



KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE – 638 107

1. a. Solar Energy

A significant proportion of the power requirement of the institution is supported by the power generated through solar power cell. The institution has nonpolluting Solar cell being set up on Main block and BCA block. The Solar cell is capable of producing around 40kwhand 50 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.



↓
Dr. N. RAMAN
PRINCIPAL,
KONGU ARTS AND SCIENCE COLLEGE
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1. b. Energy Saved

S.No.	Year	Total Electric Power Consumed (kWh)	Power generated through Solar Cell (kWh)	% of Power generated through Solar Cell
1	2021-22	427506	65630	15.35
2	2020-21	235084	80251	34.14
3	2019-20	532546	87656	16.46
4	2018-19	547427	128613	23.49
5	2017-18	520439	120753	23.20
Average Solar Power generated				22.53




Dr. N. RAMAN
PRINCIPAL,
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2.a. Biogas Plant

The biogas produced from food waste, decomposable organic material and kitchen waste consisting of methane and a little amount of carbon dioxide is an alternative fuel for cooking gas.

Kitchen waste is mechanically processed and moistened to produce suspension that subsequently undergoes fermentation process. Fermentation produces biogas – a valuable energy source that is de-sulphurised by biological means.

Also the waste materials can be disposed off efficiently without any odor or flies and digested slurry from bio-gas plant can be used as organic manure in the garden.




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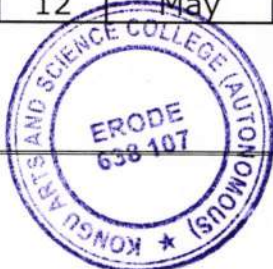
2.b. BioGas Usage Details

2017-18

S.No.	Month / Days in No.	Feed in Kg	Usage hours	Gas generated in Kg.	Average amount of Gas generated in Lit.
1	15-Jun	1800	90	255	72000
2	31-Jul	4030	217	527	161200
3	31-Aug	4650	217	496	186000
4	30-Sep	4800	210	558	192000
5	31-Oct	5270	217	496	210800
6	28-Nov	5580	186	496	223200
7	29-Dec	4960	217	527	198400
8	26-Jan	4650	186	496	186000
9	28-Feb	5270	217	558	210800
10	31-Mar	5580	217	527	223200
11	30-Apr	4960	186	496	198400
12	May	SEMESTER HOLIDAYS			

2018-19

S.No	Month / Days in No.	Feed in Kg	Usage hours	Gas generated in Kg.	Average amount of Gas generated in Lit.
1	15-Jun	1950	120	340	78000
2	31-Jul	4030	217	527	161200
3	31-Aug	4650	217	496	186000
4	25-Sep	3750	125	375	150000
5	31-Oct	5270	217	527	210800
6	27-Nov	4320	162	432	172800
7	31-Dec	5270	217	527	210800
8	26-Jan	4160	156	416	166400
9	28-Feb	4480	196	476	179200
10	31-Mar	5580	248	558	223200
11	30-Apr	5100	210	510	204000
12	May	SEMESTER HOLIDAYS			



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2019-20					
S.No.	Month / Days in No.	Feed in Kg	Usage hours	Gas generated in Kg.	Average amount of Gas generated in Lit.
1	15-Jun	2100	120	340	84000
2	31-Jul	4030	217	527	161200
3	31-Aug	5270	248	496	210800
4	25-Sep	3750	125	375	150000
5	31-Oct	5270	186	527	210800
6	26-Nov	3900	156	416	156000
7	31-Dec	5270	248	527	210800
8	26-Jan	4160	156	416	166400
9	28-Feb	4760	196	476	190400
10	15-Mar	2250	75	225	90000
11	Apr	COVID - 19 LOCKDOWN PERIOD			
12	May				

2020-21					
S.No.	Month / Days in No.	Feed in Kg	Usage hours	Gas generated in Kg.	Average amount of Gas generated in Lit.
1	Jun	COVID - 19 LOCKDOWN PERIOD			
2	Jul				
3	Aug				
4	Sep				
5	Oct				
6	Nov				
7	Dec				
8	Jan				
9	Feb				
10	Mar				
11	Apr				
12	May				





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2021-2022

S.No.	Month / Days in No.	Feed in Kg	Usage hours	Gas generated in Kg.	Average amount of Gas generated in Lit.
1	June	COVID-19 LOCKDOWN			
2	July				
3	August				
4	15-Sep	1950	75	225	78000
5	31-Oct	4650	155	496	186000
6	November	COVID-19 LOCKDOWN			
7	December				
8	15-Jan	1800	75	225	72000
9	28-Feb	4760	196	476	190400
10	15-Mar	2250	75	225	90000
11	30-Apr	4800	180	480	192000
12	31-May	5270	217	527	210800




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4. a. LED Lights

The College uses a maximum of LED bulbs and tubes for all its lighting needs inside the campus to conserve energy.

This is quite visible in all recent renovation projects. The overall college campus is installed with LED Bulbs. It optimizes the energy consumption and saves the cost of maintenance.

A well designed hi-tech LED lighting system can provide safety and financial benefit for the institution. Apart from financial benefits, it provides a go-green and eco-friendly environment.

The following are LED light facilities available in the institution:

S.No	Item	Total Nos
1	LED lights Installed	863




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5.a. Power efficient Equipment – Solar Water Heater

Solar water heaters use natural sun light to heat water. This system works on the thermo siphon principle and is designed to provide hot water without consuming expensive electricity. This is the most effective way to generate hot water thereby saving costly power and is also environment friendly. The institution has solar water heater installed in staff quarters to ensure supply of hot water with the support of solar energy.

S.No	Name of the equipment	Model/ Units	Cost(Rs.)	Year of Purchase
1	Solar Water Heater	4	1,12,000	2013



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