

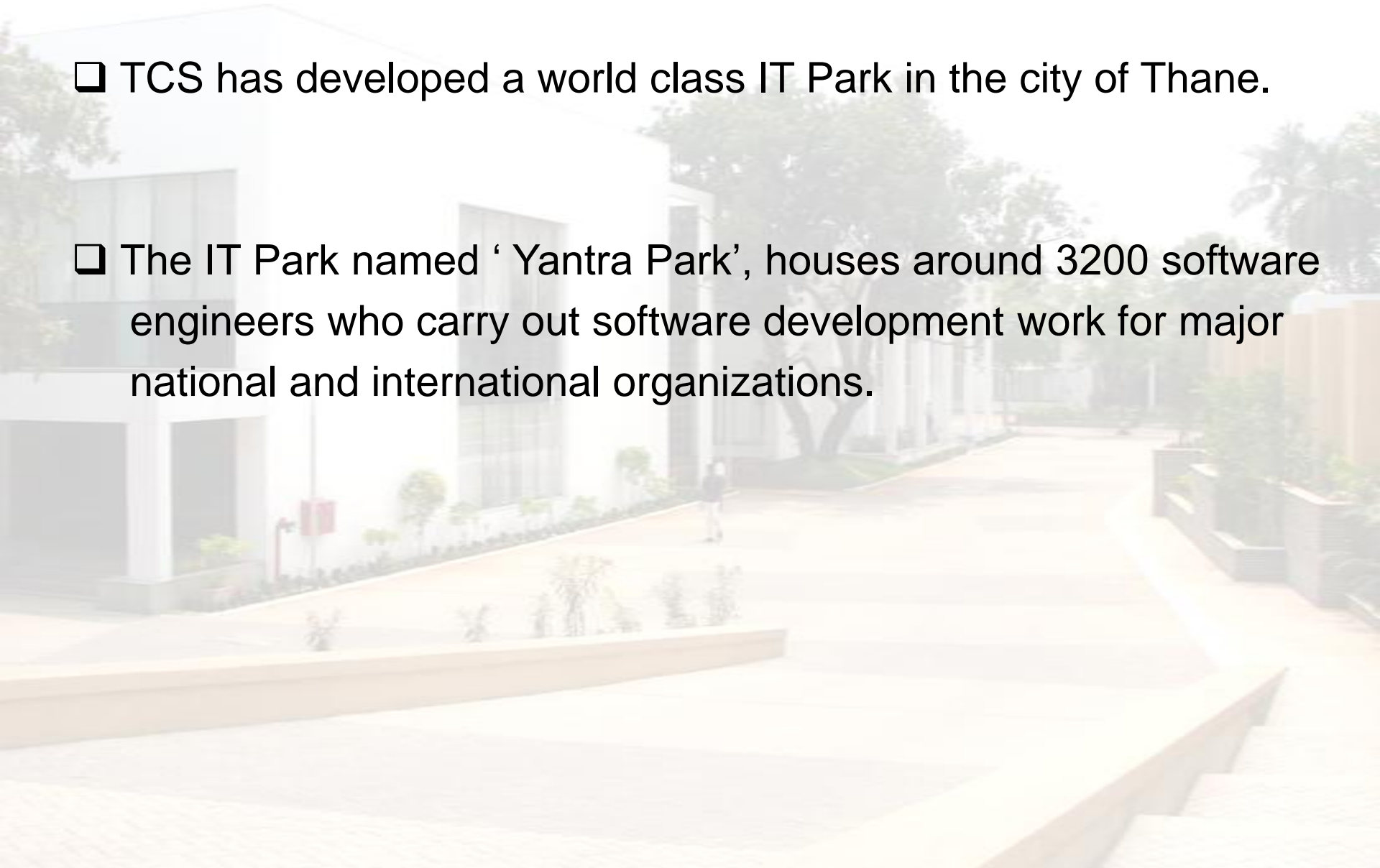
# YANTRA PARK THANE



ISO 14001 Certified

# About Yantra Park Campus

- ❑ TCS has developed a world class IT Park in the city of Thane.
- ❑ The IT Park named ' Yantra Park', houses around 3200 software engineers who carry out software development work for major national and international organizations.



