



**Shankarlal Khandelwal Arts,
Science and Commerce College, Akola (MS).**

**REPORT
OF PROJECT
ENERGY AUDIT OF EDUCATIONAL INSTITUTES
WITH REFERENCE TO MOU**

[2022-23]

**In Collaboration
With**

**PPE Energy Solutions
Private Limited, Pune.**

Submitted

By

**Dr. H. J. Kharat
Coordinator
Department of Physics.**

31st May 2022



Shankarlal Khandelwal Arts, Science and Commerce College, Akola MS

REPORT OF PROJECT
ENERGY AUDIT OF EDUCATIONAL INSTITUTES
WITH REFERENCE TO MOU
Academic Year: 2022-23

1. Title

Energy Audit of Educational Institutes

2. Objectives

- a. To aware the students of the College about participation in the Project.
- b. To select the interested students of the College for internship under MoU for conducting Energy audit of the Institutes
- c. To impart the knowledge of fundamental Concepts of Energy Audit and prevention measures.
- d. To organize workshop, Group Discussion on the concerned subject.
- e. To provide the technical support to the students so that they can perform the energy audit independently.
- f. To learn about writing of the energy audit report.

3. The Context

Recently, the use of electrical energy is increase beyond the limit. So there is a need to save the energy at the priority. Energy Audit is the significant way for the management of energy and its conservation. Energy audit provides pattern of energy consumption, to identify the potential areas for energy optimization and recommendations for energy conservation. An energy audit study is a joint exercise of PPS and institute to account and contain energy usage. In this project, selected students will acquire the knowledge of fundamentals of the electrical appliances and their wattage. Overall survey of the appliances and energy consumption in the institute will conduct. Analysis of the collected data will be completed and report with recommendations would be submitted.

4. The Practice

After Introduction of the project into the classes, three interested students of B.Sc. third year Physics have been selected for the internship in the project. Importance of the electrical energy, wattage of the appliances, consumption and energy conservation methods have been explained and demonstrated the technical support for the proper energy audit. It was shown that the energy audit will identify energy-saving opportunities, how it will help to understand energy usage and ways to use energy better. It can identify safety concerns with electrical systems, wiring, and ventilation, thus making the institute or home safer. Selected students with Expert Engineers of PPE completed the energy audit of the college first and then perform the energy audit of other nearby institutes. Students completed the internship, became expert and received the certificate.

5. Evidence of Success


Students participated in the process of energy audit and acquired the knowledge of wattage, consumption and conservation of energy. Students initially completed the audit of the college with expert engineers of PPS and then perform the audit of other institutes independently done by the students observed and monitored by the coordinator and experts of the PPS. After completing the internship and going through the viva voce of the students, completion certificates issued by the PPS, Pune.

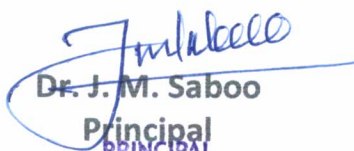
6. Problems Encountered and Resources required

The problem of selection was solved by proper cancelling of the students in the classes. Three students participated enthusiastically and completed the internship in the project Energy Audit with reference to MoU with PPS.

7. Notes

Department of Physics, used to conduct the energy audit since 2020. However MoU had signed in 2022-23 for the mutual activities and completed the internship of the students for this project of energy audit of the institutes.


Dr. H. J. Kharat
Coordinator


Dr. J. M. Saboo
Principal
PRINCIPAL
Shankarlal Khandelwal Arts,
Science & Commerce College,
AKOLA (M.S.)

