



# ENERGY AUDIT REPORT FOR JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE



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## Acknowledgement

Elion Technologies and Consulting Pvt. Ltd places on record it's thanks to Jaipur Engineering College and Research Centre, Rajasthan for entrusting the task of conducting energy audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.



## Site Information

|                                                                               |                                                                                                                                                                 |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of College</b>                                                        | Jaipur Engineering College And Research Centre                                                                                                                  |
| <b>College Address</b>                                                        | Opp. EPIP Gate, Near Sanganer Sadar Thana, Tonk Road, Jaipur, Rajasthan, 302022                                                                                 |
| <b>Execution Partner</b>                                                      | ELION Technologies & Consulting Pvt. Ltd                                                                                                                        |
| <b>Communication Address</b>                                                  | 307, 3rd Floor, DDA Lal Market, H-Block, Vikas Puri, New Delhi – 110018                                                                                         |
| <b>Date of Audit</b>                                                          | 06 <sup>th</sup> June 2026                                                                                                                                      |
| <b>Year of Audit</b>                                                          | 2025 - 2026                                                                                                                                                     |
| <b>Site Team who participated in the Study</b>                                | JECRC PERSONNELS                                                                                                                                                |
| <b>Main Energy Consuming Machines/Equipment's considered for Energy Audit</b> | <ul style="list-style-type: none"><li>• Lighting &amp; Fans</li><li>• Air Conditioners</li><li>• Motors &amp; Pumps</li><li>• Desktops &amp; Printers</li></ul> |



## Executive Summary

A journey of Two decades for JECRC, having more than 4000 students on campus under 7 UG programs, has earned laurels to their students, faculty members and for the institute in many ways. More than 10000 alumni's spread over the globe has climbed the ladder to leadership positions and providing mentorship to their juniors by way of skill development, incubation, startup, research and angel funding. Faith by government agencies for providing grant of more than 2 crores for setting up centre of excellence, state of art facilities for startup & incubation and providing platform to the students to develop their technical and managerial skills that is helping students to get placement in a reputed organization. Contribution towards International publications, technical activities, and co-curricular activities by faculty members, students and delivery of Outcome based education is recognized by National Board of Accreditation and AICTE.

Socially rich atmosphere at the campus enabling fourfold grooming of students that is recognized at National and International level and enabling students to work as interns with personalities recognized in their field of expertise. JECRC has become synonymous to placements and JECRCians have made their presence felt at every reputed company / government organization. To improve the quality of teaching learning, the institute on regular basis is getting the appreciations from Government and Non-Government Organizations viz., NITTTR Chandigarh, National Board of Accreditation, Rajasthan Technical University, AICTE, ASSOCHAM, Computer Society of India, The Week, Outlook, India Today etc. and two programs Mechanical Engineering and Electronics & Communication Engineering are accredited by the National Board of Accreditation for providing outcome based education.

### List of courses offered by the institute:

- B.Tech In Computer Science & Engineering
- B.Tech In AI &DS
- B.Tech In CSE(AI)
- B.Tech In Information Technology
- B.Tech In Mechanical Engineering
- B.Tech In Civil Engineering
- B.Tech In Electronics Engineering
- B.Tech In Electrical Engineering



## Chapter 01: Introduction

M/S Jaipur Engineering College and Research Centre evinced interest in availing the services of Elion Technologies and Consulting Pvt. Ltd for conducting energy audit of their premises.

Elion Technologies and Consulting Pvt. Ltd team conducted the Detail Energy audit on 06<sup>th</sup> June 2026.

This report is on the energy audit carried out in Jaipur Engineering College and Research Centre. The detailed energy audit comprised of the following activities:

- Data collection of power consuming equipment's.
- A brief session on energy management was conducted to seek more inputs from the personnel engaged in operation and maintenance of electro mechanical services.
- Analysis of collected data.
- Discussion with the officials on the identified proposals.
- Discussion and reporting of the findings of energy audit with the Engineers and management staff.

All the identified energy savings proposals have been discussed with the executives concerned before finalizing the projects.

The contents of the report are based solely on the data provided by Jaipur Engineering College and Research Centre officials during the energy audit.

The management should implement the suggestions made in the report after verifying requisite safety aspects.

### Methodology for Energy Audit:

The following is a list of general procedure and information undertaken during the energy audit:

- General information of the site.
- Baseline energy description.
- On site data collection
- Energy analysis of different sectors.
- Recommendation of energy conservation measures.

The primary goal of the energy audit was to identify sources and areas of potential energy savings and cost saving throughout the Plant by measures of optimization, replacement, retrofitting, and on the other hand, to also provide recommendations on operational and maintenance practices improvements.



## Chapter 02: Energy Consumption Details

List of equipment present in the campus:

|                                              |               |
|----------------------------------------------|---------------|
| Rating of Transformer (in KVA)               | 630KVA+315KVA |
| Year of installation of the Transformer      | 2009          |
| Rating of DG Set (in KVA)                    | 200KVA+125KVA |
| Rating of Capacitor Bank (if present)        | NA            |
| Capacity of Solar Power Plant (if installed) | 400KW         |

The main areas of energy consumption as observed during the audit are as follows:

- Air Conditioners
- Lighting & Fans
- Motors & Pumps
- Desktops & Printers

The main sources of energy to meet the required consumptions are as follows:

- Electricity supply from Distribution Company.
- DG sets of rating 200KVA & 125KVA.
- Solar power plant of capacity 400KW.



