



POLICY FOR GREEN ENERGY AND CLEAN ENVIRONMENT IN THE CAMPUS OF DR. B.C. ROY ENGINEERING COLLEGE, DURGAPUR

A Green Campus is a place where environmental friendly practices and education system jointly promote sustainable and eco-friendly ambiance in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind. Green Campus status is achieved by making significant progress in cross campus community collaboration under one or a number of the following themes:

- Energy
- Water
- Waste
- Green Campus

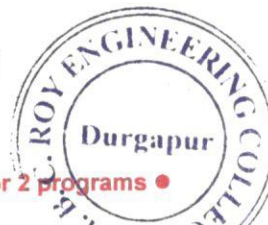
National Social Service Scheme (NSS) volunteers of the institute, primarily the under graduate and post graduate students propagate these ideas amongst the neighborhood villages.

Energy: Reduce energy consumption

- i. Implemented solar system to cut down the heavy usage of electricity
- ii. Activate power management features on computers and monitor so that it will go into a low power "sleep" mode when the employees are not working on it.
- iii. Turn off monitor when the employees leave the table.
- iv. Turn off unnecessary lights and use daylight instead.
- v. Use LED or compact fluorescent bulbs as much as possible
- vi. Switch off lights, fans in conference rooms, classrooms, and lecture halls when they are not in use.

Water Conservation: Minimize consumption of water

- i. Encourage use of recycled rainwater and grey water to reduce main water consumption.
- ii. Repair sources of water leakage, such as dripping taps and showers as quickly as possible.
- iii. Install appliances which reduce water consumption.
- iv. Use an efficient and hygienic water storage mechanism is to minimize the loss of water during storage.
- v. Waste water treatment and recycling (Long term goal)





Solid Waste Management

Waste minimization is very important because it makes good business sense to protect the environment and boost environmental performance. Waste minimization techniques focus on preventing waste from ever being created, otherwise known as source reduction, and recycling context.

- i. Keep a stack of paper that has been printed on one side and use it for day to day rough paper work
- ii. Use more readout material in soft form. Reduce the hard readout material. Use more of e-mail for officially communicating the information needed, online reading etc
- iii. Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost produced on site wherever possible.
- iv. Reduce the practice of burning plastic and other materials that emit harmful gas on burning is prevented in the campus.
- v. Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment
- vi. Segregation of biodegradable/non-biodegradable/hazardous wastes in the college campus
- vii. Recycle electronics and batteries in e-waste recycling bins located around campus.
- viii. Dispose the chemical waste generated from the laboratories in a scientific manner.

Green campus drive

Greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs, correct disposal handling, purchase of environment friendly supplies and effective recycling program. Institute has taken following strategies to implement green campus initiatives.

- i. Restricted entry of automobiles
- ii. Public transport using green fuel to be encouraged to meet conveyance requirements of students and staff at college campus.
- iii. Ban on use of plastic
- iv. Landscaping with trees and plants

Disabled friendly environment

- i. Built-in ramps/lifts for easy access to classrooms
- ii. Disabled friendly washrooms (progressive implementation)



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24/9/2020

Pijush Pal Roy
DIRECTOR

Dr. B. C. Roy Engineering College
DURGAPUR



EN SIMULATED
SOLUTIONS LLP

ENERGY & GREEN AUDIT REPORT

On

NAAC ACCREDITATION (2020-2021)

Of




Dr. B.C. Roy Engineering College


Jemua Road, Fuljhore
Durgapur-713206, West Bengal, India

Submitted by

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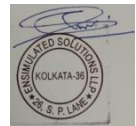
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ENERGY & GREEN AUDIT COMPLETION CERTIFICATE

This is to certify that following utility has carried out Energy & Green Audit as per guidelines laid down in The Energy Conservation Act, 2001 in the month of DECEMBER 2021

Name of the Installation	Dr. B.C. Roy Engineering College Jemua Road, Fuljhore Durgapur-713206, West Bengal, India
Details of Facilities Audited	BCREC Main Building Management House ME Department AJC Bose Bhawan EE Department Vidyasagar Bhawan CE Department Rabindra Bhawan Satyen Bose Hall & residence Chittaranjan Boy's Hostel Aurobindo Boy's Hostel Mother Teresa Girl's Hostel Nivedita Girl's Hostel
Date of Energy and Green Audit	17.12.2021
Name of Certified Energy Auditor	Mr. Saibal Saha
Certification Sl. No.	8890 (EA-12290)
Validity of the Certificate	DECEMBER 2022



Signature of Auditor
(Mr. Saibal Saha)
Executive Director



Acknowledgement

En-Simulated Solutions LLP extends gratitude to Dr. B.C. Roy Engineering College for extending us the opportunity to conduct the Energy & Green Audit.

We are thankful to the professors & supporting staffs of the college for their transparency & consistent support in sharing relevant information and for providing data about policies and projects along with their other valuable information. This report would have not been possible without their support.

The study team would like to acknowledge the following distinguished personnel's of Dr. B.C.Roy Engineering College in person for the diligent involvement and cooperation.

Dr. Sanjay S Pawar, Principal, Dr. B.C. Roy Engineering College

Prof. Dr. Sanjay Sengupta, Head of the Department of Civil Engineering

Prof. Dr. Jayanta Pal, Head of the Department of Basic Science & Humanities

Mr. Pabitra Kumar Dey, Head of the Department of Computer Applications (MCA)

Ms. Sreepana Bhattacharya

Ms./Mrs. Ruma Mitra

Mr. Soumyadip Das

Mr. Anup Das

Mr. U.K. Sharma

Mr. Ratnakar Ghosh



About the Institution

Dr. B. C. Roy Engineering College (BCREC) is a private engineering college in Durgapur named after legendary physician Dr. Bidhan Chandra Roy, located in Paschim Bardhaman district, West Bengal, about 200 kilometers from the city of Kolkata, India. It was established on 21 August 2000 with its first batch of students. It offers undergraduate and postgraduate courses in Engineering, Technology and Management. The college is affiliated under All India Council for Technical Education and Maulana Abul Kalam Azad University of Technology formerly known as West Bengal University of Technology (WBUT). BCREC is a platform for the hundreds of students who could not afford to go South for a degree in Engineering of Management.

BCREC, in its 19th year now, offers 5 M.Tech. Programs, 7 B.Tech. Programs and 2 Post Graduate Programs in Management and Computer Application. Spread over a large area of about 17 acres, BCREC has multistoried buildings for each separate department, a Central Library, a Recreation Area, Games and Sports Arenas, Multigyms, state of art Laboratories for all subjects including English Language.

There is a robust Training and Placement Cell which ensures that their students are trained for the whole semester in order to succeed in Campus Placements. GATE Forum ensures that students opting for higher education in Engineering are also suitably trained. More than a few hundreds of teaching staff with sterling academic careers and credentials are the guardians of the teaching learning process in this college. However most important stakeholder of the equation is the "Student" holds the centre part of the entire process. The BCREC offers 1:15 Teacher: Student ratio.

The Hostels, spacious and well monitored, are incubators for our future technocrats. From IBM, TCS, Wipro, Accenture, CapGemini, CTS to Tech Mahindra, Hewlett Pacard, Indian Navy alumni still remain in close connect with the institution Alumni Cell and placements also offered from these establishments.

Maxim:

Dedicated to 'Quality Education'



Provisions offered by the institution

1. Eco-Friendly Wifi Learning Environment in Sylvan Campus

2. Central Library: Dr. Meghnad Saha Central Library, located in an aesthetically designed three-storied Separate Building is endowed with -

- Over 70,592 Volumes – all the books coded and computer supported.
- Electronic Library with Internet Connectivity.
- On-Line and Off-Line access to INDEST – AICTE supported IEL.
- On-Line for over 150 IEEE/IEE peer reviewed full text journals.
- DEL & DELNET On-Line Databases with over 3242 CD Rom/Discs.

3. State-of-the art Language Laboratory (Communication Management)

- Developed in consultation with STEP-IIT, Kharagpur.
- Computer Aided Communication Management -- Interactive Software Integrated Learning System (CACM – ISILS).
- Key Features – 32 Seater high-end Lab with individual user consoles for 1:1 teacher student interaction.
- Mock Seminar Hall Format with Right Multimedia Support & Maximum Teacher Attention.
- Effective Tool for Improving Linguistic Competence & Soft Skill Development for Budding Engineers, MBAs and others.

4. State-of-the art Language Laboratory (Communication Management)BCREC – ISRO – WBUT e-learning Programme (EDUSAT)

- BCREC – One of the First 50 Colleges in India to get this facility.
- Product of a Landmark INDO-US Agreement on Educational Exchange.
- Facility for Direct e-learning with US Ivy League Universities.
- Other Collaborators: AMRITA Visha Vidyapeetham, ISRO, DST.
- MICROSOFT, QUALCOMM, CADENCE To Fund.

5. R&D Centre

- To give direction to research efforts by teachers and students, a well-equipped Research & Development Centre (RDC) functions to serve a couple of researchers at a time.
- Adjacent CAD/CAM/ROBOTICS Lab provides required tool room support.

6. CAMPUS LAN

- Computers served on Common LAN & Provision for Internet on Any Computer Simultaneously.
- Network managed by Servers & Managed Switches.
- Internet Connectivity via Wireless Radio Link & OFC.

7. Multi-Gym & Play Ground

- Separate Well-Equipped Gym for male and female students with Meditation Centre.
- Football, Cricket, Basket Ball, Volley Ball are popular.
- Annual Sports in winter.



INTRODUCTION

ENERGY AUDIT:

Energy Audit is an effective tool in defining and pursuing comprehensive energy management programmes. It has positive approach aiming at continuous improvement in energy utilization in contrast to financial audit which stresses to maintain regularity. Energy audit provides answer to the question – what to do, where to start, at what cost and for what benefits.

Energy audit helps in energy cost optimization, pollution control, safety aspects and suggests the methods to improve the operating and maintenance practices of the system. It has been established that energy saving of the order of 15 to 30% is possible by optimizing use of energy by better housekeeping, low cost retrofitting measures and use of energy efficient equipment at the time of replacements. Indian industry consumes more energy as compared to its counter parts in the developed countries.

Need/Purpose:

The energy audit provides the vital information base for overall energy conservation programme covering essentially energy utilization analysis and evaluation of energy conservation measures.

It aims at:

- Assessing present pattern of energy consumption in different cost centers of operations.
- Relating energy inputs and production output.
- Identifying potential areas of thermal and electrical energy economy.
- Highlighting wastage in major areas.
- Fixing of energy saving potential targets for individual cost centers.
- Implementation of measures of energy conservation and realization of savings.



GREEN AUDIT:

The green audits are tools that organizations use to identify their environmental impacts and assess their compliance with applicable laws and regulations, as well as with the expectations of their various stakeholders. It also serves as a means to identify opportunities to enhance work quality, improves employee health, safety and morale, reduce liabilities and achieve other form of business values.

This concept has got its origin in recent past and suddenly got acceleration due to heavy industrial & commercial traffic which ends with unaccountable emission resulting pollution. Due to growth in population, needs has increased.

It is the duty of organizations to carry out the Green Audits of their ongoing processes for various reasons such as; to make sure whether they are performing in accordance with relevant rules and regulations, to improve the procedures and ability of materials, to analyze the potential duties and to determine a way which can lower the cost and add to the revenue. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit.

Green Audit is assigned to the Criterion 7 of NAAC (National Assessment and Accreditation Council) which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation.

Need/Purpose:

The intention of organizing Green Audit is to upgrade the environment condition in and around the institutes, colleges, companies and other organizations. It is carried out with the aid of performing tasks like waste management, water conservation, sufficient green cover and proper use of day-lighting in indoor environment. Thus it's a tool to turn the infrastructure into a better environmental friendly institute by securing the environment and cut down the threats posed to human health:

- To make sure that rules and regulations are well taken care of.
- To avoid the interruptions in environment that are more difficult to handle and their correction requires high cost.
- To suggest the best protocols for adding to sustainable development.
- To suggest improvement in the system to promote safe and clean environment.



Audit Methodology

Step 1: Initial Meeting

The Energy & Environment auditor has been invited for a meeting to discuss the audit scope and arrange an inspection of the site.

Step 2: Site Inspection

The site inspection has been conducted last 23rd of this month at the time of initial meeting. Ideally the site inspection has been conducted with the establishment officials who can answer questions about the site.

Step 3: Desktop Analysis

The Energy & Environment auditor has assessed last 24 months of the energy bills in order to investigate the energy use and check tariffs and also checked the environmental facilities offered by the institution.

Step 4: The Report

The Energy & Environment auditor has provided a written report. The scope, level of detail and accuracy of calculations have presented in the report.

In general the report will consist of the following:

- Analysis of the site's energy usage & costs and implementation of mandatory environmental features.
- A tariff analysis to make sure there are no overcharges.
- Provide information on how the site compares to other similar buildings or business.
- Identify how and where energy & environment are being used at the site.
- Provide a list of energy & environment saving opportunities.

Step 5: Implementation

The Energy & Environment audit has provided a list of options to save energy & upgrade the environmental conditions respectively. Most of the recommendations involve some capital expenditure however the report should help to determine which are the most cost effective and practical.

The next step is to obtain quotes from suppliers, implement recommendations.

Step 6: Support

The Energy & Environment auditor should be available for consultation with the establishment to provide necessary support and guidance.



PRESENTATION OF DATA & INFORMATION

A. Electricity Bill Analysis for the period of July'20- June'21

Consumer No. 010063
 Tariff Code: E (EIT) & E (EI)
 Supply Voltage (KV):11.00
 Contract Demand (KVA):550.00
 Type: TOD & W

ELECTRICITY UTILITY ANALYSIS FOR THE PERIOD OF JULY'20-JUNE'21																						
Month	Energy Consumption (kWh)			Inj. RD. Adv. (kWh)	Total E.C. (kWh)	P.F.	L.F. %	Unit/Rate (Rs.)			Energy Charges (Rs.)			Total E.C. (Rs.)	Demand Charges (Rs.)	LF Reb(-)/Sur(+) Charge (Rs.)	PF Reb(-)/Sur(+) Charge (Rs.)	Electricity Duty Charges (Rs.)	MVCA Charges (Rs.)	Rental Charges (Rs.)	TCS Charges (Rs.)	Total Bill Amount (Rs.)
	Normal	Peak	Off-Peak					Normal	Peak	Off-Peak	Normal	Peak	Off-Peak									
July'20	16690	6790	7160		30640	0.9356	9.4158	4.05	4.46	3.77	67594.5	30283	26993.2	124871.1	149760	5071.27	-1958.68	50667.12	14707.2	1200	0	344318.01
Aug'20	16530	7290	7600		31420	0.9321	9.6918	4.05	4.46	3.77	66946.5	32513	28652	128111.9	149760	4962.79	-1797.73	51302.54	15081.6	1200	0	348621.1
Sept'20	19060	7170	6830		33060	0.9413	10.434	4.05	4.46	3.77	77193	31978	25749.1	134920.3	149760	4615.41	-2633.89	52413.43	15868.8	1200	1766.06	357910.11
Oct'20	14310	6440	6450		27200	0.9376	8.3405	4	4.4	3.72	57240	28336	23994	109570	149760	5432.97	-2120.74	48003.53	13056	1200	243.81	325145.57
Nov'20	16220	6770	6090		29080	0.909	9.5039	4	4.4	3.72	64880	29788	22654.8	117322.8	149760	4741.52	-113.27	49492.23	13958.4	1200	0	336361.68
Dec'20	15400	7330	6440		29170	0.8962	9.3583	4	4.4	3.72	61600	32252	23956.8	117808.8	149760	4875.56	-119.78	49606.01	14001.6	1200	0	337132.19
Jan'21	27751.2	0	0	732	27019.2	0.8886	8.9786	4.1	0	0	110779	0	0	110778.72	149760	4821.29	0	48220.54	12969.216	1200	0	327749.77
Feb'21	25065.6	0	0	774	24291.6	0.8886	8.9786	4.2	0	0	102025	0	0	102024.72	149760	4334.58	0	45986.94	11659.968	1200	0	314966.21
March'21	27906	0	0	198	27708	0.9035	8.8805	4.2	0	0	116374	0	0	116373.6	149760	5029.48	0	49283.2	13299.84	1200	0	334946.12
April'21	32763	0	0	0	32763	0.9298	10.469	4.2	0	0	137605	0	0	137604.6	149760	4547.66	-688.02	53179.17	15726.24	1200	0	361329.65
May'21	18840	0	0	3	18837	0.932	5.8116	4.2	0	0	79115.4	0	0	79115.4	149760	6219.45	-791.15	42159.6	9041.76	1200	0	286705.06
June'21	17985	0	0	0	17985	0.9486	5.6328	4.2	0	0	75537	0	0	75537	149760	6183.77	-1132.61	41398.26	8632.8	1200	0	281579.22



Connected Load Details

Dept./ Building	Type	Total Qty.	Loads (kW)/ Unit	Daily Op. hr(s)	Daily kWh	Monthly Op. hr(s)	Monthly (kWh)
BCREC Main Building:							
	Tube light	585	0.04	7.5	175.5	150	3510
	CFL	77	0.012	7.5	6.93	150	138.6
	LED	37	0.009	7.5	2.4975	150	49.95
	Ceiling Fan	366	0.06	7.5	164.7	150	3294
	Projector	6	0.3	3	5.4	60	108
	Window A.C. 1 ton	17	1.2	5	102	100	2040
	Window A.C. 1.5 ton	67	2	5	670	100	13400
	Window A.C. 2 ton	2	2.5	5	25	100	500
	OTIS Elevator	1	10	7.5	75	150	1500
Management House:							
	Tube light PLC 20 W	32	0.02	7.5	4.8	150	96
	Tube light 4ft 36 W	40	0.036	7.5	10.8	150	216
	Tube light 2ft 20 W	6	0.02	7.5	0.9	150	18
	Tube light LED 4ft 36 W	1	0.036	7.5	0.27	150	5.4
	LED Lamp 3W	5	0.003	7.5	0.1125	150	2.25
	LED Lamp 9W	14	0.009	7.5	0.945	150	18.9
	LED Lamp 12W	37	0.012	7.5	3.33	150	66.6
	LED Lamp 18W	40	0.018	7.5	5.4	150	108
	LED Lamp 23W	1	0.023	7.5	0.1725	150	3.45
	Ceiling Fan 70W	1	0.07	7.5	0.525	150	10.5
	Ceiling Fan 75W	35	0.075	7.5	19.6875	150	393.75
	Ceiling Fan 90W	2	0.09	7.5	1.35	150	27