# Details of Campus

Campus area :13.5 acres.

Number of Facilities :10

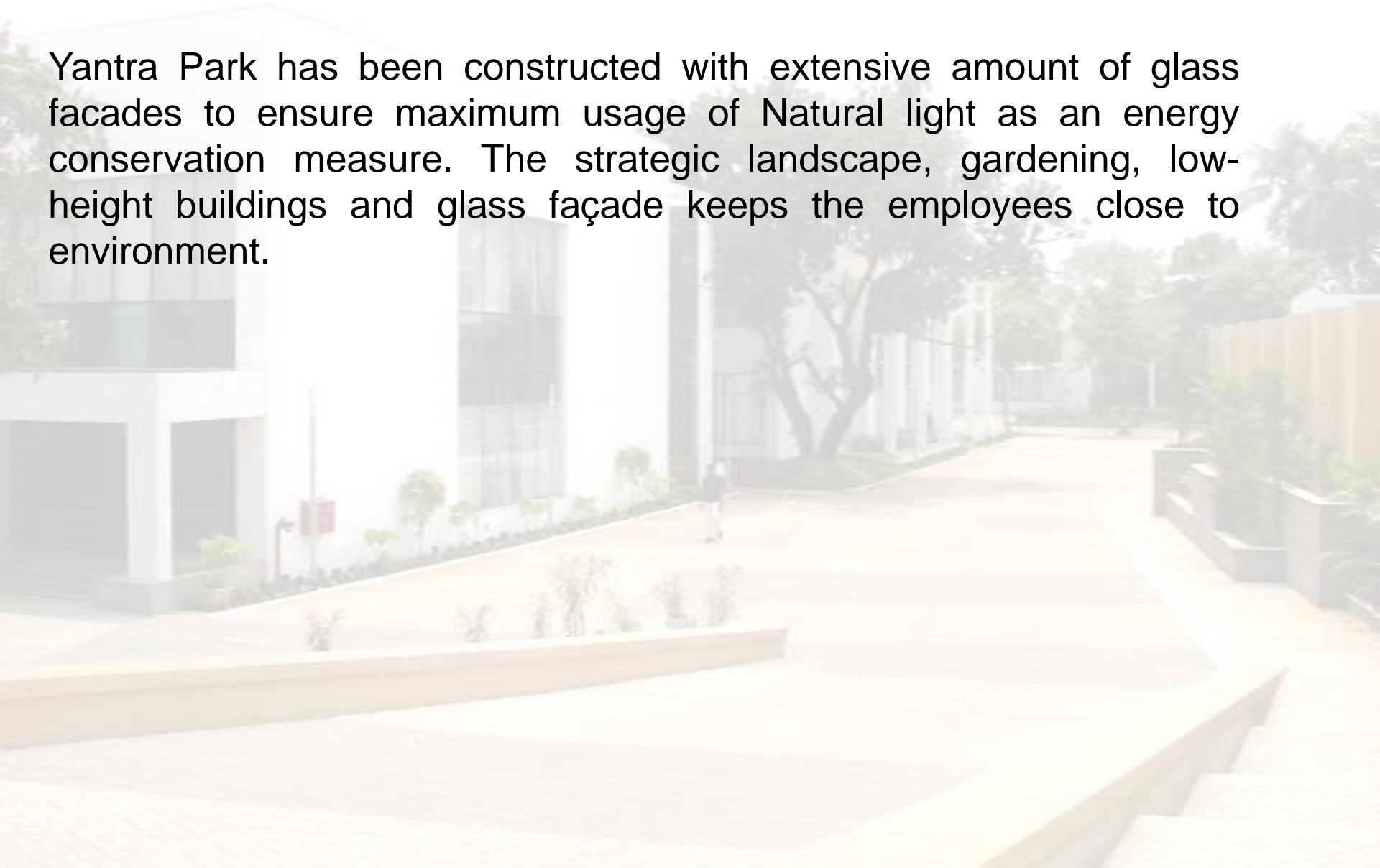
Total Built up Area :400,000 sq.ft

Average daily strength : 3500



## Low height Buildings and glass façades:-

Yantra Park has been constructed with extensive amount of glass facades to ensure maximum usage of Natural light as an energy conservation measure. The strategic landscape, gardening, low-height buildings and glass façade keeps the employees close to environment.



