



GORESWAR COLLEGE

গোবিন্দ মহাবিদ্যালয়
গরেস্বৰ ফৰায়সালিমা

GORESWAR, ASSAM, PIN- 781366

ENERGY AUDIT REPORT

Year: 2020-21

GORESWAR COLLEGE

Goreswar, Tamulpur, BTR, ASSAM

PIN: 781366

Prepared By

IQAC

GORESWAR COLLEGE

Audited By

APDCL, RANGIA

ENERGY AUDIT REPORT, (2018 - 2023)

1.	Name of the College	: Goreswar College Goreswar, Tamulpur, BTR, Assam
2.	Campus area	: 33272 SQM (8.22 ACR)
3.	Built up area	: 6113.85 SQM
4.	Ground Cover	: 517.89 SQM
5.	Date of establishment	: 29 th August, 1974

BRIEF HISTORY:

ENERGY AUDITING:

Energy auditing is a yearly routine method for assessing the institute's power consumption. Energy auditing is defined as "the verification, monitoring, and analysis of energy use, including the submission of a technical report containing recommendations for improving energy efficiency with cost benefit analysis and an action plan to reduce energy consumption" under the Energy Conservation Act of 2021. Goreswar College has prioritised the enhancement and understanding of energy alternatives like as solar energy among students, teachers, and other members of the institution in order to successfully implement an energy efficient campus. As the subject of environmental preservation has gained global significance in recent years, Goreswar College has deemed it critical to work diligently on it.

Energy conservation:

With a growing awareness of the importance of conserving energy, the college has implemented energy-saving measures. Efforts are being made to transition to solar energy in stages.

- ❖ The classrooms and laboratories are designed in such a way that they provide adequate light and air during class hours, resulting in significant energy savings.
- ❖ Goreswar College has begun a phased replacement of all existing bulbs and lights with LED lights as part of its energy-saving initiative. In fact, all newly constructed buildings have been outfitted with LED lights and 5-star rating ceiling fans in order to reduce energy use.

Efforts for Carbon neutrality:

With a greater green coverage, the college has always used every available method to produce a carbon-neutral environment.

- ❖ Goreswar College measures the amount of carbon dioxide and carbon monoxide using a gadget. It makes it easier to monitor and control the carbon concentration in the atmosphere.

- ❖ The Eco Club is founded to keep the planet carbon-neutral. Green Earth Society, Biotech Hub, and the Students' Union collaborated to organise lectures, speeches, and workshops, creating a forum for raising awareness among college members and continuing efforts for an eco-friendly campus.
- ❖ The college administration has taken steps to reduce carbon emissions on campus by prohibiting the burning of wastepaper, dried leaves, and other similar waste products. Emission certificates from the Assam Pollution Control Board of cars and vehicles belonging to college members are also verified for by the college authority timely.

E-waste management:

E-waste, such as damaged computer components, batteries, electronic items, electrical appliances, and empty toner canisters, is disposed of as scrap and distributed to organisations and municipalities that recycle such things.

Energy Consumption Data:

Assam Power Distribution Company Limited provides electricity to Goreswar College. The energy used by Goreswar College is classified as HT IV Bulk Supply (Government Education). The contracted load is 19.0 KW, while the contracted demand is 22.35 KVA.

CONSUMER DETAILS:

Name of the Consumer	Tariff Category	Consumer ID No
Goreswar College	LT- CATEGORY- LT GENERAL PURPOSE (GP)	077000024175

The College facility also has 1 DG sets having total capacity of 25 KVA. The DG set is mainly used for power failure from APDCL.

Sl. No.	DG Details	Make
1	25 KVA	KIRLOSKAR (manufactured by Powerline Industries)

The energy efficiency assessment was conducted for the load connected to the mains supply.

Mainly energy is used for the following purposes:

- 1) Lighting's load
- 2) Air conditioners
- 3) Fan
- 4) Operation of Water Pump
- 5) To run Lab facilities
- 6) Computers

MONTHLY ENERGY CONSUMPTION:

During: (2020-21 session)

Month	kWh	PF	Maximum Demand (kVA)	Billed Demand (kVA)	Total Current Bill (Rs)
Jul-20	1023	0.85	9.41	9.41	10763
Aug-20	540	0.85	9.41	9.41	7067
Sep-20	1609	0.85	9.41	9.41	12192
Oct-20	1021	0.85	9.41	9.41	8382
Nov-20	1236	0.85	9.41	9.41	9715
Dec-20	827	0.85	9.41	9.41	7111
Jan-21	673	0.85	9.41	9.41	6374
Feb-21	637	0.85	22.35	22.35	7489
Mar-21	648	0.85	22.35	22.35	7384
Apr-21	1005	0.85	22.35	22.35	9713
May-21	884	0.85	22.35	22.35	8704
Jun-21	853	0.85	22.35	22.35	8585

SOME SNAPSHOTS OF ELECTRONIC CONSUMPTION



RECOMMENDATION:

1. It is suggested to install a transformer by the college in view of access load capacity.
2. It is seen that the connected load in KW is 19.0 but consumption demand in KVA is 22.35. Therefore it is advice to extend the load capacity of the college.