	Wall Bracket Fan 50W	1	0.05	7.5	0.375	150	7.5
	Exhaust Fan 75W	1	0.075	7.5	0.5625	150	11.25
	TV CTR 100 W	1	0.1	3	0.3	60	6
	TV LED 70W	5	0.07	3	1.05	60	21
	Window A.C. 1.5 Ton	3	1.75	5	26.25	100	525
	Split A.C. 1 Ton	9	1.25	5	56.25	100	1125
	Split A.C. 1.5 Ton	5	1.75	5	43.75	100	875
	Split A.C. 2 Ton	3	2.25	5	33.75	100	675
	Geyser	5	1.5	3	22.5	60	450
Mechanical Building:							
	Tube light	208	0.04	7.5	62.4	150	1248
	Halogen	5	1	3	15	60	300
	Stand Fan	17	0.15	5	12.75	100	255
	Ceiling Fan	91	0.06	7.5	40.95	150	819
	Wall Mounted Fan	3	0.05	3	0.45	60	9
	Split A.C. 1 Ton	8	1.2	5	48	100	960
AJC Bose Bhawan:							
	Tube light	38	0.04	7.5	11.4	150	228
	LED Lamp & Bulb	53	0.009	7.5	3.5775	150	71.55
	Ceiling Fan	54	0.06	7.5	24.3	150	486
	Speaker	8	0.018	3	0.432	60	8.64
	Air Conditioner 1.5 Ton	7	1.75	5	61.25	100	1225
	Air Conditioner 2 Ton	11	2.25	5	123.75	100	2475
Electrical Engineering:							
	Fluorescent Tube	139	0.04	7.5	41.7	150	834
	CFL	32	0.012	7.5	2.88	150	57.6
	LED	12	0.009	7.5	0.81	150	16.2
	Ceiling Fan	69	0.06	7.5	31.05	150	621
	Wall Mounted Fan	4	0.05	3	0.6	60	12
	Window A.C.	8	2	5	80	100	1600



	1.5 Ton						
	Split A.C. 1 Ton	1	1.2	5	6	100	120
Vidyasagar Bhawan:							
	Tube Light	144	0.04	7.5	43.2	150	864
	LED Light	33	0.009	7.5	2.2275	150	44.55
	CFL	62	0.012	7.5	5.58	150	111.6
	Ceiling Fan	130	0.06	7.5	58.5	150	1170
	Projector	2	0.3	3	1.8	60	36
	A.C. 1 Ton	1	1.2	5	6	100	120
Civil Department:							
	Tube light	126	0.04	7.5	37.8	150	756
	CFL	80	0.012	7.5	7.2	150	144
	Ceiling Fan	149	0.06	7.5	67.05	150	1341
	Projector	4	0.3	3	3.6	60	72
	Window A.C. 1.5 Ton	15	2	5	150	100	3000
Rabindra Bhawan:							
	Tube light	111	0.04	7.5	33.3	150	666
	CFL	29	0.012	7.5	2.61	150	52.2
	LED 12W	4	0.012	7.5	0.36	150	7.2
	LED 25W	29	0.025	7.5	5.4375	150	108.75
	Halogen Bulb	17	0.05	3	2.55	60	51
	Ceiling Fan	82	0.06	7.5	36.9	150	738
	Projector	4	0.3	3	3.6	60	72
	Window A.C. 1 Ton	1	1.2	5	6	100	120
	Window A.C. 2 Ton	20	2.5	5	250	100	5000
	Speaker	13	0.018	3	0.702	60	14.04
Satyen Bose Hall & Residence:							
	Tube light	267	0.04	7.5	80.1	150	1602
	Ceiling Fan	198	0.06	7.5	89.1	150	1782
	Water Cooler	2	0.75	3	4.5	60	90
	Aqua guard	5	0.025	7.5	0.9375	150	18.75
	Insect Flasher	2	0.04	7.5	0.6	150	12
	Water Pump	2	1.5	3	9	60	180
Chittaranjan Boy's Hostel:							
	Tube light	136	0.04	7.5	40.8	150	816
	Ceiling Fan	141	0.06	7.5	63.45	150	1269
	Exhaust Fan 60W	2	0.06	7.5	0.9	150	18
	Water Cooler	1	0.75	3	2.25	60	45
	Aqua guard	3	0.025	7.5	0.5625	150	11.25



	Insect Flasher	1	0.04	7.5	0.3	150	6
	Water Pump	2	1.5	3	9	60	180
Aurobindo Boy's Hostel:							
	Tube Light	174	0.04	7.5	52.2	150	1044
	Bulb	7	0.1	7.5	5.25	150	105
	Ceiling Fan	131	0.06	7.5	58.95	150	1179
	TV & Amplifier	1	0.05	3	0.15	60	3
	Water Cooler	2	0.75	3	4.5	60	90
	Aqua guard	4	0.025	7.5	0.75	150	15
	Insect Flasher	1	0.04	7.5	0.3	150	6
	Water Pump	2	1.5	3	9	60	180
	Window A.C. 1 ton	1	1.2	5	6	100	120
Mother Teresa Girl's Hostel:							
	Tube light	151	0.04	7.5	45.3	150	906
	Ceiling Fan	128	0.06	7.5	57.6	150	1152
	Exhaust Fan 75W	2	0.15	7.5	2.25	150	45
	Water Cooler	1	0.75	3	2.25	60	45
	Aqua guard	6	0.025	7.5	1.125	150	22.5
Nivedita Girl's Hostel:							
	Tube light	171	0.04	7.5	51.3	150	1026
	Ceiling Fan	143	0.06	7.5	64.35	150	1287
	Water Cooler	1	0.75	3	2.25	60	45
	Aqua guard	4	0.025	7.5	0.75	150	15



SOLAR IMPACT DETAILS

Consumer No. 010063
Tariff Code: E (EI)
Supply Voltage (KV):11.00
Contract Demand (KVA):550.00
Type: W

ELECTRICITY UTILITY ANALYSIS FOR THE PERIOD OF JAN'21-NOV'21																						
Month	Energy Consumption (kWh)			Inj. RD. Adv. (kWh)	Total E.C. (kWh)	P.F.	L.F. %	Unit/Rate (Rs.)			Energy Charges (Rs.)			Total E.C. (Rs.)	Demand Charges (Rs.)	LF Reb(-)/Sur(+) Charge (Rs.)	PF Reb(-)/Sur(+) Charge (Rs.)	Electricity Duty Charges (Rs.)	MVCA Charges (Rs.)	Rental Charges (Rs.)	TCS Charges (Rs.)	Total Bill Amount (Rs.)
	Normal	Peak	Off-Peak					Normal	Peak	Off-Peak	Normal	Peak	Off-Peak									
Jan'21	27751.2	0	0	732	27019.2	0.8886	8.9786	4.1	0	0	110778.7	0	0	110778.7	149760	4821.29	0	48220.54	12969.22	1200	0	327749.8
Feb'21	25065.6	0	0	774	24291.6	0.8886	8.9786	4.2	0	0	102024.7	0	0	102024.7	149760	4334.58	0	45986.94	11659.97	1200	0	314966.2
March'21	27906	0	0	198	27708	0.9035	8.8805	4.2	0	0	116373.6	0	0	116373.6	149760	5029.48	0	49283.2	13299.84	1200	0	334946.1
April'21	32763	0	0	0	32763	0.9298	10.4688	4.2	0	0	137604.6	0	0	137604.6	149760	4547.66	-688.02	53179.17	15726.24	1200	0	361329.7
May'21	18840	0	0	3	18837	0.932	5.8116	4.2	0	0	79115.4	0	0	79115.4	149760	6219.45	-791.15	42159.6	9041.76	1200	0	286705.1
June'21	17985	0	0	0	17985	0.9486	5.6328	4.2	0	0	75537	0	0	75537	149760	6183.77	-1132.61	41398.26	8632.8	1200	0	281579.2
July'21	23994	0	0	0	23994	0.9506	7.2572	4.15	0	0	99575.1	0	0	99575.1	149760	5866.18	-1991.5	45863.94	11517.12	1200	0	311790.8
Aug'21	33330	0	0	0	33330	0.9516	10.0699	4.15	0	0	138319.5	0	0	138319.5	149760	4941.69	-2766.39	53058.37	15998.4	1200	0	360511.6
Sept'21	24557.28	0	0	0	24557.28	0.9505	7.6752	4.15	0	0	101912.7	0	0	101912.7	149760	5543.13	-2038.25	46251.7	11787.49	1200	0	314416.8
Oct'21	27200	0	0	0	27200	0.9376	8.3405	4.15	0	0	112880	0	0	112880	149760	5432.97	-1128.36	48502.5	13056	1200	0	329703.1
Nov'21	34671	0	0	9	34662	0.9025	11.4135	4.1	0	0	142114.2	0	0	142114.2	149760	4126.09	0	54164.54	16637.76	1200	0	368002.6



B. GREEN PRACTICES:

Green Practices can have tremendous benefits, both tangible and intangible. The most tangible benefits are the reduction in water and energy consumption right from day one of occupancy. The energy savings could range from 20 - 30 % and water savings around 30-50%. Intangible benefits of green campus include health & well-being of the occupants, enhancing air quality & promoting biodiversity, safety benefits and conservation of scarce national resources.

- Water Conservation:

Most of the Asian countries are water stressed and in countries like India, the water table has reduced drastically over the last decade. Green Practices system encourages use of water in a self-sustainable manner through reducing, recycling and reusing strategies. By adopting this rating programme, campus can save potable water to an extent of 30 – 50%.

- Handling of Waste:

Wastes are nowadays segregated in three types: Solid Waste, Liquid Waste & E- Waste. Handling of waste in campuses is extremely difficult as most of the waste generated is not segregated at source and has a high probability of going to land-fills. This continues to be a challenge to the municipalities which needs to be addressed. This intends to address this by encouraging buildings to segregate the waste generated in the campus.

- Energy Efficiency:

The Buildings sector is a large consumer of electrical energy. Through Energy Efficient measures, campuses can reduce energy consumption through energy efficient –exterior lighting, air conditioning systems, etc. Also, alternative resources or energy are encouraged. The energy savings that can be realized by adopting this rating programme can be to the tune of 20 – 30%.

- Sustainable Transportation:

Fossil fuel is a slowly depleting resource, world over. The use of fossil fuel for transportation has been a major source of pollution. The system encourages the use of alternate fuels or no fuel for transportation.

- Health and Well-being of Occupants:

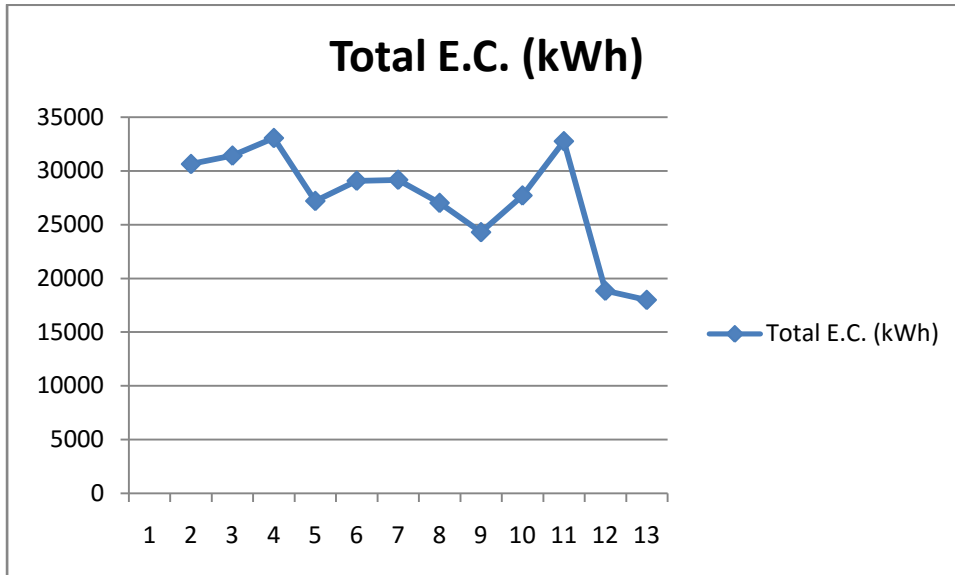
Health and well-being of occupants is the most important aspect of Green Practices. The system ensures facilities to enhance health and occupant well-being which are critical in a campus.



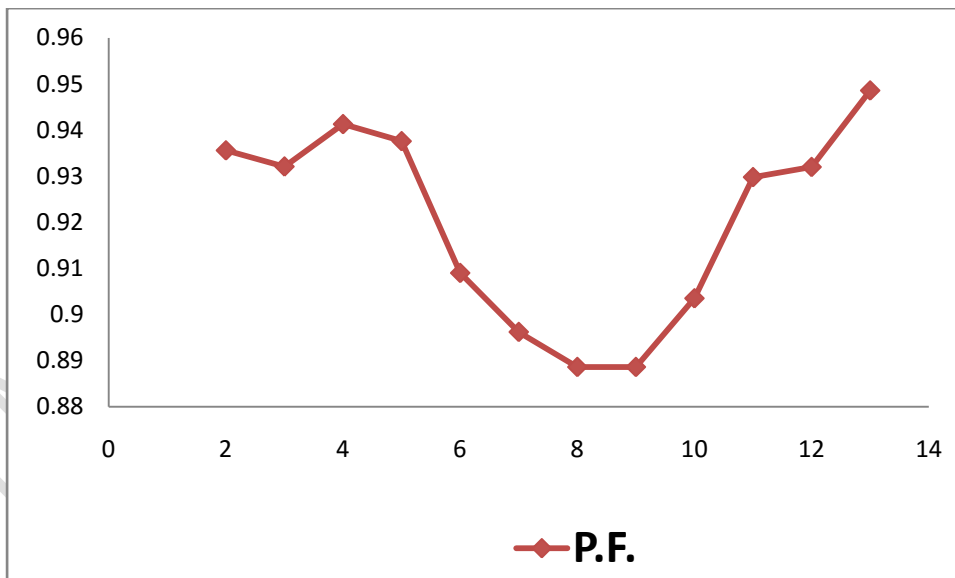
OBSERVATIONS & FINDINGS

A. ENERGY

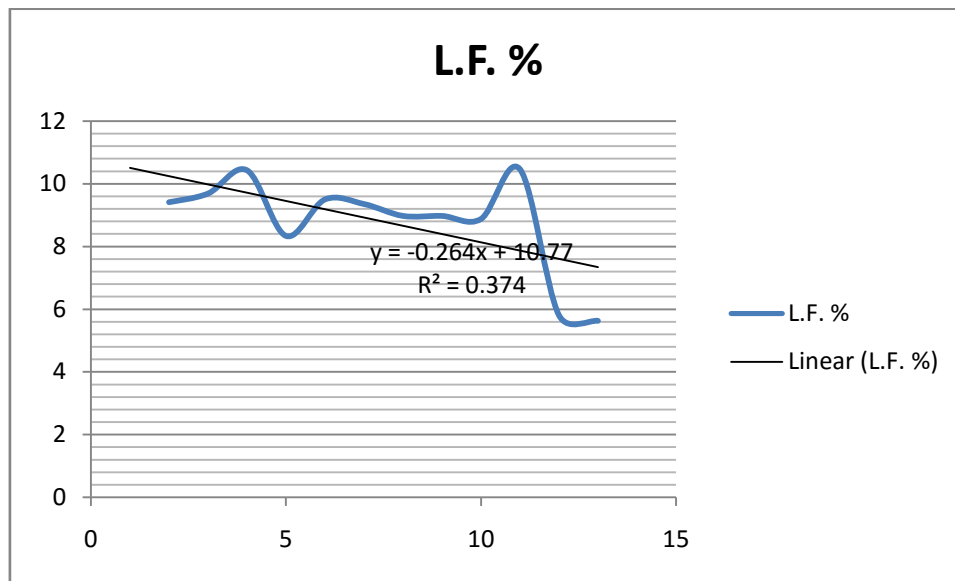
- Monthly Unit Consumption (July'20 – June'21):



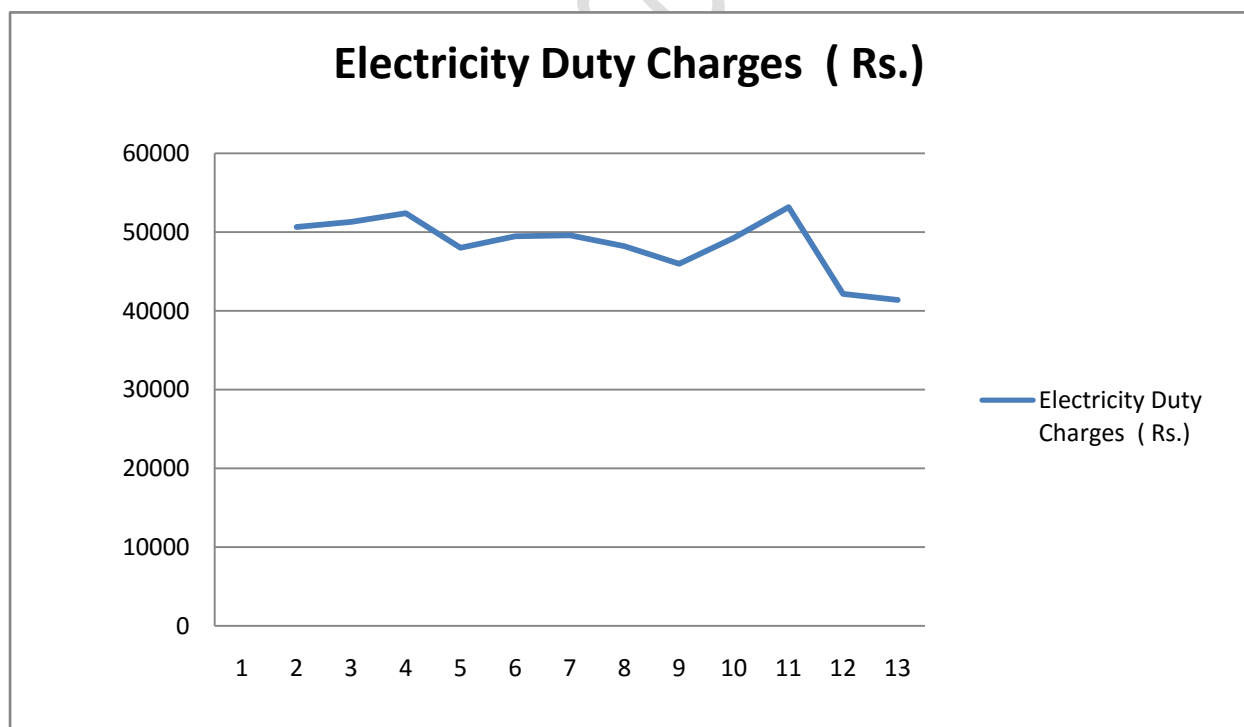
- Power Factor :



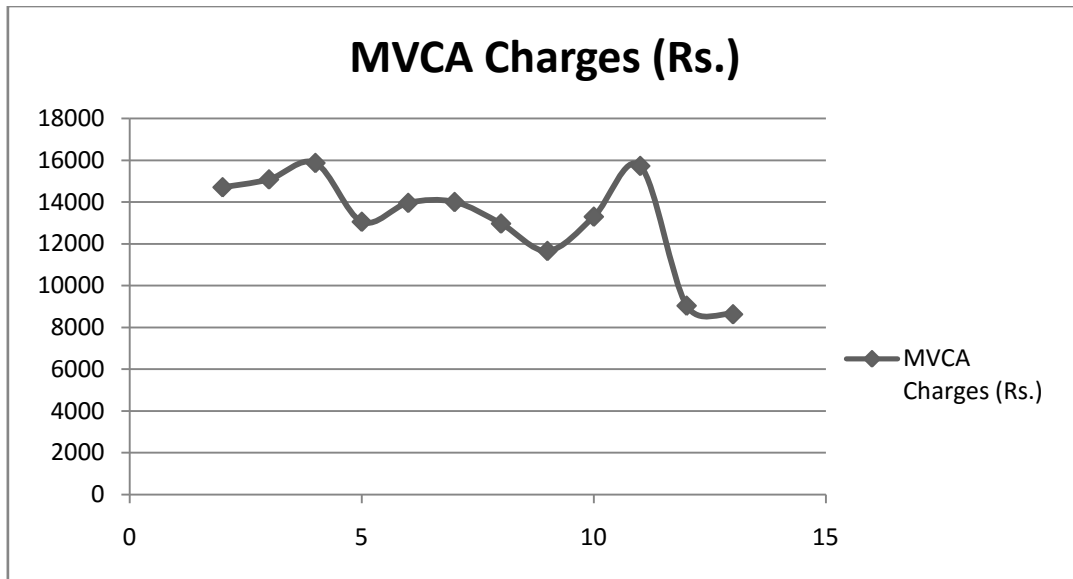
➤ Load Factor:



