based Energy for Veranda lights
- Usage of LED Bulbs
- Programs/Demo for LED usage/maintenance

Principal

19 March 2021



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Policy Document  
Alternative Energy Sources  
and  
Energy Conservation



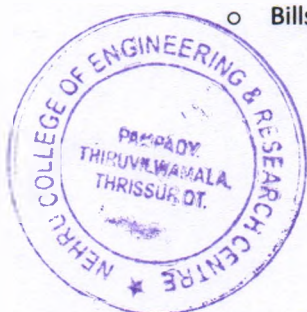
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**Policy Document:**

**Facilities for alternate sources of energy and energy conservation measures**

- **Solar Energy:** Solar Powered street lights, are fixed in college. The panels are well placed so that the sufficient energy is generated to be used for whole night. Following details are annexed in next page
  - Geotagged Photos
  - Bills/Vouchures
  
- **Solar Powered Garden Lights:** The gardens are lit with fancy Lights that are powered by the Embedded Solar Units. Following details are annexed in next page
  - Geotagged Photos
  - Bills/Vouchures
  
- **Biogas Plant:** Our mini-Biogas unit is able to feed biodegradable waste such as canteen food waste and the plant generates enough biogas to burn in a single burner stove. Following details are annexed in next page
  - Geotagged Photos
  - Bills/Vouchures
  
- **Sensor Based Energy:** Automatic Human Sensor Switches are installed in the verandas. The system would automatically detect the human presence to turn itself On/Off. This which avoid unwanted usage of electricity in such areas. Following details are annexed in next page
  - Geotagged Photos
  - Bills/Vouchures



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- Usage of LED Bulbs: The college uses a maximum of LED bulbs and tubes for all its lighting needs. This is quite visible in all recent renovation projects. We have also initiated various programs from students and general public on usage of LED bulbs.

Workshops/Demonstration on LED maintenance was organized in association with Athmaja LED Co. Following details are annexed in next page

- Geotagged Photos
- Event Photos
- Youtube link
- Bills/Vouchures



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Solar Street lights and Garden lights  
Equipment Purchase bills





TAX INVOICE  
CASH BILL

SUBIX  
Market Road, Palakkad

Phone: 0491 - 2502180, 2502052  
GSTIN : 32AALFS0443A1ZT

Invoice No: B014101  
Invoice Date: 08/08/2020

Details Of Receiver (Billed to)

Name : NEHRU COLLEGE  
Address : PAMPADY,  
Ph: 0000000000

SNo	Commodity/Item	HSN Code (GST)	Qty	Unit	Rate	Total	Disc	Taxable		CGST		SGST		Total
								Value	Rate	Amount	Rate	Amount		
1	SAMSON 20W LED 5 CLASS SOLAR	9405	2.0	NOS	2666.67	5333.34	0.00	5333.34	2.50	133.33	2.50	133.33	5800.00	
2	SAMSON LED 2W SOLAR FLAME LA	9405	2.0	NOS	1185.84	2371.68	0.00	2371.68	6.00	142.30	6.00	142.30	2680.00	
3	CG 9W RECHARGABLE BULB	9405	1.0	NOS	371.68	371.68	0.00	371.68	6.00	22.30	6.00	22.30	420.00	

*metallic led and  
Electrical wire - as per  
Solar Street Light  
Solar Goggles Light*

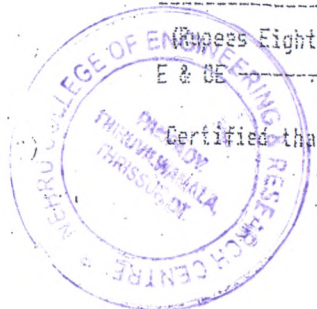
*sl/10 Rakesh*

TOTAL====>	5.00	6076.70	0.00	6076.70	297.93	297.93	8700.00
		KFCess	27.44			Roundoff	0.00

Rs. 5700.00

(Rupees Eight Thousand Seven Hundred )  
E & DE

Certified that all the particulars shown in the above Tax Invoice are true and correct-



Authorized Signatory

*Ch*  
PRINCIPAL  
Nehru College of  
Engineering and Research Centre  
Pampady, Thiruvilwamala, Thiruvananthapuram  
Pin 680 597 Kerala

**SUBIX**

Market Road, Palakkad

, Phone: 0491 - 2502100, 2502052  
GSTIN : 32AALFS0443A1ZT

Invoice No: B016016

Invoice Date: 26/08/2020

Details Of Receiver (Billed to)

