



ENERGY AUDIT

ENERGY AUDIT REPORT

APRIL-2023

Submitted To: Children's University

Located at: Subhash Chandra Bose
Shixan Sankul, Chh-5, Children's
University, Sector 20, Gandhinagar,
Gujarat 382021

Submitted By:

Excel Enviro Tech

(NABL & NABET Accredited)

TF-2, Sun House, Near Old High Court,

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CHILDREN'S UNIVERSITY



CERTIFICATE

This is to certify that We Excel Enviro Tech located at TF-2, Sun House, Old high court lane, Near Income Tax, Ahmedabad-380009, has successfully completed Energy Conservation Audit(Energy Audit) of **Children's University** located at : Subhash Chandra Bose Shixan Sankul, Chh-5, Children's University, Sector 20, Gandhinagar, Gujarat 382021, in the month of April-2023.

Company Seal

Authorized Signatory

Excel Enviro Tech

INTRODUCTION OF CHILDREN'S UNIVERSITY

About Us:

- The children of today have to be prepared to become builders of the future, - the future which would be marked by replacement of competitive individualism by the synthesis of individual liberty, collective egalitarianism and universal and spiritual fraternity;
- The future will be liberated from disabling scepticism and from comforting arrestation of quest of knowledge, and progress will be accelerated by ardent aspirations to realise higher spiritual truths and their manifestation in physical life;
- The new world of the future will cultivate material life so as to make it prosperous and rich and it will replace poverty wherever it exists by elimination of drudgery, exploitation and slavery and encourage nobility, dignity and continuous empowerment.

The children's university will lead the children of today to build a new world of friendliness, mutuality and harmony that transcends all barriers of narrowness and blind conflicts resulting from exclusivism and burden of the past that strives to linger against the pressure of the future of uplifting light and prosperity.

Vision

The Vision of Children's University is three-dimensional.

- To develop Bharatiya stream of knowledge and lifestyle by achieving five-layered development of children.
- To make children realize the higher spiritual truths.
- To augment knowledge capita by preparing children for substantial researches along with building and creating their sublime character and self-pride.

Objectives

- To re-create the teaching pedagogical structure by integrating the guidance of globally acclaimed academicians.
- To create human beings inspired by nationalistic zeal and patriotism.
- To inculcate ethical and cultural values in children.
- To establish Bharat as an academic power of the world by integrating the knowledge of antiquity and modernity.
- To prepare a child in multiple talents, science and technology and thereby, to inspire the one for the purpose of nation- building.

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Objective:

The objects of the University shall be as follows: -

- (1) to study and undertake research in the works of pioneering educationists of Gujarat, India as also of other parts of the world, who have underlined the need for child-centred holistic education so as to derive guidance from the same;
- (2) to promote the fundamental duties laid" down in article 51A of the Constitution of India;
- (3) to foster in the University highest purposes of education of the body, life, and mind as also of the human spirit in its integrity;
- (4) to promote synthesis of scientific realism and artistic creativity;
- (5) to recover the lights from lessons of ancient wisdom in the context of modern developments; Establishment and Incorporation of University. Headquarters Of University. Objects of University. PART-IV] GUJARAT GOVERNMENT GAZETTE, EX., 31-7-2009 16-4
- (6) to establish facilities, programmes and activities of research, education, training, and extension services that promote all levels of child's development, including at the primary and secondary levels of education;
- (7) to introduce and nurture innovations in the education system so as to reflect India's spiritual knowledge, robust intellectuality and inexhaustible creativity;
- (8) to study and derive lessons from the ongoing experiments of education that are taking place in Gujarat as also elsewhere and to foster all the valuable innovative work and promote the same for larger expansion and utilization.

EXCEL ENVIROTECH CONSULTANCY PROFILE

Excel Enviro Tech (EET) is a progressive organization specialized from year 2002. EET is in the field of environmental consultancy for environment clearance from MoEF & SEAC, Consent to Establish (NOC) and Consent to Operate (CCA) from GPCB, Effluent Treatment Plant Design, Operation and Maintenance of Treatment Plant. EET has obtained ISO:45001:2018 certification for Health & Safety system.