➤ Electricity Duty Charges (Rs.):



- MVCA Charges (Rs.):



- Occupancy Details:

OCCUPANCY DETAILS			
Details	Male	Female	Total
No. of Students (Hostel)	374	223	597
No. of Students (From Outside)	1772	398	2170
	2146	621	2767
No. of Facilatator (Hostel)	30	5	35
No. of Facilatator (From Outside)	215	49	264
	245	54	299
No. of total occupant/day	2391	675	3066

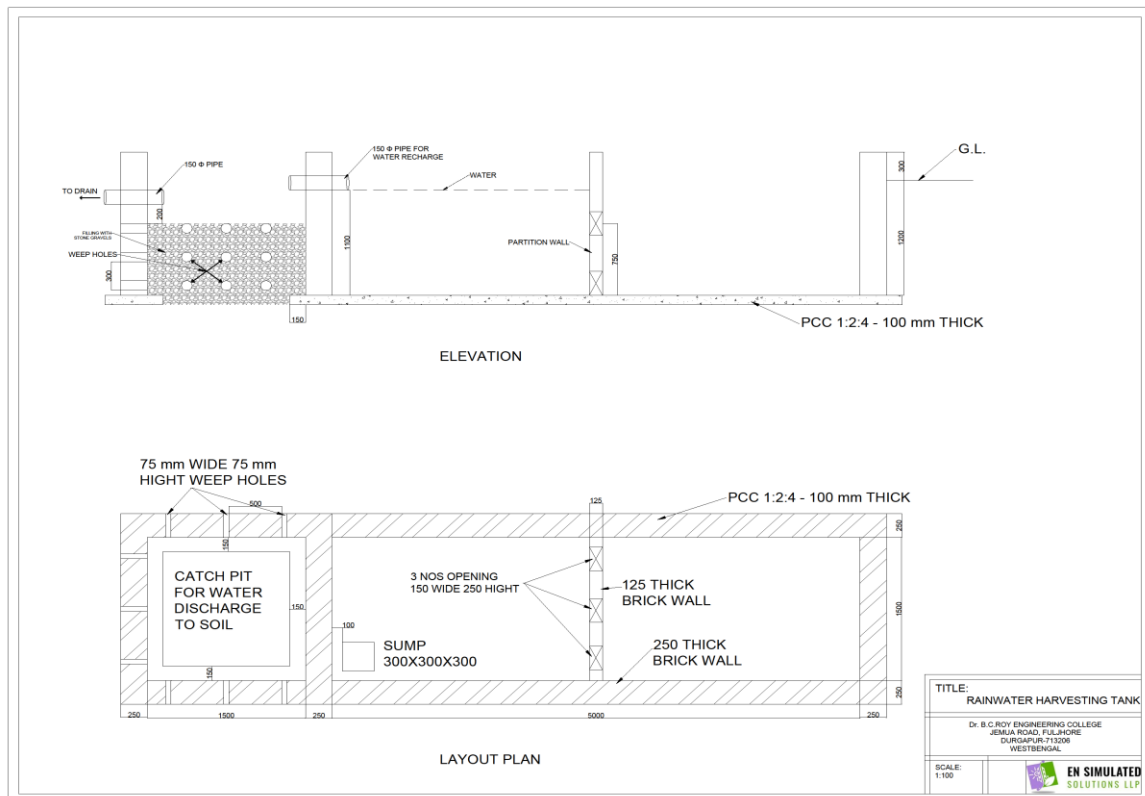


C. GREEN PRACTICES

- Water Conservation:



Dr. B C Roy Engineering promotes and set example for the students and staff members for positive infrastructure development. This simple method can put forward a solution which will be workable in areas where there is sufficient rain but the groundwater supply is not sufficient on the one hand and on the other surface water resource is insufficient. A Rainwater Harvesting Storage tank (Dimension 2 X 2.5 X 1.5 m³) is observed with a Filtration Pit (Dimension 2 X 2 X 1.5 m³) and a Recharge Pit (Dimension 2 X 2.5 X 1.5 m³) as follows:





➤ Sprinkler Irrigation:

Sprinkler irrigation system allows application of water under high pressure with the help of a pump.



Facilities received by BCREC under Sprinkler irrigation system:

- Eliminates water conveyance channels, thereby reducing conveyance loss.
- Water saving up to 30% - 50 % with the reduction in labor cost.
- Helps to increase yield with the decrease in soil compaction.
- Mobility of system helps system operation easy.
- Suitable for all types of soil (except heavy clay) undulating land & no bunds required.
- Provides frost protection & helps in alteration of micro climate.

➤ Handling of Waste:

Waste management (or **waste** disposal) includes the activities and actions required to manage **waste** from its inception to its final disposal. This includes the collection, transport, treatment and disposal of **waste**, together with monitoring and regulation of the **waste management** process.



- Biomedical Waste:

Any type of biomedical wastes shows a threat of infection to human health. Examples include non liquid tissue and body parts from humans and other primates; laboratory and veterinary waste which contain human disease-causing agents; discarded sharps; and blood, blood products and body fluids from humans and other primates. The following are also included:

- Used, absorbent materials saturated with blood, body fluids, or excretions or secretions contaminated with blood and absorbent materials saturated with blood or blood products that have dried. Absorbent material includes items such as bandages, gauze and sponges.
- Non-absorbent disposable devices that have been contaminated with blood, body fluids or blood contaminated secretions or excretions and have not been sterilized or disinfected by an approved method.
- Other contaminated solid waste materials which represent a significant risk of infection because they are generated in medical facilities which care for persons suffering from diseases requiring Strict Isolation Criteria.



- E-Waste:



E-waste is any electrical or electronic equipment that's been discarded. This includes working and broken items that are thrown in the garbage or donated to a charity reseller as a goodwill gesture. Often, if the item goes unsold in the store, it will be thrown away. E-waste is particularly dangerous due to toxic chemicals that naturally leach from the metals inside when buried.



According to the World Health Organization (WHO), health risks may result from direct contact with toxic materials that leach from e-waste. These include minerals such as lead, cadmium, chromium, brominated flame retardants, or polychlorinated biphenyls (PCBs). Danger can come from inhalation of the toxic fumes, as well as from the accumulation of chemicals in soil, water, and food.

This puts not just people in danger but land and sea animals as well. In developing countries, the risks are exceptionally high because some developed countries send their e-waste there. Studies have shown this global e-waste has detrimental effects on the people that work with the e-waste but also the people that live around it.

Because of this, a proper recycling process needs to be put in place to protect us and future generations.

- Solid Waste:

The Resource Conservation and Recovery Act (RCRA), passed in 1976, states that "solid waste" means any garbage or refuse, sludge from a wastewater treatment plant, water



supply treatment plant, or air pollution control facility and other discarded material, resulting from industrial, commercial, mining, and agricultural operations, and from community activities. Nearly everything we do leaves behind some kind of waste.



It is important to note that the definition of solid waste is not limited to wastes that are physically solid. Many solid wastes are liquid, semi-solid, or contained gaseous material.

➤ Energy Efficiency

Energy efficiency simply means using less energy to perform the same task – that is, eliminating energy waste. Energy efficiency brings a variety of benefits: reducing greenhouse gas emissions, reducing demand for energy imports, and lowering our costs on a household and economy-wide level. While renewable energy technologies also help accomplish these objectives, improving energy efficiency is the cheapest – and often the most immediate – way to reduce the use of fossil fuels. There are enormous opportunities for efficiency improvements in every sector of the economy.

Dr. B. C. Roy Engineering College, Durgapur, has initiated drives for energy conservation to bring consciousness towards the environment. Consequent upon this, the college is replacing old monitors with power efficient LED monitors, as one of the measures. Additionally, the campus is using 100% LED downward lighting fixtures to reduce the impact of outdoor light pollution, the HVAC system has been replaced with 3-star rated CFC/HCFC free to reduce the carbon impact as well as the fire extinguisher(s) purchased are of Halon free (Nitrogen based). The college has also installed Solar Power Plant and sensor based lights inside the campus and slowly increasing the use of LED bulbs inside the college buildings. Moreover, the college has advisory regulation regarding the emphasis of more increase in the use of LED bulbs and power efficient equipments to the staffs and faculty members residing inside the campus.











30kW On-Grid Rooftop Solar Panel

The Solar Power Generated is wheeling to grid, and catering the total energy consumption of the campus. Power Generation recorded 21.21 kW, 28246 kWh as dated on 17.12.2021, 10:48 a.m.



➤ Sustainable Transportation

Sustainable Transportation refers to any means of transportation that is 'green' and has low impact on the environment. Examples of sustainable transportation include walking, cycling, transit, carpooling, car sharing, and green vehicles. Transport systems have significant impacts on the environment, accounting for between 20% and 25% of world energy consumption and carbon dioxide emissions. The majority of the emissions, almost 97%, came from direct burning of fossil fuels. Greenhouse gas emissions from transport are increasing at a faster rate than any other energy using sector. Road transport is also a major contributor to local air pollution and smog.

The **United Nations Environment Programme** (UNEP) estimates that each year 2.4 million premature deaths from outdoor air pollution could be avoided. Particularly hazardous for health are emissions of black carbon, a component of particulate matter, which is a known cause of respiratory and carcinogenic diseases and a significant contributor to global climate change.



Use of bicycle as a mode of transport



BCREC is going green with a mindset that involves continual pursuit of knowledge regarding how to live life in an environmentally friendly and responsible way. In addition to big things that reduce people's carbon footprint, individuals can adopt small, every day practices and behaviors that help protect the environment and preserve natural resources for current and future generations.

The college is encouraging the students and the staff members to ride bicycles over cars which help to protect the environment by reducing harmful emissions. Students are being counseled that bicycle riding is an easy way to do their part in helping to preserve planet and keep their own college campus free of stinky exhaust fumes.

➤ Health and Well Being

The World Health Organization (WHO) defines health as 'a state of complete physical, mental and social wellbeing and not merely the absence of disease or infirmity' (WHO, 1948). This is consistent with the **bio-psychosocial model** of health, which considers physiological, psychological and social factors in health and illness, and interactions between these factors. It differs from the traditional medical model, which defines health as the absence of illness or disease and emphasizes the role of clinical diagnosis and intervention.

BCREC maintain the green practices for sustainable environment. The students and staff members always try to makes healthy environment by performing different activities. The buildings on the campus are neat and clean, visually and acoustically comfortable. BCREC has implemented eco-friendly environment by the different process like **Swaccha** Bharat Abhiyan, Environment Awareness Camp, Tree plantation, restricted uses for vehicles, Plastic Free Campus, Yoga Day celebration etc.



Maintaining Green at the Campus





Clean Campus Activity by NSS



Plastic Free Campus



No Horn Zone with Speed Limit





Clean Campus



Tree Plantation Program



Environment Awareness Camp



Along with these the college has also made some additional features available for the comfort and well being of the faculty students and staffs, which are as follows:

1. Accommodation Facilities – Guest House in the campus / Faculty and Staff Quarter inside the campus.
2. ATM – Axis bank and Sate Bank ATM in the campus
3. Bank – Sate Bank of India in the campus
4. Cafeteria – From Student and Staff
5. Hospital – MoU with The Mission Hospital Durgapur and In campus Medical Centre for Health check-up for students and staff
6. Laundry / Dry Cleaners – By collection from campus
7. Dulal Mitra Auditorium and Open air theatre (Najrul Manch)
8. Park / Garden in the campus
9. Gym – Boys & Girls
10. Digital Rain gauge with mini Weather Station (installed, yet to be implemented)
11. Landscape



Accommodation Facilities





ATM facility inside the Campus



State Bank of India in the campus



Cafeteria inside the Campus





Healthcare Centre inside the Campus

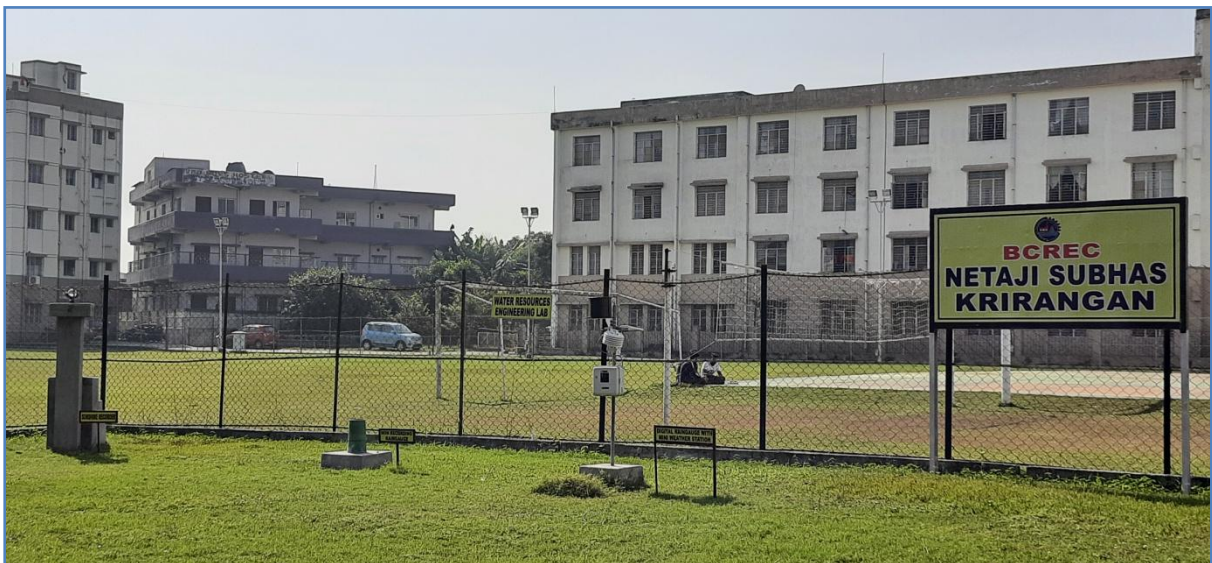


Nazrul Mancha Auditorium





Gymnasium

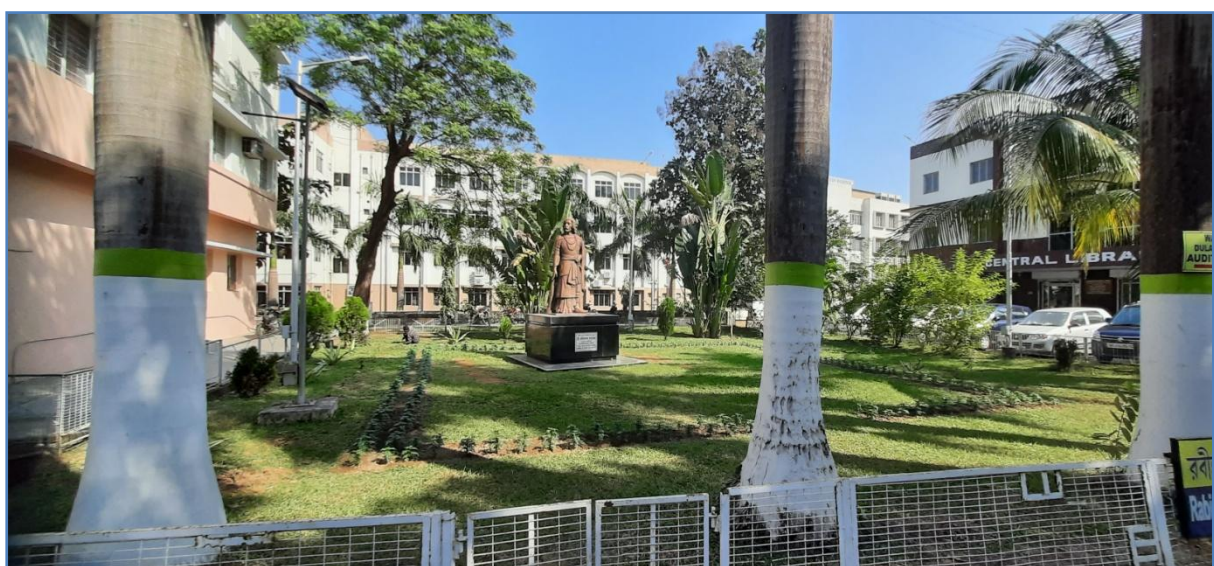
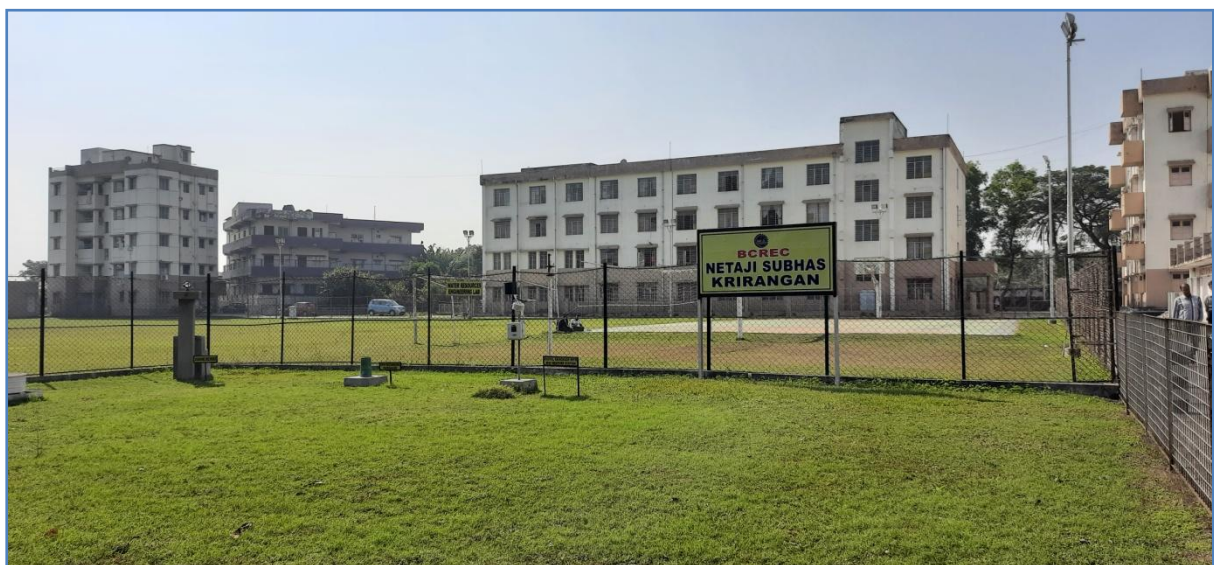


Digital Rain gauge with mini Weather Station





Central Island in the Campus



Landscape Details



Additionally, it has been observed that if the campus registers for IGBC Green Campus Rating Process, we assume it would achieve Gold Level with its existing facilities in addition with some minor additional implementations, which would be of National Excellence.

The IGBC Green Campus rating system addresses the most important National priorities which include water conservation, handling waste, energy efficiency, reduced use of fossil fuels and health & well-being of occupants. The rating system requires the application of National standards and codes like the Bureau of Indian Standards (BIS), Central Ground Water Board guidelines, Central Pollution Control Board guidelines, Energy Conservation Building Code (ECBC), MNRE Guidelines, MoEFCC guidelines, National Building Code (NBC), and Renewable Energy Certificates (RECs). The overarching objective is to better the National standards so as to create new benchmarks.

