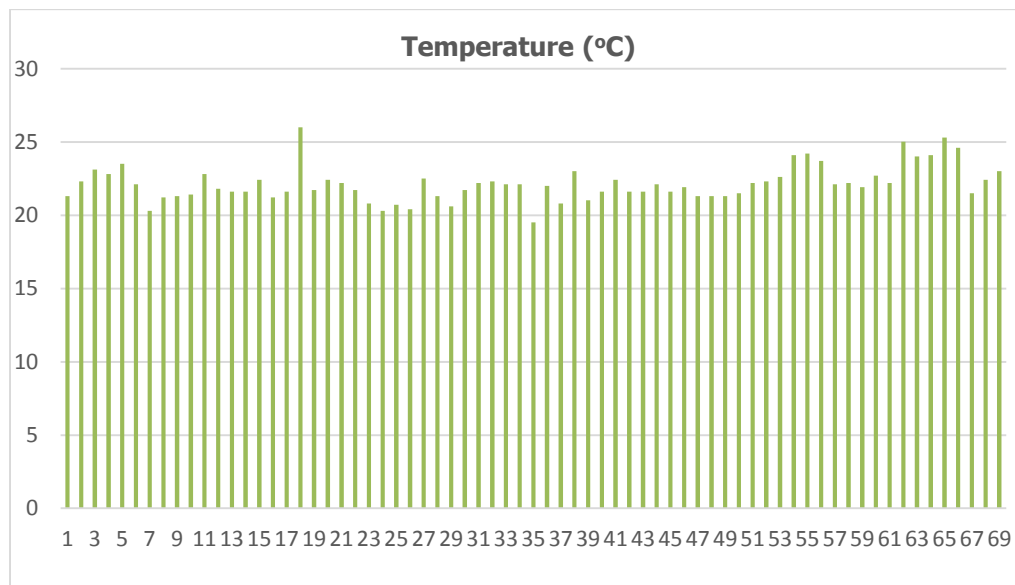


Case Study: **Indoor Air Parameters – Temperature**

SENERGY Consultants (P) Ltd

Background:

While conducting energy audit for the office premise; the temperature was observed to be considerably lower than the general norms (25 °C) at quite a few places.



Scenario:

The system comprised of

- Centralized air conditioning system with Air Handling Units (AHUs) for the individual locations / floors.
- The individual AHU rooms were provided with a thermostatic temperature control, most of which were observed to be set to the lowest possible temperature.
- This led to considerably lower room temperature at quite a few rooms / locations.

Energy Conservation Measures:

The above concerns and issues were addressed by taking the following measures.

- Readjusting the set point to 25 °C.
- Repairing / replacing the faulty temperature controllers / control valves on the chilled water line

Outcome:

- The energy consumption of the refrigeration compressor reduced by around 10%; leading to 5% saving in the overall energy costs.

SCPL-CS-19

Helping You to Conserve Resources

3, Aastha II, Opposite Lakme Ltd, B K S Devashi Road, Govandi East, Mumbai 400 088, India.

Phone: ++91 22 2555 3297

Email: senergy@vsnl.com

Website: <http://www.senergy-india.com>