

INTRODUCTION TO GREEN BUILDINGS



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Green Building

" A green building is one which ...

- ⊙ Uses less water
- ⊙ Optimizes energy efficiency
- ⊙ Conserves natural resources
- ⊙ Generates less waste
- ⊙ Provides healthier spaces for occupants

.....as compared to a conventional building."

Certification Programs in India

LEED

LEED NC

LEED CS

LEED CI

LEED O&M

IGBC

IGBC Green NB

IGBC Green Homes

IGBC Green Factory

IGBC Green Township

IGBC Green SEZ

IGBC Green Existing Buildings

IGBC Green Landscape

IGBC Green MRT

GRIHA

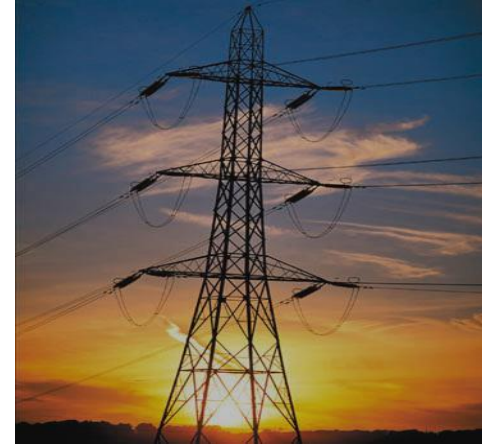
GRIHA

SVA-Griha

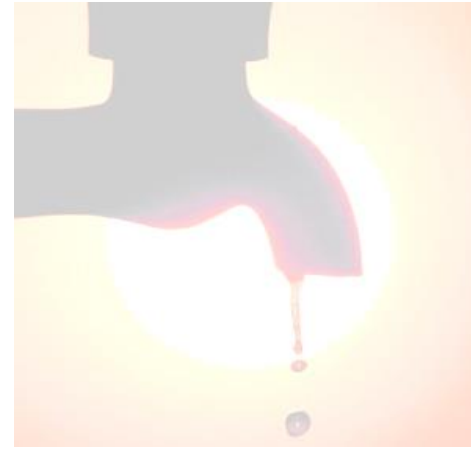
GRIHA LD

GRIHA Prakruti

Issues Addressed



Sustainable Sites



Erosion & Sedimentation Control

Natural Topography

Heat Island Effect

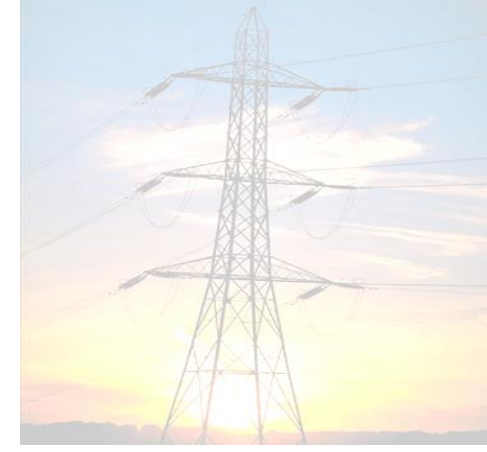
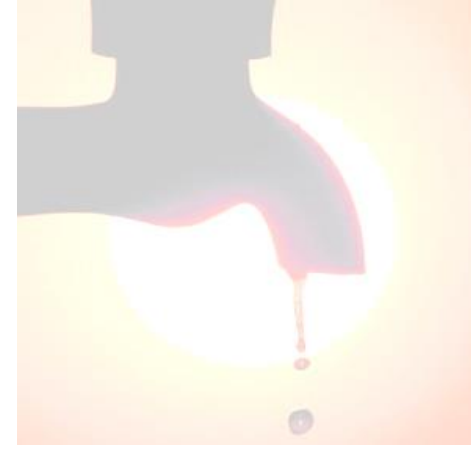
Parking Facility for Visitors

Electrical Charging Facility

Design for Physically Challenged

Facilities for Construction Workforce

Material & Resources



Separation of Waste

Organic Waste Management

Construction Waste Management

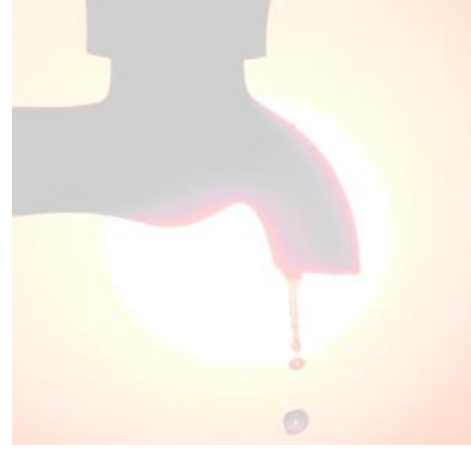
Reuse of Salvaged Material

Recycled Content

Regional Materials

Rapidly Renewable Materials

Indoor Environmental Quality



No Smoking

Maximum Daylight

Fresh Air Ventilation

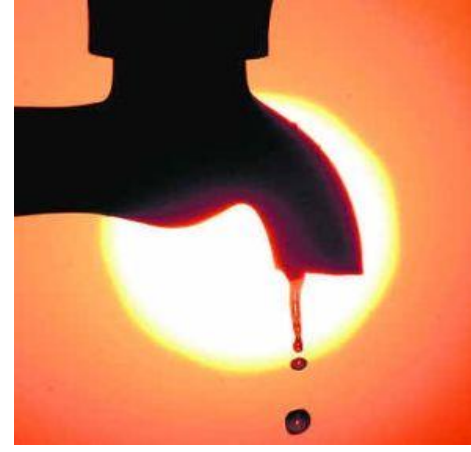
Adequate Exhaust

Low VOC Products

Building Flush Out

Cross Ventilation

Water Efficiency



Rain Water Harvesting

Landscape Design

Water Efficient Fixtures

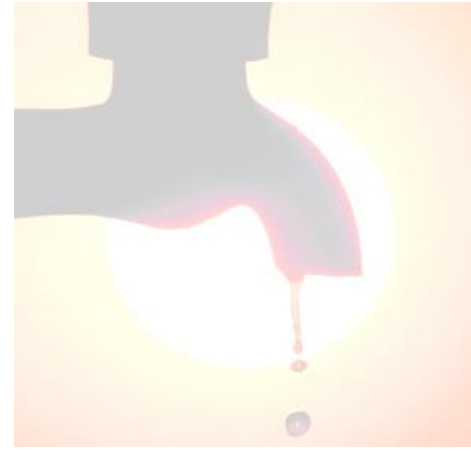
Management of Irrigation Systems

Waste Water Treatment

Reuse of Treated Water

Water Metering

Energy & Atmosphere



CFC Free Equipment

Maximum Energy Efficiency

On-site Renewable Energy

Solar Water Heating

ECM's in Equipments

Distributed Power Generation

Energy Metering



It's not only about
designing a green building,
it's all about
building a green community....

THANK YOU