DG Set



## Chapter 03: Lighting System

The lighting inventory of the colleges present in the university were collected and following is the summary:

| Block            | Room                   | Types of Light | Rating | Quantity | Number of Hours being turn on |
|------------------|------------------------|----------------|--------|----------|-------------------------------|
| A                | Auditorium-1           | LED            | 20W    | 60       | 6 Hr.                         |
|                  | Auditorium-1           | Tube Light     | 40W    | 25       | 6 Hr.                         |
|                  | LT-1,LT-2, LT-3, LT-4  | Tube Light     | 40W    | 36       | 6 Hr.                         |
|                  | CP-1, CP-2, CP-3, CP-4 | Tube Light     | 40W    | 18       | 6 Hr.                         |
|                  | CP-1, CP-2, CP-3, CP-4 | Tube Light     | 40W    | 18       | 6 Hr.                         |
|                  | Computer Center        | LED            | 20W    | 64       | 6 Hr.                         |
|                  | Library                | LED            | 20W    | 36       | 6 Hr.                         |
|                  | Registrar Office       | LED            | 20W    | 12       | 6 Hr.                         |
|                  | IQAC                   | LED            | 20W    | 8        | 6 Hr.                         |
|                  | Waiting Room           | LED            | 20W    | 11       | 6 Hr.                         |
|                  | Board Room             | LED            | 20W    | 13       | 6 Hr.                         |
|                  | PA Room                | LED            | 20W    | 4        | 6 Hr.                         |
|                  | Kitchen                | LED            | 20W    | 1        | 6 Hr.                         |
|                  | OP Sir                 | LED            | 20W    | 10       | 6 Hr.                         |
|                  | Amit Sir               | LED            | 20W    | 10       | 6 Hr.                         |
|                  | Arpit Sir              | LED            | 20W    | 10       | 6 Hr.                         |
|                  | Staff Room 1, FF       | Tube Light     | 40W    | 3        | 6 Hr.                         |
|                  | Staff Room 2, FF       | Tube Light     | 40W    | 3        | 6 Hr.                         |
|                  | Staff Room 3, SF       | LED            | 20W    | 25       | 6 Hr.                         |
|                  | HR Room                | LED            | 20W    | 10       | 6 Hr.                         |
|                  | Accounts Office        | LED            | 20W    | 15       | 6 Hr.                         |
|                  | CP-6                   | Tube Light     | 40W    | 6        | 6 Hr.                         |
|                  | IBM Lab                | LED            | 20W    | 25       | 6 Hr.                         |
|                  | Gallery                | Tube Light     | 40W    | 15       | 6 Hr.                         |
|                  | Bathroom-5             | Tube Light     | 40W    | 10       | 6 Hr.                         |
|                  | OS Office              | LED            | 20W    | 2        | 6 Hr.                         |
| B Block Basement | BLG-01, LT             | Tube Light     | 40W    | 20       | 6 Hr.                         |
|                  | BLG-02, HOD            | Tube Light     | 40W    | 2        | 6 Hr.                         |
|                  | BLG-03, Staff Room     | Tube Light     | 40W    | 1        | 6 Hr.                         |
|                  | BLG-05, Lab            | Tube Light     | 40W    | 8        | 6 Hr.                         |
|                  | BLG-06, LT             | Tube Light     | 40W    | 14       | 6 Hr.                         |
|                  | BLG-08, CP Lab         | Tube Light     | 40W    | 8        | 6 Hr.                         |
|                  | BLG-10, Staff Room     | Tube Light     | 40W    | 2        | 6 Hr.                         |
|                  | BLG-11, Staff Room     | Tube Light     | 40W    | 2        | 6 Hr.                         |



|                             |                     |            |     |    |       |
|-----------------------------|---------------------|------------|-----|----|-------|
|                             | BLG-12, Staff Room  | Tube Light | 40W | 2  | 6 Hr. |
|                             | BLG-13, LT          | Tube Light | 40W | 16 | 6 Hr. |
|                             | BLG-14, Lab         | Tube Light | 40W | 8  | 6 Hr. |
|                             | BLG-16, Lab         | Tube Light | 40W | 8  | 6 Hr. |
|                             | BLG-17, Staff Room  | Tube Light | 40W | 2  | 6 Hr. |
|                             | BLG-18, Staff Room  | Tube Light | 40W | 2  | 6 Hr. |
|                             | BLG-19, Lab         | Tube Light | 40W | 10 | 6 Hr. |
|                             | Gallery             | Tube Light | 40W | 8  | 6 Hr. |
| <b>B Block Ground Floor</b> | BG-01, Lab          | Tube Light | 40W | 8  | 6 Hr. |
|                             | BG-02, Staff Room   | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-03, Staff Room   | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-04, Lab          | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-05, Staff Room   | Tube Light | 40W | 1  | 6 Hr. |
|                             | BG-06, Lab          | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-07, LT           | Tube Light | 40W | 10 | 6 Hr. |
|                             | BG-09, CP Lab       | LED        | 20W | 4  | 6 Hr. |
|                             | BG-11, Staff Room   | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-12, Staff Room   | Tube Light | 40W | 1  | 6 Hr. |
|                             | BG-13, Staff Room   | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-14, LT           | Tube Light | 40W | 6  | 6 Hr. |
|                             | BG-15, Lab          | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-16, Lab          | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-17, Staff Room   | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-18, HoD Room     | Tube Light | 40W | 2  | 6 Hr. |
|                             | BG-19, LT           | Tube Light | 40W | 3  | 6 Hr. |
|                             | BG-20, Dispensary   | Tube Light | 40W | 2  | 6 Hr. |
|                             | Gallery             | Tube Light | 40W | 8  | 6 Hr. |
| <b>B Block First Floor</b>  | BF-01, LT           | Tube Light | 40W | 3  | 6 Hr. |
|                             | BF-02, Control Room | Tube Light | 40W | 4  | 6 Hr. |
|                             | BF-03, Lab          | Tube Light | 40W | 4  | 6 Hr. |
|                             | BF-04, LT           | Tube Light | 40W | 2  | 6 Hr. |
|                             | BF-05, Lab          | Tube Light | 40W | 2  | 6 Hr. |
|                             | BF-06, LT           | Tube Light | 40W | 8  | 6 Hr. |
|                             | BF-07, LT           | Tube Light | 40W | 1  | 6 Hr. |
|                             | BF-08, CP Lab       | LED        | 20W | 16 | 6 Hr. |
|                             | BF-09, Toilet       | Tube Light | 40W | 1  | 6 Hr. |
|                             | BF-10, Staff Room   | Tube Light | 40W | 1  | 6 Hr. |
|                             | BF-11, Staff Room   | Tube Light | 40W | 1  | 6 Hr. |
|                             | BF-12, Staff Room   | Tube Light | 40W | 1  | 6 Hr. |
|                             | BF-13, LT           | Tube Light | 40W | 12 | 6 Hr. |
|                             | BF-14, Lab          | Tube Light | 40W | 4  | 6 Hr. |
|                             | BF-15, Staff Room   | Tube Light | 40W | 3  | 6 Hr. |



