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ENERGY AUDIT

This is to certify that, *our audit team* visited KRJ Arts & SMS Commerce College DHARWAD Dist: Dharwad on 11th June 2022 and under took the **ENERGY AUDIT** of college campus.

The college is located in Corporation limits of HUBLI –DHARWAD. It is a semi organized Industrial city.

The energy audit is a retrospective survey and analysis of energy requirements. The energy conservation principles have been adopted with minimal use of energy judiciously i.e. "Whenever necessary and where ever necessary".

All the energy requirements are collected from each and every class room, laboratory, office, staff common room, library, computer lab, gymnastic hall etc.

A separate energy consuming appliances log sheet is made ready for ease of energy management. An energy **sensitization awareness program** is developed among the staff and students.

Need of energy audit

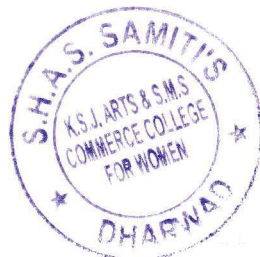
To minimize the cost of energy consumption

To minimize the operational costs

To minimize the cost of maintenance

ENERGY AUDIT METHODOLOGY

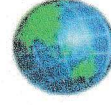
The audit involves visiting physical position of load and to carry out the inventory of load. Due measurements of electrical load of requirement and adequate circuit is carried out . Energy bill received from **HESCOM** is audited and analyzed ,various positions of energy.Present requirements are judged and finalized. Energy conservation and saving opportunities are identified, proper circuitry plans are implemented.



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Principal
S.H.A.S. Samiti's
Smt. K. S. Jigalur Arts and
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HESCOM CONSUMER BILL for the last five years have been analyzed

It is found that there is incremental trend in use of electrical power. Clearly it because of continuous up grading the infra structure .

| S.No | Year | Average Power Units consumed | Remarks |
|------|-------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 2017 | 766 | Analysis is made graphically Incremental trend is clear indication of proper use of electric power for the development purpose only |
| 2 | 2018 | 1049 | |
| 3 | 2019 | 1344 | |
| 4 | 2020 | 1325 | |
| 5 | 2021 | 1464 | |
| | Avrg | 1190 | 23.06% energy is utilized in the year 2021 (€x€ss) |

This has been achieved by adopting advance technology in electric appliances
 The EXCEL graphical analysis is provided in separate sheets.

The energy sensitization programs are notified among the staff and students

Solar water heater present in hostel. It is one step ahead to words utilization of green energy.
 In turn 10 % turn saving of electricity bills is achieved

It is observed that roof top solar energy harvesting units are installed in library, which is the best practice in energy utilization method. The same out of solar energy is utilized for lighting in the campus during night. Thus green energy is optimally utilized.

Technical staff


 Convener

Energy Audit Team

Place :Dharwad

Date :11th June 2022





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