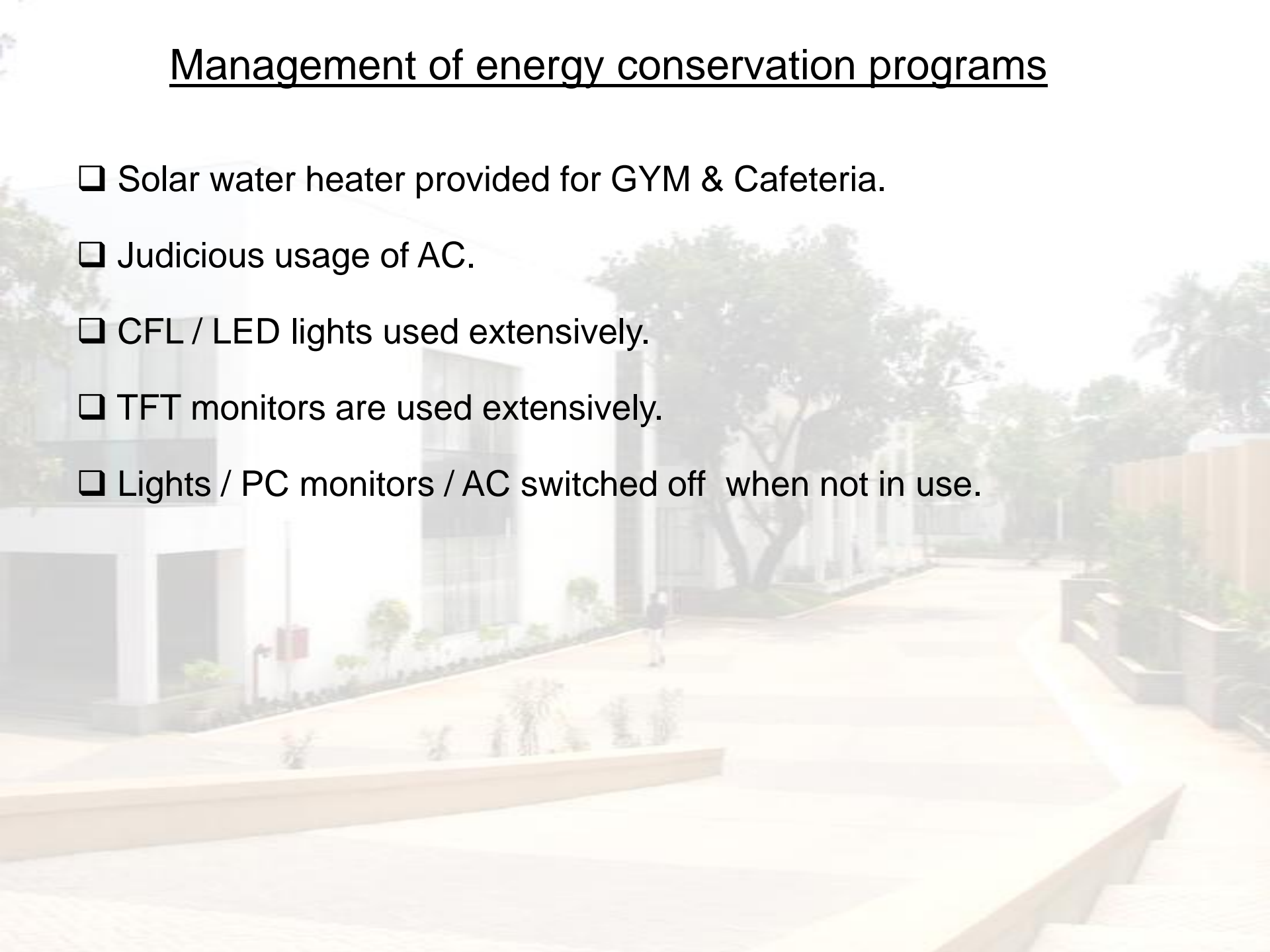


# Management of energy conservation programs.

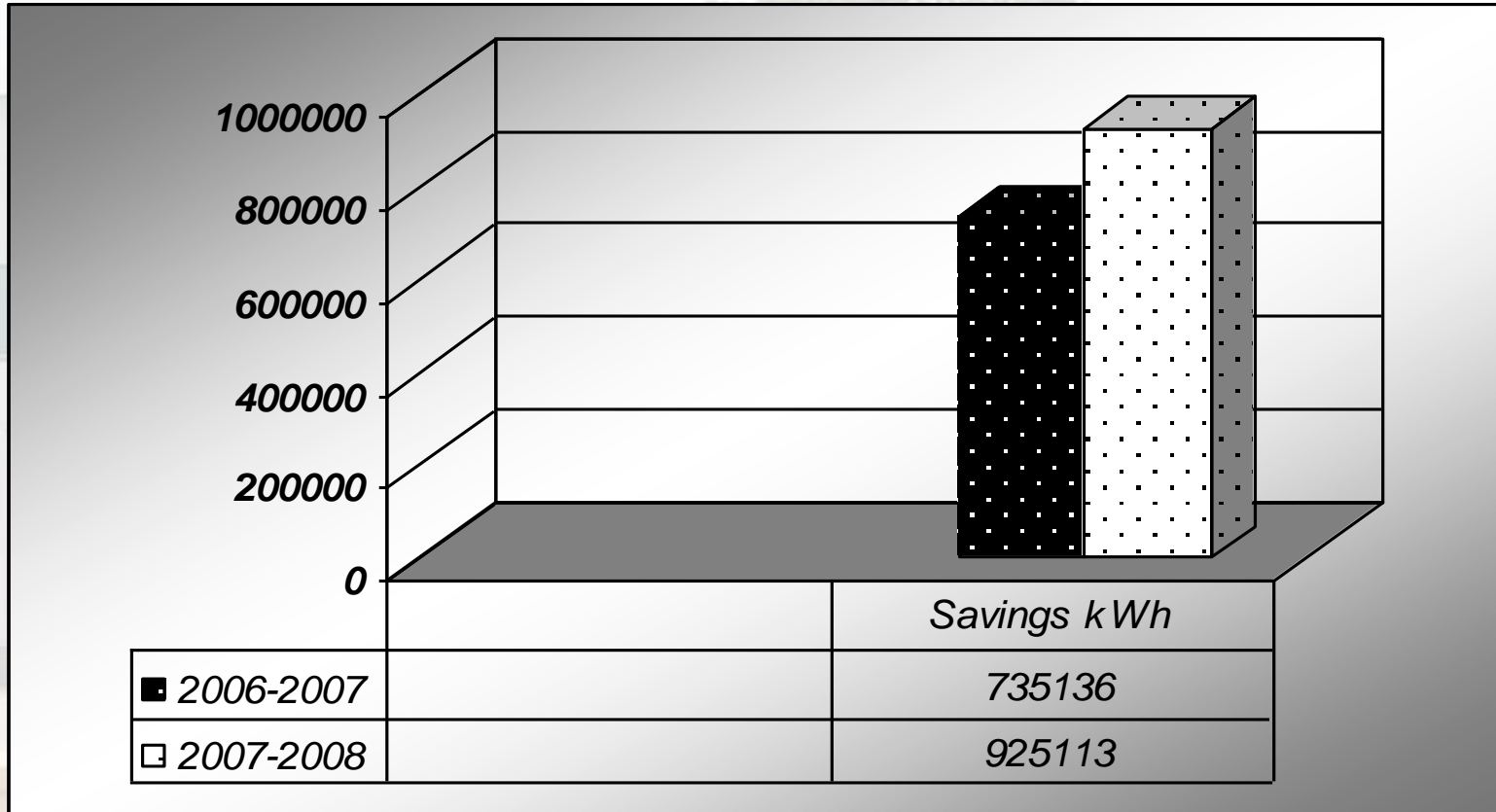
- ❑ Natural lighting used inside the Software development centers (approx. 2.25 lakhs sq.ft) during day time.
- ❑ Operation of A/c plant is managed to optimally utilize non- peak hours benefits which also ensures minimal loading on the electrical grid.
- ❑ BMS in place to control usage of A/Cs.
- ❑ Intelligent lighting system installed in Server rooms & Conference rooms.
- ❑ VFDs installed to control power consumption of AHUs.

