

ENERGY AUDIT REPORT

YEAR:2018-2023

COLLEGE OF APPLIED SCIENCE AYALUR

(managed by IHRD)



PREPARED BY ENERGY AUDIT COMMITTEE

CAS AYALUR

ENERGY AUDIT REPORT, 2018-2023

1. Name of the College : COLLEGE OF APPLIED SCIENCE AYALUR
2. Campus area : 1656sq. mts
3. Build up area :872sq. mts
4. Year of establishment :2012

Brief History: College of Applied Science Ayalur, established in 2012, is affiliated to the University of Calicut and is managed by the Institute for Human Resources Development, a Government of Kerala undertaking popularly known as the IHRD in the Kerala higher education sector. The college has 3 Degree Programmes in Computer Science , Electronics and B.Com with Computer Application The College is involved in quality manpower development and training in the thrust areas of IT, Commerce, Electronics and emerging disciplines for the students of Palakkad District.

ENERGY AUDITING:

Energy auditing is a routine procedure of monitoring power consumption of the institute performed on annual basis.As per the Energy Conservation Act, 2021, Energy Audit is defined as the verification, monitoring and analysis of use of energy including submission of technical report containing recommendations for improving energy efficiency with cost benefit analysis and an action plan to reduce energy consumption. For the successful implementation of an energy efficient campus, Nowgoing College has focused a lot on the enhancement and awareness among the students, teachers, and other members of the institution on Energy alternatives such as solar energy. As the issue of saving our environment has attained a global prominence in the contemporary time, Nowgoing College has also considered it extremely essential to work sincerely in the matter of environment consciousnessparallel withgreen energy initiatives. In it strive for a clean, green and energy efficient campus, every possible step is taken by every member or cell of the institution to create a sense of responsibility among the

students pertinent to the sustenance of healthy environment in the form of various programs and project works.

Energy conservation: With the rising awareness on the necessity to save energy, the college has resorted to ways and means for saving electricity. Efforts are made to shift to solar energy phase wise. The classrooms and laboratories are in such manner that they allow sufficient light and air during class hours and as a result, much electricity is saved. In its drive for saving energy, Nowgoing College has taken steps to replace all existing bulbs and lights with LED lights phase wise. In fact, all newly constructed buildings have been equipped with LED lights and 5-star rating ceiling fans with a view to reducing the consumption of energy.

ENERGY AUDITING COMMITTEE :

College of Applied Science Ayalur, formed an Energy Auditing committee with teaching and non-teaching staffs and students to complete internal audit and to prepare graphs.

Members : Smt. Sreela S Nair (convener)

Ajith G

Sajina J

Sheeja T R

Students: Ashamol .S(1st B. com)

Amal Krishna (1st B. Com)

Aswan P (2ndCS)

Lekha M (2ndCS)

Aneesha A (3rdElectronics)

Tilvin Jordy (3rd Electronics)

Mohammed Aslam (3rdB. com)

Abdul Muneer (3rd CS)

Sneha K H (3rdCS)

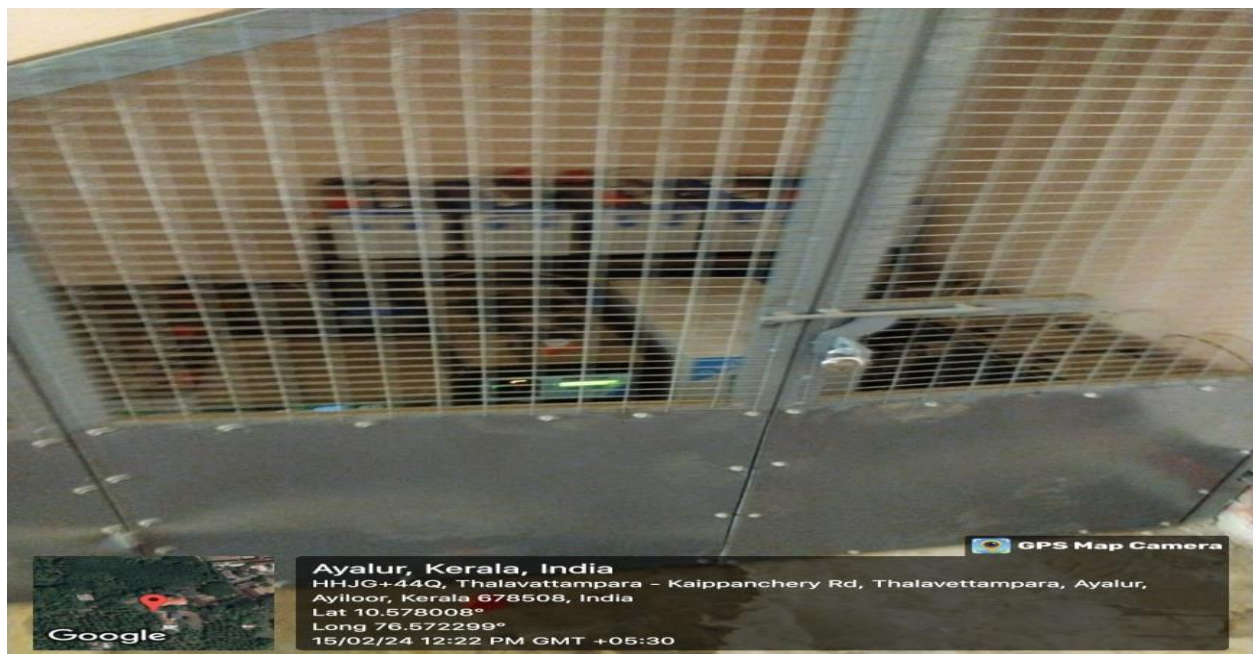
Harishekar K H(1st CS)

Aiswarya (1stCS)

Ameya Thomas (2nd B. Com)