- **Water Conservation:**

Most of the Asian countries are water stressed and in countries like India, the water table has reduced drastically over the last decade. IGBC Green Campus rating system encourages use of water in a self-sustainable manner through reducing, recycling and reusing strategies. By adopting this rating programme, green campus can save potable water to an extent of 30 – 50%.

- **Handling of Construction Waste:**

Handling of waste in campuses is extremely difficult as most of the waste generated is not segregated at source and has a high probability of going to land-fills. This continues to be a challenge to the municipalities which needs to be addressed. IGBC intends to address this by encouraging buildings to segregate the waste generated in the campus.

- **Energy Efficiency:**

The Buildings sector is a large consumer of electrical energy. Through IGBC Green Campus rating system, campuses can reduce energy consumption through energy efficient –exterior lighting, air conditioning systems, etc. Also, alternative resources or energy are encouraged. The energy savings that can be realized by adopting this rating programme can be to the tune of 20 – 30%.

- **Reduced Use of Fossil Fuels:**

Fossil fuel is a slowly depleting resource, world over. The use of fossil fuel for transportation has been a major source of pollution. The rating system encourages the use of alternate fuels for transportation.

- **Health and Well-being of Occupants:**

Health and well-being of occupants is the most important aspect of IGBC Green Campus rating system. The rating system ensures facilities to enhance health and occupant well-being which are critical in a campus.



The Model Checklist with Credit Calibration as follows:

Checklist for IGBC Existing Green Campus					
#	Modules	Points Available	Points Achievable	Points Segregation	Compliance Action
Site Planning & Management [Maximum 22 Points]					
SPM MR 1	Green Buildings within the Campus	Mandatory			Option 1: Green Buildings Built-up Area within the Campus (OR) Option 2: Green Features in the Campus Buildings
SPM MR 2	Soil Erosion Control	Mandatory			<ul style="list-style-type: none"> • Soil erosion control measures must conform to the best management practices highlighted • Fertile topsoil to be stockpiled prior to construction, for future reuse or donation • Develop appropriate measures to address soil erosion, after occupancy
SPM Credit 1	Green Buildings within the Campus	10			Option 1: Green Buildings Built-up Area within the Campus Design individual buildings within the campus in accordance with appropriate IGBC rating system •Registered Projects Built-up Area •Certified Projects Built-up Area
			10	22	(OR) Option 2: Green Features in the Campus Buildings Design/ Retro-fit individual buildings with atleast 5 of the following green feature in the Campus Buildings: [Maximum 10 Points]
			1	2	• Passive Architecture
			2	2	• Heat Island Effect, Roof



			0	3	• Water Efficient Plumbing Fixtures
			0	2	• Waste Water Reuse
			1	1	• Eco-friendly Refrigerants
			1	3	• Energy Efficient Lighting Fixtures
			1	3	• High Performance Air-conditioning Equipment (applicable only for air-conditioned buildings in the campus)
			3	3	• On-site Renewable Energy (for Building requirements)
			1	2	• Daylighting
			0	1	• Outdoor Views
SPM Credit 2	Site Preservation	NA			
SPM Credit 3	Green Cover or Vegetation	6	3	3	Case A: Green Cover or Vegetation Demonstrate that the campus has retained or restored green cover or vegetation of the site area.
			3	3	(AND/ OR) Case B: Plantation of Tree Saplings The green cover shall have minimum 15 trees per acreage or plant tree saplings that can mature into fully grown-up trees with large canopy in the next 5 to 8 years
SPM Credit 4	Heat Island Reduction, Non-roof	4	2	2	Option 1: Non-roof Impervious Areas Provide one or more of the measures, for exposed non-roof impervious areas within the campus • Shade from existing tree cover/ newly planted saplings within 5 to 8 years of planting • Open grid pavers or grass pavers • Hardscape materials (including pavers) with SRI of at least 29 (and not higher than 64).



			2	2	(AND/ OR) Option 2: Covered Parking Provide the parking spaces under cover
SPM Credit 5	Outdoor Light Pollution Reduction	2	2	2	Reduce light pollution to increase night sky access and enhance the nocturnal environment
TOTAL		22	22		
Sustainable Transportation [Maximum 11 Points]					
ST Credit 1	Pedestrian Network	3	0	2	• Provide Shade for pedestrian network areas through tree cover or structured cover, for comfortable pedestrian access
			1	1	• Provide adequate illumination (Lux levels) for pedestrian network within the campus
ST Credit 2	Bicycle Lanes Network	4	0	2	• Design bicycle lane network within the campus to connect to all main buildings and basic amenities. • Provide bicycle parking at all main buildings/ basic amenities, within a walking distance of 100 meters. • Provide adequate illumination (Lux levels) for pedestrian network within the campus.
			2	2	(AND/OR) • Provide bicycles for campus occupants to commute within or outside the campus, as an environmental friendly transportation facility (for educational campus, minimum no. of bicycles must be 1 for every 25 occupants) & • Have a bicycle servicing facility within the campus (or) an alternative system to ensure that the bicycles would be in working condition.



ST Credit 3	Access to Sustainable Transportation	4	2	2	Option 1: Public Transport (2 Points) • Provide access to a public transportation facility (bus-stop/ intra-city railway station), within 800 meters walking distance from the campus entrance(s).
			0	2	(AND/ OR) Option 2: Shuttle Service (2 Points) • Electric/ CNG-powered Vehicles Operate or have a contract in place for electric/ CNG-powered vehicles within or outside the campus as shuttle services. Additionally, the project shall install electric charging facilities within the projects' parking area. (Or) the project shall have atleast one CNG filling station within 5 km distance from the projects' campus entrance. (OR) • Conventional Vehicles (Fossil Fuel based vehicles) Operate or have a contract in place for shuttle services within or outside the campus (atleast 20% of the campus occupants).
TOTAL		11	5		
Water Conservation [Maximum 18 Points]					
WC MR 1	Rainwater Harvesting	Mandatory			Case A: Rainwater Harvesting Design rainwater harvesting system to capture/ percolate atleast 'one-day rainfall' runoff volume from roof and non-roof areas in the campus
					Case B: High Groundwater Table In areas where the Central / State Ground Water Board does not recommend artificial rain water recharge (or) if the groundwater table is less than 8 meters, the project is required to provide justification for not implementing rainwater harvesting system



WC Credit 1	Rainwater Harvesting	6	6	6	<p>Case A: Rainwater Harvesting Design rainwater harvesting system to capture/ percolate atleast 'one-day rainfall*' runoff volume from roof and non-roof areas (OR)</p>	
			0	6	<p>Case B: High Groundwater Table Design rainwater harvesting system to capture/ percolate atleast 'one-day rainfall*' runoff volume from roof and non-roof areas</p>	
WC Credit 2	Landscape Design	4	1	1	Turf Area (Any One)	≤ 40%
			0	2		≤ 20%
			0	1	Drought Tolerant/ Native / Adaptive Species Area (Any One)	≥40%
			2	2		≥60%
WC Credit 3	Management of Irrigation Systems	2	2	<p>(1 point for every three measure; maximum 2 points)</p> <ul style="list-style-type: none"> • Central shut-off valve • Soil moisture sensors integrated with irrigation system • Turf and each type of bedding area must be segregated into independent zones based on watering needs • Atleast 50% of landscape planting beds must have a drip irrigation system to reduce evaporation • Atleast 75% of turf area must have sprinkler irrigation system to reduce water loses • Time based controller for the valves such that evaporation loss is minimised and plant health is ensured • Pressure regulating device(s) to maintain optimal pressure to prevent water loss • Any other innovative methods for watering 		
WC Credit 4	Wastewater Treatment and Reuse	4	0	2	<p>Waste Water Treatment: Have an on-site treatment system to handle 100% of waste water generated in the campus, to the quality standards suitable for reuse, as prescribed by Central (or) State Pollution Control Board, as applicable.</p>	



			0	2	Waste Water Reuse: Use treated waste water for atleast 25% of the total water required for landscaping and centralised Air-conditioning cooling tower make-up water <i>(if the project uses centralised water-cooled chillers)</i>
WC Credit 5	Optimise Water Use for Construction	NA			
WC Credit 6	Water Metering	2	0	2	(1 point for every three measures; maximum 2 points) • Municipal water supply • Bore water consumption • Treated waste water consumption • Water consumption for landscape requirements • Water consumption for centralised Air-conditioning cooling tower makeup <i>(if the project uses centralised water-cooled chillers)</i> • Building-level water consumption • Any other major source of water consumption
TOTAL		18	11		
Energy Efficiency [Maximum 21 Points]					
EE Credit 1	Energy Efficiency in Infrastructural Equipment	10	For all infrastructural equipment/ systems within the campus, achieve energy efficiency for the following systems: (maximum 10 points)		
			1	5	Reduce lighting power density by for exterior areas
			0	2	All non-emergency exterior & common area lighting such as landscaping, surface and covered parking, pathways, bicycle lanes, street lighting should have Daylight sensor/ Timer-based control.
			1	2	Pumps shall have minimum efficiencies
			1	1	Motors (> 3.5 HP) with efficiency of atleast 85%



			1	3	Campuses which have installed Centralised Air-conditioning systems shall have a COP/ IPLV
EE Credit 2	On-site Renewable Energy	5	Percentage of On-site Renewable Energy generated to the Total Annual Energy Consumption of the Campus Infrastructural Equipment/ Systems, excluding Buildings :(Any One)		
				1	≥10
				2	≥20
				3	≥30
				4	≥40
		5	5	≥50	
EE Credit 3	Off-site Renewable Energy	4	2	4	Option 1: Demonstrate that the project has purchased Renewable Energy Certificates (RECs) equivalent to atleast 20% of total annual energy consumption of the campus infrastructural equipment/ systems, excluding buildings.
			0		(OR) Option 2: Off-site Renewable Energy Investments Demonstrate that the project has invested in off-site renewable energy equivalent to atleast 20% of total annual energy consumption of the campus infrastructural equipment/ systems, excluding buildings.
EE Credit 4	Energy Metering	2	0	2	(1 point for every three measures; maximum 2 points) • Municipal water pumping • Ground water pumping • Treated waste water pumping • Exterior area lighting, including landscapes • Centralised air-conditioning systems • Renewable energy generation • • Power backup systems (e.g. Generators sets) • Building-level energy consumption • Any other energy consuming equipment and systems
TOTAL		21	11		



Material & Resource Management [Maximum 3 Points]							
MRM MR 1	Segregation of Waste, Post-occupancy	Mandatory			Dry and Wet Waste Provide separate bins to collect dry waste (paper, plastic, metals, glass, etc.) and wet waste (Food), at all the exterior common areas of the campus, as applicable. Divert the collected waste to a centralised facility, which is easily accessible for hauling.		
					(AND) Hazardous Waste In addition to dry and wet waste bins, provide separate bins for safe disposal of the following hazardous waste, at the centralised facility(i.e. Batteries, 'e' waste, Lamps, Medical waste, <i>if any</i>)		
MRM Credit 1	Organic Waste Management, Post-occupancy	3	1	1	Organic Waste	≥75%	
				1	1	Garden Waste (Any One)	≥25%
				2	2		≥50%
MRM Credit 2	Handling of Waste Materials, during Construction	NA					
MRM Credit 3	Local Materials	NA					
TOTAL		3	1				
Health & Well-being [Maximum 6 Points]							
HWB MR 1	Tobacco Smoke Control	Mandatory			Option 1: No Smoking Demonstrate that smoking is prohibited in the campus.		
					(OR) Option 2: Outdoor Smoking Areas In case the campus has outdoor smoking areas, such areas shall be located at a minimum of 7.6 meters away from all outdoor air intakes (such as entrance doors, window openings etc.).		
HWB	Basic Amenities	1			Provide atleast seven basic amenities within the campus, with pedestrian access.		



Credit 1			1	1	List of Basic Amenities: • Accommodation facilities (Guest house, Hotel, Service apartment) • ATM / Bank Automobile refuelling station • Cafeteria/ Restaurant • Educational facilities (Crèche, Primary School, & Secondary School) • Hospital • Laundry / Dry cleaners • Leisure & Entertainment facilities (Auditorium, Amphitheatre, Theatre, etc.,) • Park / Garden • Post office / Courier service • Retail Stores (Grocery store, Supermarket, etc.,) • Saloon
HWB Credit 2	Health & Well being facilities	4	2	2	Health & Well-being Facilities Demonstrate that the campus has health & well-being facilities to cater to atleast 10% of campus occupants, through the day. Health & well-being facilities include, but not limited to, aerobics, gymnasium, swimming pool, yoga, meditation, indoor games, outdoor games, playground, etc.,
			2	2	(AND/ OR) Healthcare, Emergency & Security Facilities Additionally, provide healthcare, emergency & security facilities within the campus such as first-aid/ clinic, pharmacy, emergency alarm, surveillance system etc., in the campus
HWB Credit 3	Universal Design	1	1	1	Design the campus to provide the measures for differently abled and senior citizens.
HWB Credit 4	Basic facilities for Construction Workforce	NA			
TOTAL		6	6		
Green Education [Maximum 3 Points]					



GE Credit 1	Green Education	2	1	Promote green education by involving campus occupants, local communities & NGOs, to increase awareness levels and encourage implementation of eco-friendly practices
GE Credit 2	Green Campus Guidelines	1	1	Provide campus occupants and facility team with descriptive guidelines that educate and help them to maintain green design and construction features.
TOTAL		3	2	
Innovation & Design [Maximum 6 Points]				
ID Credit 1	Innovation in Design Process	4	0	Option 1: Innovation The campus can easily avails the 2 points by implementing digital rain gauge with mini weather station.
			2	Option 2: Exemplary Performance The project is eligible for exemplary performance, if the design and/or construction measures greatly exceed the credit requirements of the IGBC Green Campus rating system
ID Credit 2	IGBC Accredited Professional	2	2	Atleast three participants of the project team shall be IGBC Accredited Professionals
TOTAL		6	4	
TOTAL		90	62	
Certified 36-44, Silver 45-53, Gold 54-66, Platinum 67-90				



DATA ANALYSIS

1. The system load of BCREC is observed with constant P.F. (Power Factor) which resulting into earning the rebate into its total energy utility invoice generated every month. Though it has also been noted that the injection of Solar Power Generation directly into the grid has abruptly affected the P.F. performance for the respective months. (Jan'21-March'21)
2. In L.F. which is a measure of the utilization rate, or efficiency of electrical energy usage; a high load factor indicates that load is using the electric system more efficiently, whereas consumers or generators that underutilize the electric distribution will have a low load factor.

L.F. =Average Load/Maximum Load in given time period

The load factor graph of BCREC depicts that the load is continuously decreasing & distorted. As a result, the institution is bearing some sizeable amount of penalty charges every month.

3. The Central Board of Direct Taxes (CBDT) issued new guidelines for the applicability of Tax collected at source (TCS). Under the new guidelines, e-commerce operations which include transactions in electricity and trading of clean energy certificates (REC and ESCerts) are not subjected to TCS. CBDT states that the updated guidelines are applicable from 1 October, 2020. It is important to note that under the previous guidelines, TCS of 1% (IGST 1%, or CGST 0.5% + SGST 0.5%) of the invoice value where the total value of supply per invoice is more than Rs.2.50 Lacs (as applicable) were levied from all sellers of REC & ESCerts.

Therefore, it has been observed that previously only in the month of Sept'20 & Oct'20 the tax has been implemented in the invoice where the institution is generating invoice more than Rs. 2.50lacs(as applicable) throughout the year. The institution is advised to enlighten the matter with proper justification in next audit.

4. The yearly Energy Consumption of BCREC has been reduced in 2020-2021 than 2019-2020, which shows that the institution has taken measures to control the energy consumption.
5. As per NAAC Audit (2019-2020) Report recommended, the tube lights of the common area corridors have been replaced with Phillips Sensor based Lighting which further changes the entire load consumption of the institution.
6. The 30 kWp Solar PV panel installed. The amount of energy generated is directly wheeling to grid and used by the campus. On Holidays the generated power is going directly to the WBSSEDCL. The use of solar energy in the site is bearing some sizeable amount of cost in electricity bills. Though it has also been noted that there is no



injection recorded for the month of April'21 & June'21-Oct'21. Therefore, the institution is advised to enlighten the matter with proper justification in next audit.

7. In the NAAC Audit (2019-2020) Report, The pie chart shows that the maximum load of the BCREC has attained by the Air Conditioner, which is 48%. The recommendation has been made to avail BEE star Rated HVAC System, which has been installed and implemented.
8. BCREC has also taken a large amount of policies for Green Energy & Clean Environment in College Campus (already in place and in operating phase):
 - Renewable energy generation and energy conservation
 - (a) Solar energy
 - (b) Wheeling to the grid
 - (c) Use of LED bulbs/ power efficient equipment
 - Water conservation facilities
 - (a) Rain water harvesting
 - (b) Sprinkler Irrigation
 - Solid waste management
 - (a) Segregation and disposal of biodegradable/ non-biodegradable/ hazardous waste
 - (b) Management of e-waste
 - Green campus drive
 - (a) Restricted entry of automobiles
 - (b) Public transport using green fuel to be encouraged to meet conveyance requirements of students and staff at college campus.
 - (c) Prohibition on use of plastic
 - (d) Landscaping with trees and plants
 - Disabled friendly environment
 - (a) Built-in ramps/lifts for easy access to classrooms
 - (b) Disabled friendly washrooms (progressive implementation)





Handrail & Braille Assisted Lift

9. BCREC has also made some additional features available for the comfort and well being of the occupants, which are as follows:

- Accommodation Facilities – Guest House in the campus / Faculty and Staff Quarter inside the campus.
- ATM – Axis bank and Sate Bank ATM in the campus
- Bank – Sate Bank of India in the campus
- Cafeteria – From Student and Staff
- Hospital – MoU with The Mission Hospital Durgapur and In campus Medical Centre for Health check-up for students and staff
- Park / Garden in the campus



RECOMMENDATIONS & DISCUSSIONS

The institution has been inaugurated in the year 2000. Hence the modern concept of environmental features other than good engineering practices, could not been adopted at that time. However addition of new buildings and other amenities is a regular practice till date. Additionally, due to pandemic situation the institution could hardly thrive into the recommendations provided earlier. Hence, a list of recommendations along with the earlier provided recommendations are as follows:

- The open 4-wheeler parking area in front of central library could have grass pavers; this will reduce the Heat Island Effect.
- The Fan(s) & Exhaust(s) could be replaced by Energy Efficient BLDC Ceiling Fan, Wall Fan and Pedestal Fan & Exhaust Fan.
- The existing plumbing fixtures could be exchanged with low-flow fixtures(even if the faucets are introduced with aerators); this has a potential for reduction of 25-40% daily water use as follows:

Calculations showing water consumption pattern of fixtures installed					
Base Case			Proposed Case		
Faucets/ Taps			Faucets/ Taps		
Total Occupants	3066	Number	Total Occupants	3066	Number
Flow rate	8	LPM	Flow rate	5	LPM
Daily Usage	0.25	Minutes	Daily Usage	0.25	Minutes
Total Water Consumed/ day	6132	Liters	Total Water Consumed/ day	3832.5	Liters
Total Number of working days	250		Total Number of working days	250	
Annual Water Consumed	15,33,000.00	Liters	Annual Water Consumed	9,58,125.00	Liters
Percentage of Water Saving					38%

- Arrangement of some water meters for measuring actual water use in the campus.
- The upcoming buildings could adopt ECBC as per guidelines of MOEFCC and the roof of existing buildings could be finished with reflective type light color paints.
- There is a good potential for more roof-top solar power generation. The institute could think of more harvesting of solar energy. Additionally, the Institute should



avail an extra capacitor bank to avoid the distortion in the Load Factor as Solar Generated power is sinusoidal power not linear power.