|                             |                   |            |     |    |       |
|-----------------------------|-------------------|------------|-----|----|-------|
|                             | BF-16, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BF-17, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BF-18, LT         | Tube Light | 40W | 3  | 6 Hr. |
|                             | BF-19, Staff Room | Tube Light | 40W | 2  | 6 Hr. |
|                             | Gallery           | Tube Light | 40W | 8  | 6 Hr. |
| <b>B Block Second Floor</b> | BS-01, LT         | Tube Light | 40W | 3  | 6 Hr. |
|                             | BS-02, Staff Room | Tube Light | 40W | 2  | 6 Hr. |
|                             | BS-03, Staff Room | Tube Light | 40W | 2  | 6 Hr. |
|                             | BS-04, Lab        | Tube Light | 40W | 4  | 6 Hr. |
|                             | BS-05, Lab        | Tube Light | 40W | 4  | 6 Hr. |
|                             | BS-06, LT         | Tube Light | 40W | 10 | 6 Hr. |
|                             | BS-07, Exam Room  | Tube Light | 40W | 4  | 6 Hr. |
|                             | BS-08, LT         | Tube Light | 40W | 6  | 6 Hr. |
|                             | BS-09, Staff Room | Tube Light | 40W | 2  | 6 Hr. |
|                             | BS-10, Staff Room | Tube Light | 40W | 2  | 6 Hr. |
|                             | BS-11, Staff Room | Tube Light | 40W | 2  | 6 Hr. |
|                             | BS-12, LT         | Tube Light | 40W | 13 | 6 Hr. |
|                             | BS-13, CP Lab     | Tube Light | 40W | 8  | 6 Hr. |
|                             | BS-14, CP Lab     | Tube Light | 40W | 8  | 6 Hr. |
|                             | BS-15, Lab        | Tube Light | 40W | 6  | 6 Hr. |
|                             | BS-16, Staff Room | Tube Light | 40W | 2  | 6 Hr. |
|                             | Gallery           | Tube Light | 40W | 8  | 6 Hr. |
| <b>B Block Third Floor</b>  | BT-01, LT         | Tube Light | 40W | 4  | 6 Hr. |
|                             | BT-02, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-03, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-04, LT         | Tube Light | 40W | 2  | 6 Hr. |
|                             | BT-06, LT         | Tube Light | 40W | 2  | 6 Hr. |
|                             | BT-07, LT         | Tube Light | 40W | 6  | 6 Hr. |
|                             | BT-08, HoD Room   | Tube Light | 40W | 2  | 6 Hr. |
|                             | BT-09, LT         | Tube Light | 40W | 5  | 6 Hr. |
|                             | BT-10, Washroom   | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-11, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-12, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-13, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-14, LT         | Tube Light | 40W | 7  | 6 Hr. |
|                             | BT-15, Lab        | Tube Light | 40W | 2  | 6 Hr. |
|                             | BT-16, LT         | Tube Light | 40W | 2  | 6 Hr. |
|                             | BT-17, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-18, Staff Room | Tube Light | 40W | 1  | 6 Hr. |
|                             | BT-19, LT         | Tube Light | 40W | 4  | 6 Hr. |
|                             | BT-20, HOD Room   | Tube Light | 40W | 1  | 6 Hr. |
|                             | Gallery           | Tube Light | 40W | 8  | 6 Hr. |