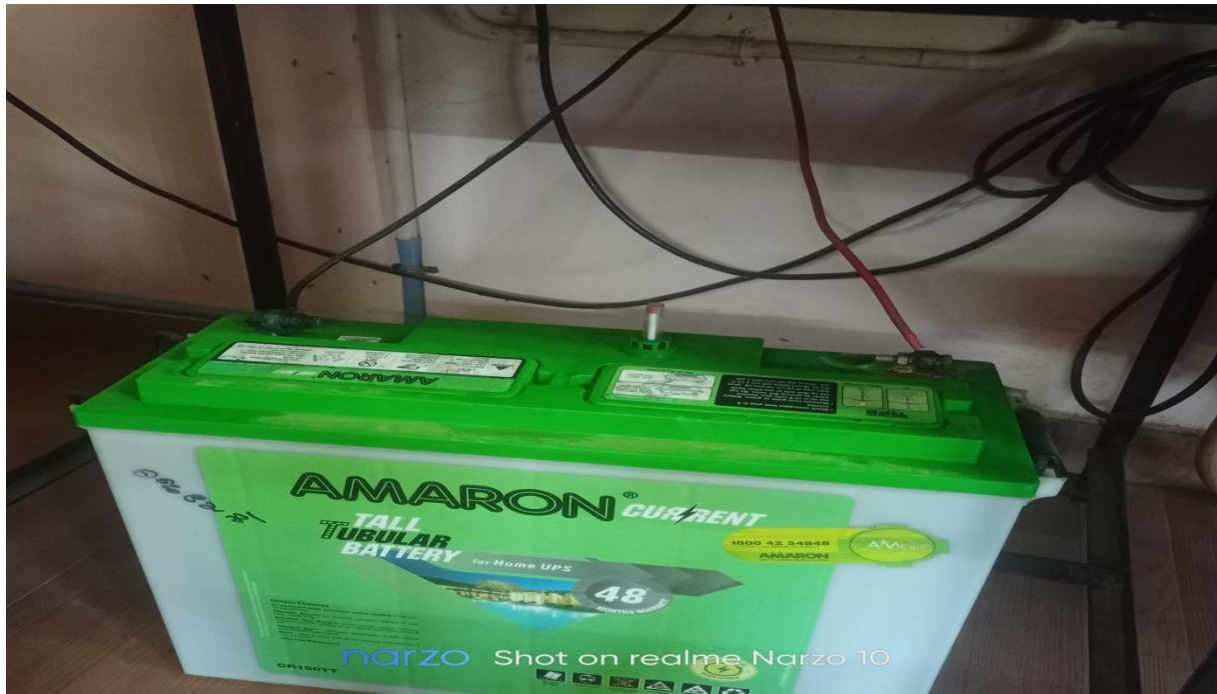
Mohammed Shafeek (2nd B.Com)

Athulya S (3rd B. Com)



Use of renewable energy:

The college has adopted means to switch over from conventional source of electricity to renewable resources. Efforts for Carbon neutrality: With a larger green coverage, the college has always adopted all possible means to create a carbon neutral environment. Nowgoing College makes use of a device to measure the quantity of carbon dioxide and carbon monoxide. It facilitates to monitor the carbon concentration in air and to take necessary measures to control it.

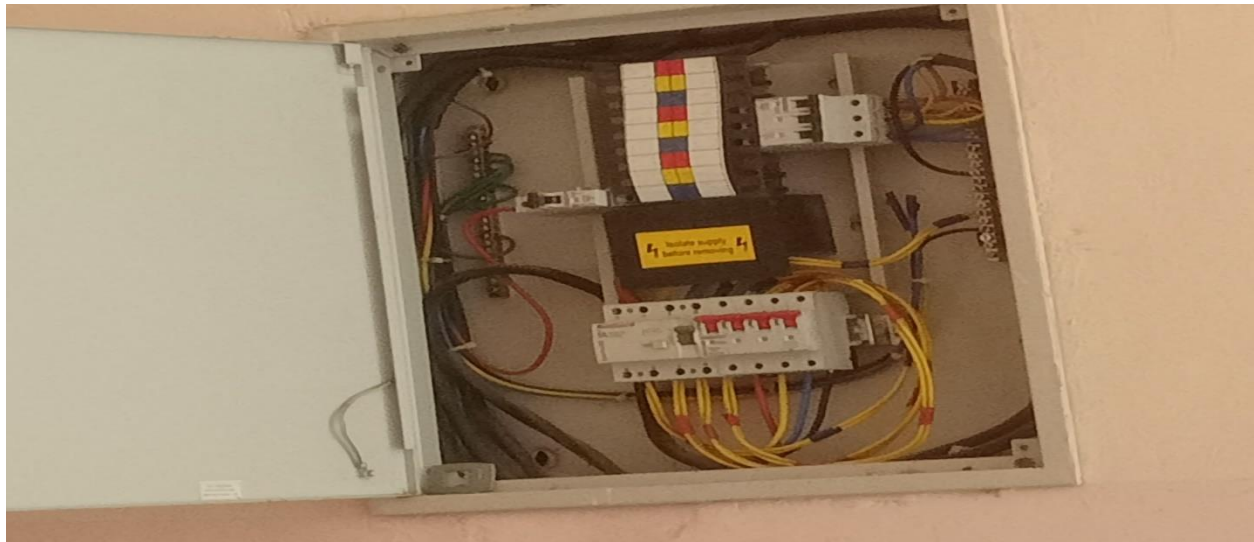


The Green Earth Society has been formed to maintain carbon-neutrality. The collective effort of Green Earth Society, Bio tech Hub and the Students 'Union, in organizing seminars, talks and workshops, has created a platform for generating awareness among the members of the college and sustaining the efforts for an ecofriendly campus. The college authority has adopted measures to check carbon emission in the campus by banning the burning of wastepaper, dry leaves, and other such waste products. Emission certificates from Pollution Control Board, Assam of cars and vehicles belonging to members of the college are also verified for the purpose. E-waste management: E-wastes such as damaged computer parts, batteries, electronic items, electrical appliances, empty toner containers, are disposed as scrap and given away to agencies and the municipal corporation, that recycle such products.



Energy Consumption Data: The energy consumed by Nowgoing College falls under HT IV Bulk Supply (Government Education) Category. The provided phase is LT-6A/THREE and connected load is 15KW. The energy consumption of the whole campus is facilitated through a Transformer having rating of 250 KVA.





