

GOVERNMENT DEGREE COLLEGE FOR WOMEN PULWAMA (J&K)




ENERGY AUDIT

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S. NO.	AQI MEASURES	CALCULATIONS	DOCUMENTS/PROOF OF THE MEASURE
1.	Installation of Energy efficient lighting Fixtures Does your college have 75% energy efficient LED bulbs? YES /NO Points - 02	Yes 90%	Enclosed the details of the total lighting fixtures in the college & no. of energy efficient lighting fixtures. Enclosed the Pictures of the energy efficient lighting fixtures.
2.	Installation of BEE star rated appliances. Does your college have at least 50% of the computers with at least 3 BEE star rating? (Yes/No)	Yes 55%-Computers	Enclosed the details of all the appliances in the college along with the rating.
	Does your college have all the appliances with at least 3 BEE star rating? (Yes/No) Points: 02	Yes	Attached the pictures of the appliances with the rating on it.
3.	Installation of on-campus renewable energy. Does your college meet the minimum 5% of the total annual demand load of the campus by the renewable energy? (Yes/No) Points: 02-04	Yes <5%	Enclosed the details of all the on-site renewable energy sources in the college. Attached the pictures of the Solar panels installed in our college.
4.	Installation of sub-meters. Does your college have sub-meters installed? (Yes/ No) Points: 02	Yes	Enclosed the details of all the Sub-meters installed in the college. Attached the pictures of the Sub-meters installed in the college.
5.	Use of electric vehicles. Does anybody in the college campus use electric vehicle (Staff, student, faculty)? (Yes/No) Points: 02	No	Enclosed the details of the Electric Vehicle used in our college.


GCI Committee Head
 Principal
 GWC, Pulwama
Principal
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USAGE OF ENERGY EFFICIENT APPLIANCES

We at GWC, Pulwama always strive to implement the statutory requirements wherever it is feasible and mandatory.

Location	No. of fans (@72W)	LED Bulbs (@3W)	AC's (@2600W)	Geyser (@2000)	Exhaust (@30W)
Administrative Block	76	107	15	4	6
Science Block	129	561	10	6	66
Library-cum-Humanities Block	73	432	12	02	4
Admission Block	02	12	01	0	01
Canteen	02	06	0	0	01
Huts	02	08	0	0	0
Energy consumption (Watts)	20448	3378	98800	24000	2340
GREEN ENERGY CONSUMPTION					
Solar Panel	5kW				
Street lights (Solar based)	15				

Electric Appliances

Items	Quantity
Xerox Machines	03
Printers	22
Computers	124
Projectors	04
Smart board	04
Generator	02
25kW	
5kW	01
UPS (@10kW)	05
Laptops	04


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Meter Reading during the year 2022

Bill Month	BIYear	Code	Name	Close Meter Read	Usage (KWh Units)	Opening Balance	This Month Charges
12	2022	0211010013941	GWC, Pulwama	1252	2100	-22427.64	22427.64
11	2022	0211010013941	GWC, Pulwama	1238	6300	-47060.64	47060.64
11	2022	0211010013941	GWC, Pulwama	2340	3300	-47060.64	47060.64
10	2022	0211010013941	GWC, Pulwama	2340	3300	-30389.95	30389.95
09	2022	0211010013941	GWC, Pulwama	1148	4500	0	35834.43
08	2022	0211010013941	GWC, Pulwama	1118	3600	-30130.54	30130.54
07	2022	0211010013941	GWC, Pulwama	1094	4800	-37735.72	37735.72
06	2022	0211010013941	GWC, Pulwama	1062	3600	0	30130.54
05	2022	0211010013941	GWC, Pulwama	1038	8700	-62452.56	62452.56
04	2022	0211010013941	GWC, Pulwama	980	3450	-29179.89	29179.89
03	2022	0211010013941	GWC, Pulwama	957	6000	-45340.9	45340.9
02	2022	0211010013941	GWC, Pulwama	917	7500	0	54847.38
01	2022	0211010013941	GWC, Pulwama	867	9300	-66255.15	66255.15

CARBON FOOT PRINT ANALYSIS

The most common greenhouse gases are carbon dioxide, water vapor, methane, nitrous oxide and ozone. Of all the greenhouse gases, carbon dioxide is the most prominent greenhouse gas, comprising 402 ppm of the Earth's atmosphere. Each human being is contributing towards adding green-house gases to the atmosphere depending upon his day to day activities and usage of instruments and machineries for different purpose. Release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon footprint. An understanding about the same of any institute where large number of anthropogenic activities are happening is important to assess the contribution of emission of gases that are responsible for Green House Effect. Auditing for carbon footprint of GWC, Pulwama was done using a detailed questionnaire, so that the impact of the community on global environment can be assessed.

1. Total number of vehicles used by the stakeholders of the college:
2. Number of cycles used: 25
3. No. of two wheelers used: 8

Average distance travelled: 10 Km


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- Average quantity of fuel used: 250 mL
4. No. of cars used: 20
Average distance travelled: 60 Km
Average quantity of fuel used: 3 L
5. No. of persons using public transportation: 10
6. No. of generators used per day: 1 (Occasional)
7. Amount of fuel used: 2 L
8. No. of LPG cylinders used in canteen/ Labs: 30

GOOD POINTS OBSERVED

1. College has prepared Green Environmental policy and has taken efforts for sustainable development on the college campus.
2. College has formed the team of faculty and student which works to maintain biodiversity on the campus and also participates in preventing pollution in society through various drives through NSS and NCC cadets
3. College has a plan to install solar panels in future.
4. College has already included environment protection and management as a subject in curriculum.
5. College has conducted Environment Awareness trainings and workshop for faculty and students.
6. College has also developed a herbal garden

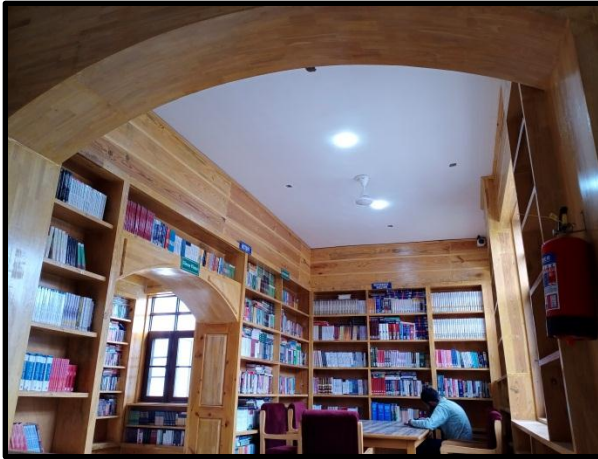

GCP Committee Head
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Awareness Programmes about Green Energy Alternatives