Name : NEHRU COLLEGE,  
Address : PAMPADI.  
Ph: 0000000000

SNo	Commodity/Item	HSN Code(GST)	Qty	Unit	Rate	Total	Disc	Taxable		CSST		SGST		Total
								Value	Rate	Amount	Rate	Amount		
1	SANSON 20W LED S CLASS SOLAR	9405	2.0	NOS	2666.67	5333.33	0.00	5333.33	2.50	133.33	2.50	133.33	5599.99	
2	SANSON LED 2W SOLAR FLAME LA	9405	1.0	NOS	1276.19	1276.19	0.00	1276.19	2.50	31.90	2.50	31.90	1339.99	

*Michael Ahmed  
Nose - 5 Store  
Coventry Estate Cyber  
Rakshas - 7  
Babu*

*Adv*

*W/m*

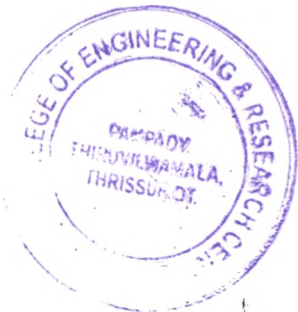
TOTAL==> 3.00 6609.52 0.00 6609.52 165.23 165.23 6939.98  
Roundoff 0.02

(Rupees Six Thousand Nine Hundred Forty )

Rs. 6940.00

E & OE

Certified that all the particulars shown in the above Tax Invoice are true and correct-



For M/s. SUBIX

Authorized Signatory

*[Signature]*

*[Signature]*

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Pampady, Thiruvilwamala, Thirsur Dt  
Pin 680 597 Kerala



**SUBIX**

Market Road, Palakkad

, Phone: 0491 - 2502180, 2502052  
GSTIN : 32AALFS0443A1ZT

Invoice No: B016017

Invoice Date: 26/08/2020

-----  
Details Of Receiver (Billed to)  
-----

Name : NEHRU COLLEGE  
Address : PAMPADI.  
Ph: 0000000000

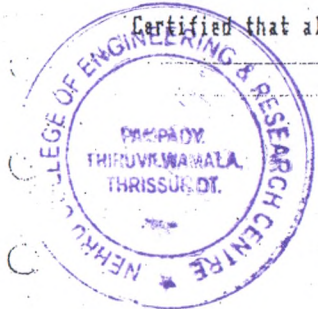
SNo	Commodity/Item	HSN Code (GST)	Qty	Unit	Rate	Total	Disc	Taxable		CGST		SGST		Total
								Value	Rate	Amount	Rate	Amount		
1	SAKSON 20W LED S CLASS SOLAR	9405	3.0	NOS	2666.67	8000.00	0.00	8000.00	2.50	200.00	2.50	200.00	8400.00	

*material returned*  
*note - solar light*  
*street*  
*Lakshmi - 7*  
*Deliver*  
*odu*

		TOTAL==>		3.00	8000.00	0.00	8000.00	200.00	200.00	8400.00			
										Roundoff	0.00		

(Rupees Eight Thousand Four Hundred )  
 E & OE ----- **Rs. 8400.00**

Certified that all the particulars shown in the above Tax Invoice are true and correct-



For M/s. SUBIX  
 Authorized Signatory

*[Signature]*  
**PRINCIPAL**  
 Nehru College of  
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 Pin 680 597, Kerala



CASH BILL

SUBIX

Market Road, Palakkad

, Phone: 0491 - 2502180, 2502052  
GSTIN : 32AALFS0443A1ZT

Invoice No: B013319  
Invoice Date: 01/09/2020

Details Of Receiver (Billed to)

Name : NEHRU COLLEGE  
Address : PAMBADI  
Ph: 0000000000

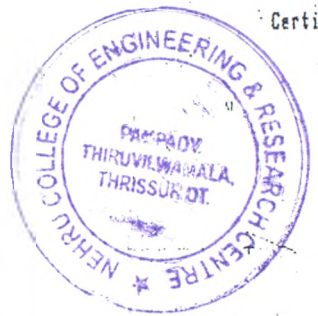
SNo	Commodity/Item	HSN Code(GST)	Qty	Unit	Rate	Total	Disc	Taxable		CGST		SGST		Total
								Value	Rate	Amount	Rate	Amount		
1	SAMSON 20W LED S CLASS SOLAR	9445	1.0	NOS	2666.67	2666.67	0.00	2666.67	2.50	66.67	2.50	66.67	2800.01	
2	SURYA 10W NEO E/ LAMP - SU10	8539	1.0	NOS	371.68	371.68	0.00	371.68	6.00	22.30	6.00	22.30	420.00	
3	HALONIX 10W LED RADAR MOTION	94654070	16.0	NOS	283.19	4530.98	0.00	4530.98	6.00	271.86	6.00	271.86	5120.81	