The electricity bill for the academic years from 2018-2023 is given as follows

Consumer number : 116513301803

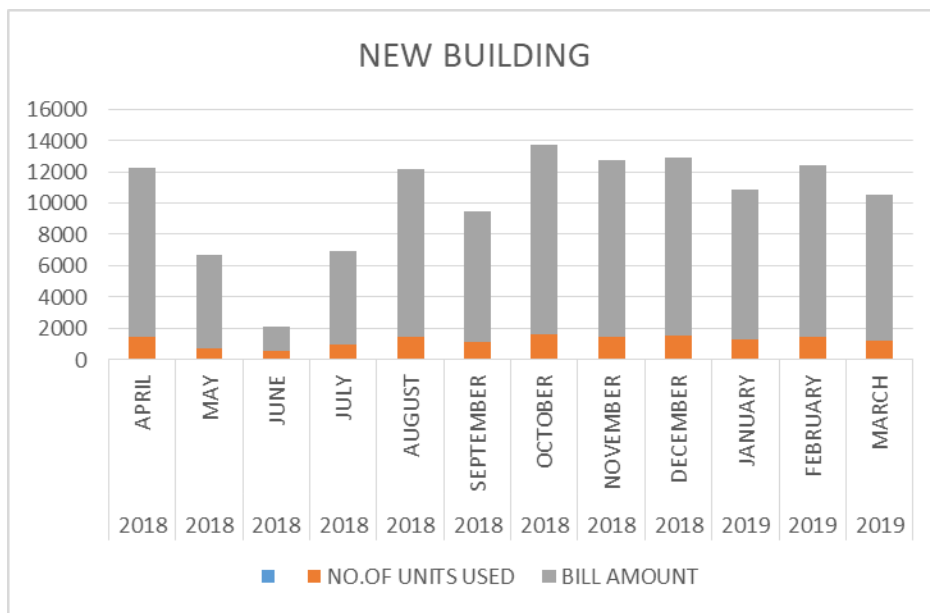
Place : COLLEGE OF APPLIED SCIENCE AYALUR

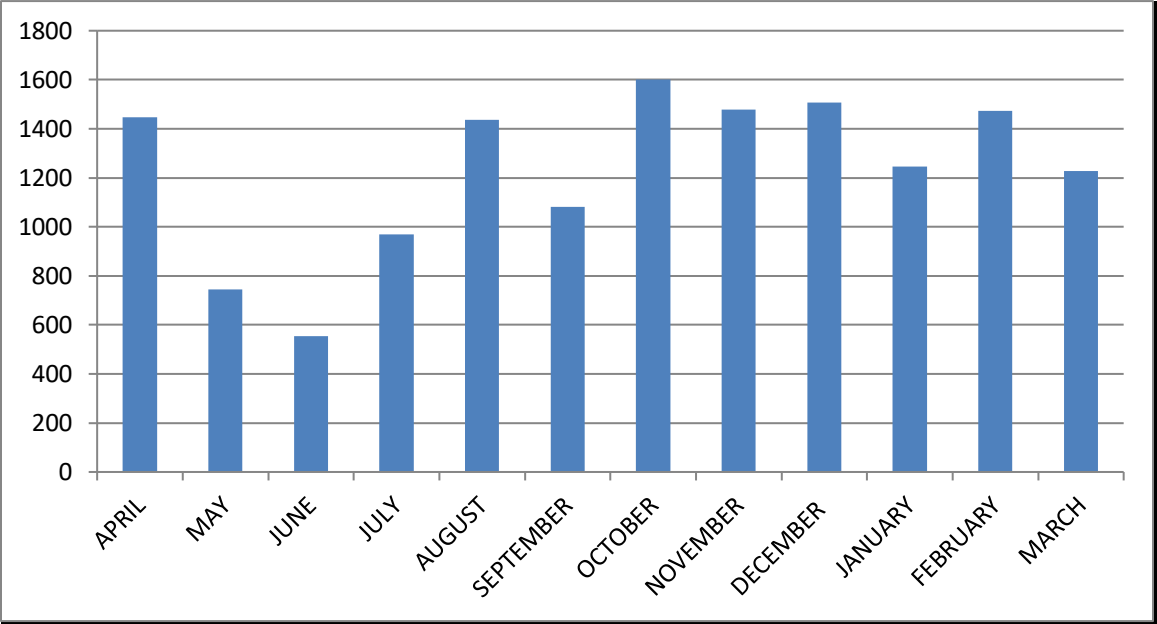
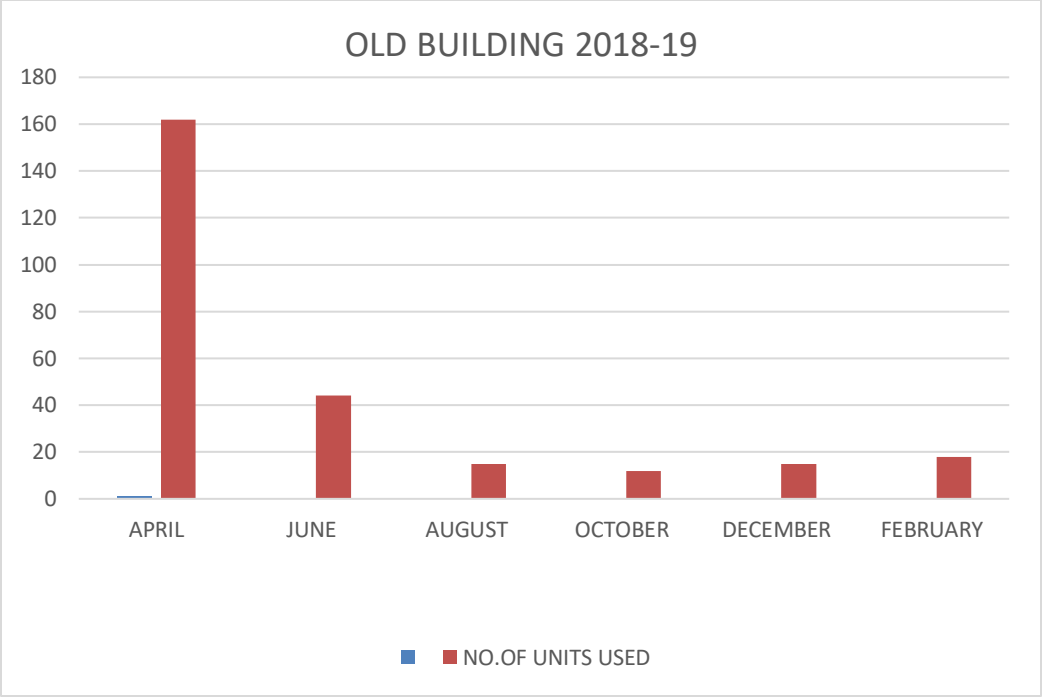
2018-2019

