

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)
Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India
Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3rd Cycle

Criterion VII Metric 7.1.2

7.1.2 Alternate Sources of Energy and Energy Conservation Measures

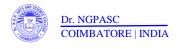
The institution has provision for alternate sources of energy with the aid of generating solar energy along with sensor-based energy conservation / power efficient equipment's and facilities. Apart from this, the institution has installed the LED lights that ensure optimal utilization of energy.

. No.	Facility	Supporting Document
1	Solar energy	a. Facilities Available
		b. Energy Saved
		c. Bills for Solar Energy Equipment
2	Sensor-based energy conservation	Facilities Available- Automatic Water Level Sensor
		b. Facilities Available- Sensor based Lights
	+	c. Bills for Sensor based lights
3	LED Lights	a. Facilities available
		b. Bills for LED Lights Purchase
4	Power efficient equipment	a. Facilities available
		b. Bills for Power Efficient Equipment

le 21/2/22

(Prof. Dr. V. Rajendran) PRINCIPAL







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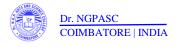
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1. a. Solar Energy

A considerable proportion of the power requirement of the institution is quenched by the power generated through solar power cell. The institution is harnessing power with its sustainable non-polluting Solar cell being set up in A1 block and B1 block. The Solar cell is capable of producing around 80 kWh of power through its resources. Through its potency the solar cell is capable of quenching to 23% of the total power requirement of the institution.





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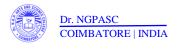
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Criterion VII Metric 7.1.2

1. b. Energy Saved

The following are the details of total power generation through solar cell for the last 5 years:

S.No.	Year	Total Electric Power Consumed (kWh)	Power generated through Solar Cell (kWh)	% of Power generated through Solar Cell
1	2020-21	483627	86802	17.94
2	2019-20	354044	104783	29.59
3	2018-19	266014	106553	40.05
4	2017-18	289904	47783	16.48
5	2016-17	278062	28549	10.26
		Average	% of Solar power generated	22.86





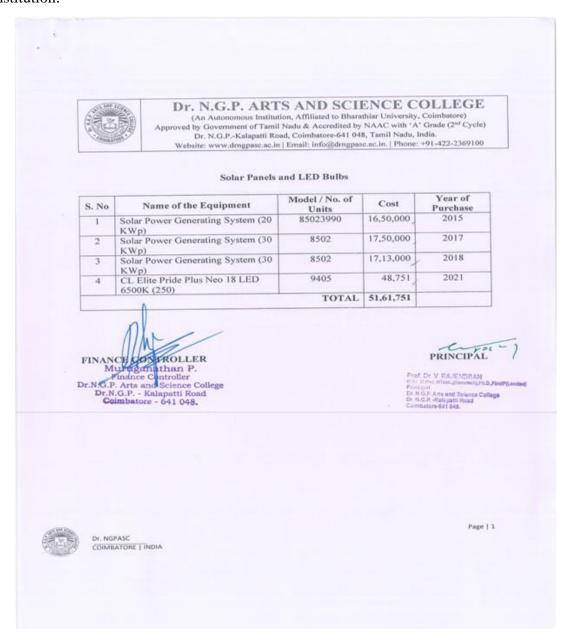
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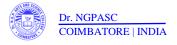
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Criterion VII Metric 7.1.2

1. c. Bills for Solar Energy Equipment

The following are the details towards the solar power generating facility established in the institution:







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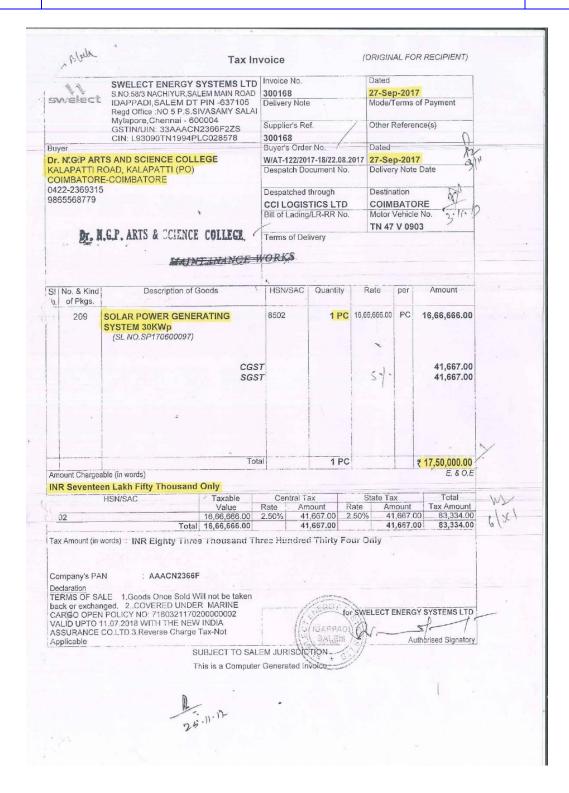
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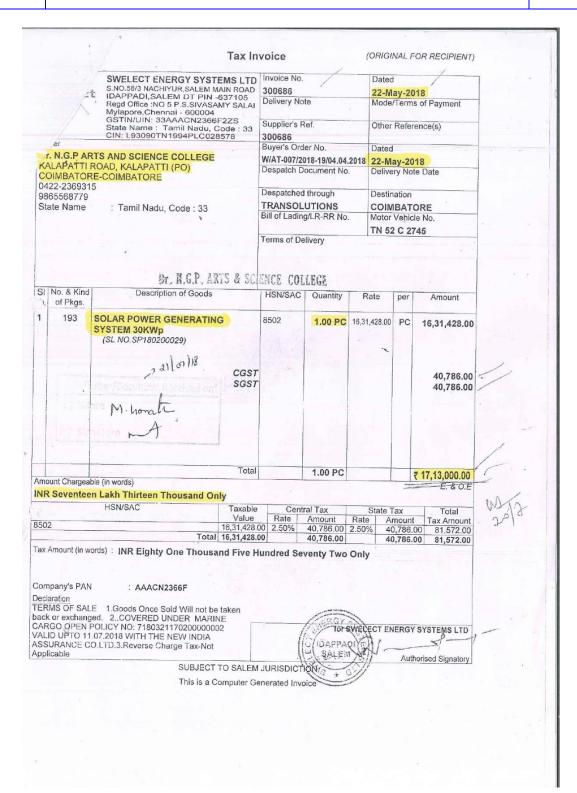
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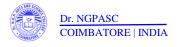
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Criterion VII Metric 7.1.2