- A comprehensive solid waste management could replace the existing fragmented system; it has a good potential for generation of organic manure as well as natural gas for canteen by utilizing organic waste. The inorganic part could be sold to recycle vendor who would create a MOU with the institute for implementation of the said management.
- The overflow of Rainwater could be collected through Recharge Pit and then could be channelize for Irrigation to avoid the water misuse. Additionally, a finer mesh to the Rainwater Storage Tank is proposed to serve the purpose. It is also suggested to consider the other building(s) roof run-off with Recharge pit such that no run-off water will be wasted which might add some additional cost to the institution but that would make a huge impact with Rainwater Harvesting Potential.
- A secondary type of sewage treatment plant (300 KLD Capacity, considering efficiency 90%) could be thought of to reduce potable water use for irrigation, road washing, Car Washing, D G set cooling etc. Details are as follows:

Water Demand and Saving Calculation: Dr. B.C. Roy College, Durgapur				
Fixture Type	Duration (Min.)	Total number of occupants	Baseline	
			Flow rate (LPM/LPF)	Total daily water use (Litre)
Water Closet (High Flush)	1Flush	3066	6	18396
Water Closet (Low Flush)	1 Flush	3066	3	9198
Health Faucet / Bidet / Hand held spray	0.25	3066	8	6132
Faucets	0.25	3066	8	6132
Kitchen sink faucets	0.25	3066	8	6132
Urinal	1Flush	3066	4	12264
Shower Head/ Hand held spray	8	3066	8	196224
Total Water Use				254478
Daily Volume from flush fixtures (Black Water)				45990
Daily Volume from flow fixtures (Grey Water)				208488
Number of operational days				365
Description			Baseline (Liters)	
Annual volume from flush fixtures(Black water)			1,67,86,350	
Annual volume from flow fixtures (Grey water)			7,60,98,120	
Annual volume from flush & flow fixtures (Black & Grey Water)			9,28,84,470	



PROPOSED WASTE WATER REUSE	
Details	Liters/day
Grey Water generated from flow fixture	208488.0
Black Water generated from Flush Fixtures	45990.0
Total Waste Water generated	254478.0
STP Capacity	300000.0
Efficiency of STP	90%
Treated grey water available for reuse	270000.0
Landscape Water Requirement	55356.0
Flushing water Requirement	208488.0
Any other Use(Road Washing, Car Washing)	10560.0
Volume of treated waste water Reuse	274404.0

ENSIMULATED SOLUTIONS



ANNEXURE(S)

(A Government of West Bengal Enterprise)

BERHAMPUR REGIONAL OFFICE

ADMIN. BLDG, POWER HOUSE COMPLEX, FREZZER AVENUE, PURBA BAREILLY, PIN- 713101

Phone: 0342-2662503/2662424/2662431, Fax: 0342-2662431, Email: WBSEDCL@GMAIL.COM



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COL LAGE FULBHR Pin - 713206 Country:India	Invoice No.:400022089682 Billing Date:08.08.2020 Billing Cycle:JUL,2020 Present Reading Date:01.08.2020 Previous Reading Date:01.07.2020 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EIT) Supply Voltage (KV):11.00 Contract Demand(KVA):550.00 PF:0.9356 LF#:9.4158 Nature Of industry:OTHERS
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Meter No	DPP23251	Type	TOD	MC	1	MF	1.0000	Loss Factor	1	Net MF	1.00000
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Time	KVAH			KWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	1076570.00	550380.00	475460.000	1000010.00	482890.00	433280.00	156.000	52.000	48.
Previous	1058870.00	543070.00	467720.000	983320.00	476100.00	426120.00			

Reading Advance * Net MF	17700.000	7310.000	7740.000	16690.000	6790.000	7160.000	156.000	52.000	48.800
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Energy Charge		Normal	Peak	Off-peak	Energy/Min Charge (Rs)	
Rate	BC (p/KWH)	405	446	377	Rebate on BC (Rs.)	0.00
	D.F.Reb(-)/Sur(+)(NonBC)	-2.25	-1.00	-0.50	Adkl.BC (Rs.)	0.00
	L.F.Reb(-)(p/KWH)				Total BC (Rs.)	124871.10
Chargeable	KWH	16690.000	6790.000	7160.000		
!BC Amount	Rs.	67594.5000	30283.4000	26993.2000		
Chargeable	PF	0.9429	0.9289	0.9251		
PF	Rs.	-1520.88	-302.83	-134.97		
Demand Charge					*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00			Adkl.DC (Rs.)	0.00
Chargeable	Normal KVA	468.00			Total DC (Rs.)	149760.00
	Adkl.KVA	0.00			Reb on DC (on TP)	

Rebate(-)/Surcharge(+) (Rs.)	
LF Reb(-)/Sur(+)	5071.27
PF Reb(-)/Sur(+)	-1958.68
MVCA Charges @48 Paise/KWH	14707.20
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty				
EDIM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)
EDDM Units	30640.00	%On Net charge	17.50	Exemption (Rs.)
EDFUR Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)
ED DOM Units	00.00	%On Net charge	15.00	ED Adjust (Rs.)
				Total ED (Rs.)

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Remt. For Current Month (Rs)	344318.00
Transformer Rental + GST	0.00	Due Date :	18.08.2020
E.C adjustment		Outstanding Amount (Rs.) : #	0.00
D.C adjustment		Adjustment Amount (Rs) :	-0.69
Other adjustment		Adjustment Amount1 (Rs) : --	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	341393.00
Adjustments	-0.69	Payable After DueDate (Rs) :	344318.00
Timely Payment Rebate	-2924.51	Payable by DueDate	
-Adkl LF Rebate for Timely Payment	0.00	Through NEFT/RTGS (RS) :	338498.00
Total Timely Payment Rebate	-2924.51		

Amount Before Due Date (Rs)	Three lakh forty one thousand three hundred ninety three rupees
Amount After Due date (Rs)	Three lakh forty four thousand three hundred eighteen rupees

Messages to consumer Register your mobile No. and email Id at www.wbedcl.in to get Billing and Payment info.

Payment may be made using RTGS/NEFT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC000104

Outstanding (Others) :Rs.2097.63

*Demand charge includes interruption benefit of 00:00:00 hours

Superintending Engineer/Divisional Engineer

For and on behalf of West Bengal State Electricity Distribution Company Limited





West Bengal State Electricity Distribution Company Ltd.
(A Government of West Bengal Enterprise)

BURDWAN REGIONAL OFFICE

ADMIN. BUILDING, DANCE HOUSE COMPLEX, PRESSER AVENUE, DURGA BARRAGEMAN, PIN- 713101

Phone: 0342-2662303/2662424/2662431, Fax: 0342-2662431, Email: WBSEDCL@GMAIL.COM



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR. B.C.ROY ENGINEERING COLLEGE FULBHOSE Pin - 713206 Country:India	Invoice No.:400022221298 Billing Date:08.09.2020 Billing Cycle:AUG,2020 Present Reading Date:01.09.2020 Previous Reading Date:01.08.2020 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EIT) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9321 LP#:9.6918 Nature Of Industry:OTHERS
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Meter No	DPP23251	Type	TOD	MC	1	MF	1.0000	Loss Factor	1	Net MF	1.00000
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Time	KVAH			KWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	1094250.00	558200.00	483670.000	1016540.00	490180.00	440880.00	164.000	57.600	48.000
Previous	1076570.00	550380.00	475460.000	1000010.00	482890.00	433280.00			

Reading Advance + Net MF	17680.000	7820.000	8210.000	16530.000	7290.000	7600.000	164.000	57.600	48.000
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Rate	Energy Charge	Normal	Peak	Off-peak	Energy/Min Charge (Rs)	128111.90
		BC (p/KWH)	405	446		
	P.F.Reb(-)/Sur(+)(NonBC)	-1.50	-2.00	-0.50	Rebate on BC(Rs.)	0.00
	L.F.Reb(-)(p/KWH)				Adtl.BC(Rs.)	0.00
Chargeable	KWH	16530.000	7290.000	7600.000	Total BC(Rs.)	128111.90
!BC Amount	Rs.	66946.5000	32513.4000	28652.0000		
Chargeable	PF	0.9350	0.9322	0.9257		
PF	Rs.	-1004.20	-650.27	-143.26		
Demand Charge					*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00			Adtl.DC(Rs.)	0.00
Chargeable	Normal KVA	468.00			Total DC(Rs.)	149760.00
	Adtl.KVA	0.00			Reb on DC(on TP)	

Rebate(-)/Surcharge(+) (Rs.)	
LF Reb(-)/Sur(+)	4962.79
PF Reb(-)/Sur(+)	-1797.73
MICA Charges @48 Paise/KWH	15081.60
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty		ED		Net ED (Rs.)	
EDIM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)	51302.54
EDCM Units	31420.00	%On Net charge	17.50	Exemption (Rs.)	
EDSR Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)	0.00
ED DM Units	00.00	%On Net charge	15.00	ED Adjust (Rs)	
				Total ED (Rs.)	51302.54

Other Charges & Outstanding (Rs.)		Amt. For Current Month (Rs)	
Rental of Meter/Meters	1200.00		348621.10
Transformer Rental + GST	0.00	Due Date :	18.09.2020
E.C adjustment		Outstanding Amount (Rs.) :	0.00
D.C adjustment		Adjustment Amount (Rs) :	-0.44
Other adjustment		Adjustment Amount1 (Rs) : --	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	345660.00
Adjustments	-0.44	Payable After DueDate (Rs) :	348621.00
Timely Payment Rebate	-2961.19	Payable by DueDate	
-Adtl LF Rebate for Timely Payment	0.00	Through NBPT/RTGS (RS) :	342728.00
Total Timely Payment Rebate	-2961.19		

Amount Before Due Date (Rs)	Three lakh forty five thousand six hundred sixty rupees
Amount After Due date (Rs)	Three lakh forty eight thousand six hundred twenty one rupees

Messages to consumer Register your mobile No. and email Id at www.wbedcl.in to get Billing and Payment info.
Payment may be made using RTGS/NBPT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC0000104
Outstanding (Others) :Rs.2097.63
*Demand Charge includes interruption benefit of 00:00:00 hours

Superintending Engineer/Divisional Engineer
For and on behalf of West Bengal State Electricity Distribution Company Limited





West Bengal State Electricity Distribution Company Ltd.
(A Government of West Bengal Enterprise)

BUREAU REGIONAL OFFICE

ADMIN. BLDG, POWER HOUSE COMPLEX, PRESSER AVENUE, DURGA BAHADURAN, PIN- 713101
Phone: 0342-2662503/2662424/2662431, Fax: 0342-2662431, Email: WBSEDCL@GMAIL.COM



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR. B.C.ROY ENGINEERING COLLEGE PULHORE Pin - 713206 Country:India	Invoice No.:400022346914 Billing Date:05.10.2020 Billing Cycle:SEP,2020 Present Reading Date:01.10.2020 Previous Reading Date:01.09.2020 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EIT) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9413 LP#:10.4337 Nature of industry:OTHERS
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Meter No	DPP23251	Type	TOD	MC	1	MF	1.0000	Loss Factor	1	Net MF	1.00000
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Time	KVAH			KWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	1114420.00	565840.00	490980.000	1035600.000	497350.000	447710.000	169.	78.	47.
Previous	1094250.00	558200.00	483670.000	1016540.000	490180.000	440880.000			
Reading Advance + Net MF	20170.000	7640.000	7310.000	19060.000	7170.000	6830.000	169.600	78.400	47.200

Rate	Energy Charge	Normal			Peak			Off-peak			Energy/Min Charge (Rs)	134920.30
		BC (p/KWH)	P.F.Reb (-)/Sur (+) (NonBC)	L.F.Reb (-) (p/KWH)	BC (p/KWH)	P.F.Reb (-)/Sur (+) (NonBC)	L.F.Reb (-) (p/KWH)	BC (p/KWH)	P.F.Reb (-)/Sur (+) (NonBC)	L.F.Reb (-) (p/KWH)		
	Rate	405	-2.25		446	-2.00		377	-1.00		Rebate on BC (Rs.)	0.00
	Chargeable	19060.000			7170.000			6830.000			Adkl. BC (Rs.)	0.00
	IEC Amount	77193.0000			31978.2000			25749.1000			Total BC (Rs.)	134920.30
	Chargeable	0.9450			0.9385			0.9343				
	DF	-1736.84			-639.56			-257.49				
	Demand Charge										*Demand Charge	149760.00
	Rate	320.00									Adkl. DC (Rs.)	0.00
	Chargeable	468.00									Total DC (Rs.)	149760.00
	Adkl. KVA	0.00									Reb on DC (on TV)	

Rebate (-)/Surcharge (+) (Rs.)	
LF Reb (-)/Sur (+)	4615.41
DF Reb (-)/Sur (+)	-2633.89
MVA Charges @48 Paise/KWH	15868.80
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty		Net ED (Rs.)	
EDIM Units	00.00	%On Net charge	15.00
EDDM Units	33060.00	%On Net charge	17.50
EDPUR Units	00.00	%On Net charge	5.00
ED DOM Units	00.00	%On Net charge	15.00
		ED Adjust (Rs)	
		Total ED (Rs.)	52413.43

Other Charges & Outstanding (Rs.)		Amt. For Current Month (Rs)	
Rental of Meter/Meters	1200.00		357910.11
Transformer Rental + GST	0.00	Due Date :	15.10.2020
TCS Charges (Rs.)	1766.06	Outstanding Amount (Rs.): #	0.00
E.C adjustment		Adjustment Amount (Rs) :	-0.10
D.C adjustment		Adjustment Amount1 (Rs) : --	0.00
Other adjustment		Payable by DueDate (Rs) :	354885.00
LPSC Charges	0.00	Payable After DueDate (Rs) :	357911.00
Adjustments	-0.10		
Timely Payment Rebate	-3025.31	Payable by DueDate	
-Adkl. LF Rebate for Timely Payment	0.00	Through NSFT/RTGS (RS) :	351890.00
Total Timely Payment Rebate	-3025.31		

Amount Before Due Date (Rs) Three lakh fifty four thousand eight hundred eighty five rupees
Amount After Due date (Rs) Three lakh fifty seven thousand nine hundred eleven rupees

Messages to consumer Register your mobile No. and email Id at www.wbedcl.in to get Billing and Payment info.

Payment may be made using RTGS/NEFT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC0000104
Outstanding (Others) :Rs.2097.63

*Demand Charge includes interruption benefit of 00:00:00 hours
***Tax Collection at Source (TCS) claimed Under Sec:206C(1H) of Income Tax Act,1961 .

Superintending Engineer/Divisional Engineer

For and on behalf of West Bengal State Electricity Distribution Company Limited



(A Government of West Bengal Enterprise)

BERHAMPUR REGIONAL OFFICE

ADMIN. BLDG., POWER HOUSE COMPLEX, FREEZER AVENUE, PURBA BAREILWAN, PIN- 713101

Phone: 0342-2662503/2662424/2662431, Fax: 0342-2662431, Email: WBSEDCL@GMAIL.COM



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR. B.C.ROY ENGINEERING COL LEGE PULAHORE Pin - 713206 Country:India	Invoice No.:40601333298 Billing Date:05.11.2020 Billing Cycle:OCT,2020 Present Reading Date:01.11.2020 Previous Reading Date:01.10.2020 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EIT) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9376 LF#:8.3405 Nature Of Industry:OTHERS
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Meter No	DPP23251	Type	TOD	MC	1	MF	1.0000	Loss Factor	1	Net MF	1.00000	
Meter Readings		KVAH			EWH			KVA / Dt. & Time of MD				
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak			
Present	1129640.00	572710.00	497900.000	1049910.00	503790.00	454160.00	148.800	54.400	41.600			
Previous	1114420.00	565840.00	490980.000	1035600.00	497350.00	447710.00						
Reading Advance + Net MF		KVAH			EWH			KVA				
	15220.000	6870.000	6920.000	14310.000	6440.000	6450.000	148.800	54.400	41.600			

Energy Charge		Normal	Peak	Off-peak	Energy/Min Charge (Rs)		110948.45	
Rate	EC(p/KWH)	405/400	446/440	377/372	Rebate on EC (Rs.)		0.00	
	P.F.Reb(-)/Sur(+)(%onEC)	-2.25	-2.00	-1.00	Addl. EC (Rs.)		0.00	
	L.F.Reb(-)(p/KWH)				Total EC (Rs.)		110948.45	
Chargeable	EWH	14310.000	6440.000	6450.000				
EC Amount	Rs.	57932.4200	28709.9300	24306.1000				
Chargeable	PF	0.9402	0.9374	0.9321				
PF	Rs.	-1303.48	-574.20	-243.06				
Demand Charge							*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00 /320.00					Addl. DC (Rs.)	0.00
Chargeable	Normal KVA	468.00					Total DC (Rs.)	149760.00
	Addl. KVA	0.00					Reb on DC (on TP)	
Rebate(-)/Surcharge(+) (Rs.)								
LF Reb(-)/Sur(+)								5432.97
PF Reb(-)/Sur(+)								-2120.74
MVA Charges @48 Paise/KWH								13056.00
###Government subsidy								
## Other Arrear Charges								0.00

Electricity Duty							
EDIM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)	48003.53		
EDDM Units	27200.00	%On Net charge	17.50	Exemption (Rs.)			
EDDP Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)	0.00		
ED DDM Units	00.00	%On Net charge	15.00	ED Adjust (Rs)			
				Total ED (Rs.)	48003.53		

Other Charges & Outstanding (Rs.)					
Rental of Meter/Meters	1200.00	Rent. For Current Month (Rs)	326524.00		
Transformer Rental + GST	0.00	Due Date :	18.11.2020		
TCS Charges (Rs.)	243.81	Outstanding Amount (Rs.) :	0.00		
E.C adjustment		Adjustment Amount (Rs) :	-0.35		
D.C adjustment		Adjustment Amount1 (Rs) :	0.00		
Other adjustment		Payable by DueDate (Rs) :	323753.00		
LISC Charges	0.00	Payable After DueDate (Rs) :	326524.00		
Adjustments	-0.35				
Timely Payment Rebate	-2770.77	Payable by DueDate			
-Addl LF Rebate for Timely Payment	0.00	Through NEST/RIGS (RS) :	321010.00		
Total Timely Payment Rebate	-2770.77				

Amount Before Due Date (Rs)	Three lakh twenty three thousand seven hundred fifty three rupees		
Amount After Due date (Rs)	Three lakh twenty six thousand five hundred twenty four rupees		
Messages to consumer	Register your mobile No. and email Id at www.wbsecl.in to get Billing and Payment info.		

