



ଓଡ଼ିଶା ଜଳ ବିଦ୍ୟୁତ୍ ନିଗମ ଲିମିଟେଡ୍

(ଓଡ଼ିଶା ସରକାରଙ୍କ ଏକ ଉପକ୍ରମ)

ଓଡ଼ିଶା ରାଜ୍ୟ ଆରକ୍ଷା ଗୃହନିର୍ମାଣ ଏବଂ ସମାଜମଙ୍ଗଳ ନିଗମ ଭବନ, ବାଣାବିହାର ଛକ, ଜନପଥ, ଭୁବନେଶ୍ୱର-୭୨
ଫୋନ: ୯୧-୦୬୭୪-୨୫୪୨୯୮୩, ୨୫୪୨୮୦୨, ୨୫୪୫୫୨୬, ୨୫୪୨୮୨୬, ଫ୍ୟାକ୍: ୨୫୪୨୧୦୨

ODISHA HYDRO POWER CORPORATION LTD.

(A GOVT. OF ODISHA UNDERTAKING)

CIN: U40101OR1995SGC003963

REGD. OFFICE : ODISHA STATE POLICE HOUSING & WELFARE CORPORATION BUILDING, VANIVIHAR CHOUK, JANPATH, BHUBANESWAR-751 022

PHONE : 91-0674-2542983, 2542802, 2545526, 2542826, FAX : 2542102

E-mail: ohpc.co@gmail.com / info@ohpcltd.com, Website : www.ohpcltd.com

ENERGY AUDIT REPORT

OF

RAMADEVI WOMEN'S UNIVERSITY

ACKNOWLEDGEMENT

I take this opportunity to appreciate & thank the management of Ramadevi Women's University for giving an opportunity to conduct energy audit for the university.

I am indeed touched by the helpful attitude and co-operation of all the faculties and technical staffs, who rendered their valuable assistance and co-operation during the course of study.

Malaya Kanta Swain

**MALAYA KANTA SWAIN, B.E(Elect),
Certified Energy Auditor [EA-9855]
(BEE, Ministry of Power, Govt. of India)**

&

**Asst. General Manager (Elect.),
Odisha Hydro Power Corporation Ltd.**

**Asst. Gen. Manager (El.)
OHPC Ltd. BBSR**

EXECUTIVE SUMMARY

The executive summary of the energy audit report furnished in this section briefly gives the identified energy conservation measures and other recommendations that can be implemented in a phased manner to conserve energy, increase productivity inside the university campus.

ENERGY MANAGEMENT INITIATIVE TAKEN BY UNIVERSITY:

- ✚ Management has started replacing “conventional FTL (46 Watt) by energy efficient LED Tube Light fixture (20 Watt). **It’s Appreciable.**
- ✚ Management has adapted procurement policy for BEE star rated Air conditioning in the faculties’ cabins. **It’s Appreciable.**
- ✚ Installation of Roof Top Photo Voltaic Solar Plant. **It’s Appreciable.**

AREAS FOR IMPROVEMENT:

Lighting system:

- ✚ All “conventional FTL (46 Watt) should be replaced by energy efficient LED Tube Light fixture (20 Watt).
- ✚ Installation of “**Timer control on street lighting**” in college campus recommended for energy saving in the campus.

Ceiling Fan and Exhaust Fan:

- ✚ Replacement of “conventional ceiling fan 80 Watt” by energy efficient star rated fan or BLDC based energy efficient fan (20 to 25 Watt) in “Administrative Building, Class Rooms, Auditorium, Lecture Halls Hall, laboratories and faculty cabin”. It will have great potential for energy saving.
- ✚ Replacement of “conventional exhaust fan 60 Watt” by energy efficient star rated fan or BLDC based energy efficient fan (20 to 40 Watt) in College building class rooms, laboratories and faculties cabin have great potential for energy saving.

- ✚ Expected energy saving and simply payback period is subject of load factor and annual operating hours.

Air Conditioning System:

- ✚ It is recommended “false Ceiling” in air conditioning area. It will reduce air conditioning load of AC and unit consumption.
- ✚ Reduce air leakage from door and window in air conditioning area.
- ✚ It is always better to run AC at 26°C.
- ✚ Insulate the room properly where air conditioning is provided.
- ✚ Get the ACs serviced regularly with competent technicians.

Energy Management Workshop and Training:

- ✚ Develop Energy Management Policies for university.
- ✚ Establish a procurement Policy that encourages procurement of STAR rated energy saving equipment and eco-friendly.
- ✚ Management has to form an Energy Conservation Team for monitoring and recommending energy conservation measures.
- ✚ Conduct awareness and training programs for faculty, student and non-teaching staffs. Conduct seminars, workshops and exhibitions on energy saving and management.