COLLEGE OF APPLIED SCIENCE , AYALUR				
ELECTRICITY BILL				
YEAR	2018-19			
YEAR	MONTH	CONSUMER NUMBER	NO.OF UNITS USED	BILL AMOUNT
2018	APRIL	1165133018030	1446	10786
2018	MAY	1165133018030	744	5921
2018	JUNE	1165133018030	554	1543
2018	JULY	1165133018030	969	5940
2018	AUGUST	1165133018030	1437	10727
2018	SEPTEMBER	1165133018030	1082	8380
2018	OCTOBER	1165133018030	1602	12110
2018	NOVEMBER	1165133018030	1479	11240
2018	DECEMBER	1165133018030	1506	11431
2019	JANUARY	1165133018030	1246	9590
2019	FEBRUARY	1165133018030	1474	10983
2019	MARCH	1165133018030	1227	9271

OLD BUILDING 2018-19 1165136015249			
COLLEGE OF APPLIED SCIENCE , AYALUR			
ELECTRICITY BILL			
YEAR	2018-19		
YEAR	MONTH	NO.OF UNITS USED	BILL AMOUNT
2018	APRIL	162	1511
2018	JUNE	44	243
2018	AUGUST	15	1450
2018	OCTOBER	12	1286
2018	DECEMBER	15	1491
2019	FEBRUARY	18	1549

GRAPHICAL REPRESENTATION OF 2018-2019

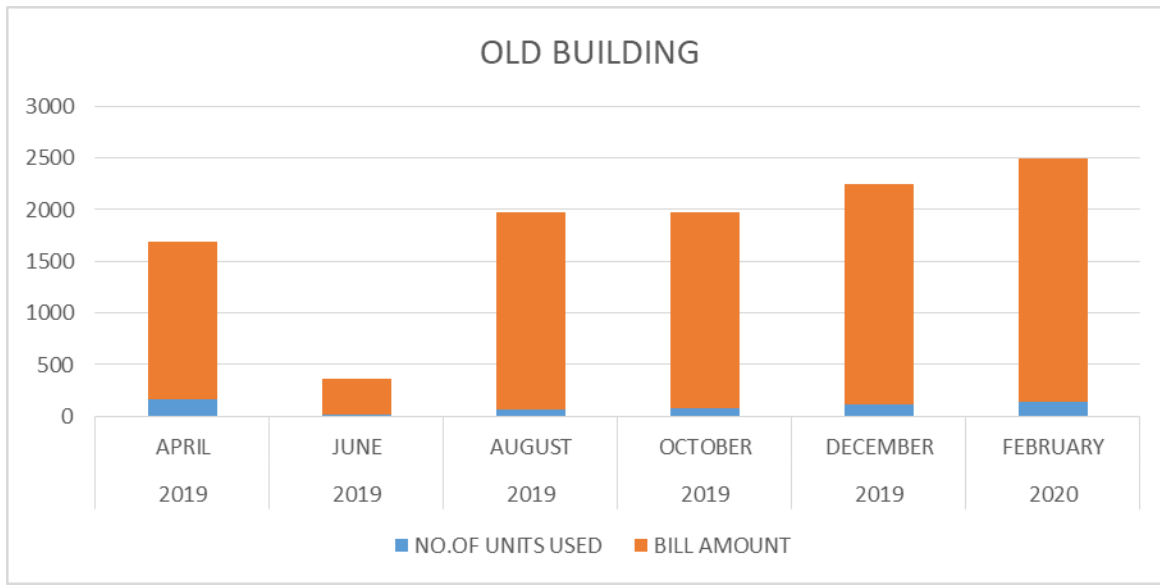
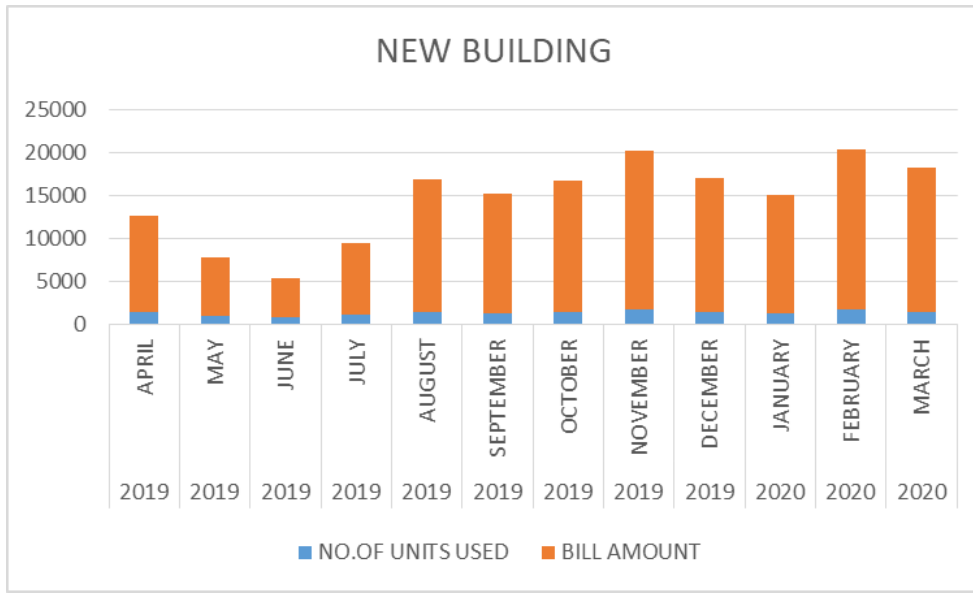


