

# **Green Building Rating Tools in India**

**5 May 2010**



# CII – Sohrabji Godrej Green Business Centre, Hyderabad

## A unique Public – Private Partnership

( CII, Govt of Andhra Pradesh, USAID and Pirojsha Godrej Foundation )



Centre of “Excellence” for Energy, Environment, Green Buildings,  
Renewable energy, Water & Climate change activities in India

# IGBC Rating systems

- ❖ **Voluntary, Consensus-based, Market driven**
- ❖ **Based on professional reference standards like NBC, ASHRAE, ECBC, etc.,**
  - **Did not reinvent the wheel**

# IGBC Rating systems

- ❖ **LEED India rating system**
  - **Indigenized**
  - **Refers local standards / norms**
- ❖ **National Building Codes (NBC) guidelines for :**
  - **Erosion & sedimentation control**
  - **Rain water harvesting**
  - **Safety for workmen during construction, etc.,**
- ❖ **Energy Conservation Building Code (ECBC) 2007**
- ❖ **MoEF guidelines**
- ❖ **Wild Life Institute of India, Dehradun**
  - **Endangered species**
- ❖ **Environmental Information System (ENVIS)**
  - **Wetlands preservation**
- ❖ **Wherever local codes / standards available – Global standards / codes considered**

# Green Building Rating System – Focus areas

❖ **IGBC, a whole-building approach to sustainability by recognizing performance in five key areas**



**Sustainable Sites**



**Water efficiency**



**Energy & Atmosphere**



**Material & Resources**



**Indoor Environmental Quality**



# Rediscovery of the Indian ethos

## ❖ 5 elements of Nature (Panchabhutas)

<b>Prithvi (Earth)</b>	<b>Sustainable Sites</b>
<b>Jal (Water)</b>	<b>Water Efficiency</b>
<b>Agni (Fire)</b>	<b>Energy &amp; Atmosphere</b>
<b>Vayu (Air)</b>	<b>Indoor Environmental Quality</b>
<b>Akash (Sky)</b>	<b>Daylight, Night Sky Pollution</b>



# Rating Programmes to Suit Different Building Types

❖ One single rating cannot be applied to suit all building types

❖ Programmes launched

- IGBC Green Homes
- IGBC Green Factory Buildings
- LEED India NC
- LEED India CS

❖ Other Programmes on the anvil

- IGBC Green SEZs \*
- IGBC Green Schools\*
- IGBC Existing Buildings \*
- IGBC Green Cities \*
- IGBC Landscape \*

\* Rating under development



# Project registration

## ❖ Registration using form in IGBC website

➤ [www.igbc.in](http://www.igbc.in)

## ❖ Resources for Registered projects

❑ Free Reference Guide, LEED templates

❑ 2 Free CIRs (Credit Interpretation Ruling)