|                                   |                       |            |     |    |       |
|-----------------------------------|-----------------------|------------|-----|----|-------|
| <b>C-Level-1<br/>Basement</b>     | CLG-09 Lab            | Tube Light | 40W | 10 | 6 Hr. |
|                                   | CLG-10 Lab            | Tube Light | 40W | 4  | 6 Hr. |
|                                   | CLG-11 Lab            | Tube Light | 40W | 2  | 6 Hr. |
|                                   | CLG-12 Lab            | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CLG-13 Lab            | Tube Light | 40W | 6  | 6 Hr. |
|                                   | CLG-17 Lab            | Tube Light | 40W | 7  | 6 Hr. |
|                                   | CLG-18 Lab            | Tube Light | 40W | 6  | 6 Hr. |
|                                   | CLG-19 Lab            | Tube Light | 40W | 4  | 6 Hr. |
|                                   | CG-01 CR              | Tube Light | 40W | 2  | 6 Hr. |
|                                   | Gallery               | Tube Light | 40W | 15 | 6 Hr. |
| <b>C-Level-2<br/>Ground Floor</b> | CG-02 VC Sir          | LED        | 20W | 7  | 6 Hr. |
|                                   | CG-03 Sr. Advisor     | LED        | 20W | 7  | 6 Hr. |
|                                   | CG-04 Pantry          | Tube Light | 40W | 2  | 6 Hr. |
|                                   | CG-05 Board Room      | LED        | 20W | 9  | 6 Hr. |
|                                   | CG-06 CR              | Tube Light | 40W | 8  | 6 Hr. |
|                                   | CG-07 Staff Room      | Tube Light | 40W | 8  | 6 Hr. |
|                                   | CG-08 CR              | Tube Light | 40W | 9  | 6 Hr. |
|                                   | CG-09 CR              | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CG-10 Placement       | LED        | 20W | 26 | 6 Hr. |
|                                   | CG-12 CP Lab          | Tube Light | 40W | 8  | 6 Hr. |
|                                   | CG-13 Staff Room      | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CG-14 Chemistry Lab   | Tube Light | 40W | 6  | 6 Hr. |
|                                   | CG-15 Staff Room      | Tube Light | 40W | 4  | 6 Hr. |
|                                   | CG-16 Toilet          | Tube Light | 40W | 2  | 6 Hr. |
|                                   | CG-19 Staff Room      | Tube Light | 40W | 9  | 6 Hr. |
|                                   | CG-20 Chemistry lab   | Tube Light | 40W | 10 | 6 Hr. |
|                                   | CG-21 Stationary Room | Tube Light | 40W | 2  | 6 Hr. |
|                                   | Gallery               | Tube Light | 40W | 15 | 6 Hr. |
| <b>C-Level-3 First<br/>Floor</b>  | CF-01 Drawing Hall    | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CF-02 Drawing Hall    | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CF-03 CR              | Tube Light | 40W | 10 | 6 Hr. |
|                                   | CF-06 CR              | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CF-07 CR              | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CF-08 TR              | Tube Light | 40W | 4  | 6 Hr. |
|                                   | CF-09 Staff Room      | Tube Light | 40W | 3  | 6 Hr. |
|                                   | CF-10 Physics Lab     | Tube Light | 40W | 12 | 6 Hr. |
|                                   | CF-11 Physics Lab     | Tube Light | 40W | 10 | 6 Hr. |
|                                   | CF-12 CR              | Tube Light | 40W | 6  | 6 Hr. |
|                                   | CF-13 CR              | Tube Light | 40W | 5  | 6 Hr. |
|                                   | CF-14 Lab             | Tube Light | 40W | 2  | 6 Hr. |
|                                   | CF-16 CE Lab          | Tube Light | 40W | 7  | 6 Hr. |
|                                   | CF-17 Lab             | Tube Light | 40W | 4  | 6 Hr. |



|                               |                        |            |     |    |       |
|-------------------------------|------------------------|------------|-----|----|-------|
|                               | CF-18 Lab              | Tube Light | 40W | 4  | 6 Hr. |
|                               | CF-19 TR               | Tube Light | 40W | 2  | 6 Hr. |
|                               | Gallery                | Tube Light | 40W | 15 | 6 Hr. |
| <b>C-Level-4 Second Floor</b> | CS-01 Seminar Hall     | LED        | 20W | 20 | 4 Hr. |
|                               | CS-02 TR               | Tube Light | 40W | 4  | 6 Hr. |
|                               | CS-03 CR               | Tube Light | 40W | 8  | 6 Hr. |
|                               | CS-04 CR               | Tube Light | 40W | 12 | 6 Hr. |
|                               | CS-05 CR               | Tube Light | 40W | 11 | 6 Hr. |
|                               | CS-08 CR               | Tube Light | 40W | 12 | 6 Hr. |
|                               | CS-09 CR               | Tube Light | 40W | 12 | 6 Hr. |
|                               | CS-10 TR               | Tube Light | 40W | 4  | 6 Hr. |
|                               | CS-11 TR               | Tube Light | 40W | 2  | 6 Hr. |
|                               | CS-12 CP Lab           | Tube Light | 40W | 16 | 6 Hr. |
|                               | CS-13 TR               | Tube Light | 40W | 4  | 6 Hr. |
|                               | CS-14 TR               | Tube Light | 40W | 4  | 6 Hr. |
|                               | CS-15 Staff Room       | Tube Light | 40W | 4  | 6 Hr. |
|                               | CS-16 Staff Room       | Tube Light | 40W | 4  | 6 Hr. |
|                               | CS-17 Drawing Hall     | Tube Light | 40W | 12 | 6 Hr. |
|                               | CS-18 CR               | Tube Light | 40W | 12 | 6 Hr. |
|                               | CS-21 CP Lab           | LED        | 20W | 20 | 6 Hr. |
|                               | CS-22 CP Lab           | Tube Light | 40W | 16 | 6 Hr. |
|                               | CS-23 CP Lab           | Tube Light | 40W | 16 | 6 Hr. |
|                               | CS-24 TR               | Tube Light | 40W | 4  | 6 Hr. |
|                               | Gallery                | Tube Light | 40W | 15 | 6 Hr. |
| <b>C-Level-5 Third Floor</b>  | CT-01 Seminar Hall     | LED        | 20W | 20 | 4 Hr. |
|                               | CT-02 Adjoining Room   | Tube Light | 40W | 4  | 4 Hr. |
|                               | CT-03 CP Lab           | Tube Light | 40W | 6  | 6 Hr. |
|                               | CT-04 CR               | Tube Light | 40W | 6  | 6 Hr. |
|                               | CT-05 CR               | Tube Light | 40W | 4  | 6 Hr. |
|                               | CT-07 CR               | Tube Light | 40W | 6  | 6 Hr. |
|                               | CT-08 CR               | Tube Light | 40W | 5  | 6 Hr. |
|                               | CT-09 CP Lab           | Tube Light | 40W | 6  | 6 Hr. |
|                               | CT-10 HoD IT           | Tube Light | 40W | 2  | 6 Hr. |
|                               | CT-11 CR               | Tube Light | 40W | 8  | 6 Hr. |
|                               | CT-12 CR               | Tube Light | 40W | 10 | 6 Hr. |
|                               | CT-13 CR               | Tube Light | 40W | 10 | 6 Hr. |
|                               | CT-15 CR Staff Room IT | Tube Light | 40W | 11 | 6 Hr. |
|                               | CT-18 CR CP Lab        | LED        | 20W | 24 | 6 Hr. |
|                               | CT-19 Staff Room       | Tube Light | 40W | 9  | 6 Hr. |
|                               | CT-20 Chemistry Lab    | Tube Light | 40W | 10 | 6 Hr. |
|                               | CT-21 Stationary Store | Tube Light | 40W | 2  | 6 Hr. |
|                               | Gallery                | Tube Light | 40W | 15 | 6 Hr. |



