

Preliminary Walkthrough Energy Audit Report

For

M/s St. Teresa's institute of education

Prepared By

DSM Dept.

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CHAPTER - 1

1. EXECUTIVE SUMMARY

Consumer Details	
Consumer	St. teresa's institute of education
Location	ST TERESAS CONVENT ,S V ROAD SANTACRUZ W Mumbai 400054
Account No.	100852444 /100852407 / 100852431
Tariff Category	LT – I (B)

2. ACKNOWLEDGEMENT

DSM team extends special thanks for the courtesy extended to the visiting energy audit team during walkthrough energy audit study.

3. ENERGY: SOURCES & UTILISATION

The below table indicates the summary of energy consumption for the reference period of April 2020 to April 2021

Table No.1

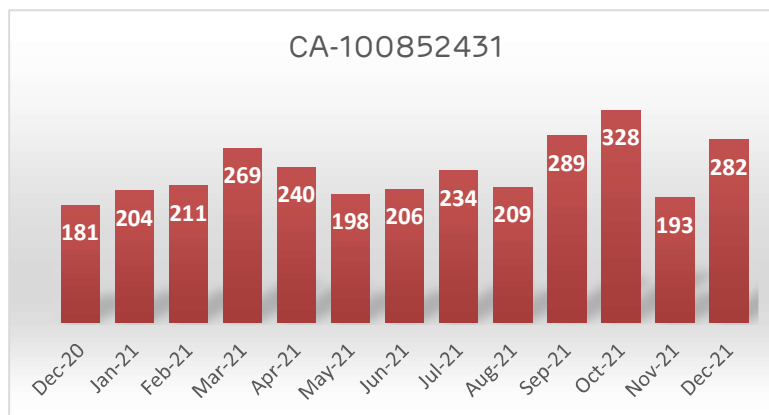
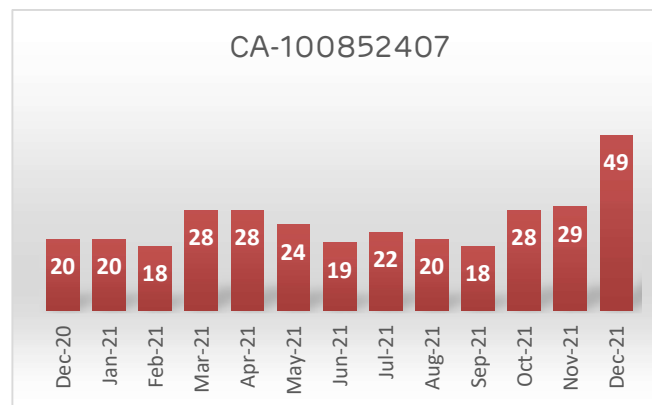
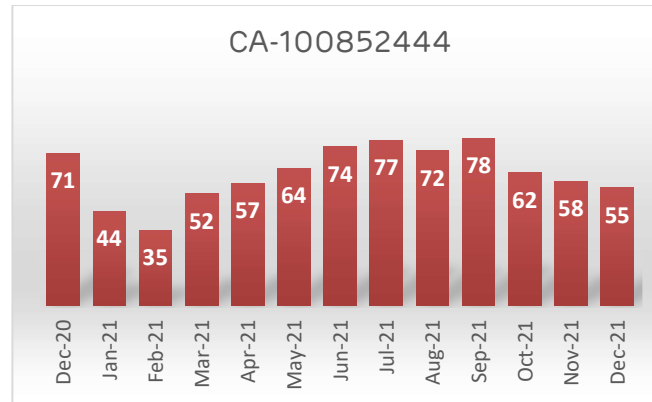
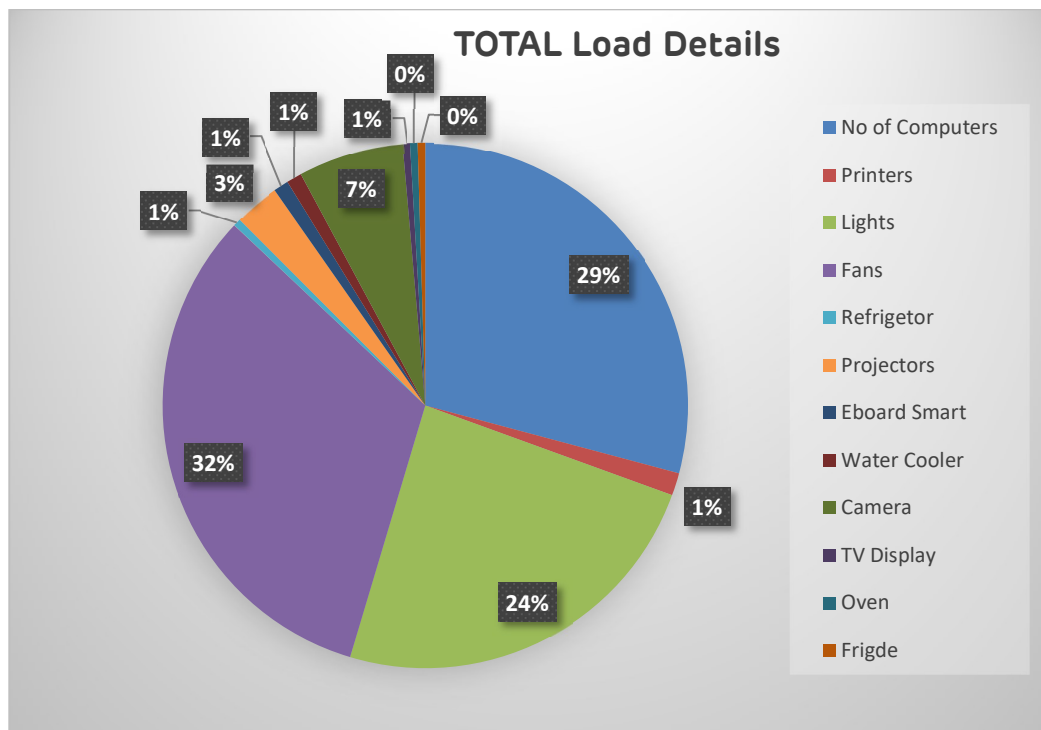
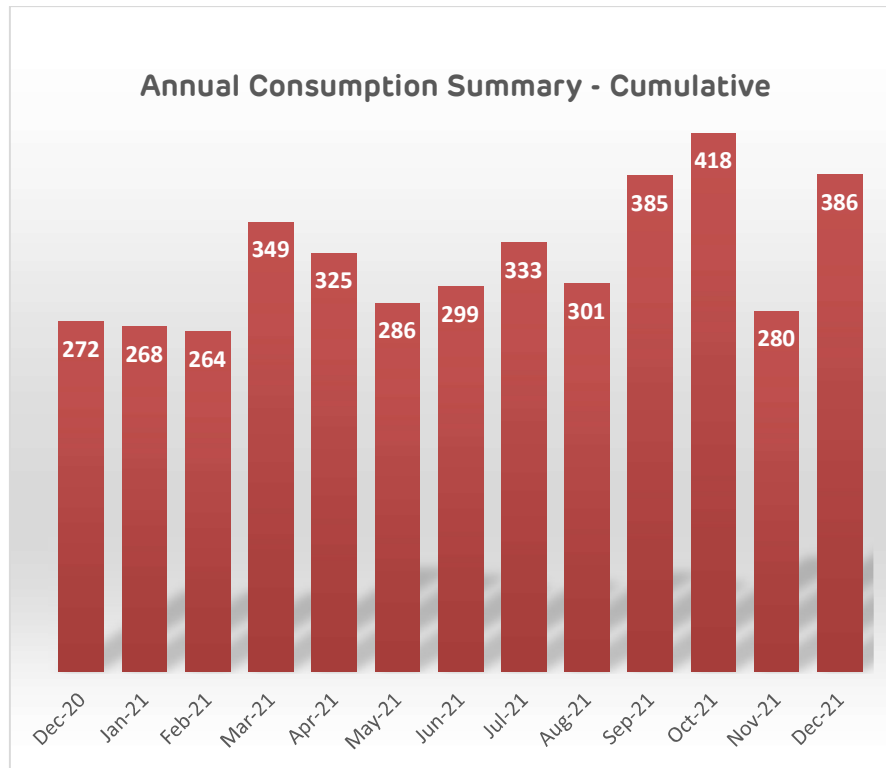