EXCEL ENVIROTECH (EET) provides specialty-consulting services in Environment Management, Risk Assessment and Health & Safety. The company has a team of professional engineers and scientists, with extensive accumulated experience in all aspects of environmental engineering.

EET has installed full-fledge testing laboratory, for monitoring and analysis in the areas of ambient air, water, Noise, Fuel, soil, microbiological parameters and hazardous waste. For establishing the confidence in the work done, the laboratory has got the **PRESTIGIOUS RECOGNITION FROM MOEFCC as Gazette Laboratory**; and Accreditation from **NABL** for more than 400 parameters.



QUALITY COUNCIL OF INDIA
Creating an Ecosystem for Quality



**National Accreditation Board
for Education and Training**



Certificate of Accreditation

Excel Enviro Tech, Ahmedabad

TF-2, FF-1 & FF-2, Sun House, Old High Court Lane, Nr. Income tax, Off Ashram Road, Ahmedabad

The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3; for preparing EIA-EMP reports in the following Sectors -

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including Open cast and underground	1	1 (a) (i)	A
2	Thermal power plants	4	1 (d)	B
3	Mineral beneficiation	7	2 (b)	A
4	Metallurgical industries	8	3(a)	B
5	Cement plants	9	3 (b)	B
6	Coke oven plants	11	4 (b)	A
7	Pesticides industry and pesticide specific intermediates (excluding formulations)	17	5 (b)	A
8	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	21	5 (f)	A
9	Common hazardous waste treatment, storage and disposal facilities	32	7 (d)	B
10	Common Effluent Treatment Plants (CETPs)	36	7 (h)	B
11	Building and Construction Projects	38	8 (a)	B
12	Townships and Area development Projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated Jan 07, 2022 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/22/2297 dated April 04, 2022. The accreditation needs to be renewed before the expiry date by Excel Enviro Tech, Ahmedabad following due process of assessment.



Sr. Director, NABET
Dated: April 04, 2022

Certificate No.
NABET/EIA/2124/RA 0234_Rev 01

Valid up to
June 27, 2024



For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to the QCI-NABET website.



**National Accreditation Board for
Testing and Calibration Laboratories**

CERTIFICATE OF ACCREDITATION

EXCEL ENVIRO TECH

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

TF-2, FF-1 & FF-2, SUN HOUSE, OLD HIGH COURT LANE, OFF ASHRAM ROAD, AHMEDABAD, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-5892

Issue Date: 18/11/2022 Valid Until: 17/11/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : Excel Enviro Tech

Signed for and on behalf of NABL





N. Venkateswaran
Chief Executive Officer

Details of Consumer

Name of Consumer : Children's University, Gandhinagar.

Name of Consumer as per Bill : CHILDREN UNIVERSITY

Name of Contact Person : Mrs. Denisha Madam

E-mail Address : estate@cugujarat.ac.in

Contract Demand : 99 KW

Purpose of Consumer : Commercial

Consumer Service No. : 954666

Name of Supplier Office : Torrent Power :

Period of Audit : April 2023

General

Globalization has made tremendous changes in the world & concept of Energy Conservation left behind by doing Energy Audits. Energy saved is Energy Generated the global mantra now in this world. Energy is essential to life & its conservation has become as absolute necessity. The requirement of energy has gone up in last few years & would touch unimaginable preparation of population explosion & improvement of living standards.

Energy Audits mean lot of things & common meaning are:

- Using less Energy in particular application
- Finding ways to purchase particular form of energy at lower cost. This is usually accomplished by negotiation with energy providers.
- Shifting to different energy resources at lower costs.
- Using "Free or Renewable" energy sources that considered being more desirable, or less undesirable, with regards to non efficiency concerns such as availability and pollution. Conservation of Water, Fuels & Materials, as well as energy sources.
- Considerable efforts are required by all sectors of society. Constant R & D is also required towards improving the Thermal Efficiency of the building, Electrical equipments, Industrial process, Heating & Cooling equipments.
- A lot of experience knowledge and hard work required for energy conservations. The most important is that everyone has to keep himself abreast with the latest and emerging technologies to incorporate in industry.