Payment may be made using RIGS/NEFT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC0000104

Outstanding (Others) :Rs.2097.63

*Demand Charge includes interruption benefit of 00:00:00 hours

***Tax Collection at Source (TCS) claimed Under Sec:206C(1H) of Income Tax Act, 1961 .

Superintending Engineer/Divisional Engineer

For and on behalf of West Bengal State Electricity Distribution Company Limited



(A Government of West Bengal Enterprise)

BUREAU REGIONAL OFFICE

ADMIN.BLDG, DONGER HOUSE COMPLEX, FREZER AVENUE, PURBA BAREILMAN, PIN- 713101

Phone: 0342-2662503/2662424/2662431, Fax: 0342-2662431, Email: WBSEDCL@GMAIL.COM



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COL LAGE FULBHORE Pin - 713206 Country:India	Invoice No.:402015509997 Billing Date:04.12.2020 Billing Cycle:NOV, 2020 Present Reading Date:01.12.2020 Previous Reading Date:01.11.2020 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (BIT) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9090 LP#:9.5039 Nature of industry:OTHERS
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Meter No	DPP23251	Type	TOD	MC	1	MF	1.000 00	Loss Factor	1	Net MF	1.00000
Meter Readings	KVAH			KWH			KVA / Dt. & Time of MD				
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
Present	1147650.0 00	580140.00 0	504450.000	1066130.0 00	510560.00 0	460250.00 0	174.400	132.800	40.000		
Previous	1129640.0 00	572710.00 0	497900.000	1049910.0 00	503790.00 0	454160.00 0					
Reading Advance + Net MF	18010.000	7430.000	6550.000	16220.000	6770.000	6090.000	174.400	132.800	40.000		

Energy Charge	Normal	Peak	Off-peak	Energy/Min Charge (Rs)	117322.80
Rate	BC(p/KWH)	4.00	4.40	Rebate on BC(Rs.)	0.00
	P.F.Reb(-)/Sur(+)(%onBC)	0.00	0.00	Adil.BC(Rs.)	0.00
	L.F.Reb(-)(p/KWH)			Total BC(Rs.)	117322.80
Chargeable	KWH	16220.000	6770.000		
IBC Amount	Rs.	64880.0000	29788.0000		
Chargeable	PF	0.9006	0.9112		
PF	Rs.	0.00	0.00		
Demand Charge				*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00		Adil.DC(Rs.)	0.00
Chargeable	Normal KVA	468.00		Total DC(Rs.)	149760.00
	Adil.KVA	0.00		Reb on DC(on TP)	

Rebate(-)/Surcharge(+) (Rs.)	
LF Reb(-)/Sur(+)	4741.52
PF Reb(-)/Sur(+)	-113.27
MCA Charges @48 Paise/KWH	13958.40
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty					
EDIM Units	00.00	%On Net Charge	15.00	Net ED(Rs.)	49492.23
EDCOM Units	29080.00	%On Net charge	17.50	Exemption (Rs.)	
EDPUR Units	00.00	%On Net charge	5.00	#Arrear ED(Rs.)	0.00
ED DOM Units	00.00	%On Net charge	15.00	ED Adjust (Rs)	
				Total ED(Rs.)	49492.23

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Amnt. For Current Month(Rs)	336361.68
Transformer Rental + GST	0.00	Due Date :	14.12.2020
E.C adjustment		Outstanding Amount (Rs.) :	0.00
D.C adjustment		Adjustment Amount (Rs.) :	-0.16
Other adjustment		Adjustment Amount1 (Rs.) :-	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	333505.00
Adjustments	-0.16	Payable After DueDate (Rs) :	336362.00
Timely Payment Rebate	-2856.69	Payable by DueDate	
-Adil LF Rebate for Timely Payment	0.00	Through NEFT/RTGS (RS) :	330677.00
Total Timely Payment Rebate	-2856.69		

Amount Before Due Date(Rs)	Three lakh thirty three thousand five hundred five rupees
Amount After Due date(Rs)	Three lakh thirty six thousand three hundred sixty two rupees
Messages to consumer	Register your mobile No. and email Id at www.wbsecl.in to get Billing and Payment info.

Payment may be made using RTGS/NEFT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC0000104

Outstanding (Others) :Rs.2097.63

*Demand Charge includes interruption benefit of 00:00:00 hours

Superintending Engineer/Divisional Engineer

For and on behalf of West Bengal State Electricity Distribution Company Limited





West Bengal State Electricity Distribution Company Ltd.
(A Government of West Bengal Enterprise)

BURDWAN REGIONAL OFFICE

ADMIN. BLDG, 2ND FLOOR COMPLX, FREZER AVENUE, PURBA BAREILLY, PIN- 713101

Phone: 0342-2662503/2662424/2662431, Fax: 0342-2662431, Email: WBSEDCL@GMAIL.COM, CORPORATE TNN:CALW02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COL LEGE FULHORE Pin - 713206 Country:India	Invoice No.:402015658255 Billing Date:06.01.2021 Billing Cycle:DEC, 2020 Present Reading Date:01.01.2021 Previous Reading Date:01.12.2020 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EIT) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.8962 LF#:9.3583 Nature Of Industry:OTHERS Pan No:AAAABD0204F
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Meter No	DPP23251	Type	TOD	MC	1	MF	1.0000	Loss Factor	1	Net MF	1.00000
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Time	KWH			DWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	1165210.00	588180.00	511400.000	1081530.00	517890.00	466690.00	108.800	112.800	40.800
Previous	1147650.00	580140.00	504450.000	1066130.00	510560.00	460250.00			
Reading Advance + Net MF	17560.000	8040.000	6950.000	15400.000	7330.000	6440.000	108.800	112.800	40.800

Energy Charge	Rate	EC (p/KWH)	Normal	Peak	Off-peak	Energy/Min Charge (Rs)	117808.80
			400	440	372		
		P.F.Reb(-)/Sur(+)(%onEC)	0.00	0.00	-0.50	Rebate on EC (Rs.)	0.00
		L.F.Reb(-) (p/KWH)				Adtl.EC (Rs.)	0.00
Chargesable	KWH		15400.000	7330.000	6440.000	Total EC (Rs.)	117808.80
!EC Amount	Rs.		61600.0000	32252.0000	23956.8000		
Chargesable	PF		0.8770	0.9117	0.9266		
PF	Rs.		0.00	0.00	-119.78		
Demand Charge						*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)		320.00			Adtl.DC (Rs.)	0.00
Chargesable	Normal KVA		468.00			Total DC (Rs.)	149760.00
	Adtl.KVA		0.00			Reb on DC	

Rebate (-)/Surcharge (+) (Rs.)	
LF Reb(-)/Sur(+)	4875.56
PF Reb(-)/Sur(+)	-119.78
MCA Charges @48 Paise/DWH	14001.60
###Government subsidy	
# Other Arrear Charges	0.00

Electricity Duty					
EDM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)	49606.01
EDDM Units	29170.00	%On Net charge	17.50	Exemption (Rs.)	
EDPUR Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)	0.00
ED DOM Units	00.00	%On Net charge	15.00	ED Adjust (Rs)	
				Total ED (Rs.)	49606.01

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Amt. For Current Month (Rs)	337132.19
Transformer Rental + GST	0.00	Due Date :	18.01.2021
E.C adjustment		Outstanding Amount (Rs.) : #	0.00
D.C adjustment		Adjustment Amount (Rs) :	-0.30
Other adjustment		Adjustment Amount1 (Rs) : --	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	334269.00
Adjustments	-0.30	Payable After DueDate (Rs) :	337132.00
Timely Payment Rebate	-2863.26	Payable by DueDate	
Adtl LF Rebate For Timely Payment	0.00	Through NEFT/RTGS (RS) :	331434.00
Total Timely Payment Rebate	-2863.26		

Amount Before Due Date (Rs)	Three lakh thirty four thousand two hundred sixty nine rupees
Amount After Due date (Rs)	Three lakh thirty seven thousand one hundred thirty two rupees

Messages to consumer Register your mobile No. and email Id at www.wbedcl.in to get Billing and Payment info.

Payment may be made using RTGS/NEFT in your exclusive a/c no: WBSEDCL006322068727 with IPSC code ICIC0000104

Outstanding (Others) :Rs.2097.63

*Demand Charge includes interruption benefit of 00:00:00 hours

Superintending Engineer/Divisional Engineer

For and on behalf OF West Bengal State Electricity Distribution Company Limited





West Bengal State Electricity Distribution Company Ltd.

BURDWAN REGIONAL OFFICE

ADMIN BLDG, POWER HOUSE COMPLEX, FREEMAN AVENUE, PURBA BARDHAMAN, PIN- 713102

Phone: 0342-2662503/2662424/2662431, Fax: 0342-2662431, Email: RMRD.WBSEDCL@GMAIL.COM, CORPORATE

Tel: CAL9028888



Consumer ID: 905010063 Installation No: 22068727 THE PRINCIPAL, DR. B.C. ROY ENGINEERING COLLEGE FULCHORE	Invoice No: 690300140238 Billing Date: 18.03.2021 Billing Cycle: JAN, 2021 Present Reading Date: 01.02.2021 Previous Reading Date: 01.01.2021 Service At: DORGAPUR, BILL No: Account Reference No: 25689908 Consumer No: 010063	Tariff Code: S(21) Supply Voltage (KV): 11.00 Contract Demand (KVA): 550.00 PF: 0.8886 LF: 8.9386 Nature Of Industry: OTHERS Pan No: AAABD02048
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Meter No: SH5E0053	Type: W	MC: 1	MF: 6,000.00	loss Factor: 1	Net MF: 6.00
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Time	KVAH			KWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	390.500			271.500			1.440		
Previous	153.000			145.300					
Present(Inj)	123.000			164.300			1.760		
Previous(Inj)	57.000			42.000					

Reading	KVAH			KWH			KVA		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Advance + Net MF	61278.400	0.000	0.000	27751.200	0.000	0.000	118.800	0.000	0.000
Inj RD. ADV. + Net MF	1596.000	0.000	0.000	132.000	0.000	0.000	10.560	0.000	0.000
D/P C.O. KWH	0.000			Inj KWH 732.000			Exc. Inj. KWH 0.000		
							C/I C.O. KWH 0.000		

Rate	EC (p/KWH)	Normal			Peak			Off-peak			Energy/Min
		Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak	
		410									110778.73
	P.F. Reb (-)/Sur (+) (%on EC)	0.00									0.00
	L.F. Reb (-) (p/KWH)										0.00
Chargeable	KWH	27018.200	0.00	0.00							110778.72
JEC Amount	Rs.	110778.7200	0.00	0.00							
Chargeable	PF	0.8886									
PF	Rs.	0.00									
Demand Charge											*Demand Charge 149760.00
Rate	Normal (Rs./KVA/month)	268.00									Addl DC (Rs.) 0.00
Chargeable	Normal KVA	558.00									Total DC (Rs.) 149760.00
	Addl. KVA	0.00									Reb on DC

Rebate (-)/Surcharge (+) (Rs.)											
LF Reb (-)/Sur (+)											4832.20
PF Reb (-)/Sur (+)											0.00
MVCA Charged @ 48 Paise/KWH											12969.72
## Government subsidy											0.00
## Other Arrear Charges											0.00
Electricity Duty											
EDIN Units	00.00			On Net Charge	15.00					Net ED (Rs.)	48220.54
EDCOM Units	27018.20			On Net charge	17.50					Exemption (Rs.)	
EDPLR Units	00.00			On Net charge	5.00					Arrear ED (Rs.)	0.00
ED DOM Units	00.00			On Net charge	15.00					ED Adjust (Rs.)	
											Total ED (Rs.) 48220.54

Other Charges & Outstanding (Rs.)		Amt. For Current Month (Rs.)	
Rental of Meter/Meters	200.00		327749.77
Transformer Rental + GST	0.00		30.03.2021
E.C. adjustment			Outstanding Amount (Rs.): 0.00
D.C. adjustment			Adjustment Amount (Rs.): 0.00
Other adjustment			Adjustment Amount (Rs.): 0.00
LPSC Charges	0.00		Payable by DueDate (Rs.): 324967.00
Adjusted Amount	0.00		Payable After DueDate (Rs.): 327750.00
Timely Payment Rebate	-2763.29		
-Addl. LF Rebate for Timely Payment	0.00		Payable by DueDate
Total Timely Payment Rebate	-2763.29		Through NEFT/RTGS (RS) 32212.00

Amount Before Due Date (Rs.) Three lakh twenty four thousand nine hundred sixty seven rupees
 Amount After Due date (Rs.) Three lakh twenty seven thousand seven hundred fifty rupees

Messages to consumer Register your mobile No. and mail id at www.wbsecl.in to get Billing and Payment info.
 Payment may be made using NEFT/NEFT in your exclusive a/c no: WBS90501006322088727 with IFSC code: 0470000104
 Outstanding (Others): Rs. 2997.63

AVOID SIMULTANEOUS USE OF ELECTRICAL APPLIANCES SAVE ENERGY BY J.D.C.O.'S USE TO SAVE FUTURE GENERATION





West Bengal State Electricity Distribution Company Ltd.

ADMIN BLDG, POWER HOUSE COMPLEX, PRENSA AVENUE, PURBA BARDHAMAN, PIN- 713101
Phone: 0342-2662503/2662424/2662431, Fax: 0342-2662431, Email: WBSEDCL@GMAIL.COM, CORPORATE
CALCUTTA-700008



Consumer ID: 905010063 Installation No: 22368727 PRINCIPAL, DR P. C. ROY DINESHING COL LEGE LJHORE	Invoice No.: 64-000139138 Billing Date: 19-03-2021 Billing Cycle: FEB, 2021 Present Reading Date: 01-03-2021 Previous Reading Date: 01-02-2021 Service Area: DURGAPUR, BILL No: Account Reference No: 25689908 Consumer No: 010063	Tariff Code: F(B1) Supply Voltage (KV): 31.00 Contract Demand (KVA): 550.00 PF: 0.8886 LFV: 8.3786 Nature Of Industry: OTHERS Pan No: AAAH00204F
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Sl. No	Sl. No	Type	W	NC	I	MF	5.000	Loss Factor	1	Net MF	6.00
Sl. No	Sl. No	Type	W	NC	I	MF	5.000	Loss Factor	1	Net MF	6.00

Sl. No	KVAH			KWH			KVA / Dt. & Time of MD			
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak	
Present	637.500			393.000			2.440			
Previous	390.500			271.500						
Present (Inj)	554.000			293.000			2.200			
Previous (Inj)	323.000			164.000						

Sl. No	KVAH			KWH			KVA		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Billing	28209.200	0.000	0.000	25065.600	0.000	0.000	118.800	0.000	0.000
Balance A Net									
3 RD. ADV. Net MF	1386.000	0.000	0.000	774.000	0.000	0.000	13.200	0.000	0.000
C.O. KWH	0.000	Inj. KWH	0.000	Exc. Inj. KWH	0.000		Cyl c.o. KWH	0.000	

Sl. No	Charge	Normal			Peak			Off-peak			Energy/Min	Rebate on EC (Rs.)
		Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
1	EC (p/KWH)				110/420						95.38.32	0.00
2	D.F. Reb (-) / Sur (+) (nonEC)				0.00							0.00
3	L.F. Reb (-) (p/KWH)											0.00
4	Chargeable KWH				22291.600	0.00	0.00					39682.32
5	Amount Rs.				99682.3200	0.00	0.00					
6	Chargeable PF				0.8886							
7	Amount Rs.				0.00							

Sl. No	Demand Charge	Normal			Peak			Off-peak			Total DC (Rs.)	Reb on DC
		Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
1	Normal (Rs./KVA/month)				320.00	320.00					0.00	
2	Chargeable Normal KVA				168.00							
3	Chargeable Addl. KVA				0.00							
4	Amount Rs.				53760.00							
5	Sub (-) / Sur (+)											4334.58
6	Sub (-) / Sur (+)											0.00
7	A Charges @ 80 Paise/KWH											11654.97
8	Government subsidy											
9	Other Arrear Charges											0.00

Sl. No	Electricity Duty	Normal			Peak			Off-peak			Net ED (Rs.)	Exception (Rs.)
		Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
1	Domestic Units	00.00			100.00			15.00			5986.94	
2	COM Units	24291.60			100.00			17.50				
3	UR Units	00.00			100.00			5.00				
4	CGM Units	00.00			100.00			15.00				
5	Net ED (Rs.)											65592.00

Sl. No	Other Charges & Outstanding (Rs.)	Normal			Peak			Off-peak			Total ED (Rs.)	Net ED (Rs.)
		Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
1	Rate of Meter/Meters				1200.00							
2	Transformer Rental - GST				0.00							
3	Adjustment											
4	Adjustment											
5	Adjustment											
6	C Charges				0.00							
7	Adjusted Amount				0.00							
8	Timely Payment Rebate				-2654.37							
9	LF Rebate for Timely Payment				0.00							
10	Final Timely Payment Rebate				-2654.37							
11	Amount Before Due Date (Rs.)				61026.00							65592.00
12	Amount After Due Date (Rs.)				61026.00							65592.00

Pages to consumer: Register your mobile No. and email id at mw.wbsecl.in to get Billing and Payment info.
You may be made using RTGS/NEFT in your exclusive a/c no: 88890501006322058727 with IFSC code: INIC000104
Branch: DURGAPUR for the period of JAN2021.

AVOID SIMULTANEOUS USE OF ELECTRICAL APPLIANCES SAVE ENERGY BY JUDICIOUS USE TO SAVE FUTURE GENERATION



(A Government of West Bengal Enterprise)
DASHIM BUDHMAN REGIONAL OFFICE

KALYANPUR HOUSING ESTATE, AGANSOL, PIN- 713305
Phone: 19121 (TOLL FREE), CORPORATE TAN:CALW02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COL LAGE FULBARE Pin - 713206 Country:India	Invoice No.:642000140618 Billing Date:07.04.2021 Billing Cycle:MAR, 2021 Present Reading Date:01.04.2021 Previous Reading Date:01.03.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9035 LP#:8.8805 Nature Of Industry:OTHERS Pan No:AAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MF	6.000 00	Loss Factor	1	Net MF	6.00
Meter Readings			KVAH			EWH			KVA / Dt. & Time of MD		
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
Present	5785.500			5044.000			30.800				
Previous	637.500			393.000							
Present (Inj)	601.000			326.000			1.680				
Previous (Inj)	554.000			293.000							
Reading Advance * Net MF			KVAH			EWH			KVA		
	30888.000	0.000	0.000	27906.000	0.000	0.000	184.800	0.000	0.000		
Inj RD. ADV. * Net MF			KVAH			EWH			KVA		
	282.000	0.000	0.000	198.000	0.000	0.000	10.080	0.000	0.000		
D/P C.O. EWH		Inj EWH		Exc. Inj. EWH		C/1 C.O. EWH					
0.000		198.000		0.000		0.000					

Energy Charge		Normal	Peak	Off-peak	Energy/Min Charge (Rs)		116373.60		
Rate	BC (p/KWH)	4.20			Rebate on BC (Rs.)	0.00			
	P.F.Reb (-)/Sur (+) (%on BC)	0.00			Addl. BC (Rs.)	0.00			
	L.F.Reb (-) (p/KWH)				Total BC (Rs.)	116373.60			
Chargeable	KWH	27708.000	0.00	0.00					
IBC Amount	Rs.	116373.6000	0.00	0.00					
Chargeable	PF	0.9035							
PF	Rs.	0.00							
Demand Charge							*Demand Charge	149760.00	
Rate	Normal (Rs/KVA/month)	320.00						Addl. DC (Rs.)	0.00
Chargeable	Normal KVA	468.00						Total DC (Rs.)	149760.00
	Addl. KVA	0.00						Reb on DC	

Rebate (-)/Surcharge (+) (Rs.)							
LF Reb (-)/Sur (+)		5029.48					
PF Reb (-)/Sur (+)		0.00					
MVA Charges @48 Paise/KWH		13299.84					
###Government subsidy							
## Other Arrear Charges		0.00					

Electricity Duty							
EDIM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)	49283.20		
EDCOM Units	27708.00	%On Net charge	17.50	Exemption (Rs.)			
EDPUR Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)	0.00		
ED DOM Units	00.00	%On Net charge	15.00	ED Adjust (Rs)			
				Total ED (Rs.)	49283.20		

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Amt. For Current Month (Rs)	334946.12
Transformer Rental + GST	0.00	Due Date :	19.04.2021
E.C adjustment		Outstanding Amount (Rs.) : #	0.00
D.C adjustment		Adjustment Amount (Rs) :	-0.62
Other adjustment		Adjustment Amount1 (Rs) : --	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	332101.00
Adjustments	-0.62	Payable After DueDate (Rs) :	334946.00
Timely Payment Rebate	-2844.63	Payable by DueDate	
-Addl LF Rebate for Timely Payment	0.00	Through NEFT/RTGS (RS) :	329285.00
Total Timely Payment Rebate	-2844.63		

Amount Before Due Date (Rs) Three lakh thirty four thousand one hundred one rupees

Amount After Due date (Rs) Three lakh thirty four thousand nine hundred forty six rupees

Messages to consumer Register your mobile No. and email Id at www.wbsecl.in to get Billing and Payment info.