MoU of SKC with PPS

MEMORANDUM OF UNDERSTANDING (MOU)

This MOU is made and executed in Pune between **M/s. PPS Energy Solutions Pvt. Ltd. (PPSES)** having its registered office at **B - 403 Bharti Vihar S. No – 78, Bharti Vidyapith Campus, Katraj, Pune – 411046, Maharashtra, India**, represented by **Adv. Dr. Ravi G. Deshmukh**, Director and Accredited Energy Auditor, BEE, Govt. of India

AND

Shishan Prasarak Mandal's Shankarlal Khandelwal Arts, Science and Commerce College (SPMSKASCC), Akola represented by **Dr. J. M. Saboo**, Principal having its registered / campus office at **Godbole Plots, Dabki Road, Akola - 444002**, recognize the benefits to their respective organizations from the establishment of collaborations and proceed to have a Memorandum of Understanding (MOU). Both the independent institutions are committed to mutual and common goals of generating new knowledge towards projects and work culture for betterment of the society we serve.

Now the parties hereby mutually agree and this agreement witnessed as under:

PPSES:

1. Collaborations in the area of mutual interest and exchange knowledge.
2. Utilization of Facilities / Laboratories at SPMSKASCC and PPSES by the faculty and students for the purpose of project assigned by PPSES.
3. Arranging training programs for professionals from PPSES covering applied Engineering subjects based on training need identification.
4. Exchange of academic/research information and related materials to facilitate joint publications by collaborating faculty members.
5. Promoting any related academic activities based on mutual agreement.
6. Industrial/Commercial/Residential site visits by faculty and students of SPMSKASCC on mutually suitable dates.
7. SPMSKASCC shall provide experts CVs or CVs of really interested candidates for acquiring projects/assignment, in which SPMSKASCC resources and Third and Final year students shall be given On-Job project training as an internship.
8. PPSES may recruit Third year and Final year candidate on project to project basis if required for working on live projects with or without fixed remuneration.



SPMSKASCC:

1. SPMSKASCC has agreed to provide Labs, infrastructure covering Training Space, Lighting, Furniture, Computer hardware, Projector, UPS Supply, training aids such as boards, markers, dusters etc. required for training.
2. SPMSKASCC shall arrange for necessary manpower support for conducting the Training.

Terms and Conditions:

1. Both the parties affirm their commitment to implement the activities and achieve the objectives mutually agreed upon.
2. Any conflicts between the parties shall always be decided by mutual consultation without any recourse to arbitration or other kind of legal remedy including resort to court of law.
3. Both parties shall use such material, name, logo, information as pre-approved and provided by each party for any of advertisements for promotional material on their web sites.
4. New assignments can be added during the course of implementation of MPU, if mutually agreed by both the parties.
5. Financial terms and conditions (if Arising) will be decided mutually on basis if any.

Validity of MOU:

This MOU shall remain in force and effect for Twenty-Four Months (24 Months). Either party can revoke this MOU by giving One Month prior notice.

Agreed and Signed behalf of:

Authorized and Signed on behalf of:




Adv. Dr. Ravi G. Deshmukh
Director

M/s. PPS Energy Solutions Pvt. Ltd. (PPSES)




Authorized Signatory

Dr. J. M. Saboo
Principal

Shishan Prasarak Mandal's Shankarlal
Khandelwal Arts, Science and Commerce
College (SPMSKASCC), Akola
PRINCIPAL
Shankarlal Khandelwal Arts,
Science & Commerce College,
AKOLA (M.S.)

Internship Certificate of Participants

PPS Energy Solutions

PPS Energy Solutions Pvt. Ltd. Regd. Off: B-403, Bharti Vihar, S.No-70, Bharti Vidyapeeth Campus, Kharaj, Pune - 411046

Date: 11th Aug 2023

To,
The Principal,
Shishan Prasarak Mandal's
Shankarlal Khandelwal Arts, Science and Commerce College (SPMSKASCC),
Akola

Subject: Letter of Technical Sponsorship for students of SPMSKASCC for their Final
Year of Bachelor of Science.