Electrical System Profile

Customer ID: 954666

Supply Type: Three Phase

Sanctioned Load: 99.000 kW

Billing Demand: 84.500 kW

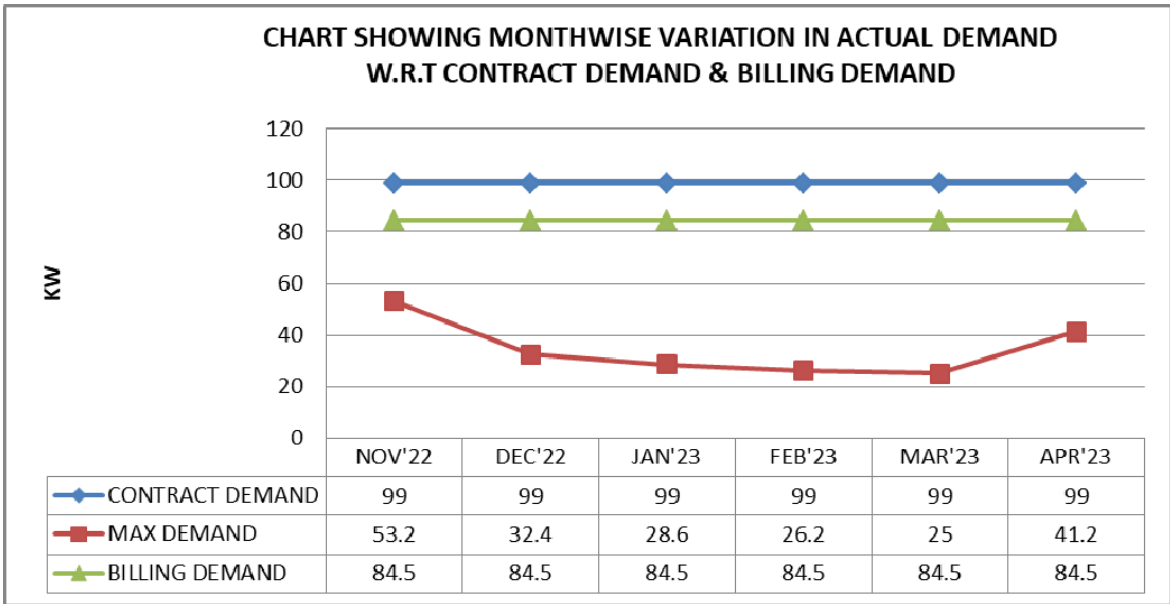
ELECTRICITY BILL SUMMARY

Sr. No.	Month	RKVAH	MDKW Maximum Demand Value	Energy (Consumed Units)	Total Bill Amount (Rs.)	Energy charges (Rs./kwh)
1	Apr-22	868	57.1	8992	83300	9.26
2	May-22	672	64.7	4813	93230	19.37
3	Jun-22	970	58.2	13224	116030	8.77
4	Jul-22	662	68.2	9556	89520	9.36
5	Aug-22	50	72.6	8068	78230	9.69
6	Sep-22	84	52.2	8122	78640	9.68
7	Oct-22	98	63.0	8198	80040	9.76
8	Nov-22	88	53.2	4382	50690	11.56
9	Dec-22	104	32.4	4552	52000	11.42
10	Jan-23	126	28.6	4626	53720	11.61
11	Feb-23	98	26.2	4262	50840	11.92
12	Mar-23	70	25	5240	58,610	11.18
Average		324	50.11	7002	73737	11.13