Payment may be made using RTGS/NEFT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC0000104
Outstanding (Others) :Rs.2097.63
*Demand charge includes interruption benefit of 00:00:00 hours



(A Government of West Bengal Enterprise)
DASHIM BUDHMAN REGIONAL OFFICE

KALYANPUR HOUSING ESTATE, AGANSOL, PIN- 713305
Phone: 19121(TOLL FREE), CORPORATE TNN:CALM02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COL LICE FULLHORE Pin - 713206 Country:India	Invoice No.:400023295186 Billing Date:04.05.2021 Billing Cycle:APR,2021 Present Reading Date:01.05.2021 Previous Reading Date:01.04.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9298 LF%:10.4688 Nature Of Industry:OTHERS Pan No:AAAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MF	6.000 00	Loss Factor	1	Net MF	6.00
Meter Readings	KVAH			KWH			KVA / Dt. & Time of MD				
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
Present	11658.500			10504.500			35.040				
Previous	5785.500			5044.000							
Present (Inj)	601.500			326.000			0.640				
Previous (Inj)	601.000			326.000							
Reading Advance + Net MF	35238.000	0.000	0.000	32763.000	0.000	0.000	210.240	0.000	0.000		
Inj RD. ADV. * Net MF	3.000	0.000	0.000	0.000	0.000	0.000	3.840	0.000	0.000		
O/P C.O. KWH	0.000	Inj KWH	0.000	Exc. Inj. KWH	0.000	C/1 C.O. KWH	0.000				

Energy Charge	Normal	Peak	Off-peak	Energy/Min Charge (Rs)	137604.60
Rate	BC (p/KWH)	420		Rebate on BC (Rs.)	0.00
	D.F.Reb (-)/Sur (+) (NonBC)	-0.50		Addl.BC (Rs.)	0.00
	L.F.Reb (-) (p/KWH)			Total BC (Rs.)	137604.60
Chargeable	KWH	32763.000	0.00		
!BC Amount	Rs.	137604.6000	0.00		
Chargeable	PF	0.9298			
PF	Rs.	-688.02			
Demand Charge				*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00		Addl.DC (Rs.)	0.00
Chargeable	Normal KVA	468.00		Total DC (Rs.)	149760.00
	Addl. KVA	0.00		Reb on DC	

Rebate (-)/Surcharge (+) (Rs.)	
LF Reb (-)/Sur (+)	4547.66
PF Reb (-)/Sur (+)	-688.02
MCA Charges @48 Paise/KWH	15726.24
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty					
EDM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)	53179.17
EDDM Units	32763.00	%On Net charge	17.50	Exemption (Rs.)	
EDPUR Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)	0.00
ED DOM Units	00.00	%On Net charge	15.00	ED Adjust (Rs)	
				Total ED (Rs.)	53179.17

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Amt. For Current Month (Rs)	361329.68
Transformer Rental + GST	0.00	Due Date :	17.05.2021
R.C adjustment		Outstanding Amount (Rs.) :	0.00
D.C adjustment		Adjustment Amount (Rs) :	-0.31
Other adjustment		Adjustment Amount1 (Rs) : --	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	358260.00
Adjustments	-0.31	Payable After DueDate (Rs) :	361330.00
Timely Payment Rebate	-3069.50	Payable by DueDate	
-Addl LF Rebate For Timely Payment	0.00	Through NEFT/RTGS (RS) :	355222.00
Total Timely Payment Rebate	-3069.5		

Amount Before Due Date (Rs) Three lakh fifty eight thousand two hundred sixty rupees
Amount After Due date (Rs) Three lakh sixty one thousand three hundred thirty rupees

Messages to consumer Register your mobile No. and email Id at www.wbsecl.in to get Billing and Payment info.
Payment may be made using RTGS/NEFT in your exclusive a/c no: WBS90501006322068727 with IFSC code ICIC0000104
Outstanding (Others) :Rs.2097.63
*Demand Charge includes interruption benefit of 00:00:00 hours



(A Government of West Bengal Enterprise)
DASHIM BIRDMAN REGIONAL OFFICE

KALYANPUR HOUSING ESTATE, AGANSOL, PIN- 713305
Phone: 19121(TOLL FREE), Email: RWASCHIMBIRDMAN@GMAIL.COM, CORPORATE TAN:CALN02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COL LAGE FULBHORE Pin - 713206 Country:India	Invoice No.:665000144366 Billing Date:07.06.2021 Billing Cycle:MAY, 2021 Present Reading Date:01.06.2021 Previous Reading Date:01.05.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9320 LP#:5.8116 Nature Of Industry:OTHERS Pan No:AAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MF	6.000 00	Loss Factor	1	Net MF	6.00
Meter Readings		KVAH			EWH			KVA / Dt. & Time of MD			
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
Present	15027.500			13644.500			12.240				
Previous	11658.500			10504.500							
Present (Inj)	603.000			326.500			1.480				
Previous (Inj)	601.500			326.000							
Reading Advance + Net MF		KVAH			EWH			KVA			
	20214.000	0.000	0.000	18840.000	0.000	0.000	73.440	0.000	0.000		
Inj RD. ADV. * Net MF	9.000	0.000	0.000	3.000	0.000	0.000	8.880	0.000	0.000		
D/P C.O. EWH	0.000	Inj EWH	3.000	Exc. Inj. EWH	0.000	C/I C.O. EWH	0.000				

Energy Charge		Normal	Peak	Off-peak	Energy/Min Charge (Rs)	79115.40
Rate	BC(p/KWH)	420			Rebate on BC (Rs.)	0.00
	P.F.Reb(-)/Sur(+)(%onBC)	-1.00			Addl.BC (Rs.)	0.00
	L.F.Reb(-)(p/KWH)				Total BC (Rs.)	79115.40
Chargeable	KWH	18837.000	0.00	0.00		
IBC Amount	Rs.	79115.4000	0.00	0.00		
Chargeable	PF	0.9320				
PF	Rs.	-791.15				
Demand Charge					*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00			Addl.DC (Rs.)	0.00
Chargeable	Normal KVA	468.00			Total DC (Rs.)	149760.00
	Addl.KVA	0.00			Reb on DC	

Rebate(-)/Surcharge(+) (Rs.)	
LF Reb(-)/Sur(+)	6219.45
PF Reb(-)/Sur(+)	-791.15
MVA Charges @48 Paise/KWH	9041.76
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty					
EDDM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)	42159.60
EDDM Units	18837.00	%On Net charge	17.50	Exemption (Rs.)	
EDPUR Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)	0.00
ED DOM Units	00.00	%On Net charge	15.00	ED Adjust (Rs.)	
				Total ED (Rs.)	42159.60

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Amnt. For Current Month (Rs)	286705.06
Transformer Rental + GST	0.00	Due Date :	17.06.2021
E.C adjustment		Outstanding Amount (Rs.): #	0.00
D.C adjustment		Adjustment Amount (Rs) :	-235545.97
Other adjustment		Adjustment Amount1 (Rs) : --	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	48726.00
Adjustments	-235545.97	Payable After DueDate (Rs) :	51160.00
Timely Payment Rebate	-2433.45	Payable by DueDate Through NEFT/RGSE (RS) :	48222.00
-Addl LF Rebate for Timely Payment	0.00		
Total Timely Payment Rebate	-2433.45		

Amount Before Due Date (Rs)	Forty eight thousand seven hundred twenty six rupees
Amount After Due date (Rs)	Fifty one thousand one hundred sixty rupees
Messages to consumer	Register your mobile No. and email Id at www.wbsecl.in to get Billing and Payment info.

Payment may be made using RGSE/NEFT in your exclusive a/c no: WBS90501006322068727 with IFSC code ICIC0000104
Outstanding (Others) :Rs.2097.63
*Demand charge includes interruption benefit of 00:00:00 hours



SL Government of West Bengal Electricity
MAHARAJA KRISHNA PURAM, KOLKATA

KALKAJI CHAKRA, KOLKATA, PIN- 713005
Phone: 10317222, 10317223 . Email: WBEEDCL@WBEEDCL.COM . CUSTOMER SERVICE: 191



Consumer ID: 908010063 Installation No: 22068727 THE MAHARAJA, DR. S.C. ROY HOUSING COL, LKSH KOLKATA Pin - 713005 Kolkata, India	Transaction No: 1400023876961 Billing Date: 06.07.2021 Billing Cycle: JUNE, 2021 Present Reading Date: 01.07.2021 Previous Reading Date: 01.06.2021 Service No: DUBBAPUR, Bill No Account Reference No: 25689908 Consumer No: 010063	Tariff Code: B (BT) Supply Voltage (KV): 11.00 Contract Demand (KW): 880.00 MFU: 9486 IPU: 8328 Name of Industry: OTHERS Ssn No: 3AARD03047
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Meter No: 08520053	Type	W	MC	1	MF	6.000	Loss Factor:	1	Mt MF	6.00
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Meter Reading	KWH			KVAH			KVARh / Hr. & Then of HD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	18187.500			15642.000			24.120		
Previous	15027.500			13644.500					
Present (Dx)	603.000			326.800			0.000		
Previous (Dx)	603.000			326.500					

Reading Advance = Mt MF	KWH			KVAH			KVAR		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
18960.000	0.000	0.000	0.000	17885.000	0.000	0.000	144.720	0.000	0.000
Trj Mt. MF. *	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Trj MF	0.000			0.000			0.000		

Meter	KWh/KVAH	Normal	Peak	Off-peak	Energy/Whn Change (M)	
					Release on KWh.1	Rel on DC
MF	18187.500	18187.500	0.000	0.000	75507.03	0.00
P.F. Sub (-) / Hr. (s) / Month		-1.50				0.00
L.F. Sub (-) / Hr. (s) / Month						0.00
Chargeable	MF	17885.000	0.00	0.00	75507.03	
UNC Account	Mt.	78807.0300	0.00	0.00		
Chargeable	MF	0.9486				
MF	Mt.	-1132.61				

Meter	Normal (M/KVAH/month)	Demand Change	
		Normal (M)	Rel on DC
MF	18187.500	149760.00	0.00
Chargeable	Normal (M)	149760.00	
Rel on DC	MF	0.00	

MF Sub (-) / Hr. (s) / Month	5182.77
MF Sub (-) / Hr. (s) / Month	-1132.61
MF Charges w/d Demand/ME	8532.80
MF Government subsidy	
MF Other Power Charges	0.00

Meter	MF	MF	MF	MF	MF
MF	0.00	18.00	18.00	18.00	61356.26
MF	17988.00	17.50	17.50	17.50	
MF	0.00	5.00	5.00	5.00	0.00
MF	0.00	15.00	15.00	15.00	
Total MF (M)					61356.26

Other Charges & Outstanding (M)		MF	
MF	1200.00	MF	381548.80
MF	0.00	MF	16.07.2021
MF		MF	0.00
MF		MF	-0.34
MF		MF	0.00
MF	0.00	MF	375160.80
MF	-0.35	MF	381548.80
MF	-2369.51	MF	
MF	0.00	MF	
MF	-2369.51	MF	27706.00

MF before MF (M) Two lakh seventy nine thousand one hundred sixty seven rupees
MF after MF (M) Two lakh eighty one thousand five hundred forty nine rupees

MF to MF Register your mobile No. and email id at mf@wbedcl.in to get Billing and MF info.
MF may be made using MF/MF in your cumulative a/c no. WBEEDCL00822006727 with MF code KCO0006104
Outstanding (MF) M. 2021.03

*Demand Change includes subscription benefit of 20:00:00 hours





West Bengal State Electricity Distribution Company Ltd.
(A Government of West Bengal Enterprise)

DASHIM BUDWAN REGIONAL OFFICE

KALYANPUR HOUSING ESTATE, AGANSOL, PIN- 713305

Phone: 19121 (TOLL FREE), Email: WBSDCL@WBSECL.COM, CORPORATE TNN:CALW02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL,DR B.C.ROY ENGINEERING COL LECCE FULHORE Pin - 713206 Country:India	Invoice No.:402016530027 Billing Date:06.08.2021 Billing Cycle:JUL,2021 Present Reading Date:01.08.2021 Previous Reading Date:01.07.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9506 LF#:7.2572 Nature Of Industry:OTHERS Pan No:AAAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MF	6.000 00	Loss Factor	1	Net MF	6.00
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Time	KVAH			EWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	22394.500			20641.000			23.840		
Previous	18187.500			16642.000					
Present (Inj)	603.000			326.500			0.000		
Previous (Inj)	603.000			326.500					
Reading Advance + Net MF	25242.000	0.000	0.000	23994.000	0.000	0.000	143.040	0.000	0.000
Inj RD. ADV. * Net MF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
O/P C.O. EWH	0.000	Inj EWH	0.000	Exc. Inj. EWH	0.000	C/I C.O. EWH	0.000		

Rate	Energy Charge	Normal			Peak			OFF-peak			Energy/Min Charge (Rs)	
		Rate	EC (p/KWH)	D.F.Reb (-)/Sur (+) (NonEC)	L.F.Reb (-) (p/KWH)	Rate	EC (p/KWH)	D.F.Reb (-)/Sur (+) (NonEC)	L.F.Reb (-) (p/KWH)	Rate		EC (p/KWH)
Chargeable	KWH		23994.000	0.00	0.00						99575.10	
IBC Amount	Rs.		99575.1000	0.00	0.00						Rebate on EC (Rs.)	0.00
Chargeable	PF		0.9506								Adkl. EC (Rs.)	0.00
PF	Rs.		-1991.50								Total EC (Rs.)	99575.10

Rate	Demand Charge	Normal (Rs/KVA/month)			Peak			OFF-peak			*Demand Charge	
		Rate	Normal KVA	Peak KVA	Rate	Normal KVA	Peak KVA	Rate	Normal KVA	Peak KVA		Rate
Chargeable	Normal KVA		468.00								149760.00	
Chargeable	Adkl. KVA		0.00								Adkl. DC (Rs.)	0.00
											Total DC (Rs.)	149760.00
											Reb on DC	

Rebate (-)/Surcharge (+) (Rs.)	
LF Reb (-)/Sur (+)	5866.18
PF Reb (-)/Sur (+)	-1991.50
MVA Charges @48 Paise/EWH	11517.12
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty			
EDM Units	00.00	%On Net Charge	15.00
EDDM Units	23994.00	%On Net charge	17.50
EDPR Units	00.00	%On Net charge	5.00
ED DDM Units	00.00	%On Net charge	15.00
		Net ED (Rs.)	45863.94
		Exemption (Rs.)	
		#Arrear ED (Rs.)	0.00
		ED Adjust. (Rs)	
		Total ED (Rs.)	45863.94

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Amt. For Current Month (Rs)	311790.84
Transformer Rental + GST	0.00	Due Date :	16.08.2021
R.C adjustment		Outstanding Amount (Rs.) :	0.00
D.C adjustment		Adjustment Amount (Rs) :	-0.22
Other adjustment		Adjustment Amount1 (Rs) : --	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	309144.00
Adjustments	-0.22	Payable After DueDate (Rs) :	311791.00
Timely Payment Rebate	-2647.27	Payable by DueDate	
-Adkl. LF Rebate For Timely Payment	0.00	Through NSFT/RTGS (RS) :	306523.00
Total Timely Payment Rebate	-2647.27		

Amount Before Due Date (Rs)	Three lakh nine thousand one hundred forty four rupees
Amount After Due date (Rs)	Three lakh eleven thousand seven hundred ninety one rupees

Messages to consumer Register your mobile No. and email Id at www.wbsecl.in to get Billing and Payment info.

Payment may be made using RTGS/NEFT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC000104

Outstanding (Others) :Rs.2097.63

*Demand Charge includes interruption benefit of 00:00:00 hours



(A Government of West Bengal Enterprise)
DASHIM BUDHAN REGIONAL OFFICE

KALYANDUR HOUSING ESTATE, AGANSOL, PIN- 713305
Phone: 19121(TOLL FREE), Email: WBASCHIMBUDHAN@GMAIL.COM, CORPORATE TAN:CALW02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL,DR B.C.ROY ENGINEERING COL LICE PULHORE Pin - 713206 Country:India	Invoice No.:645000145645 Billing Date:07.09.2021 Billing Cycle:AUG,2021 Present Reading Date:01.09.2021 Previous Reading Date:01.08.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E(EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9516 LF:10.0699 Nature of Industry:OTHERS Pan No:AAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MF	6.000 00	Loss Factor	1	Net MF	6.00
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Time	KVAH			KWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	28232.000			26196.000			38.080		
Previous	22394.500			20641.000					
Present (Inj)	603.000			326.500			0.000		
Previous (Inj)	603.000			326.500					
Reading Advance + Net MF	35025.000	0.000	0.000	33330.000	0.000	0.000	228.480	0.000	0.000
Inj RD. ADV. + Net MF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
O/P C.O. KWH	0.000	Inj KWH	0.000	Exc. Inj. KWH	0.000		C/I C.O. KWH	0.000	

Rate	EC(p/KWH)	Normal			Peak			Off-peak			Energy/Min Charge(Rs)	138319.50
Chargeable	KWH		33330.000	0.00	0.00							
!EC Amount	Rs.		138319.5000	0.00	0.00							
Chargeable	PF		0.9516									
PF	Rs.		-2766.39									

Demand Charge		Normal			Peak			Off-peak			*Demand Charge		149760.00	
Rate	Normal (Rs/KVA/month)		320.00											
Chargeable	Normal KVA		468.00											
	Adkl. KVA		0.00											
Rebate(-)/Surcharge(+) (Rs.)														
LF Reb(-)/Sur(+)													4941.69	
PF Reb(-)/Sur(+)													-2766.39	
MWCA Charges @48 Paise/KWH													15998.40	
###Government subsidy														
## Other Arrear Charges													0.00	

Electricity Duty		Normal			Peak			Off-peak			Total ED(Rs.)		53058.37	
EDDM Units	00.00		%On Net charge		15.00									
EDDM Units	33330.00		%On Net charge		17.50									
EDPR Units	00.00		%On Net charge		5.00									
EDDM Units	00.00		%On Net charge		15.00									
Total ED(Rs.)													53058.37	

Other Charges & Outstanding (Rs.)		Rent. For Current Month(Rs)		360511.57	
Rental of Meter/Meters	1200.00	Due Date :	17.09.2022	Outstanding Amount (Rs.): #	0.00
Transformer Rental + GST	0.00	Adjustment Amount (Rs) :	-0.45	Adjustment Amount1(Rs) : --	0.00
E.C adjustment		Payable by DueDate(Rs) :	357449.00	Payable After DueDate(Rs) :	360512.00
D.C adjustment		Payable by DueDate		Through NEFT/RTGS (RS) :	354417.00
Other adjustment					
IPSC Charges	0.00				
Adjustments	-0.45				
Timely Payment Rebate	-3062.53				
-Adkl LF Rebate for Timely Payment	0.00				
Total Timely Payment Rebate	-3062.53				

Amount Before Due Date(Rs) Three lakh fifty seven thousand four hundred forty nine rupees
Amount After Due date(Rs) Three lakh sixty thousand five hundred twelve rupees

Messages to consumer Register your mobile No. and email Id at www.wbeedcl.in to get Billing and Payment info.