# Management of energy conservation programs

- Solar water heater provided for GYM & Cafeteria.
- Judicious usage of AC.
- CFL / LED lights used extensively.
- TFT monitors are used extensively.
- Lights / PC monitors / AC switched off when not in use.

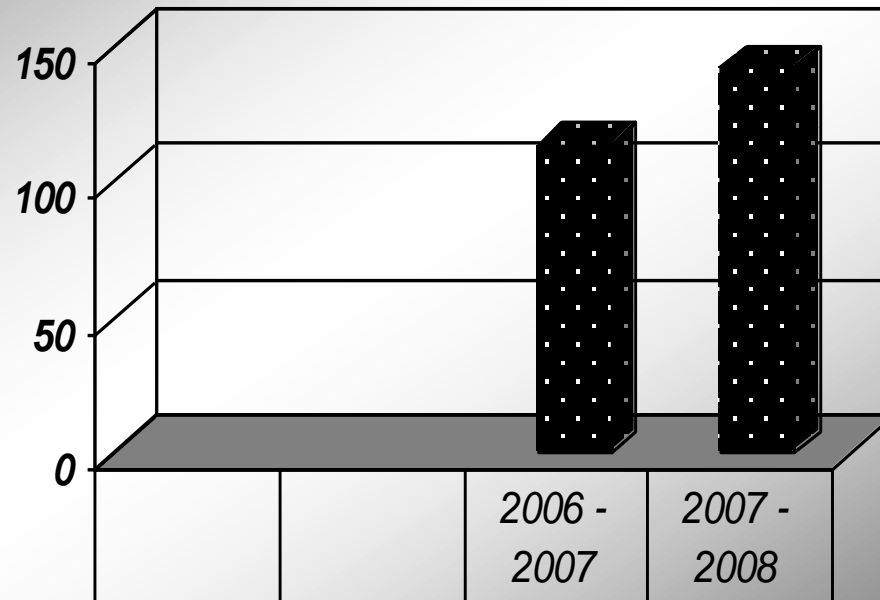


# Energy savings



# Investment made

Investment incurred on the project (Rs. Lakhs)

