

WMO Arts and Science College, Muttil ENERGY AUDIT (2020-21)

The energy audit is an important process because it helps to identify energy-saving opportunities and improve the energy efficiency of buildings and equipment. It helps to identify energy-saving opportunities that significantly reduce the energy costs of the college. Improving energy efficiency can help reduce greenhouse gas emissions and other harmful pollutants contributing to climate change. Energy audits can identify problems with equipment and systems that may be causing energy waste. By fixing these problems, colleges can improve the performance of the equipment and extend its lifespan. In summary, energy audits are important because they help to identify energy-saving opportunities, reduce costs and improve environmental performance.

1. Basic information.

College is situated in a land of 15 acres, with 13 buildings with a total plinth area of 3948 square meter. There are 12 electric connections in the campus and are listed below.

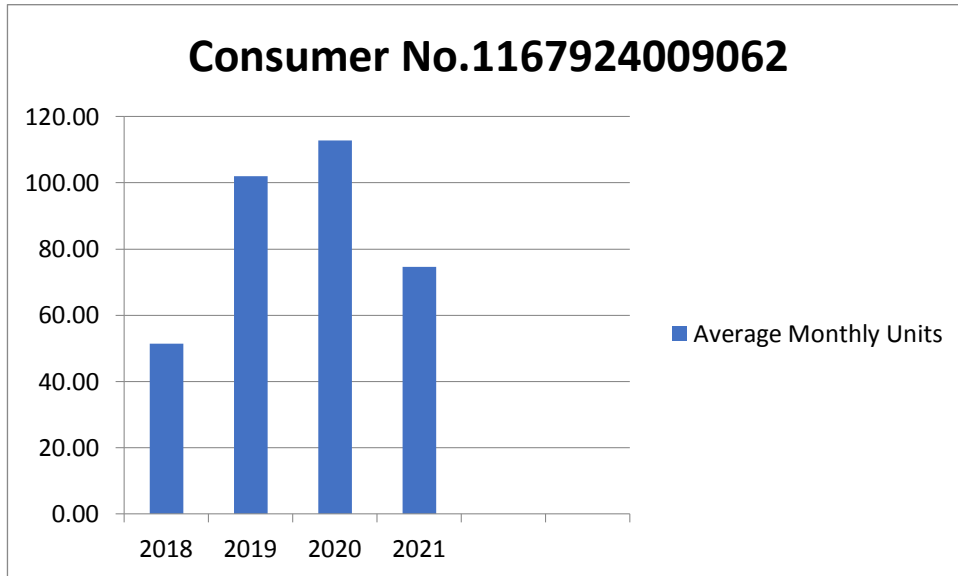
Sl no	Consumer number	Total connected Load
1	1167925010962	1 KW
2	1167925010669	21 KW
3	167923008725	13 KW
4	1167929007986	16 KW
5	1167927008037	12 KW
6	1167926004470	1 KW
7	1167929010753	8 KW
8	11679294009062	1 KW
9	1167920004471	1 KW
10	1167925008036	2 KW
11	1167927004468	4 KW
12	1167924004469	1 KW