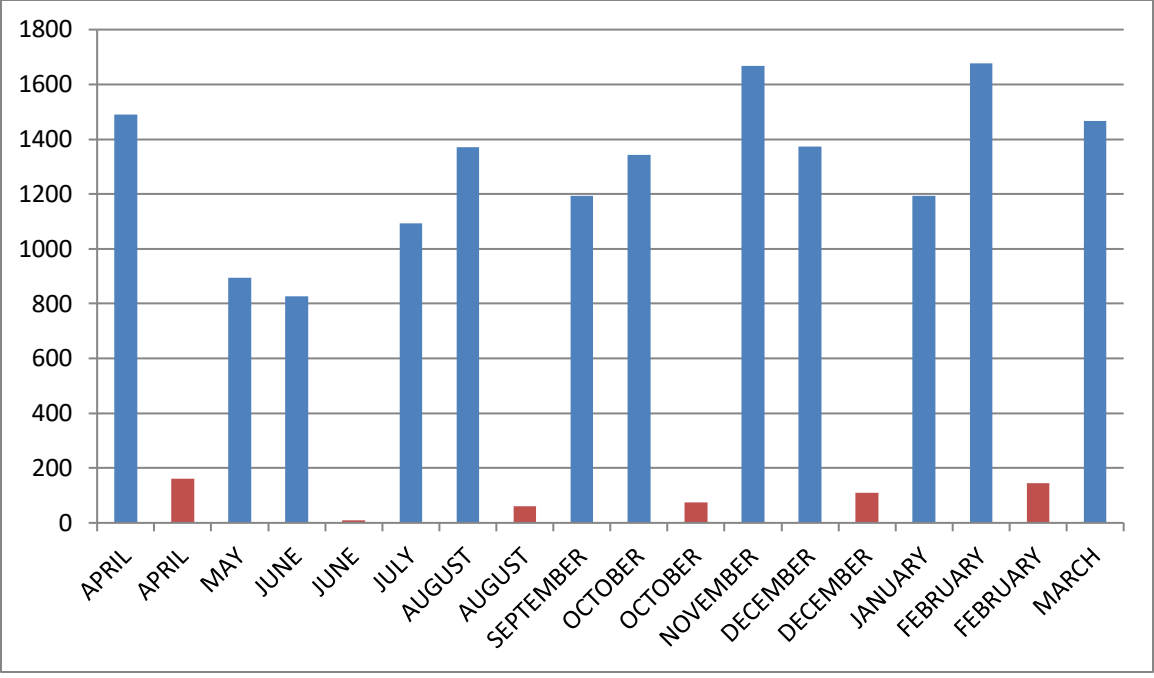


2019-2020

YEAR	2019-20			
YEAR	MONTH	CONSUMER NUMBER	NO.OF UNITS USED	BILL AMOUNT
2019	APRIL	1165133018030	1489	11087
2019	APRIL	1165136015249	162	1524
2019	MAY	1165133018030	895	6971
2019	JUNE	1165133018030	827	4606
2019	JUNE	1165136015249	10	355
2019	JULY	1165133018030	1092	8336
2019	AUGUST	1165133018030	1370	15554
2019	AUGUST	1165136015249	61	1918
2019	SEPTEMBER	1165133018030	1193	13991
2019	OCTOBER	1165133018030	1343	15414
2019	OCTOBER	1165136015249	74	1906
2019	NOVEMBER	1165133018030	1667	18622
2019	DECEMBER	1165133018030	1374	15721
2019	DECEMBER	1165136015249	110	2138
2020	JANUARY	1165133018030	1194	13939
2020	FEBRUARY	1165133018030	1676	18711
2020	FEBRUARY	1165136015249	144	2355
2020	MARCH	1165133018030	1467	16735

GRAPHICAL REPRESENTATION OF 2019-2020

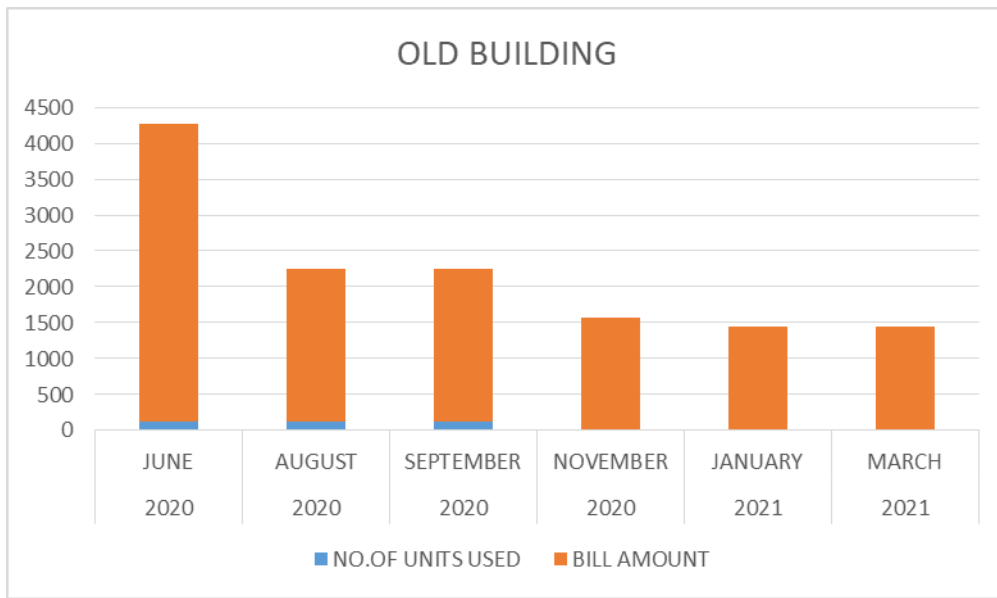
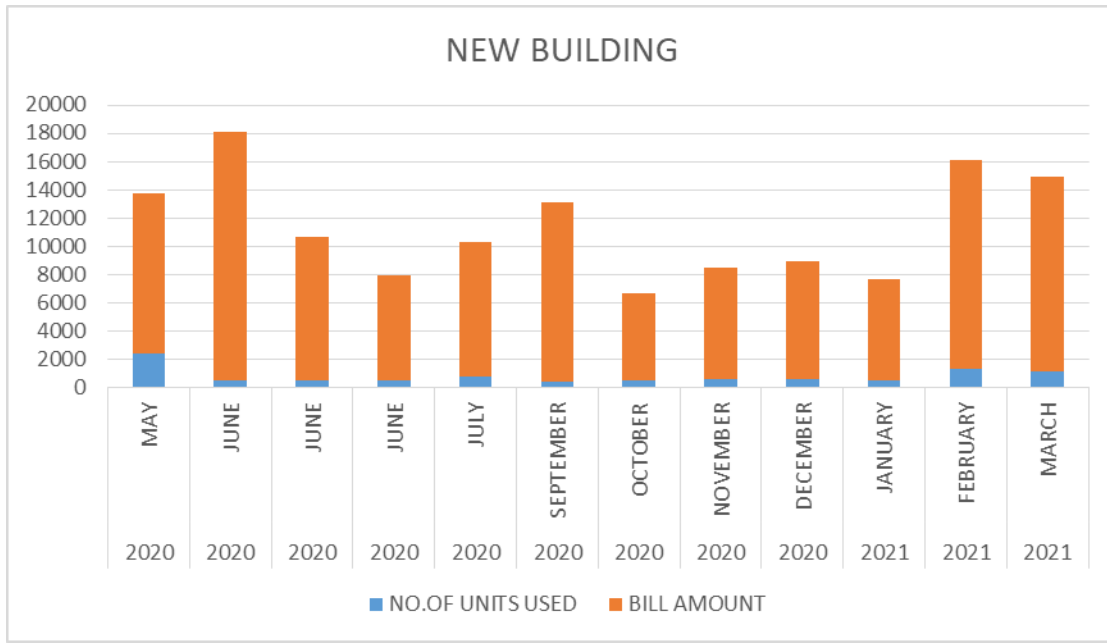


