





### Introduction

- •Green Building is also known as sustainable building.
- A Green Building is one which uses less water, optimizes energy efficiency, conserves natural resources, generates less waste and provides healthier space for occupants as compared to conventional building.



# **Objectives**

- Low Impacts Minimize impact on natural environment.
- Energy Efficient Reduce Energy usage Water usage.
- Healthy Protect occupant health and increase productivity.
- Minimize waste Designed and constructed in a manner that minimizes waste, pollution, and environmental degradation.

## **Benefits of Green Building**



- Enhance and protect the biodiversity ecosystem
- Conserve and restore natural resources
- Improve air and water quality
- Reduce waste streams

Economic

- Optimize life-cycle economic
- Improve occupant productivity
- Reduce operating costs

Social

- Enhance occupant comfort and health
- Minimize strain on local infrastructure
- Improve overall quality of life
- Heighten aesthetic qualities

## Merits and Demerits of Green Building

#### **MERITS**

- Economical benifits by saving costs
- Easier maintenance
- Energy efficiency
- Water efficiency
- Waste reduction
- Temperature moderation

#### **DEMERITS**

- Initial cost is high
- Availability of materials
- Need more time to construct
- Need skilled worker



# Indian Green Building Council (IGBC)

- •The Indian Green Building Council (IGBC) was formed in the year 2001 by Confederation of Indian Industry (CII).
- •The aim of the council is to bring green building movement in India and facilitate India to become one of the global leaders in green building by 2015.

# **IGBC** Rating System



LEED Certified
Rating 40-49 points



LEED Silver
Rating 50-59 points

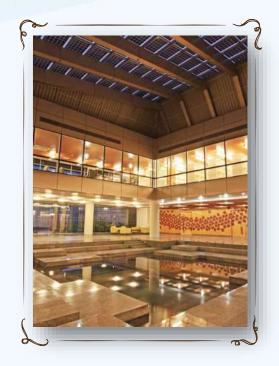


LEED Gold
Rating 60-79 points



LEED Platinium
Rating 80+ points

## Green Building Projects in India



**Suzlon Energy Limited, Pune:** 

PLATINUM rated largest green building in India by LEED.



Nokia-Gurgaon:

GOLD rated building by LEED.



Rajiv Gandhi
International
Airport-Hyderabad:

SILVER rated first airport in asia by LEED