Table No. 2 Summary Monthly Energy Consumption (Cumulative)



4. ENERGY SAVING RECOMMENDATION

Sr. No	Energy Saving Area	Annual Saving		Investment	Return on Investment
		KWH*	Rs.**	Rs.***	Months
1	Replacing old inefficient ceiling FAN of 80 watt with 5 STAR rated BLDC FAN of 28 watt	2620.8	16930	13000	9 months
2	Replacement of T8 / T12 Tube light with energy efficient LED Tube light of 18 Watt	15724.8	101582	95550	11 months
TOTAL		18345	1.19 lakhs	1.09 lakhs	

* Based on the working hours indicated by users during (30 days per month)

** Based on assumption of average tariff of Rs 6.46

*** Based on MRP of energy efficient appliances offered by manufacturer

Note:

1. The savings calculated are estimated and based on BEE guidelines on Walk through Energy Audit, BEE – LIGHTING CODE AND HVAC CODE.
2. The recommendations given are only based on current energy efficient practices in the sector.
3. Recommended to undertake the measures suggested in all the areas to get the benefits of Walk through Energy Audit.

6.0 CONCLUSION

- It is recommended to keep the data base of each and every appliance / instrument installed in the premise, as it will guide in planning and execution of various energy conservation measures.
- It is recommended to carry out phase wise replacement of existing 52 nos. of T8 /T12 Tube light with energy efficient LED Tube light of 18 watts and carry out phase wise replacement of 70 nos. of old inefficient Ceiling FAN (80watt each) with 5 Star rated BLDC FAN (28/30 watt) .