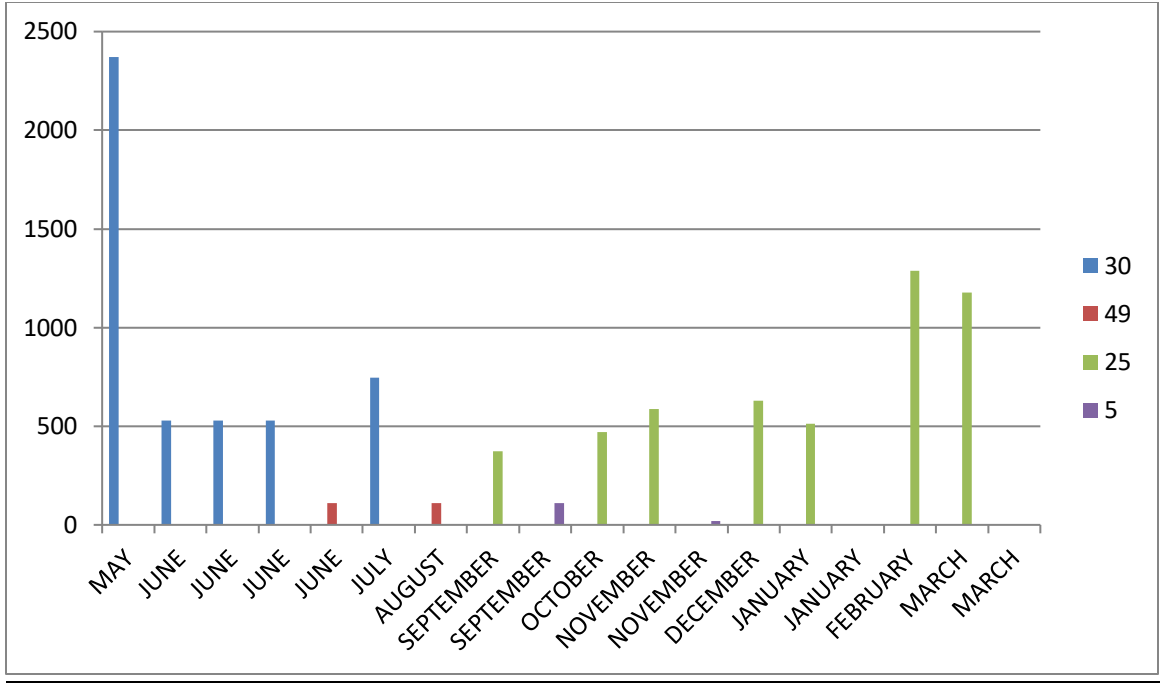


2020-2021

YEAR	2020-21			
YEAR	MONTH	CONSUMER NUMBER	NO.OF UNITS USED	BILL AMOUNT
2020	MAY	1165133018030	2370	11358
2020	JUNE	1165133018030	530	17584
2020	JUNE	1165133018030	530	10160
2020	JUNE	1165133018030	530	7417
2020	JUNE	1165136015249	110	4163
2020	JULY	1165133018030	745	9560
2020	AUGUST	1165136015249	110	2142
2020	SEPTEMBER	1168229009125	374	12752
2020	SEPTEMBER	1168223009105	110	2142
2020	OCTOBER	1168229009125	469	6201
2020	NOVEMBER	1168229009125	588	7940
2020	NOVEMBER	1168223009105	18	1551
2020	DECEMBER	1168229009125	629	8345
2021	JANUARY	1168229009125	513	7197
2021	JANUARY	1168223009105	2	1449
2021	FEBRUARY	1168229009125	1288	14870
2021	MARCH	1168229009125	1179	13790
2021	MARCH	1168223009105	0	1436