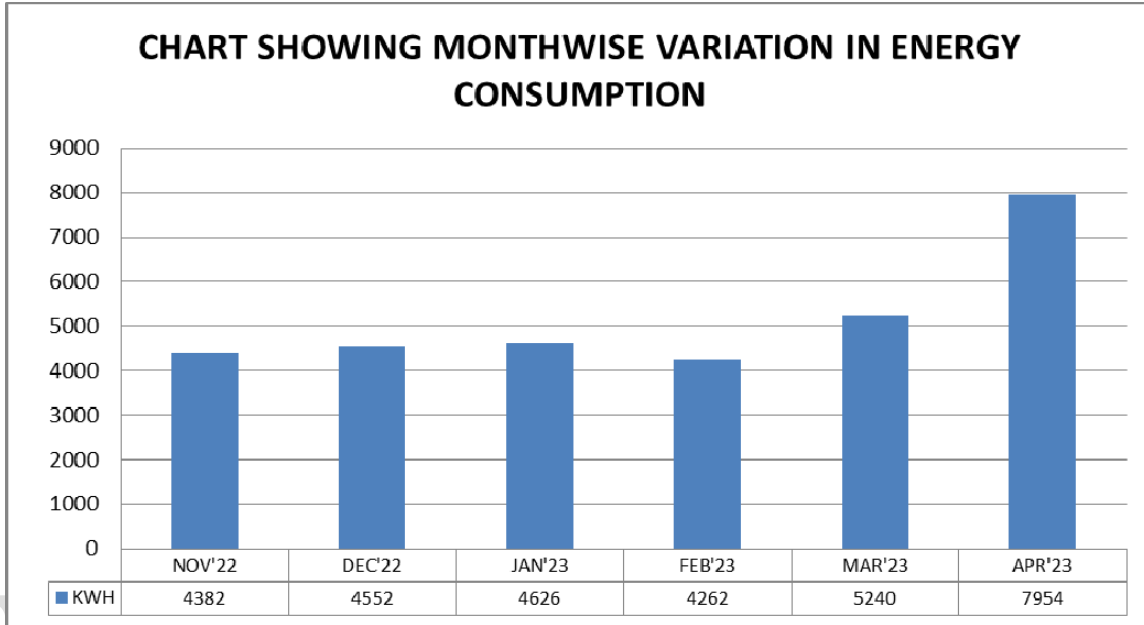
Observation:

Average Monthly Electricity bill of Children University is Rs. 73737/- monthly and average unit Consumption is 7002 monthly. Actual max. demand & monthly consumption varies significantly due to change in demand. The average energy charge is Rs. 11.13/-kwh, which include Max. demand charges TOU charges, FPF & Government duty charges.

Energy Demand Pattern



Energy Consumption Pattern



ENERGY AUDIT

Power Factor:

Normally Induction motors are characterized by power factors less than unity, leading to lower overall efficiency associated with plant electrical system. The impact of PF correction includes reduced Kva demands & hence reduced utility demand charged. It also reduced I^2R losses in cable in upstream & reduces voltage drop in cables. It should be noted that Capacitor improve power factor from the point of installation back to generation side. The size of capacitor required for particular motor depends upon the no load reactive KVA drawn by motor.

Conclusion: The average power factor as per billing system is very good and nothing do change anything accept monitoring of the same.

Adverse Effects of Over Compensation / Leading PF

- Extra Power loss in Capacitors. Transformer losses Increased, which requires higher capacity than the required to supply the same Kw load.
- Over heating of the Cable & Switch gear that increases cable losses.
- The current would be higher which puts extra stress on the LT switchgear reducing the useful life of the switchgear & Cables.
- Voltage will increase at the point of common coupling of capacitors. So the higher the kvar, the higher voltage at the point of capacitors installation.

Monitoring and Metering System

Roll of Proper Metering System: A large amount of electricity being handled by electrical department in industry, even 1 % of electrical saving in losses would provide substantial financial benefits to utilities. To release the benefits, a systematic approach to install energy monitoring metering system at number of places. Development of comprehensive energy accounting system would enable quantification of loss in different segments of the system and their segregation. Proper and accurate meters, metering system and practice are essential for effective and correct energy accounting. It also gives the needs of the management Information's systems for adopting Continuous Energy accounting, which is the bonus to the management.

Observations: Mostly LT 3 ph – 4 wire energy meters are at the most placed at the Main LT panel. These meters provided the Voltage/Current/Energy to monitor plant electrical equipment parameters at Main Panel. A hand held clip-on meter is also used for measuring the power consumption data. The total energy consumption is taken out on License meter only. As these reading are taken manually and calculating is laborious task and create errors. Installation of Microprocessor based instrumentation at load feeders and respective feeders helps complete monitoring the energy consumption. This meter provides kW, volt, ampere, PF, and cumulative energy consumption. This will also remove to maintain the logbook and necessary removal of electromechanical meters and their maintenance.