*Material Got from NAAE  
Ayubkhan Block  
Passage Home no 100  
Senior Light 4 floor pass  
to 2nd floor  
E. Ballesh  
2/9/20*

TOTAL==>	18.00	7569.32	0.00	7569.32	360.83	360.83	8340.01
				KFCess	49.83		
				Roundoff	-0.02		
				<b>Rs. 8340.00</b>			

(Rupees Eight Thousand Three Hundred Forty )  
E & OE

Certified that all the particulars shown in the above Tax Invoice are true and correct-



For M/s. SUBIX  
Authorized Signatory  
*[Signature]*

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Geo Tagged Photographs

Solar Lights

Solar Garden lights

Solar Water Heater

Biogas Plant

Human Motion Sensor lights

LED Bulb usage

Photographs

LED Usage/Maintenance Demonstration





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Solar Powered street lights



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India  
 Latitude 10.7424873° Longitude 76.432641°  
 Local 01:34:27 PM Altitude -9 meters  
 GMT 08:04:27 AM Thursday, 13-08-2020



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India  
 Latitude 10.7425085° Longitude 76.4326018°  
 Local 01:34:12 PM Altitude -12 meters  
 GMT 08:04:12 AM Thursday, 13-08-2020



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India  
 Latitude 10.742591° Longitude 76.4324879°  
 Local 01:34:57 PM Altitude -4 meters  
 GMT 08:04:57 AM Thursday, 13-08-2020



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Solar Powered Garden Lights



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India  
 Latitude 10.7437871° Longitude 76.4342186°  
 Local 02:02:46 PM Altitude 0 meters  
 GMT 08:32:46 AM Thursday, 13-08-2020

NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India  
 Latitude 10.7437262° Longitude 76.4342475°  
 Local 02:03:14 PM Altitude -6.7 meters  
 GMT 08:33:14 AM Thursday, 13-08-2020

Solar Powered Water Heater (College Guest House)



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India  
 Latitude 10.74226387° Longitude 76.43382161°  
 Local 02:33:59 PM Altitude 1 meters  
 GMT 09:03:59 AM Wednesday, 03-17-2021



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Mini Biogas Plant



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India

Latitude

10.7420536°

Longitude

76.4354137°

Local 01:40:45 PM

GMT 08:10:45 AM

Altitude -19 meters

Thursday, 13-08-2020



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Human Motion Sensor Lights



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India

Latitude	Longitude
10.7435721°	76.4346072°
Local 02:08:13 PM	Altitude 0 meters
GMT 08:38:13 AM	Thursday, 13-08-2020



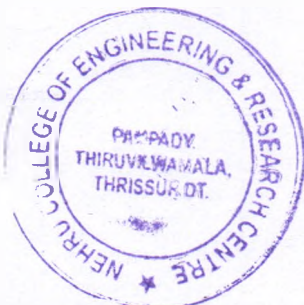
NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India

Latitude	Longitude
10.7435687°	76.4346102°
Local 02:08:19 PM	Altitude 0 meters
GMT 08:38:19 AM	Thursday, 13-08-2020



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India

Latitude	Longitude
10.74374°	76.4340966°
Local 02:05:49 PM	Altitude -6.7 meters
GMT 08:35:49 AM	Thursday, 13-08-2020



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**LED Bulb usage**



NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India

Latitude  
10.7437672°

Local 02:10:44 PM  
GMT 08:40:44 AM

Longitude  
76.4342158°

Altitude 0 meters  
Thursday, 13-08-2020



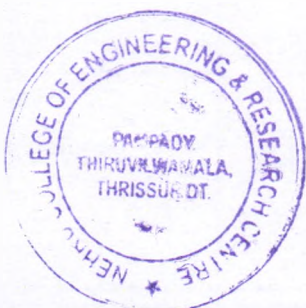
NCERC Admin Bldg Rd, Pambadi, Kerala 680588, India

Latitude  
10.7436553°

Local 02:12:49 PM  
GMT 08:42:49 AM

Longitude  
76.4339466°

Altitude -6.7 meters  
Thursday, 13-08-2020



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### LED Usage and Maintenance: Demonstration Session for Students and gen.public

YouTube

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LED Bulb Making.. Described and Demonstrated

146 views · Sep 8, 2020

Nehru College Of Engineering and Research Centre  
313 subscribers

Sreejith K, Lab Instructor NCERC Pambady and Director, Athmaja

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LED Bulb Making.. Described and Demonstrated

146 views · Sep 8, 2020

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