GRAPHICAL REPRESENTATION OF 2020-2021

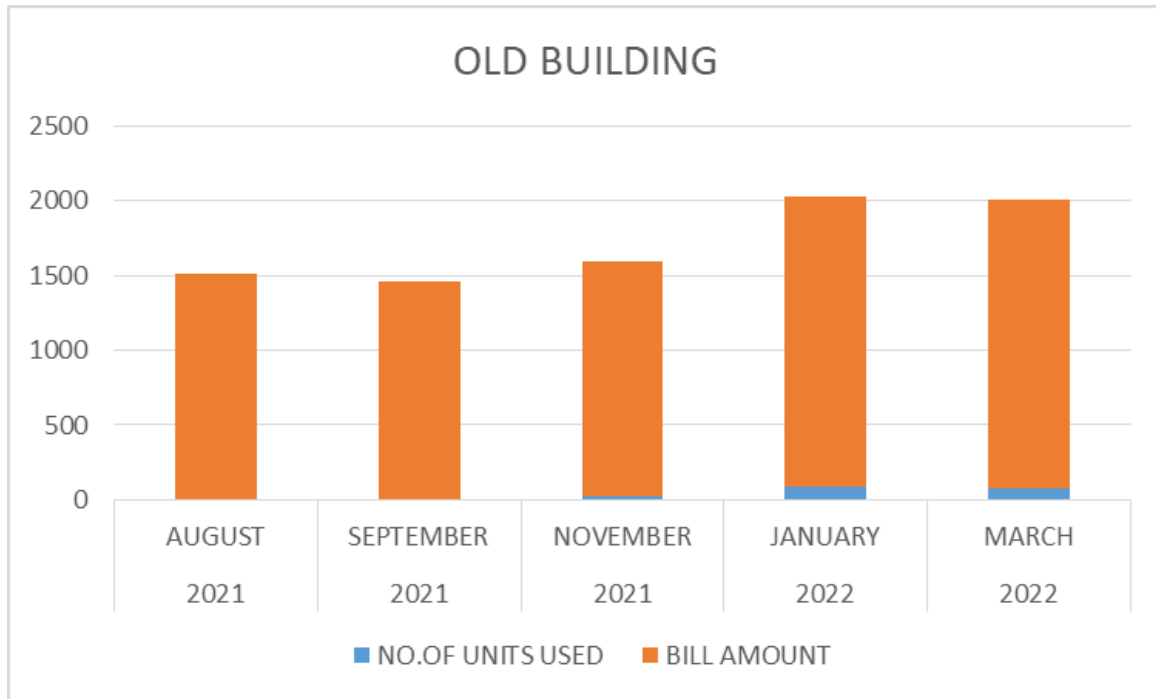
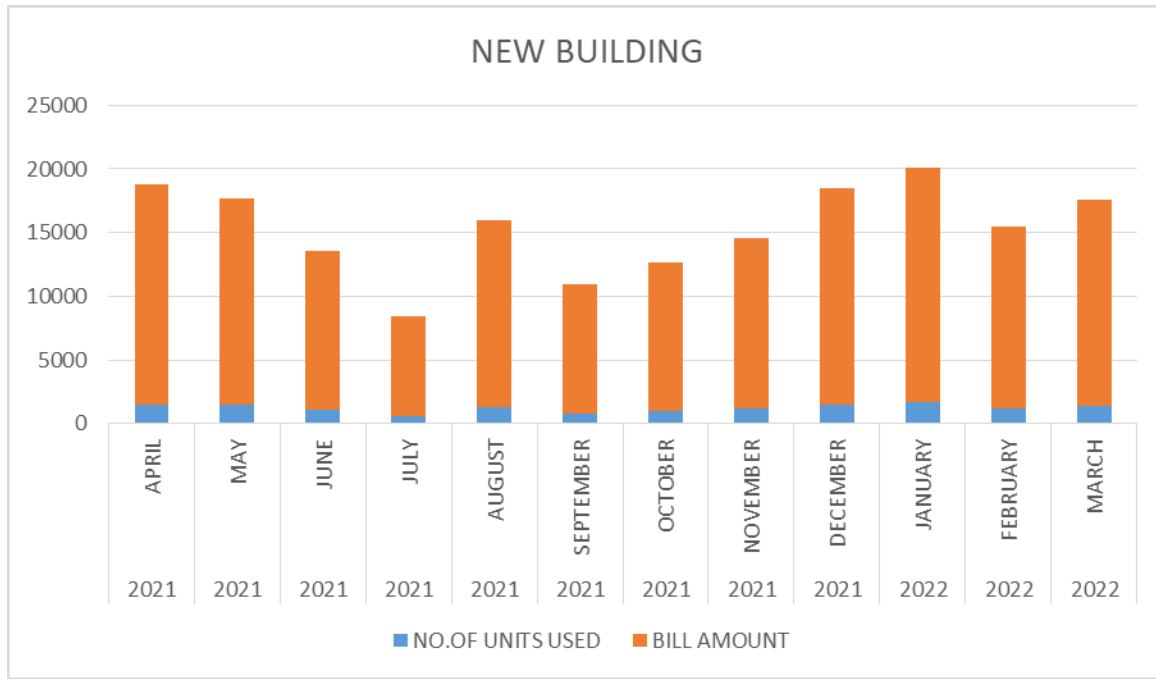