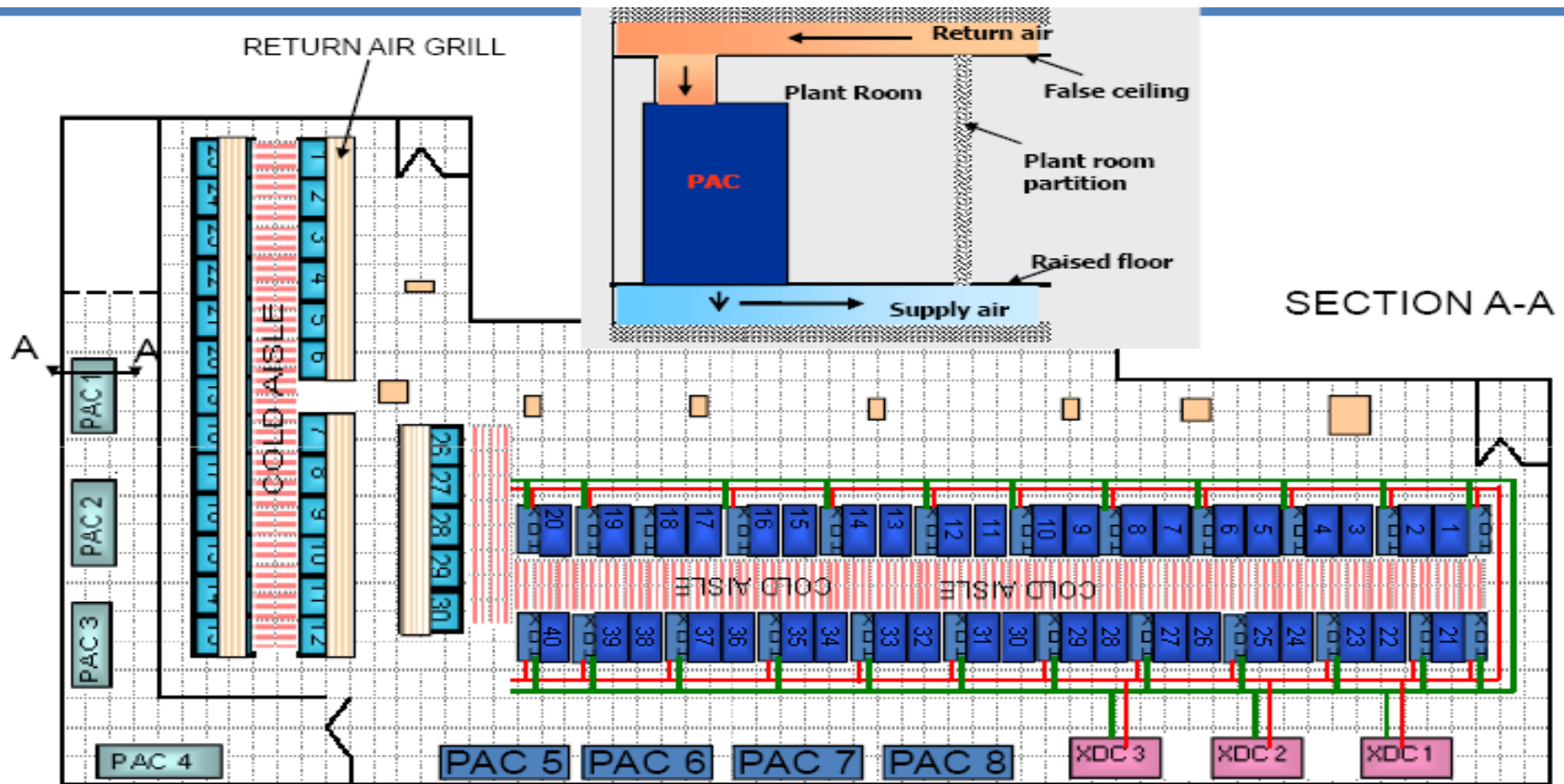


■ Investment incurred on the project (Rs. Lakhs)