|                             |                        |            |       |     |       |
|-----------------------------|------------------------|------------|-------|-----|-------|
| <b>Central Library</b>      | Central Library        | Tube Light | 40W   | 4   | 6 Hr. |
|                             |                        | LED        | 20W   | 258 | 6 Hr. |
| <b>D Block Ground Floor</b> | Admission Room DG-02   | LED        | 20W   | 15  | 6 Hr. |
|                             | Lab DG-04              | LED        | 20W   | 34  | 6 Hr. |
|                             | Lab DG-03              | LED        | 20W   | 34  | 6 Hr. |
|                             | Open Ground Lobby      | LED        | 20W   | 32  | 6 Hr. |
|                             | Lab DG-06              | LED        | 20W   | 33  | 6 Hr. |
|                             | Auditorium             | LED        | 20W   | 58  | 3 Hr. |
|                             |                        | Tube Light | 40W   | 16  |       |
|                             |                        | Halogen    | 1000W | 27  |       |
| <b>D Block First Floor</b>  | Guard Room DG-01       | Tube Light | 40W   | 1   | 6 Hr. |
|                             | Open Lobby first Floor | LED        | 20W   | 22  | 6 Hr. |
|                             | Conference Room DF-04  | LED        | 20W   | 24  | 3 Hr. |
|                             | DF-03 LT               | LED        | 20W   | 12  | 6 Hr. |
|                             | DF-08 CP LAB           | LED        | 20W   | 16  | 6 Hr. |
|                             | JIC                    | LED        | 20W   | 30  | 6 Hr. |
|                             | Washroom               | LED        | 20W   | 8   | 6 Hr. |
|                             | DF-06, Lab             | LED        | 20W   | 24  | 6 Hr. |
|                             | DF-05, Lab             | LED        | 20W   | 24  | 6 Hr. |
|                             | DF-07, Seminar Room    | LED        | 20W   | 6   | 4 Hr. |
| <b>D Block Second Floor</b> | Lobby Second Floor     | LED        | 20W   | 24  | 6 Hr. |
|                             | DS-06, Lab             | LED        | 20W   | 9   | 6 Hr. |
|                             | DS-10, Library         | LED        | 20W   | 4   | 6 Hr. |
|                             | DS-09, Lab             | LED        | 20W   | 6   | 6 Hr. |
|                             | DS-08, Lab             | LED        | 20W   | 24  | 6 Hr. |
|                             | DS-05, LT              | LED        | 20W   | 12  | 6 Hr. |
|                             | DS-03, LT              | LED        | 20W   | 12  | 6 Hr. |
|                             | DS-01, LT              | LED        | 20W   | 12  | 6 Hr. |
|                             | DS-12, Staff Room      | LED        | 20W   | 19  | 6 Hr. |
|                             | DS-11, CP Lab          | LED        | 20W   | 16  | 6 Hr. |
| <b>D Block Third Floor</b>  | Lobby Third Floor      | LED        | 20W   | 25  | 6 Hr. |
|                             | DT-05, LT              | LED        | 20W   | 12  | 6 Hr. |
|                             | DT-03, LT              | LED        | 20W   | 12  | 6 Hr. |
|                             | DT-01, LT              | LED        | 20W   | 12  | 6 Hr. |
|                             | Common Room Boys-1     | LED        | 20W   | 15  | 6 Hr. |
|                             | DT-09, CP Lab          | LED        | 20W   | 16  | 6 Hr. |
|                             | Common Room Boys-2     | LED        | 20W   | 12  | 6 Hr. |
|                             | Washroom               | LED        | 20W   | 8   | 6 Hr. |
|                             | Mechanical Staff Room  | LED        | 20W   | 4   | 6 Hr. |
|                             | Room                   | LED        | 20W   | 9   | 6 Hr. |
|                             | DT-07, CP Lab          | LED        | 20W   | 24  | 6 Hr. |
| <b>E Block</b>              | SDO office             | LED        | 20W   | 16  | 6 Hr. |