Payment may be made using RTGS/NEFT in your exclusive a/c no: WBB90501006322068727 with IFSC code ICIC0000104

Outstanding (Others) :Rs.2097.63

*Demand Charge includes interruption benefit of 00:00:00 hours





West Bengal State Electricity Distribution Company Ltd.
(A Government of West Bengal Enterprise)

DASCHIM REGIONAL OFFICE

KALYANDUR HOUSING ESTATE, ASANSOL, PIN- 713305

Phone: 19121 (TOLL FREE), Email: WBSDCL@WBSEDCOMAIL.COM, CORPORATE TNN:CALW02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COLLEGE FULBHRU Pin - 713206 Country:India	Invoice No.:673000146659 Billing Date:07.10.2021 Billing Cycle:SEP, 2021 Present Reading Date:01.10.2021 Previous Reading Date:01.09.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9505 LP#:7.6752 Nature Of Industry:OTHERS Pan No:AAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MF	6.000 00	Loss Factor	1	Net MF	6.00
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Time	KVAH			KWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	28232.000			26196.000			38.080		
Previous	28232.000			26196.000					
Present (Inj)	603.000			326.500			0.000		
Previous (Inj)	603.000			326.500					
Reading Advance * Net MF	25834.890	0.000	0.000	24557.280	0.000	0.000	456.960	0.000	0.000
Inj RD. ADV. * Net MF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D/P C.O. KWH	0.000	Inj KWH	0.000	Exc. Inj. KWH	0.000	C/I C.O. KWH	0.000		

Energy Charge	Normal	Peak	Off-peak	Energy/Min Charge (Rs)	101912.71
Rate	BC (p/KWH)	415		Rebate on BC (Rs.)	0.00
	P.F.Reb(-)/Sur(+)(%onBC)	-2.00		Adkl.BC (Rs.)	0.00
	L.F.Reb(-) (p/KWH)			Total BC (Rs.)	101912.71
Chargeable	KWH	24557.280	0.00		
IBC Amount	Rs.	101912.7100	0.00		
Chargeable	PF	0.9505			
PF	Rs.	-2038.25			
Demand Charge				*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00		Adkl.DC (Rs.)	0.00
Chargeable	Normal KVA	468.00		Total DC (Rs.)	149760.00
	Adkl. KVA	0.00		Reb on DC	

Rebate (-)/Surcharge (+) (Rs.)	
LP Reb(-)/Sur(+)	5543.13
PF Reb(-)/Sur(+)	-2038.25
MVCA Charges @48 Paise/KWH	11787.49
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty	Units	%On Net Charge	Rate	Net ED (Rs.)
EDDM Units	00.00		15.00	46251.70
EDDM Units	24557.28		17.50	Exemption (Rs.)
EDDUR Units	00.00		5.00	#Arrear ED (Rs.)
ED DOM Units	00.00		15.00	ED Adjust (Rs)
				Total ED (Rs.)

Other Charges & Outstanding (Rs.)		Amt. For Current Month (Rs)	
Rental of Meter/Meters	1200.00	Due Date :	18.10.2021
Transformer Rental + GST	0.00	Outstanding Amount (Rs.) :	0.00
E.C adjustment		Adjustment Amount (Rs.) :	-0.32
D.C adjustment		Adjustment Amount1 (Rs.) :	0.00
Other adjustment		Payable by DueDate (Rs) :	311747.00
LPSC Charges	0.00	Payable After DueDate (Rs) :	314417.00
Adjustments	-0.32	Payable by DueDate	
Timely Payment Rebate	-2669.65	Through NSPT/RIGS (RS) :	309104.00
-Adkl LP Rebate For Timely Payment	0.00		
Total Timely Payment Rebate	-2669.65		

Amount Before Due Date (Rs)	Three lakh eleven thousand seven hundred forty seven rupees
Amount After Due date (Rs)	Three lakh fourteen thousand four hundred seventeen rupees

Messages to consumer Register your mobile No. and email id at www.wbsecl.in to get Billing and Payment info.

Payment may be made using RIGS/NSPT in your exclusive a/c no: WBS90501006322068727 with IFSC code ICIC0000104
Outstanding (Others):Rs.2097.63

*Demand charge includes interruption benefit of 00:00:00 hours





West Bengal State Electricity Distribution Company Ltd.
(A Government of West Bengal Enterprise)
DASCHIM BUREGWAJ REGIONAL OFFICE

KALYANPUR HOUSING ESTATE, ASANSOL, PIN- 713305
Phone: 19121(TOLL FREE), Mail: WBSDASCHIMBUREGWAJ@GMAIL.COM, CORPORATE TDM:CALWO2888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL,DR B.C.ROY ENGINEERING COL LAGE PULAHORE Pin - 713206 Country:India	Invoice No.:668000147215 Billing Date:07.11.2021 Billing Cycle:OCT, 2021 Present Reading Date:01.11.2021 Previous Reading Date:01.10.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E(EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9376 LPN:8.3405 Nature Of Industry:OTHERS Pan No:AAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MP	6.000	Loss Factor	1	Net MP	6.00
Meter Readings		KVAH			KWH			KVA / Dt. & Time of MD			
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
Present	28232.000			26196.000			0.000				
Previous	28232.000			26196.000							
Present (Inj)	603.000			326.500			0.000				
Previous (Inj)	603.000			326.500							
Reading Advance * Net MF		29010.000	0.000	0.000	27200.000	0.000	0.000	148.800	0.000	0.000	
Inj HD. ADV. * Net MF		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
D/P C.O. KWH	0.000	Inj KWH	0.000	Exc. Inj. KWH	0.000	C/1 C.O. KWH	0.000				

Energy Charge		Normal	Peak	Off-peak	Energy/Min Charge (Rs)	112836.13
Rate	BC(p/KWH)	415/410			Rebate on BC(Rs.)	0.00
	P.F.Reb(-)/Sur(+)(%onBC)	-1.00			Adil BC(Rs.)	0.00
	L.F.Reb(-)(p/KWH)				Total BC(Rs.)	112836.13
Chargeable	KWH	27200.000	0.00	0.00		
BC Amount	Rs.	112836.1300	0.00	0.00		
Chargeable	PF	0.9376				
PF	Rs.	-1128.36				
Demand Charge					*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00 /320.00			Adil DC(Rs.)	0.00
Chargeable	Normal KVA	468.00			Total DC(Rs.)	149760.00
	Adil KVA	0.00			Reb on DC	

Rebate(-)/Surcharge(+) (Rs.)	
LF Reb(-)/Sur(+)	5432.97
PF Reb(-)/Sur(+)	-1128.36
MCA Charges @48 Paise/KWH	13056.00
###Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty					
EDIM Units	00.00	%on Net charge	15.00	Net ED(Rs.)	48502.50
EDDM Units	27200.00	%on Net charge	17.50	Exemption (Rs.)	
EDPUR Units	00.00	%on Net charge	5.00	#Arrear ED(Rs.)	0.00
ED DOM Units	00.00	%on Net charge	15.00	ED Adjust (Rs)	
				Total ED(Rs.)	48502.50

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Amnt. For Current Month(Rs)	329659.24
Transformer Rental + GST	0.00	Due Date :	17.11.2021
E.C adjustment		Outstanding Amount (Rs.) :	0.00
D.C adjustment		Adjustment Amount (Rs.) :	-0.14
Other adjustment		Adjustment Amount1 (Rs.) :	0.00
LISC Charges	0.00	Payable by DueDate (Rs) :	326860.00
Adjustments	-0.14	Payable After DueDate (Rs) :	329660.00
Timely Payment Rebate	-2799.57	Payable by DueDate	
-Adil LF Rebate for Timely Payment	0.00	Through NSPT/RIGS (RS) :	324088.00
Total Timely Payment Rebate	-2799.57		

Amount Before Due Date (Rs) Three lakh twenty six thousand eight hundred sixty rupees
Amount After Due date (Rs) Three lakh twenty nine thousand six hundred sixty rupees

Messages to consumer Register your mobile No. and email id at www.wbsecl.in to get Billing and Payment info.

Payment may be made using RIGS/NSPT in your exclusive a/c no: WEB90501006322068727 with IFSC code ICIC0000104

Outstanding (Others) :Rs.2097.63

*Demand Charge includes interruption benefit of 00:00:00 hours





West Bengal State Electricity Distribution Company Ltd.
(A Government of West Bengal Enterprise)

DASHIM BUDHAN REGIONAL OFFICE

KALYANDUR HOUSING ESTATE, ASANSOL, PIN- 713305

Phone: 19121 (TOLL FREE), Email: RMDASHIMBUDHAN@WBSEDCL.COM, CORPORATE TNN: CNJW02888E



Consumer ID:905010063 Installation No:22068727 THE PRINCIPAL, DR B.C.ROY ENGINEERING COL LANE FULBHRIG Pin - 713206 Country:India	Invoice No.:402017029689 Billing Date:03.12.2021 Billing Cycle:NOV,2021 Present Reading Date:01.12.2021 Previous Reading Date:01.11.2021 Service At:DURGAPUR, BILL No: Account Reference No:25689908 Consumer No: 010063	Tariff Code:E (EI) Supply Voltage(KV):11.00 Contract Demand(KVA):550.00 PF:0.9025 LP#:11.4135 Nature Of Industry:OTHERS Pan No:AAABD0204F
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Meter No	SH5E0053	Type	W	MC	1	MF	6.000 00	Loss Factor	1	Net MF	6.00
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Time	KVAH			KWH			KVA / Dt. & Time of MD		
	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak
Present	34635.000			31974.500			28.760		
Previous	28232.000			26196.000			24.11.21 17:15:00		
Present (Inj)	603.000			328.000			0.000		
Previous (Inj)	603.000			326.500			24.11.21 17:15:00		
Reading Advance + Net MF	38418.000	0.000	0.000	34671.000	0.000	0.000	172.560	0.000	0.000
Inj ED. ADV. Net MF	0.000	0.000	0.000	9.000	0.000	0.000	0.000	0.000	0.000
D/P C.O. KWH	0.000	Inj KWH	9.000	Exc. Inj. KWH	0.000	C/I C.O. KWH	0.000		

Energy Charge	Normal	Peak	Off-peak	Energy/Min Charge (Rs)	142114.20
Rate	BC (p/KWH)	410		Rebate on BC (Rs.)	0.00
	P.F.Reb (-)/Sur (+) (%on BC)	0.00		Adtl. BC (Rs.)	0.00
	L.F.Reb (-) (p/KWH)			Total BC (Rs.)	142114.20
Chargeable	KWH	34662.000	0.00		
IBC Amount	Rs.	142114.2000	0.00		
Chargeable	PF	0.9025			
PF	Rs.	0.00			
Demand Charge				*Demand Charge	149760.00
Rate	Normal (Rs/KVA/month)	320.00		Adtl. DC (Rs.)	0.00
Chargeable	Normal KVA	468.00		Total DC (Rs.)	149760.00
	Adtl. KVA	0.00		Reb on DC	

Rebate (-)/Surcharge (+) (Rs.)	
LP Reb (-)/Sur (+)	4126.09
PF Reb (-)/Sur (+)	0.00
MVA Charges @48 Paise/KWH	16637.76
##Government subsidy	
## Other Arrear Charges	0.00

Electricity Duty				
EDIM Units	00.00	%on Net Charge	15.00	Net ED (Rs.)
EDDM Units	34662.00	%on Net charge	17.50	Exemption (Rs.)
EDPUR Units	00.00	%on Net charge	5.00	#Arrear ED (Rs.)
ED DOM Units	00.00	%on Net charge	15.00	ED Adjust (Rs)
				Total ED (Rs.)

Other Charges & Outstanding (Rs.)			
Rental of Meter/Meters	1200.00	Rent. For Current Month (Rs)	368002.58
Transformer Rental + GST	0.00	Due Date :	13.12.2021
E.C adjustment		Outstanding Amount (Rs.) :	# 0.00
D.C adjustment		Adjustment Amount (Rs) :	-0.04
Other adjustment		Adjustment Amount1 (Rs) :	0.00
LPSC Charges	0.00	Payable by DueDate (Rs) :	364877.00
Adjustments	-0.04	Payable After DueDate (Rs) :	368003.00
Timely Payment Rebate	-3126.38	Payable by DueDate	
-Adtl LP Rebate for Timely Payment	0.00	Through NEFT/RTGS (RS) :	361782.00
Total Timely Payment Rebate	-3126.38		
Amount Before Due Date (Rs)	Three lakh sixty four thousand eight hundred seventy seven rupees		
Amount After Due date (Rs)	Three lakh sixty eight thousand three rupees		

Messages to consumer Register your mobile No. and email Id at www.wbsecl.in to get Billing and Payment info.
Payment may be made using RTGS/NEFT in your exclusive a/c no: WB90501006322068727 with IFSC code ICIC0000104
Outstanding (Others):Rs.2097.63
*Demand Charge includes interruption benefit of 00:00:00 hours



D.S. Steel

ENGINEER, CIVIL & MECHANICAL CONTRACTOR

Regd. Office: 2/3, Golf Nagar
Post: Amal, Durgapur - 713203
Mob: 9434077997
e-mail: dsssteel@gmail.com

Ref. No. - DSS/BCREC/BILL/1st & Final

Date- 02-06-2020

TAX INVOICE

S/C

To
The Secretary
Dr. B.C.Roy Engineering College
Jemma Road, Fuljhore,
Durgapur - 713206

D.S.Steel
State : West Bengal
State Code-19
GSTIN -
19AEBPD7579J123

Sub : Submission of 1st & Final Bill .

Name of work : i) Civil work for rain water Harresting in front of Engg. & Management main
Building inside BCREC Campus, Durgapur

Work Order No- BCREC /E&S B/19-20/316 dtd-12-02-2020

Dear Sir,

With due respect we are hereby submitting our 1st & Final Bill of amount Rs. 1,84,814.61
(Rupees One lakh eighty four thousand eight hundred fourteen & paisa sixty one only).

So please received our bill documents and related our payment after your necessary
official process.

Your early action will be highly appreciated.

Thanking & assuring you our best services.

Your's faithfully,

D. S. STEEL

[Signature]

Proprietor

Encl: i) Bill of 2 copy
ii) Measurement sheet

[Signature]

Our Bank Details:

D.S.Steel.
Bank: Canara Bank
A/C No:0186256010313
Branch: Durgapur
IFS Code:CNRB0000186



Dr. B.C.Roy Engineering College, Durgapur

Ref. BCR/PR/ /2018

Dated: 07/08/2018

NOTICE

Going green is a mindset that involves continual pursuit of knowledge regarding how to live life in an environmentally friendly and responsible way. In addition to big things that reduce people's carbon footprint, individuals can adopt small, everyday practices and behaviors that help protect the environment and preserve natural resources for current and future generations. Many institutions are implementing simple everyday things to larger innovative practices and policies to help protect the planet and preserve resources for future generations.

With the above motto, Dr. B. C. Roy Engineering College, Durgapur, has implemented **green practices to promote environment friendly and healthy commuting habits amongst students and the staff members.**

The college is encouraging the students and the staff members to ride **bicycles** over cars which help to protect the environment by reducing harmful emissions. Students are being counseled that **bicycle** riding is an easy way to do their part in helping to preserve planet and keep their own **college campus** free of stinky exhaust fumes.

All concerned are requested to extend their fullest cooperation by using bicycles and contribute towards energy conservation and reducing carbon emission to keep the campus green and sustainable.



Prof. (Dr) Pijush Pal Roy
Director
Dr. B.C.Roy Engineering College

Copy to : General Secretary....for kind information
All HODs /Incharges
All members of Induction Programme Coordination Committee
Registrar/Head-Admn./Campus Administrator
Sr. Manager (Admn.)/Sr. Manager(Finance)



Dr. B.C. Roy Engineering College, Durgapur

Ref. BCR /PR/ /2018

Dated: 06/11/2018

NOTICE

Being good environmental stewards mean teaching students to carry the torch after graduating and leaving the campus. With the above objective, **green practices** are a way of life at Dr. B. C. Roy Engineering College, Durgapur.

There has been a global movement towards the phase-out of lightweight plastic bags as plastic bags are polluting the land and water immensely. The college has initiated drives to reduce the usage of plastics to the barest minimum on and off the campus. Even the college is trying to ban the usage of plastic bags inside the campus. Since **Styrofoam** creates harmful air pollutants which contaminate landfills and depletes the ozone layer, use of Styrofoam inside the campus is also prohibited.

The NSS Wing of the college has also initiated a '**No Plastic Awareness**' campaign to sensitize all concerned about hazards of using plastic.

All concerned are requested to extend full co-operation in this regard to maintain the BCREC campus clean and plastic free.



Prof. (Dr) Pijush Pal Roy
Director
Dr. B.C.Roy Engineering College

Copy to : General Secretary....for kind information
All HODs /Incharges
Registrar
Head-Admn.
Campus Administrator
Sr. Manager (Admn.)
Sr. Manager (Finance)
NSS Cell
All hostels



Dr. B.C.Roy Engineering College, Durgapur

Ref . BCR / PR / /2019

Dated: 01/06/2019

Notice

World Environment Day (WED) is celebrated on 5 June every year, and is the United Nations' principal vehicle for encouraging awareness and action for the protection of the environment. It has been a flagship campaign for raising awareness on environmental issues emerging from marine pollution, human overpopulation, and global warming, to sustainable consumption and wildlife crime.

Dr. B. C. Roy Engineering College, Durgapur, will be celebrating **World Environment Day on 5th June 2019**. To commemorate this occasion, a **Tree Plantation Drive** with the initiative of NSS wing will be held at 10 AM at the college premises. Subsequently, an orientation program will also be conducted to sensitize students about green practices.

Considering the manifold benefits of trees, including that they release oxygen into the air, absorb unpleasant odours as well as harmful gases such as carbon dioxide, carbon monoxide and sulfur dioxide from the air and purify it, protect us from dangerous ultra-violet rays, provide us with food and the pivotal role played by trees in preventing soil erosion, maintaining ecological balance and most especially in lessening the effects of global warming, the NSS team of the college conducts **tree plantation drive** once a year on World Environment Day.

All the members of the faculty and staff are requested to attend the event and make it a grand success like previous years.



Prof. (Dr) Pijush Pal Roy
Director
Dr. B.C.Roy Engineering College

Copy to : General Secretary....for kind information
All HODs /Incharges
All members of Induction Programme Coordination Committee
Registrar/Head-Admn./Campus Administrator
Sr. Manager (Admn.)/Sr. Manager(Finance)