113.7

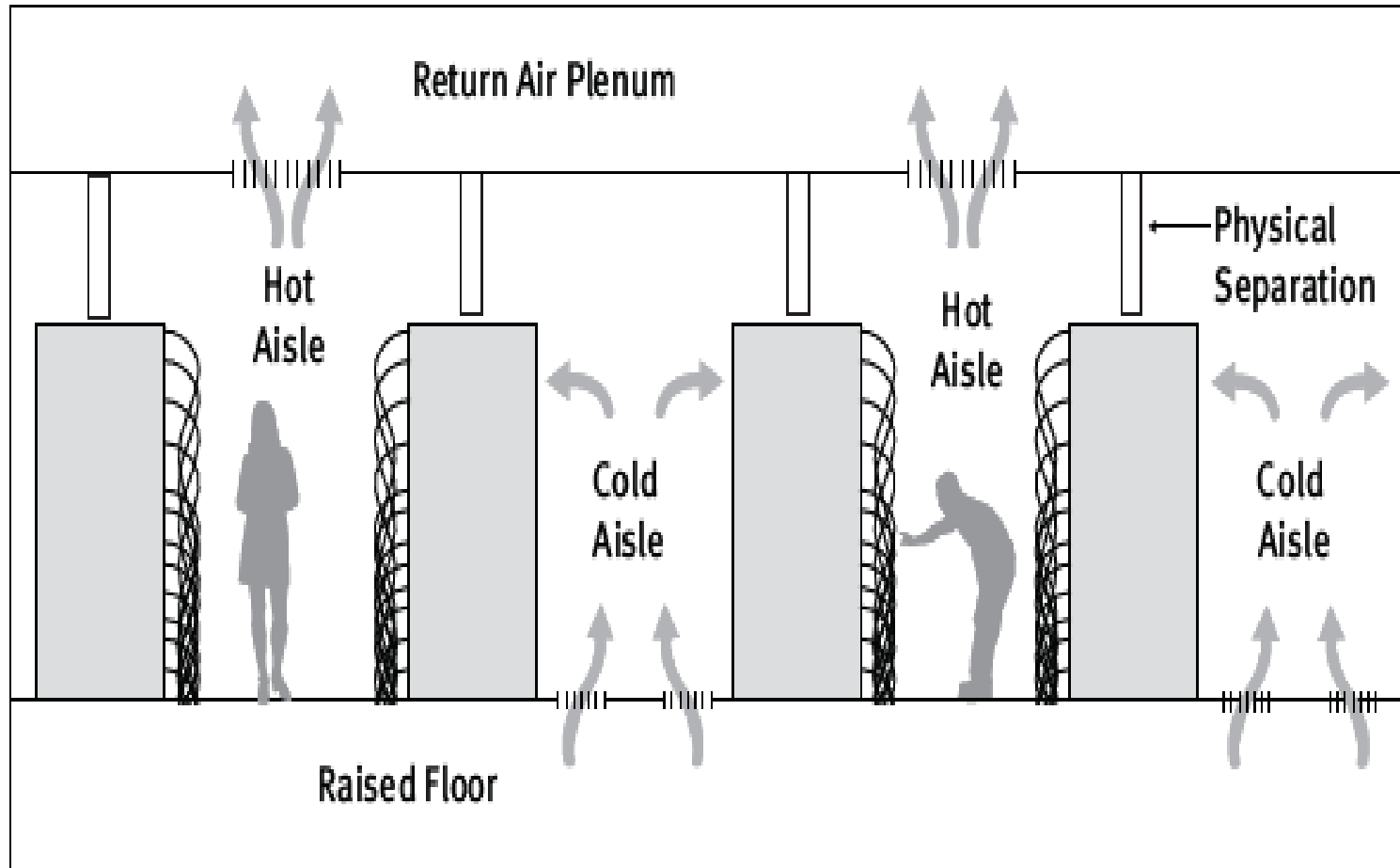
142.7

# Recent Initiatives for energy conservation at our Data Center ( 2008-09 )



- ❑ New cabling architecture expected to reduce power consumption by 10-15%.
- ❑ Hot / Cold Aisles incorporated towards reducing cooling power consumption ( approx. 15 - 20%).