Objectives of Energy Accounting

- Identifications of high-energy consumption areas.
- Identification for losses due to equipments.
- Line losses caused by resistance of Conductor of cable.
- Weak and inadequate & UN planed net working.
- Transformer and regulator losses. [Copper & No load loss]
- Die electric losses in underground cables.

- Power factor losses due to poor power factor in downstream equipment.
- Inadequate reactive compensation at load points.
- Voltage droop & over load loss.
- Incorrect operation of machine
- Increasing the load by installation of excessive size of motors.

Conclusion: Any energy conservation goal will be successful only when all the employees in the office will involve. To full fill the task for energy accounting, Engineers are motivated for energy accounting scheme effectively & trained appropriately and encourage their support and give them awards for their energy saving initiative. It can therefore be seen that taking an Energy Audits will be extremely beneficial to all consumers whether it is Industries, Hotels or domestic consumers. Energy audit are one of those happy tasks which while leading to immediate improvement in the profitability and economic viability of the industries. It also benefit to the nation to use scarce resources more efficiently.

Harmonics

Major causes of Harmonics: Devices that draw non-sinusoidal currents when a sinusoidal voltage is applied create harmonics. Frequently these devices develop that convert AC to DC. However, in real life situation varies devices like, diodes, silicon control rectifiers, PWM system, Thyristor, Voltage & Current chopping Induction & Arc furnaces, are also deployed for various requirements and due to varying impedance characteristics. These non-linear loads caused distortion in voltage and current wave forms, which is of increasing concern indecent time. Harmonic occurs as spikes at interval which are multiples of the main supply frequency and these distorted the pure sine wave from of the supply voltage & current.

Harmonics are multiples of fundamental frequency of an electrical power system. Example The fundamental frequency is 50 Hz, and then the 5th harmonic is 5 times that frequency or 250 Hz. Likewise, 7th harmonic is seven times of fundamental or 350 Hz and so on for higher order Harmonics. Harmonics can be discussed in terms of Current and Voltage. A 5th Harmonic current is simply a current flowing at 250 Hz on 50 Hz system. The 5th Harmonic current flowing through system, Impedance creates a 5th harmonic Voltage. Harmonic is expressed in Terms of Total Harmonic Distortion [THD]. When harmonic current flow in system they are known as **“poor power quality” or “Dirty power”** Other causes of poor power quality includes Transient such as voltage Spike, Surges, Sags & ringing. Because they repeat in each cycle, Harmonics are regarded as steady state cause of poor quality power.

Adverse Effects of Harmonics in System

- Blinking of Incandescing light –Transformer Saturation.
- Capacitor failures – Harmonics Resonance.
- Circuit Breaker failure, heating of Switches gear & Cable – Inductive heating
- Electronic Equipment Failure – Voltage Distortion.
- Flickering of tub light & pre-matured failures – Transformer Saturation.
- Fuses blown off & tripping of MCBs – Inductive heating.
- Failures of Motors [over heating] – Voltage drops
- Neutral Conductor & terminal failure – Inductive heating
- Power Interference on Voice Communication – Harmonic Noise
- Overheating in Transformers – Inductive heating

Solutions for Harmonics: Distortion in Voltage and current waveform is not desirable in electrical network, because of their adverse impact on connected equipments. It is there for prudent to installed tuned harmonic filters close to loads generating harmonics current. Harmonic current is filtered at the source reliving the network from evil effect of harmonic. The harmonic filters are Capacitors bank connected in series with reactor. The required reactor value is calculated based on load & housed in cubical panel with suitable switch gear. The filter system injects required inductive Kvar to the network to improve power factor below the harmonic frequency and beyond harmonic frequency. Thus, prevent amplification of harmonics.