Signature
Auditing
Sub-Divisional Engineer ..
Rangia Electrical Sub-Division-1
APDCL (L&R) Rangia


Principal
Goreswar College


Co-ordinator
IQAC
Goreswar College

COORDINATOR
IQAC
Goreswar College



GORESWAR COLLEGE

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গরেस्वर फरायसालिमा

GORESWAR, ASSAM, PIN- 781366

ENERGY AUDIT REPORT

YEAR: 2021-22

GORESWAR COLLEGE

Goreswar, Tamulpur, BTR, ASSAM

PIN: 781366

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IQAC

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APDCL, RANGIA

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3. **Built up area** : 6113.85 SQM
4. **Ground Cover** : 517.89 SQM
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INCEPTION HISTORY:

Goreswar College, Goreswar is one of the premier institutions of Higher Education of Assam. Popularly known as Goreswar College, this institution was established in 9th of August 1974. Initially it was operated from the premises of Goreswar Higher Secondary School by a group of teachers.

Since inception the college has been providing Undergraduate Courses in Arts and later on, in science and commerce. It was at the initiative of the neighbourhood community and the generous donation made by the BETNA SIKSHYA ARU KRISHI UNAYAN SANGHA. It was only from the next year that the college functioned for the first time from its own premises. Since then, it is the Governing Body (GB) that constitutes the primary management system of the college. Establishment of the college was driven by a holistic approach towards higher education to the marginal student community who could not access the central/city colleges for various reasons. It was also an educational outreach for the students who lived beyond the city limits and the entire Northeast especially in the Assam-Bhutan border. However, since the last two decades the college has notched up its credibility as it attracts some of the best students from the entire region for its non- traditional subjects at the UG level.

DEMOGRAPHY OF THE AREA:

The demography of Goreswar area is heterogeneous in nature with people of different language, culture and ethnicity such as Bodo, Assamese, Bengali, Gorkha, Rabha, Sarania etc. People of different religion such as Hindu, Muslim, Christian and Buddhist live peacefully in the region. Majority of the people are agriculturist and wage labourer with very little number of professional population.

NECESSITY OF THE COLLEGE IN THE AREA:

There was not a single higher educational institution in the Goreswar area for which the then intelligentsia of the Goreswar area thought about establishment of a college in the area. The College presently serves a vast population of Tamulpur, Udalguri and Kamrup (R) district. Before the establishment of the College, the students of the area were compelled to travel to Guwahati covering a distance of about 85 Km for higher education. Till date, the college is the only institutions of higher education in the area.

PROVINCIALISATION OF THE COLLEGE:

Started as an Arts College with the P.U. (pre-university now Higher Secondary) course in 1974 with 116 students, it rose to the status of a Degree College in and from the session 1977-78 as per G.U. Order No.-Aff /cg/1/77 with its P.U. (now H.S.) program still continued. The College was brought under Deficit system of Grants-in-Aid with effect from 1.9.81 as per Govt. of Assam, Director of Public Instructions' Order No. NC.G (A) RC-2/82/17 dated Kahilipara, the 22nd July 1982. Again the College was provincialised w.e.f. 1st December 2005 by the Govt. of Assam along with other Deficit system of Grants-in-Aid Degree Colleges. The college has obtained inclusion under 2(F) & 12(B) of the UGC Act. of 1956 vide UGC order no. F8-31/95(CPP-I) dated 8th April 2003. At present the College has three streams-1) Arts and 2) Commerce and 3) Science.

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With a greater green coverage, the college has always used every available method to produce a carbon-neutral environment.