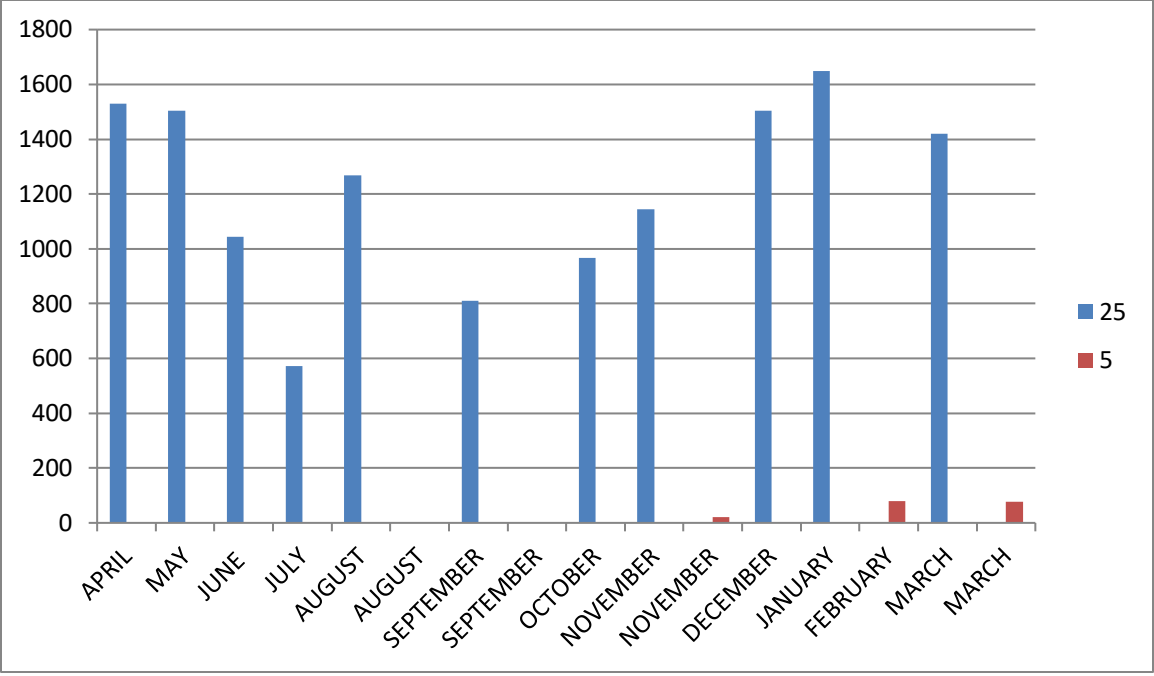


2021-2022

YEAR	2021-22			
YEAR	MONTH	CONSUMER NUMBER	NO.OF UNITS USED	BILL AMOUNT
2021	APRIL	1168229009125	1529	17269
2021	MAY	1168229009125	1504	16156
2021	JUNE	1168229009125	1043	12519
2021	JULY	1168229009125	573	7832
2021	AUGUST	1168229009125	1267	14661
2021	AUGUST	1168223009105	3	1512
2021	SEPTEMBER	1168229009125	811	10147
2021	SEPTEMBER	1168223009105	2	1457
2021	OCTOBER	1168229009125	968	11708
2021	NOVEMBER	1168229009125	1145	13453
2021	NOVEMBER	1168223009105	22	1576
2021	DECEMBER	1168229009125	1505	17017
2022	JANUARY	1168229009125	1649	18443
2022	JANUARY	1168223009105	80	1946
2022	FEBRUARY	1168229009125	1223	14225
2022	MARCH	1168229009125	1419	16166
2022	MARCH	1168223009105	77	1927

GRAPHICAL REPRESENTATION OF 2021-2022

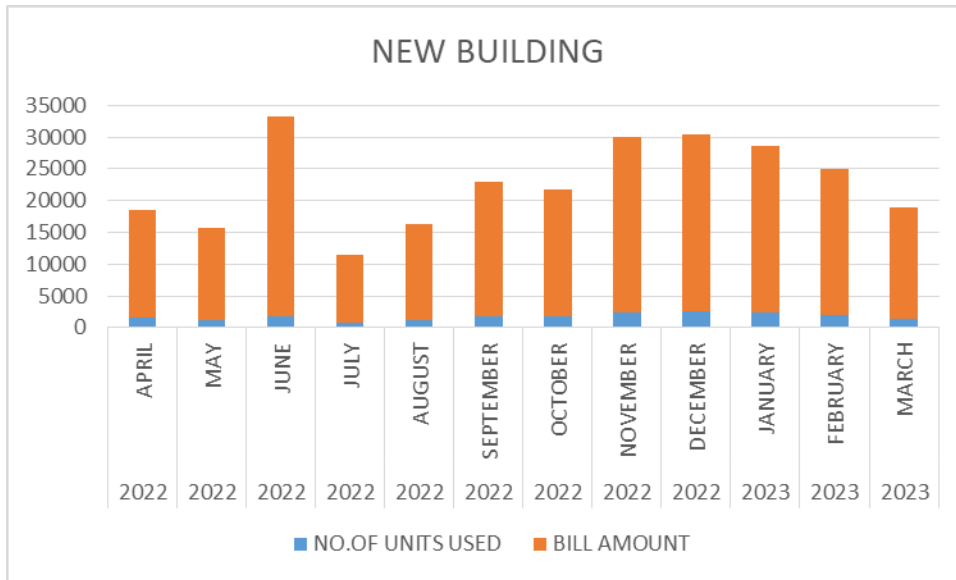
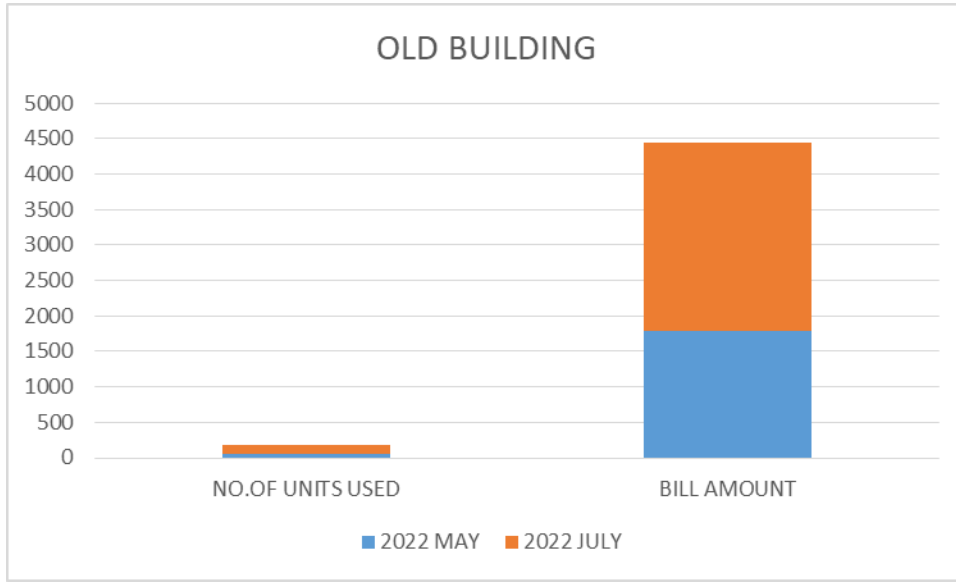




2022-2023

COLLEGE OF APPLIED SCIENCE , AYALUR				
ELECTRICITY BILL				
YEAR	2022-23			
YEAR	MONTH	CONSUMER NUMBER	NO.OF UNITS USED	BILL AMOUNT
2022	APRIL	1168229009125	1507	17037
2022	MAY	1168229009125	1248	14473
2022	MAY	1168223009105	56	1793
2022	JUNE	1168229009125	1687	31527
2022	JULY	1168229009125	848	10650
2022	JULY	1168223009105	118	2660
2022	AUGUST	1168229009125	1221	14991
2022	SEPTEMBER	1168229009125	1824	21127
2022	OCTOBER	1168229009125	1715	20018
2022	NOVEMBER	1168229009125	2453	27527
2022	DECEMBER	1168229009125	2488	27883
2023	JANUARY	1168229009125	2333	26306
2023	FEBRUARY	1168229009125	2006	22979
2023	MARCH	1168229009125	1447	17421

GRAPHICAL REPRESENTATION OF 2022-2023



Mainly energy is used for the following purposes:

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