2.a.Sensor-based Energy Conservation- Automatic Water Level Sensor

The institution has the facility for sensor-based energy conservation using Automatic Water Level Sensor for water pumping. The sensor detects the water level in the underground tank and overhead tank and operates accordingly to fill the underground tank water to the overhead tank. The following are the facilities related to the automatic water level sensor facility in the campus:

S.No.	Name of the Facility	Location	Numbers Available
1	Automatic Water Level Sensor	Boys Hostel	1
2	Automatic Water Level Sensor	B1 Block	1
3	Automatic Water Level Sensor	C1 Block	1





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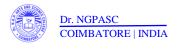
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Criterion VII Metric 7.1.2

2.b.Sensor-based Energy Conservation- LED Lights

The institution has installed sensor-based LED lights at several locations in the campus as a part of energy conservation measure. The following are the details of the sensor-based lights fitted in the campus:

S. No.	Name of the Facility	Location	Numbers Available
1	Sensory Based LED Lights	A1 Block- Room No.103	1
2	Sensory Based LED Lights	A1 Block- Room No.104	1
3	Sensory Based LED Lights	Rest Room- A1 Block	3



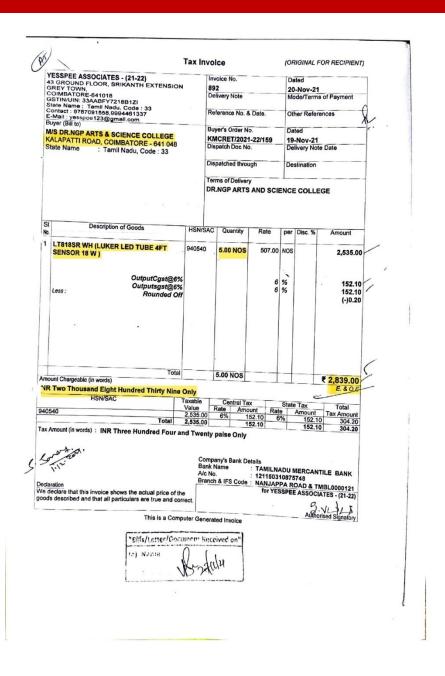


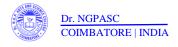
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Criterion VII Metric 7.1.2

2. c. Bills for Sensor based LED Lights







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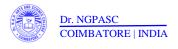
Criterion VII Metric 7.1.2

3. a. LED Lights

LED lights are installed in the campus at various locations like laboratories, classrooms, corridors and roads which saves up to 90% energy compared to a traditional bulb with the same light output.

The following are LED light facilities available in the institution:

S. No.	Item	Total Nos.
1	LED lights installed	250





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3. b. Bills for LED Light Purchase



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Solar Panels and LED Bulbs

S. No	Name of the Equipment	Model / No. of Units	Cost	Year of Purchase	
1	Solar Power Generating System (20 KWp)	85023990	16,50,000	2015	
2	Solar Power Generating System (30 KWp)	8502	17,50,000	2017	
3	Solar Power Generating System (30 KWp)	8502	17,13,000	2018	
4	CL Elite Pride Plus Neo 18 LED 6500K (250)	9405	48,751	2021	
		TOTAL	51,61,751		

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Dr.N.G.P. Arts and Science College
Dr.N.G.P. - Kalapatti Road
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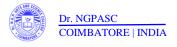
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Criterion VII Metric 7.1.2

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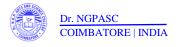
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Criterion VII Metric 7.1.2

4. a. Power Efficient Equipment

The institution has power efficient equipment for various needs such as cleaning of floors, removing the dust and waste on roads and for transport purpose. The following are the details of the power efficient equipment available in the campus:

S.No.	Name of the Facility	Purpose	Numbers Available
1	Power Efficient equipment	Floor cleaning	1
2	Power Efficient equipment	Road cleaning	1
3	Power Efficient equipment	Commutation	1





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4. b. Bills for Purchase of Power Efficient Equipment



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Battery-Powered Sweeper Machine

S. No	Name of the Equipment	Model / No. of Units	Cost	Year of Purchase
1	Battery-Powered Sweeper with a direct capacity of 80 litre	1/EA	8,44,516	2020
2.	Roots Scrub	1/EA		
3.	Brush Group	1/EA		
4.	A/Clean	25/L		
		TOTAL	8,44,516	

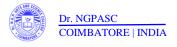
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or be taken back or exchanged. In as soon as goods have our gralown	J. James	Lybra By				Min	<i>T</i> \.
AND A REPORT OF A STANDARD AND ADDRESS OF A STANDARD	13' 1	W1 1 NOT	The second secon	hecked by		alle.	ign Mory