2. Methodology:

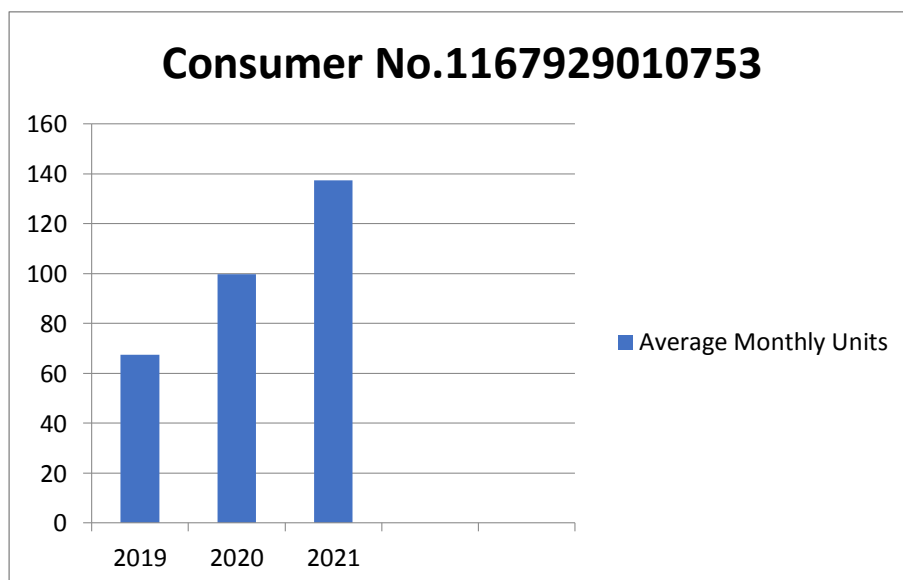
In this study, we have compared the energy consumption in the previous years with that of the current year in each consumer number and studied the variations and also studied the factors affecting these variations.

- Results: This section presents the findings of the energy audit, including an analysis of energy consumption, energy costs, and potential energy savings opportunities.

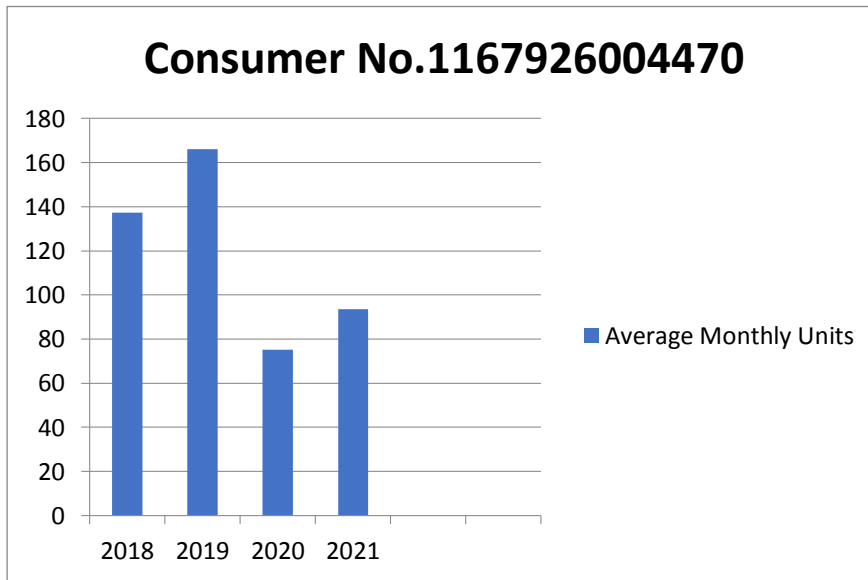
Consumer No.1167924009062				
Year	2018	2019	2020	2021
Average Monthly Units	51.33	102	112.75	74.67