|               |                        |            |     |     |       |
|---------------|------------------------|------------|-----|-----|-------|
|               | Meeting Room           | LED        | 20W | 3   | 6 Hr. |
|               | Pranshu Sharma         | LED        | 20W | 10  | 6 Hr. |
|               | Priyanka Shukla        | LED        | 20W | 6   | 6 Hr. |
|               | Jatin and Vipul        | LED        | 20W | 8   | 6 Hr. |
|               | Meeting Room           | LED        | 20W | 6   | 6 Hr. |
|               | Sonia Madam            | LED        | 20W | 6   | 6 Hr. |
|               | Student Meeting Room-1 | LED        | 20W | 8   | 6 Hr. |
|               | Student Meeting Room-2 | LED        | 20W | 6   | 6 Hr. |
|               | Gallery-1              | LED        | 20W | 13  | 6 Hr. |
|               | Gallery-2              | LED        | 20W | 13  | 6 Hr. |
|               | Dance Room             | LED        | 20W | 10  | 6 Hr. |
|               | Music Room             | LED        | 20W | 10  | 6 Hr. |
|               | Kitchen                | LED        | 20W | 2   | 6 Hr. |
|               | Canteen Kitchen        | Tube Light | 40W | 3   | 6 Hr. |
|               | Canteen Area           | LED        | 20W | 13  | 6 Hr. |
| Boys Hostel-1 | Students Room-76       | Tube Light | 40W | 76  | 6 Hr. |
|               | Office                 | Tube Light | 40W | 1   | 6 Hr. |
|               | Rasoi                  | Tube Light | 40W | 9   | 6 Hr. |
|               | Bathroom               | Tube Light | 40W | 48  | 6 Hr. |
|               | Gallery-6              | Tube Light | 40W | 36  | 6 Hr. |
| Boys Hostel-2 | Room-72                | Tube Light | 40W | 144 | 6 Hr. |
|               | Bathroom-68            | Tube Light | 40W | 68  | 6 Hr. |
|               | Office                 | Tube Light | 40W | 1   | 6 Hr. |
|               | Gallery-4              | Tube Light | 40W | 32  | 6 Hr. |
|               | Dining Hall            | Tube Light | 40W | 12  | 6 Hr. |
| Girls Hostel  | Student Rooms-55       | Tube Light | 40W | 110 | 6 Hr. |
|               | Bathroom-55            | LED        | 20W | 55  | 6 Hr. |
|               | Guest Room             | Tube Light | 40W | 2   | 6 Hr. |
|               | Warden Room            | Tube Light | 40W | 2   | 6 Hr. |
|               | Dining Hall            | LED        | 20W | 35  | 6 Hr. |
|               | Common Room            | LED        | 20W | 24  | 6 Hr. |
|               | Visitor Room           | LED        | 20W | 8   | 6 Hr. |
|               | Gallery                | Tube Light | 40W | 45  | 6 Hr. |
|               | Room-3                 | Tube Light | 40W | 3   | 6 Hr. |
|               | Kitchen                | Tube Light | 40W | 6   | 6 Hr. |
|               | Washing Room           | Tube Light | 40W | 1   | 6 Hr. |
|               | Store                  | Tube Light | 40W | 1   | 6 Hr. |
|               | Store                  | Tube Light | 40W | 1   | 6 Hr. |

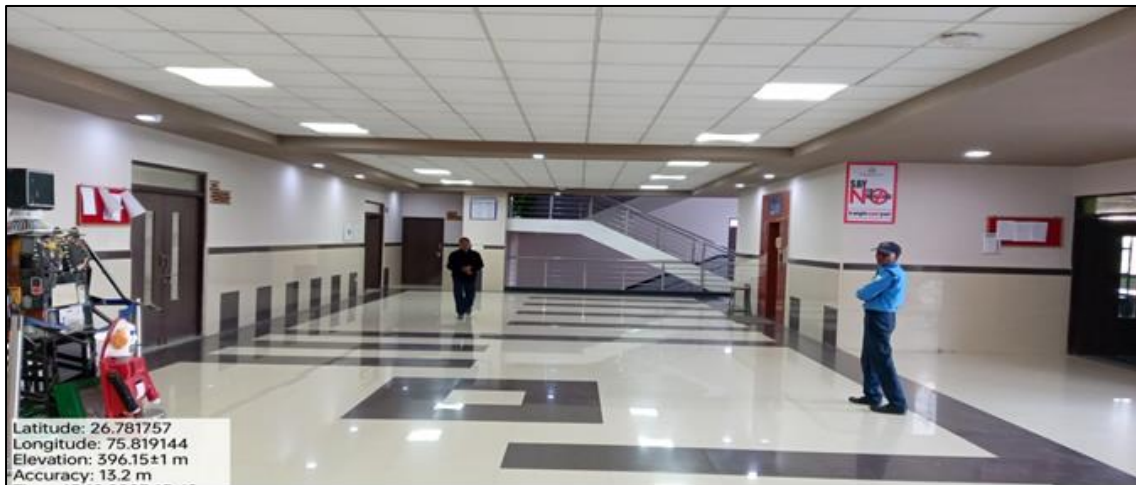


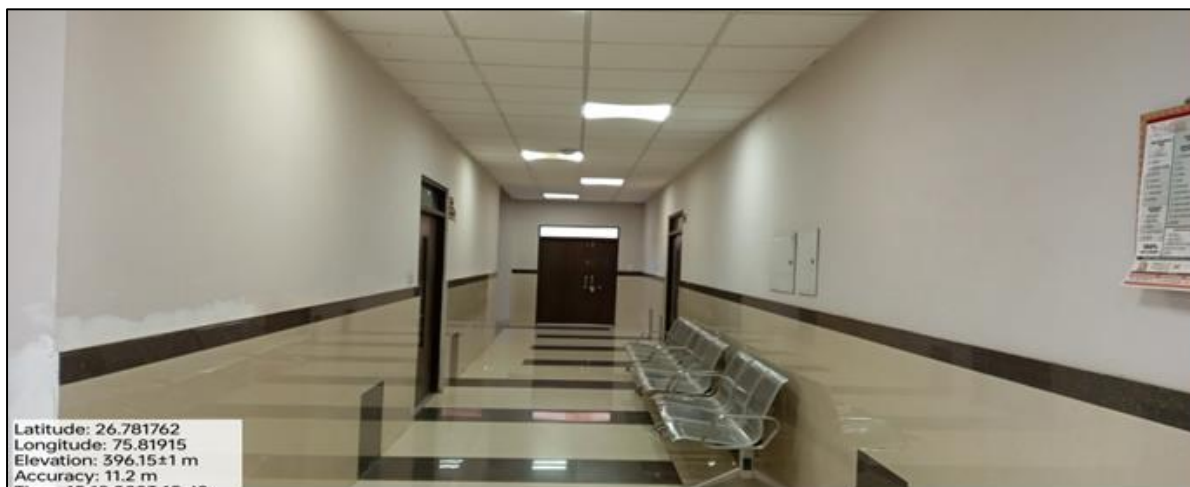
### Observation:

- It was observed that energy efficient LED lights along with some conventional lights such as fluorescent lights are present in the campus.
- The campus management has started replacing old conventional lights with energy efficient lights in phased manner.