❖ **MAIN I/C :**

DESCRIPTION	MAIN			
	R	Y	B	N
V(L)	390	389	392	
V (Ph)	224	215	237	
AMP.	63.8	112.9	45.5	42.1
Hz	50.01			
KW	14.45	19.45	10.75	
KVAR	0.78	1.95	1.51	
KVA	14.52	21.30	10.86	
P.F	0.99	0.99	0.99	
%V	2.3	2.9	1.8	
%A	3.6	4.9	6.1	

- Above table mentions the data collection at the Main incomer with all three phases.
- Load is very much in unbalance condition and it is expected as well looking to the major single phase loads. However, we recommend to distribute the AC and other motive load in three phases.
- All other electrical parameters are within limit like current and power factor and harmonics in current and voltage.
- Supply voltage level is little lower and hence need to monitor for further reduction. Need to keep in the range of 415 v AC.
- It seems that due to some past failure experience the fuse is removed from the Y phase which is dangerous and hence recommend to replace the hardware with proper rating of fuse to avoid future accident.

❖ **RECEPTION AND ADMIN AREA DB :**

<i>DESCRIPTION</i>	<i>MAIN</i>			
	R	Y	B	N
VOLT	219	213		
AMP.	1.7	1.4	0	
KW	0.34	0.24		
KVAR	0.08	0.14		
KVA	0.37	0.30		
P.F	0.91	0.84		
%V	2.4	2.8		
%A	14.4	18.6		

Parameters are within limit.

❖ **DEPARTMENT OF HUMANITIES AREA DB :**

<i>DESCRIPTION</i>	<i>MAIN</i>			
	R	Y	B	N
VOLT	222	209	238	
AMP.	1.8	9.9	13.8	
KW	0.38	2.0	3.2	
KVAR	0.07	0.38	0.61	
KVA	0.38	2.0	3.3	
P.F	0.99	0.99	0.97	
%V	2.4	3.0	1.8	
%A	9.0	5.9	7.8	

Parameters are within limit.

❖ **MEETING ROOM G 10 :**

<i>DESCRIPTION</i>	<i>MAIN</i>			
	R	Y	B	N
VOLT	214	240	215	
AMP.	1.6	5.4	4.8	
KW	0.29	1.26	1.0	
KVAR	0.08	0.23	0.21	
KVA	0.35	1.29	1.0	
P.F	0.83	0.97	0.99	
%V	2.9	1.9	2.3	
%A	54.5	14.3	11.5	

Parameters are within limit.

❖ **CLERK ROOM G 8:**

<i>DESCRIPTION</i>	<i>MAIN</i>			
	R	Y	B	N
VOLT	243			
AMP.	1.7	0	0	
KW	0.27			
KVAR	0.10			
KVA	0.37			
P.F	0.72			
%V	1.9			
%A	80.0			

Parameters are within limit except current harmonics.

❖ **COMPUTER LAB :**

<i>DESCRIPTION</i>	<i>MAIN</i>			
	R	Y	B	N
VOLT		203	225	
AMP.	0	14.6	2.3	
KW		2.92	0.41	
KVAR		0.50	0.25	
KVA		2.99	0.50	
P.F		0.97	0.82	
%V		3.4	3.0	
%A		30.6	23.3	

Parameters are within limit.

❖ **PSYCHOLOGY LAB DB :**

<i>DESCRIPTION</i>	<i>MAIN</i>			
	R	Y	B	N
VOLT	225	206	245	
AMP.	10.6	2.6	5.8	
KW	2.38	0.52	1.40	
KVAR	0.15	0.12	0.22	
KVA	2.40	0.54	1.41	
P.F	0.98	0.95	0.98	
%V	2.1	2.8	1.9	
%A	8.1	15.3	6.3	

❖ **VIDHYAVATIKA :**

<i>DESCRIPTION</i>	<i>MAIN</i>			
	R	Y	B	N
VOLT		232		
AMP.	0	5.5	0	
KW		1.22		
KVAR		0.34		
KVA		1.28		
P.F		0.95		
%V		2.0		
%A		13.8		

Parameters are within limit.

❖ **BOREWELL :**

<i>DESCRIPTION</i>	<i>MAIN</i>
VOLT	396
AMP.	23.3
KW	14.89
KVAR	6.18
KVA	16.17
P.F	0.92
%V	1.9
%A	3.8

Parameters are within limit.