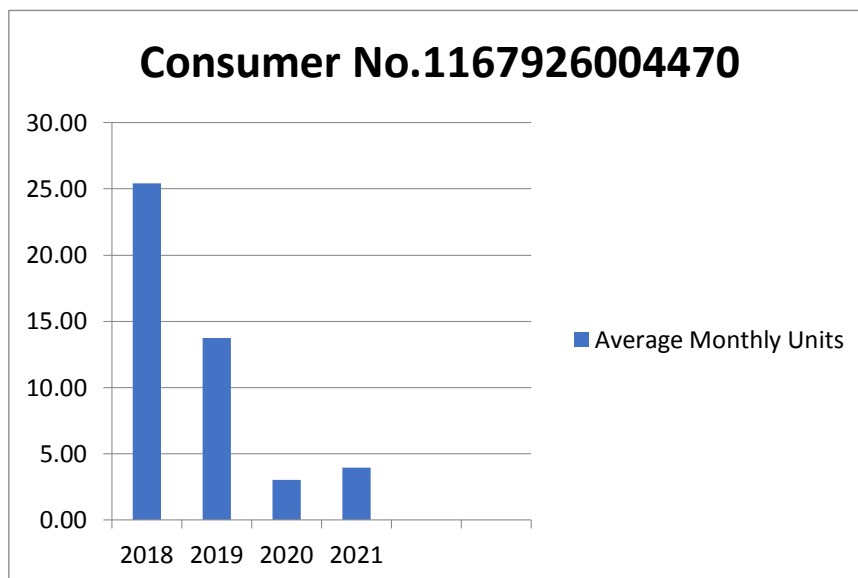
Consumer No.1167929010753			
Year	2019	2020	2021
Average Monthly Units	67.5	99.83	137.5



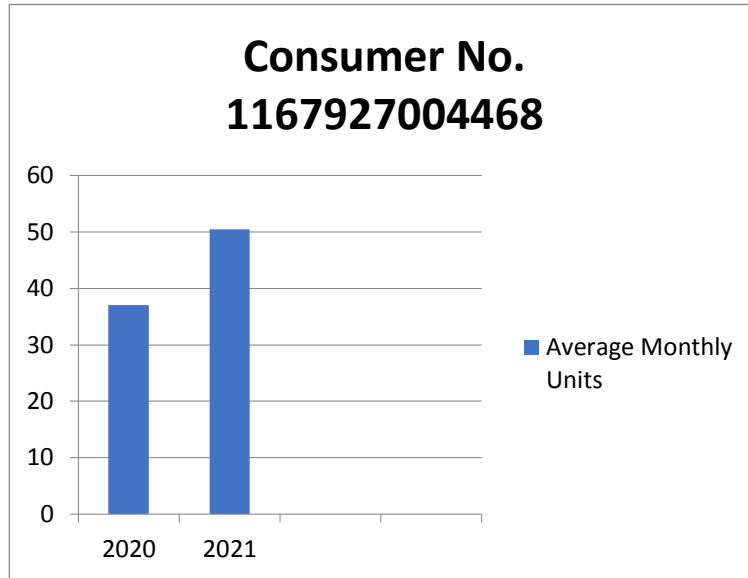
Consumer No.1167926004470				
Year	2018	2019	2020	2021
Average Monthly Units	137.25	166.1667	75.25	93.41667



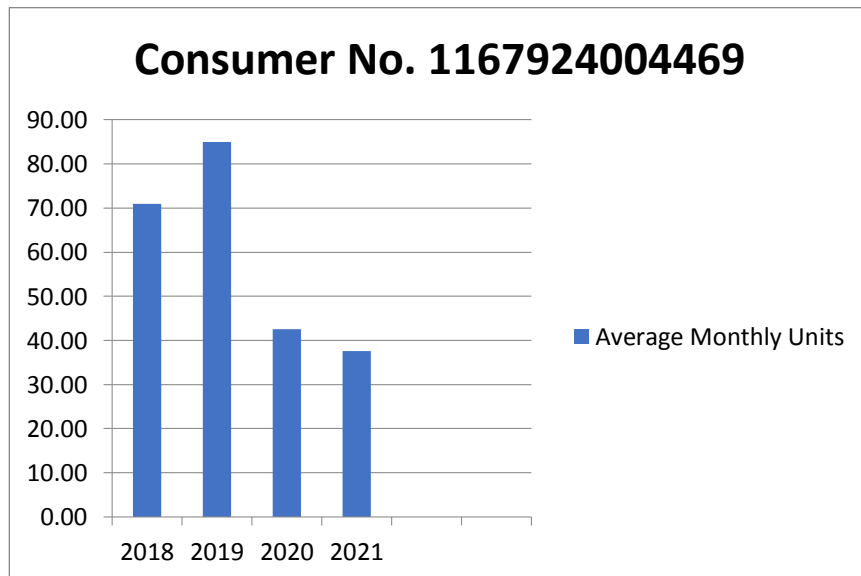
Consumer No.1167926004470				
Year	2018	2019	2020	2021
Average Monthly Units	25.42	13.75	3	3.92