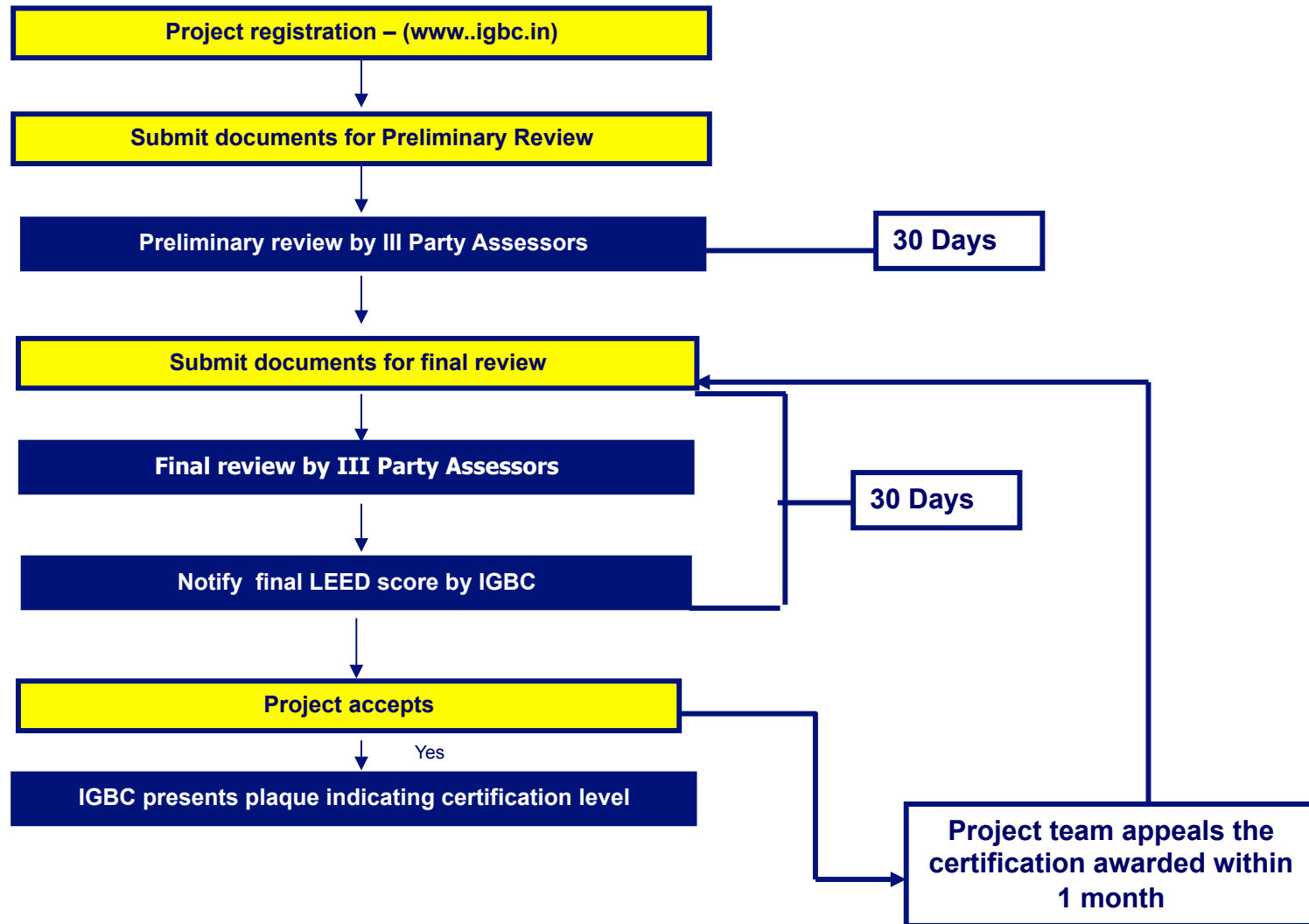
## ❖ When to register

➤ Can register at any stage

❑ Registration at early phase – max. potential for achieving certification



# IGBC Certification Process



# IGBC Accredited Professional Exam

## ❖ Objective

- Recognise holistic understanding of green building concepts
- Meet the demand for qualified Indian Green building professionals

## ❖ On-line Examination

- Launched during September 2009
- 153 professionals



- ❖ **Overview of the tool development process**
- ❖ **Internal IGBC process in selecting LEED for India**
- ❖ **Process for adopting LEED thorough the USGBC**

# IGBC Green Homes Rating System

S No.	Credits	Points for individual homes	Points for multi-dwelling units
	<b>Mandatory requirement</b>	<b>9</b>	<b>9</b>
<b>1</b>	<b>Site Efficiency</b>	<b>8</b>	<b>9</b>
<b>2</b>	<b>Water Efficiency</b>	<b>20</b>	<b>20</b>
<b>3</b>	<b>Energy Efficiency</b>	<b>22</b>	<b>21</b>
<b>4</b>	<b>Materials</b>	<b>13</b>	<b>12</b>
<b>5</b>	<b>Indoor Air Quality</b>	<b>13</b>	<b>9</b>
<b>6</b>	<b>Innovation</b>	<b>4</b>	<b>4</b>
	<b>Total</b>	<b>80</b>	<b>75</b>

**Complying with prerequisites is mandatory for all IGBC Green Homes projects**



A close-up photograph of a peacock's tail feathers, which are fanned out to reveal numerous 'eyes'—circular patterns of blue, green, and gold. The peacock's body is visible in the center, showing a blue neck and a greenish-yellow breast. The text 'Go Green . . . .' is overlaid in white, bold, sans-serif font across the upper portion of the image.

**Go Green . . . .**

**[www.igbc.in](http://www.igbc.in)**