### Recommendation:

- Occupancy sensors can be installed in cabins and spaces where continuous lighting is not required.
- Sticker to SWITCH OFF LIGHT and SAVE ENERGY to be displayed.
- Regular cleaning of light fixtures to be done to get maximum lux level.





LED Lights



## Chapter 04: Air Conditioning

Split, Window and Tower ACs are used in facility for air conditioning. Following is the list of ACs present in the campus:

| Block                | Room                   | Types of AC | Qty. | Capacity in Ton | Whether any Star rating Available | Set Temperature | Running Hours | Whether AC performance is Satisfactory (Yes/No) |
|----------------------|------------------------|-------------|------|-----------------|-----------------------------------|-----------------|---------------|-------------------------------------------------|
| A                    | Auditorium-1           | Split       | 2    | 8T              | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | Auditorium-1           | Split       | 1    | 4T              | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | CP-1, CP-2, CP-3, CP-4 | Window      | 4    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Window                                          |
|                      | CP-1, CP-2, CP-3, CP-4 | Split       | 4    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | Computer Center        | Tower       | 8    | 4.5T            | 3 Star                            | 24              | 4 Hours       | Tower                                           |
|                      | Registrar Office       | Split       | 3    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | IQAC                   | Split       | 2    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | Waiting Room           | Tower       | 2    | 2T              | 3 Star                            | 24              | 4 Hours       | Tower                                           |
|                      | Board Room             | Tower       | 2    | 2T              | 3 Star                            | 24              | 4 Hours       | Tower                                           |
|                      | PA Room                | Tower       | 1    | 2T              | 3 Star                            | 24              | 4 Hours       | Tower                                           |
|                      | OP Sir                 | Tower       | 1    | 2T              | 3 Star                            | 24              | 4 Hours       | Tower                                           |
|                      | Amit Sir               | Tower       | 1    | 2T              | 3 Star                            | 24              | 4 Hours       | Tower                                           |
|                      | Arpit Sir              | Tower       | 1    | 2T              | 3 Star                            | 24              | 4 Hours       | Tower                                           |
|                      | Staff Room 1, FF       | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | Staff Room 2, FF       | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | Staff Room 3, SF       | Split       | 3    | 2T              | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | HR Room                | Split       | 3    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | Accounts Office        | Split       | 3    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | IBM Lab                | Split       | 4    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | Bathroom-5             | Window      | 2    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Window                                          |
|                      | OS Office              | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
| B Block Basement     | BLG-02, HOD            | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | BLG-08, CP Lab         | Window      | 2    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Window                                          |
| B Block Ground Floor | BG-02, Staff Room      | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | BG-09, CP Lab          | Split       | 2    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | BG-17, Staff Room      | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | BG-18, HoD Room        | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |
|                      | BG-20, Dispensary      | Split       | 1    | 1.5T            | 3 Star                            | 24              | 4 Hours       | Split                                           |



|                               |                        |                     |   |      |        |    |         |                     |
|-------------------------------|------------------------|---------------------|---|------|--------|----|---------|---------------------|
| <b>B Block First Floor</b>    | BF-03, Lab             | Window              | 1 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | BF-08, CP Lab          | Window              | 2 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | BF-15, Staff Room      | Split               | 2 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | BF-19, Staff Room      | Window              | 1 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
| <b>B Block Second Floor</b>   | BS-02, Staff Room      | Window              | 1 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | BS-03, Staff Room      | Window              | 1 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | BS-07, Exam Room       | 1 Split<br>1 Window | 2 | 1.5T | 3 Star | 24 | 4 Hours | 1 Split<br>1 Window |
|                               | BS-13, CP Lab          | Window              | 2 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | BS-14, CP Lab          | Window              | 2 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
| <b>B Block Third Floor</b>    | BT-08, HoD Room        | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | BT-20, HOD Room        | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
| <b>C-Level-2 Ground Floor</b> | CG-02 VC Sir           | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CG-03 Sr. Advisor      | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CG-07 Staff Room       | Split               | 4 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CG-10 Placement        | Split               | 5 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CG-12 CP Lab           | Window              | 2 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | CG-13 Staff Room       | Split               | 3 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CG-14 Chemistry Lab    | Split               | 2 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CG-15 Staff Room       | Split               | 2 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CG-19 Staff Room       | Split               | 3 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
| <b>C-Level-4 Second Floor</b> | CG-20 Chemistry lab    | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CS-01 Seminar Hall     | Split               | 4 | 2T   | 3 Star | 24 | 4 Hours | Split               |
|                               | CS-02 TR               | Split               | 1 | 1T   | 3 Star | 24 | 4 Hours | Split               |
|                               | CS-12 CP Lab           | Window              | 2 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | CS-15 Staff Room       | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CS-16 Staff Room       | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CS-21 CP Lab           | Window              | 2 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | CS-22 CP Lab           | Window              | 2 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
| <b>C-Level-5 Third Floor</b>  | CS-23 CP Lab           | Window              | 1 | 1.5T | 3 Star | 24 | 4 Hours | Window              |
|                               | CT-01 Seminar Hall     | Split               | 4 | 2T   | 3 Star | 24 | 4 Hours | Split               |
|                               | CT-03 CP Lab           | Split               | 2 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CT-09 CP Lab           | Split               | 2 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
|                               | CT-10 HoD IT           | Split               | 1 | 1.5T | 3 Star | 24 | 4 Hours | Split               |
| <b>C-Level-5 Third Floor</b>  | CT-15 CR Staff Room IT | Split               | 3 | 1.5T | 3 Star | 24 | 4 Hours | Split               |