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- ❖ The Eco Club is founded to keep the planet carbon-neutral. Green Earth Society, Biotech Hub, and the Students' Union collaborated to organise lectures, speeches, and workshops, creating a forum for raising awareness among college members and continuing efforts for an eco-friendly campus.
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During: (2021-22 session)

Month	kWh	PF	Maximum Demand (kVA)	Billed Demand (kVA)	Total Current Bill (Rs)
Jul-21	897	0.85	22.35	22.35	8646
Aug-21	1225	0.85	22.35	22.35	10988
Sep-21	1643	0.85	22.35	22.35	13851
Oct-21	1929	0.85	22.35	22.35	15968
Nov-21	1848	0.85	22.35	22.35	15478
Dec-21	1008	0.85	22.35	22.35	9586
Jan-22	790	0.85	22.35	22.35	8050
Feb-22	702	0.85	22.35	22.35	7602
Mar-22	668	0.85	22.35	22.35	6977
Apr-22	912	0.85	22.35	22.35	8943
May-22	832	0.85	22.35	22.35	9009
Jun-22	1397	0.85	22.35	22.35	12821





RECOMMENDATION:

1. A timely inspection of wiring has been suggested.
2. The college can install solar panel for alternative source of energy.

Choudhury
Signature
Auditing Authority
Sub-Divisional Engineer
Bengla Electrical Sub-Division-1
APBCL (LAR) Rangia

[Signature]
Principal
Goreswar College
PRINCIPAL
Goreswar College

[Signature]
Co-ordinator
IQAC
Goreswar College
COORDINATOR
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Goreswar College



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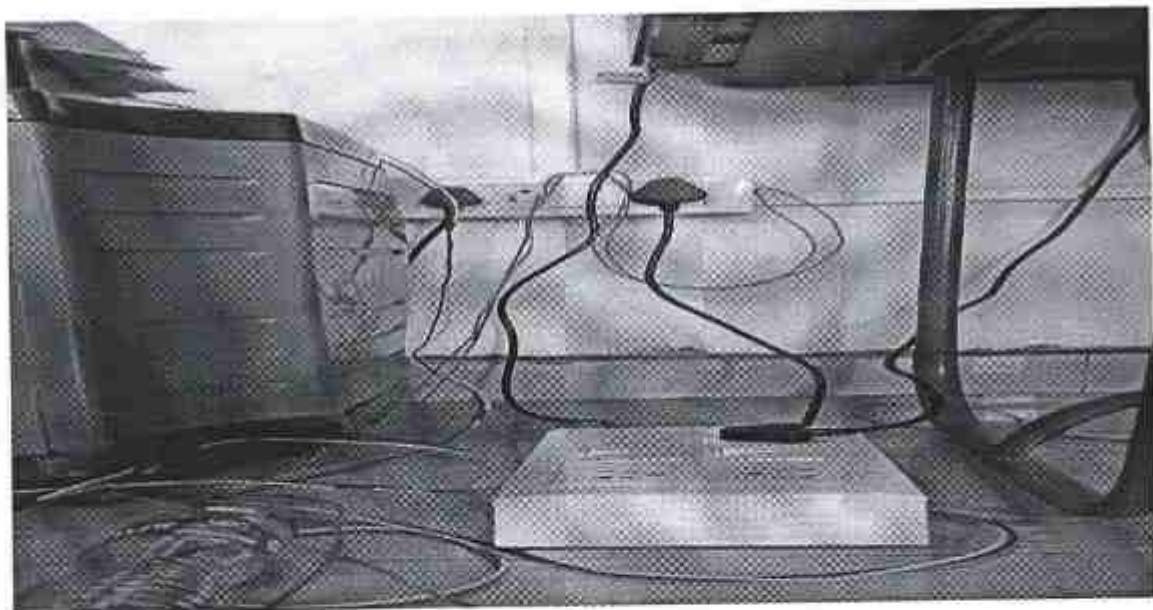
MONTHLY ENERGY CONSUMPTION:

During: 2022-23 session

Month	kWh	PF	Maximum Demand (kVA)	Billed Demand (kVA)	Total Current Bill (Rs)
Jul-22	1342	0.85	22.35	22.35	12403
Aug-22	1576	0.85	22.35	22.35	14095
Sep-22	2846	0.85	22.35	22.35	23787
Oct-22	2593	0.85	22.35	22.35	22224
Nov-22	1448	0.85	22.35	22.35	14006
Dec-22	967	0.85	22.35	22.35	10190
Jan-23	777	0.85	22.35	22.35	9079
Feb-23	712	0.85	22.35	22.35	8685
Mar-23	794	0.85	22.35	22.35	8830
Apr-23	1001	0.85	22.35	22.35	10667
May-23	1055	0.85	22.35	22.35	11235
Jun-23	1889	0.85	22.35	22.35	18784

SOME SNAPSHOTS OF ELECTRICITY CONNECTIVITY





RECOMMENDATION:

1. It is suggested to install another DG in the campus as single DG is not sufficient to hold the load.
2. Regular and timely monitoring of wire connectivity.
3. It is suggested to convert all bulbs into LED to minimize electricity consumption.
4. It is recommended to install solar panel as an alternate source of energy.