# Typical data center layout with hot / cold aisle isolation.



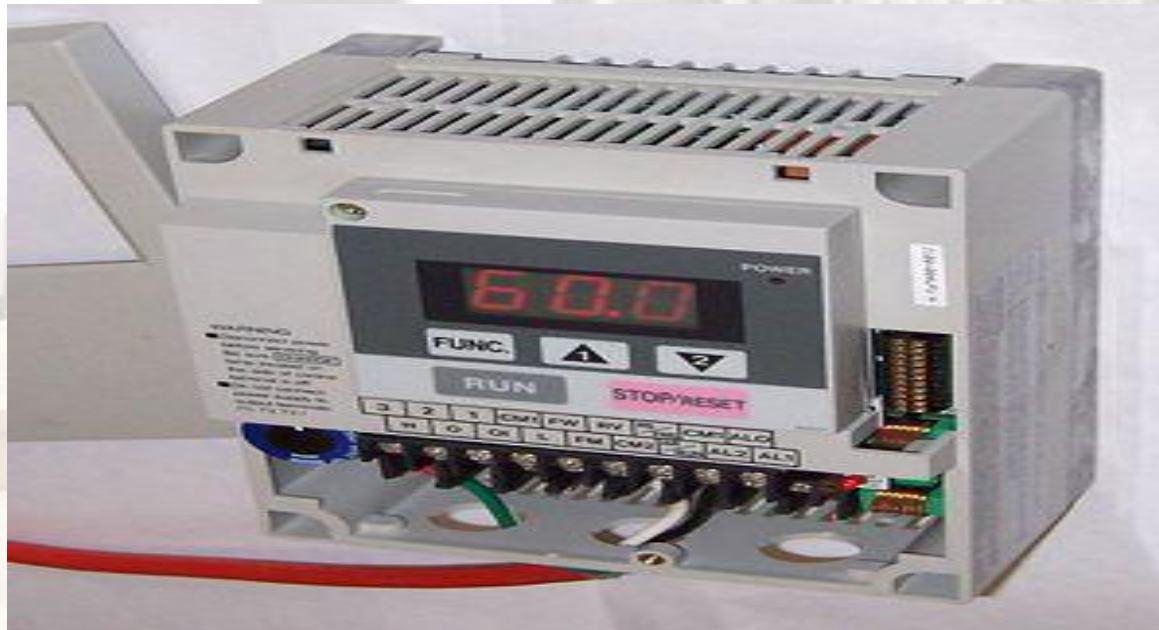
## **New technologies employed / use of renewable energy sources.**

LED Lighting Systems are utilized at the periphery and outdoor lightings purpose. This enables power conservation.



# New technologies employed / use of renewable energy sources.

Adding a variable frequency drive (VFD) to a motor-driven system can offer potential energy savings in a system in which the loads vary with time. VFDs belong to a group of equipment called adjustable speed drives or variable speed drives. The operating speed of a motor connected to a VFD is varied by changing the frequency of the motor supply voltage. This allows continuous process speed control.



# New technologies employed / use of renewable energy sources.

**Solar water heater of 3000 LPD installed.**



# New technologies employed / use of renewable energy sources.

**Bio- digester plant of one ton capacity has been installed.**



## Other Initiatives..

### Rain water harvesting

- ❑ Recharging 2 crores of liters of water through storm water drain chambers & gate trench.
- ❑ 1,60,000 litres of roof top water diverted to bore well.



# Awareness creation amongst employees

- During induction.
- Floor meetings.
- Poster campaign
- Internal publications / media.
- Training sessions.
- Lectures by internal / external experts.

# Recognition

- ISO 14001 certified center.**
- Awarded first prize in garden competition (above 1 acre land) organised by Thane Municipal Corporation for 2008.**
- Received Golden Peacock Environment Management award for 2008.**