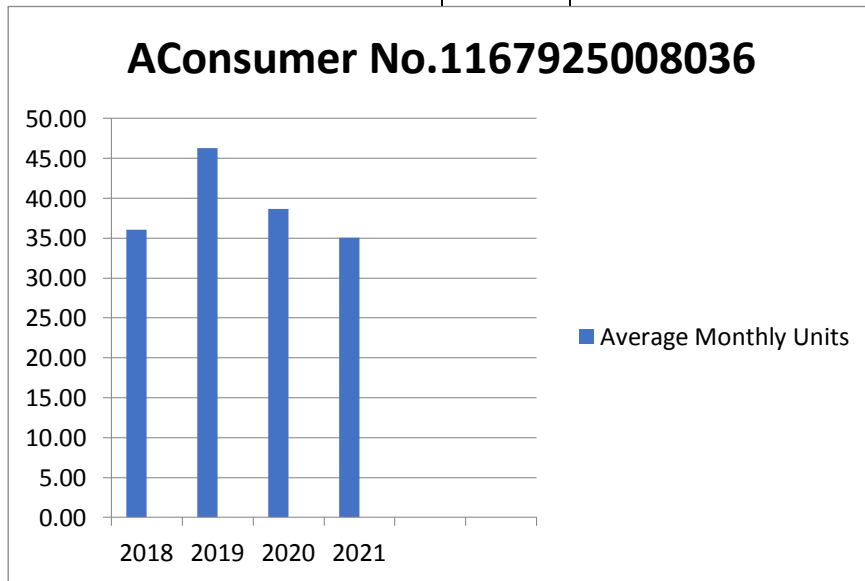
Consumer No. 1167927004468		
Year	2020	2021
Average Monthly Units	37	50.5



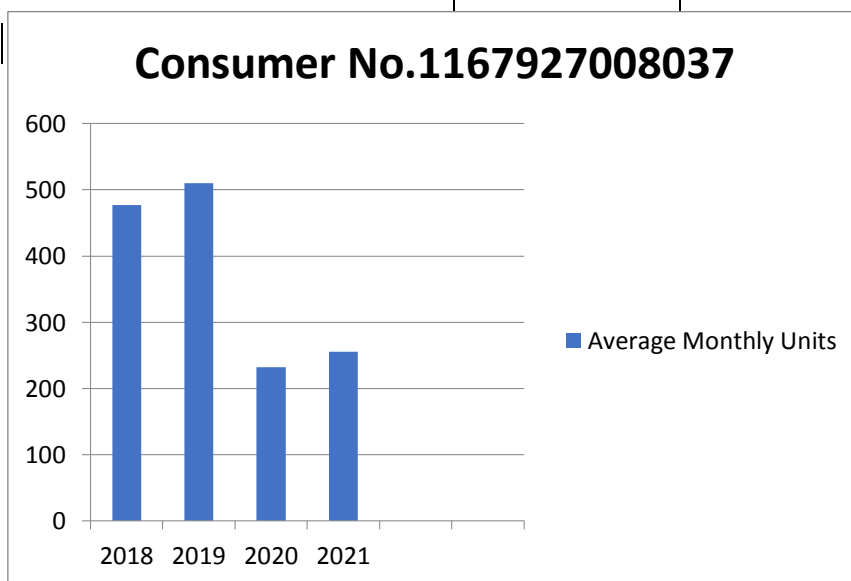
Consumer No. 1167924004469				
Year	2018	2019	2020	2021
Average Monthly Units	70.92	84.92	42.5	37.58