|                      |                        |       |    |                              |        |    |         |       |
|----------------------|------------------------|-------|----|------------------------------|--------|----|---------|-------|
|                      | CT-18 CR CP Lab        | Split | 2  | 2T                           | 3 Star | 24 | 4 Hours | Split |
|                      | CT-19 Staff Room       | Split | 3  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | CT-20 Chemistry Lab    | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
| Central Library      | Central Library        | Split | 4  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      |                        | Tower | 14 | 2T                           | 3 Star | 24 | 4 Hours | Tower |
| D Block Ground Floor | Admission Room DG-02   | Split | 4  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Auditorium             | Split | 6  | 1.5T (3)<br>22T(2)<br>11T(1) | 3 Star | 24 | 4 Hours | Split |
| D Block First Floor  | Conference Room DF-04  | Split | 4  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DF-03 LT               | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DF-08 CP LAB           | Split | 4  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | JIC                    | Split | 5  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DF-06, Lab             | Split | 4  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DF-07, Seminar Room    | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DS-05, LT              | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DS-03, LT              | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DS-01, LT              | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DS-12, Staff Room      | Split | 4  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DS-11, CP Lab          | Split | 4  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
| D Block Third Floor  | DT-05, LT              | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DT-03, LT              | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | DT-01, LT              | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Mechanical Staff Room  | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
| E Block              | SDO office             | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Meeting Room           | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Pranshu Sharma         | Split | 2  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Priyanka Shukla        | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Jatin and Vipul        | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Meeting Room           | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Sonia Madam            | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Student Meeting Room-1 | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Student Meeting Room-2 | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |
|                      | Dance Room             | Split | 1  | 1.5T                         | 3 Star | 24 | 4 Hours | Split |



|                     |                  |       |    |      |        |    |         |       |
|---------------------|------------------|-------|----|------|--------|----|---------|-------|
|                     | Music Room       | Split | 1  | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Canteen Area     | Split | 6  | 1.5T | 3 Star | 24 | 4 Hours | Split |
| <b>Hostel -1</b>    | Office           | Split | 1  | 1.5T | 3 Star | 24 | 4 Hours | Split |
| <b>Hostel -2</b>    | Office           | Split | 1  | 1.5T | 3 Star | 24 | 4 Hours | Split |
| <b>Girls Hostel</b> | Office           | Split | 1  | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Student Rooms-55 | Split | 55 | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Guest Room       | Split | 1  | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Warden Room      | Split | 1  | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Dinning Hall     | Split | 6  | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Common Room      | Split | 3  | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Visitor Room     | Split | 1  | 1.5T | 3 Star | 24 | 4 Hours | Split |
|                     | Room-3           | Split | 3  | 1.5T | 3 Star | 24 | 4 Hours | Split |

### Observation:

- The facility is equipped with split, tower and window air conditioners, all of which are rated with a 3-star energy efficiency rating. This ensures optimal cooling performance while minimizing energy consumption.
- All air conditioners are in proper working condition and have been well-maintained, ensuring efficient performance and reliable operation throughout the facility.
- Periodic servicing and thorough cleaning of air conditioner filters are regularly conducted to maintain optimal performance, improve air quality, and enhance energy efficiency.

### Recommendation:

- All doors should be kept closed while the air conditioners are in use to ensure optimal cooling efficiency. Additionally, an annual service for the air conditioners should be conducted regularly to maintain their performance and longevity.
- The air conditioner temperature should be set and maintained at 26°C to optimize energy efficiency while ensuring a comfortable indoor environment.
- A reduction of just 1°C in the set temperature can lead to a 5% decrease in energy costs. By strategically adjusting the temperature settings according to seasonal requirements and specific area needs, significant savings on power consumption can be achieved, contributing to overall energy efficiency.



- In the future, when air conditioners need to be replaced, BEE 5-star rated air conditioners shall be considered, as they are highly energy-efficient and will further contribute to reducing energy consumption and operational costs.
- The use of AC energy savers can be considered for air conditioners that operate for more than 10 hours, as these devices help optimize energy consumption and improve overall efficiency during extended usage.



Split Air Conditioners



## Chapter 05: Pumps and Motors

Pump is generally used for pumping of ground water to the water tank. The details of the pumps are given below:

| Name of Pump and make | Running Hours | Rated Capacity in KW | RPM  |
|-----------------------|---------------|----------------------|------|
| Submersible Pump      | 18 Hr / Day   | 5 HP                 | -    |
| Submersible Pump      | 12 Hr / Day   | 5 HP                 | -    |
| Water Pump            | 15 Hr / Day   | 5 HP                 | -    |
| Water Pump            | 07Hr / Day    | 3 HP                 | -    |
| MUD Pump (12 Nos.)    | -             | 10 HP                | 2700 |

### Observation:

- The condition of the pumps is satisfactory, and they are being well-maintained to ensure reliable and efficient operation when needed.

### Recommendation:

- Proper maintenance and regular upkeep of pumps, motors, and associated panels should be carried out to ensure optimal performance, longevity, and reliability of the equipment.
- The management should consider replacing the old pumps with energy-efficient, 5-star rated pumps to enhance operational efficiency and reduce energy consumption, contributing to long-term cost savings and sustainability.







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## Conclusion

The energy audit performed at Jaipur Engineering College and Research Centre showcased commendable efforts towards sustainability within the college. The replacement of conventional lights with energy-efficient LED alternatives marks a significant stride in reducing energy consumption. Additionally, the integration of a fully functional 400 KW solar plant and solar water heater system underscores the commitment to renewable energy sources.

Despite these advancements, there remains untapped potential for further enhancing energy efficiency. The audit report likely contains specific recommendations aimed at maximizing sustainability efforts. Implementing these suggestions could significantly bolster the college's energy-saving initiatives, continuing the positive trajectory towards a more environmentally conscious campus.

## End of Report



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