Conclusive Remarks


- Generally LED lights have been installed in the institute. We recommend to change normal tube light with LED as per latest requirement. However, we understood that the new building coming and hence implement the energy saving options from installation itself.
- Some of the area of building has very nice concept for Day lights, provisions of adequate windows for Lighting and air changes for energy saving.
- It is recommended to fix solar system in the campus area for energy conservation.
- Install motion sensors in passages and wash rooms and office cabins. This will help to reduce unnecessary power consumption in area and payback is within One year.
- Recommend to use roof top solar system at premise. The normal payback period is with 4 years. We estimated that at least 30 KW system is possible and the investment will be in the range of INR 15,00,000/-. This will help to maintain the electricity bill within saving mode.
- Install pump run hour meters to monitor the running hours and water consumption in new working building.

ANNEXURE SECTIONS

Annexure -1 Photographs of Campus



Annexure -2 Electricity Bill




BS20 / GZ200005 / 05040

Zone Gandhinagar

T.No. 3000929258

Billing mode 30 days

Distribution date 30/03/23



Torrent Power
now on WhatsApp

Services available:

- Bill Copy
- Submit meter reading
- Submit safety concerns
- Bill payments & offers
- Complaint registration
- Manage multiple services

Scan to register
OR sayHi to 6356070070

YOUR DETAILS

CHILDREN UNIVERCITY GANDHINAGAR SECONDARY HIGH SCHOOL,SECTOR-20, GANDHINAGAR.	CATEGORY LTMD 2 Commercial	BILLING MONTH March 2023	LTMD
	SUPPLY TYPE Three Phase	READING DATE 24/03/23	CUSTOMER ID 954666
	SANCTIONED LOAD 99,000 kW	BILL DATE 27/03/23	AVG. POWER FACTOR 100.00
Registered Mobile: *****1915 Registered Email: es****to@cugujarat.ac.in	CONTRACT DEMAND 99,000 kW	BILLING DEMAND 84,500 kW	

YOUR BILL

Thank you for your previous payment of ₹ 50,840.00 on 09/03/23.
Payment received at PLUGPOINT.

₹58,610.00

DUE BY
10/04/23

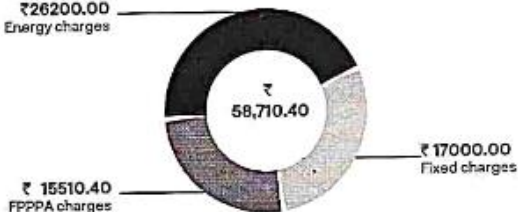
SECURITY DEPOSIT HELD
₹ 1,98,000.00

ADDITIONAL SECURITY DEPOSIT REQUIRED
₹ 0.00

METER DETAILS

Meter No.: 17505645			
	MPKWH	RKVAH	MDKW
Present Reading	35199	1217	12.5
Previous Reading -	32579	1182	0
Multiplier x	2.00	2.00	2.00
Consumption	6240	70	25.0

MAJOR BILL COMPONENTS



You consumed **5240 units** this billing cycle.


SAY NO TO OVERLOADING OF YOUR ELECTRICAL NETWORK
REGULARISE YOUR CONNECTION TODAY.

Overloading the electrical network or misuse of electricity harms individuals and puts communities at risk.

- Avoid using unauthorised load beyond sanctioned load
- Avoid extending power supply beyond the permitted area of use.
- Avoid using electricity for the purpose other than for which the usage of electricity was authorised.

The above acts are considered as unauthorised use of electricity under section 128 of Electricity Act - 2003.
Use of load beyond sanctioned capacity causes overloading of electrical network. This can result in overheating and cause fire accidents. It also reduces the life of electrical assets.

CONSUMPTION TREND (IN UNITS)



PAYMENT OPTIONS

1. PAY USING MOBILE WALLETS 2. PAY WITH CASH / CHEQUE

Annexure -3 Energy Saving Tips

- **Turn Off Your Lights**
- **Unplug your electronics and make it a habit.**
- **Invest In a Programmable Thermostat**
- **Reduce water wastage**
- **Wash cloths & hands Wisely**
- **Recycle your waste**
- **Reduce fuel usage**
- **Take advantage of natural sunlight.**
- **Switch to LED Lightbulbs**
- **Invest in *energy-saving* power strips**
- **Use sensors for lights**
- **Maintain low brightness to reduce energy consumption**

ENERGY AUDIT