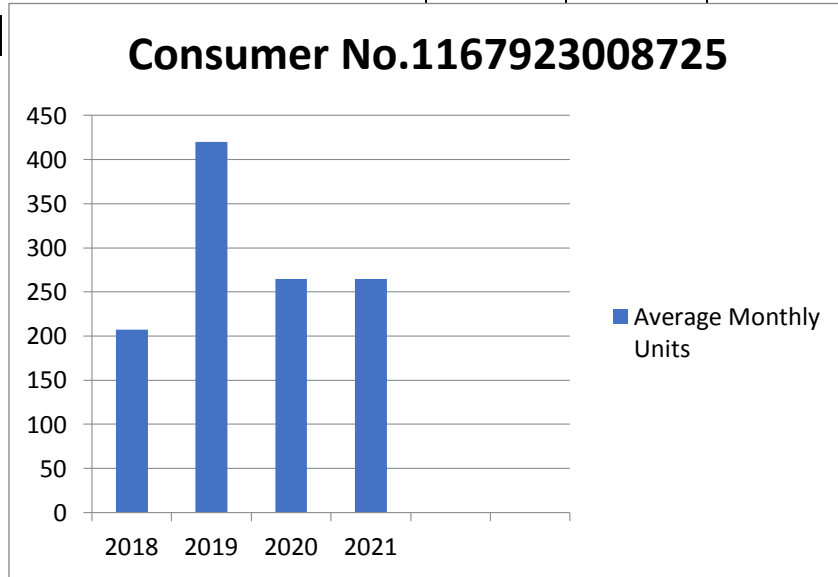
Consumer No.1167925008036				
Year	2018	2019	2020	2021
Average Monthly Units	36.08	46.25	38.67	35.08



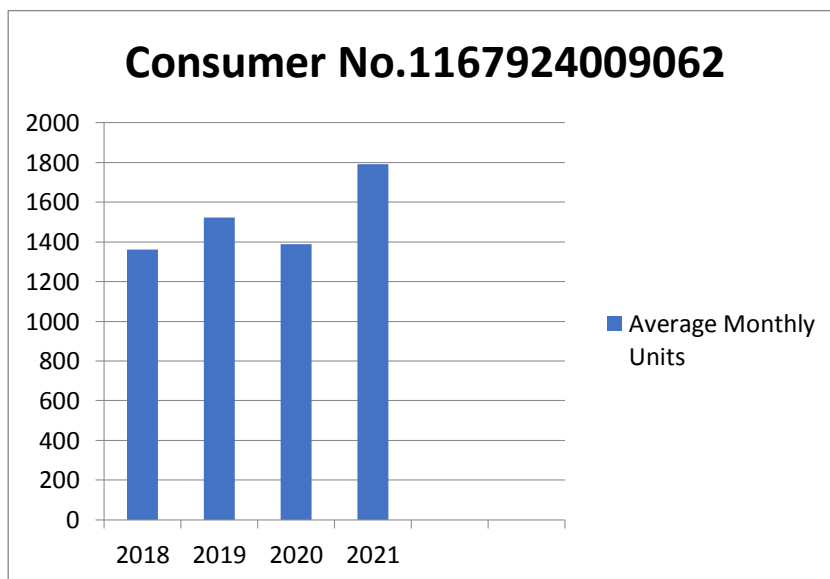
Consumer No.1167927008037				
Year	2018	2019	2020	2021
Average Monthly Units	476.75	509.92	232.25	255.17



Consumer No.1167923008725				
Year	2018	2019	2020	2021
Average Monthly Units	207.4167	420.1667	264.6667	264.5833



Consumer No.1167924009062				
Year	2018	2019	2020	2021
Average Monthly Units	1362.42	1521.92	1389.58	1792.33



Consumer No.1167929010669			
Year	2019	2020	2021
Average Monthly Units	614.2857	290.8333	543.8333