C. Maiti

Signature
Auditing Authority Engineer
Sub-Division-1
Bangla Electrical Sub-Division-1
APDCL (LAB) Rangia

[Handwritten Signature]

Principal
Goreswar College

PRINCIPAL
Goreswar College

[Handwritten Signature]

Co-ordinator
IQAC
Goreswar College

COORDINATOR
IQAC
Goreswar College



Assam Power Distribution Company Limited

NAME OF ELECTRICAL SUB-DIVISION / IRCA : RANGIA1

CIN: U40109AS2003SGC007242

GSTIN: 18AABCL1354J1ZJ

ELECTRICITY BILL

Website: www.apdcl.org

Centralized Customer Care Number: 1912

Consumer Name GORES WAR COLLAGE Address: NO2 GORES WAR Contact Number : 7002095758 Email : Tariff Category: LT V(A) GENERAL PURPOSE (OTHER) Supply Voltage Level: LT	Consumer Number: 077000024175 Old Consumer Number: IND18 DTR Number: 800 Pole Number :000 Connected Load in KW: 19.0 Contracted Demand in KVA: 22.35 Load Security:0.0 Meter Number: A3007198	Bill Amount: 22169.0 Due Date: 21-Nov-2023 Bill Number:901510672 Bill Period: 01-Oct-2023 To 31-Oct-2023 Bill Date : 06-Nov-2023 Number of Days: 31 Meter Status: Defective Billing Status: ESTIMATED
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077000024175

Meter Reading Details

Reading Type	Meter Number	MF	Previous Reading in KWh	Previous Export in KWh	Current Reading in KWh	Current Export in KWh	Difference Reading in KWh	Difference Export in KWh
KWH (Normal)	A3007198	1.0	96270.0	0.0	96270.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0

Units Consumed	PF Penalty/Rebate	LT Metering Penalty @ 3%	DTR Penalty @ 10%	HT Rebate @ 3%	Billable Units in KWh
2154.0	0.0				2154.0
0.0	0.0				0.0
Recorded Demand (in KVA)	0.0	Maximum Demand (in KVA)	0.0	Billing Demand (in KVA)	22.35
Power on Hours	0.0	Freeze Amount	0.0	Availability Percentage	Average Power Factor
					85.0

FPPPA Details

Slab-1 (Unit Rate Charge)	Slab-2 (Unit Rate Charge)	Slab-3 (Unit Rate Charge)	Slab-4 (Unit Rate Charge)	Slab-5 (Unit Rate Charge)
2154.00 1.29 2778.66	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

Billing Details

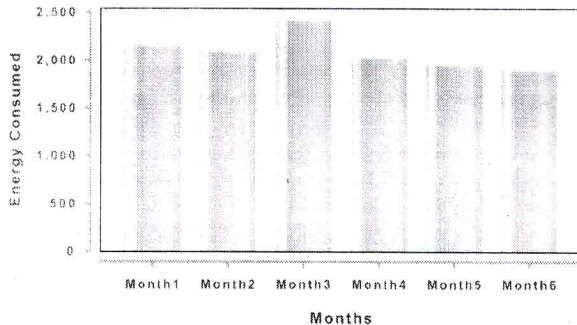
Current Demand	Outstanding Amount	Adjustment Amount	Government Subsidy	Solar Rebate	Net Bill Amount
Rs. 22169.49	Rs. 0.00	Rs. 0.00	Rs. 0.0	0.0	Rs. 22169.0

In Words: Rupees Twenty Two Thousands One Hundred Sixty Nine Only

PLEASE PAY YOUR BILL ON TIME AND HELP US TO SERVE YOU BETTER

Charges Breakup		Units	Rate	Amount
Energy Charge		2154.0	6.95	14970.30
		0.0	0.0	0.00
		0.0	0.0	0.00
Total Energy Charge				14970.30
Energy Charge Re-Estimated				0.00
Demand/Fixed Charge		19.0	165.0	3195.12
FPPPA Charge				2778.66
Electricity Duty			5.0	908.27
Govt. Subsidy			0.0	0.0
Meter Rent			175.0	0.0
Transformer M D Charge				
Overdrawal Penalty				0.0
Adjustment Amount				0.0
Charges for dishonoured cheque				0.0
Arrear Principal				0.0
Arrear Surcharge				0.0
Current Surcharge				317.14
Misc. Arrear				0.0
Rebate if paid before due date				0.0
Payable amount before due date				22169.0
Payable amount after due date				22169.0

Energy Consumption (Last Month's Bill)



Checked by E&OE:

Prepared by: eSuidha

Signature with seal

PRINCIPAL
Goreswar College