Reference: MOU between PPSES and SPMSKASCC dated 23rd July 2022

Sir/Madam,
The following students of SPMSKASCC,

1. Mr. Saurabh Santosh Kale, B.Sc. (III year)
2. Mr. Prathmesh Vinayak Mahajan, B.Sc. (III year)
3. Datta Shankarrao Chandurkar, B.Sc. (III year)

are currently working as project interns at our company and are doing a project titled
"ENERGY AUDIT OF EDUCATIONAL INSTITUTES" with our company. The duration of
the project is likely to be 1 months and "M/s. PPS Energy Solutions Pvt. Ltd, Pune" would
provide full technical sponsorship with reference to MOU. The students shall be properly
guided and we would be sharing our technical knowledge with them.

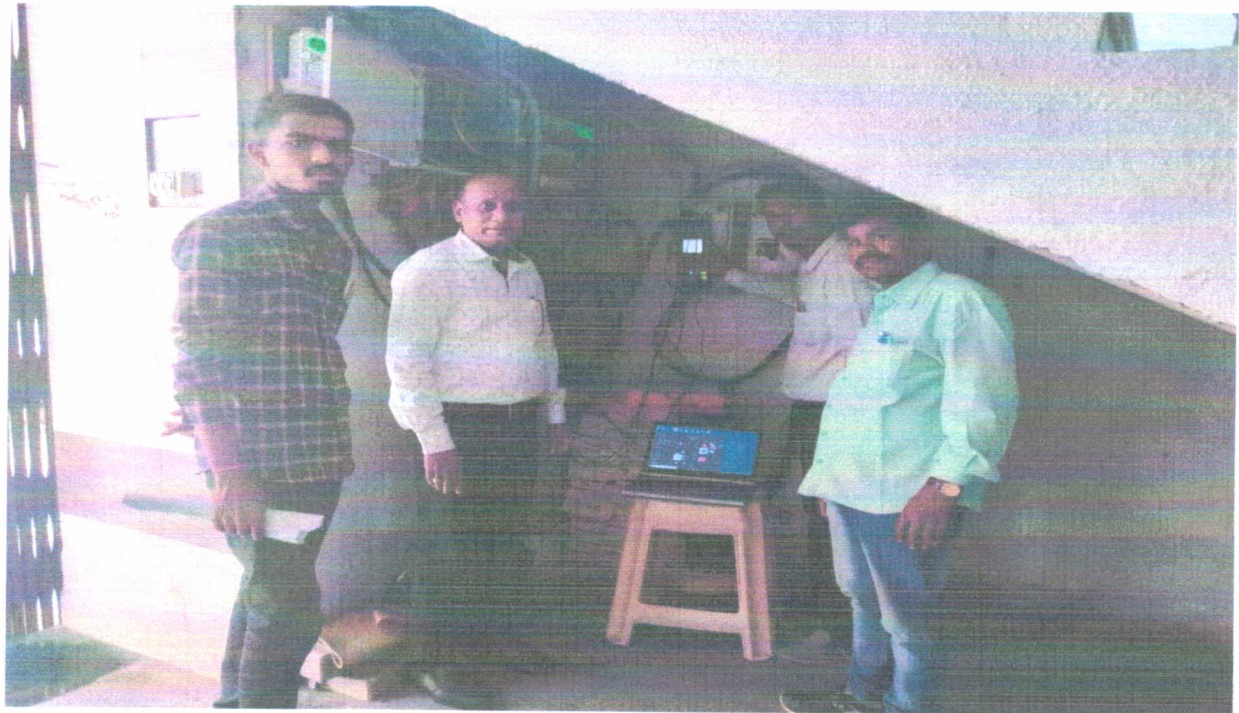
Thanking you

Yours faithfully



Adv. Dr. Ravi G. Deshmukh
Director
M/s. PPS Energy Solutions Pvt. Ltd.
(PPSES)

Survey for Energy Audit of the College



Education for Life and Life for Nation

THANK YOU!

THANK YOU FOR YOUR SUPPORT AND COOPERATION