



Ministry of New and  
Renewable Energy, Govt



## GRIHA

### Green Rating for Integrated Habitat Assessment

The greenest possible habitat would strive to achieve the following:

- Have minimum demand for electricity, water, and other natural resources (in construction, operation, and demolition)
- Generate all its electricity on site through renewable means
- Strive to cater to all its water demands through sustainable processes such as rainwater harvesting
- Recycle and reuse all its waste on site and load the environment to the minimum.

#### Can you design and build a green building?

Yes, you can easily design a green building. In fact all our traditional and regional buildings were 'green'. By integrating resource-efficient features into a building's design from the pre-design stage itself, and by ensuring that the architects, engineers, and contractors follow established environmental principles addressing local needs - designing a green building is easy and fun, and **may cost lesser than a conventional building.**

#### Does a green building cost more to make?

Only if it is designed as a fully air-conditioned building, with extensive technological interventions.

Even then in case the requirements for technological interventions do surface, you may rest assured that the investment shall pay back in a relatively short period of time.

One can expect enough savings in the energy bills of a building as to payback the initial investment within a span of half a year to five years. Of course the length of the payback period depends on the size and nature of the technology deployed.

#### What is GRIHA?

It is India's National Rating System for Green buildings. It has been developed by TERI (The Energy and Resources Institute) and MNRE (Ministry of New and Renewable Energy).

It is based on nationally accepted energy and environmental principles, and seeks to strike a balance between established practices and emerging concepts, both national and international.



The Doon School: Art School, Main field Master's house (5 numbers) and Hathikhana Master's Houses (5 numbers) - Two Star TERI GRIHA Rated Buildings



Suzlon - One Earth, Pune - Five Star GRIHA Rated Building



Police Training School, Turchi, Tasgaon - Four Star GRIHA Rated Building





GRIHA attempts to minimize a building's resource consumption, waste generation, and overall ecological/environmental impact by comparing them to certain nationally acceptable limits / benchmarks.

GRIHA assesses a building out of 34 criteria and awards points on a scale of 100.

In order to qualify for GRIHA certification, a project must achieve at least 50 points. Certain criteria / points are mandatory and have to be complied for the project to be eligible for rating.

The registration fee can be calculated based on the following formula:

<5000 m <sup>2</sup>	Rs. 3,14,000 [Rupees three lakh and fourteen thousand only] + Service Tax
>5000 m <sup>2</sup>	(Rs. 3,14,000) + (Rs. 3.75 per m <sup>2</sup> above 5000) [Rupees three lakh and fourteen thousand, plus Rupees three and seventy five paise per square meter over 5000] + Service Tax

(\*Excluding basements)

#### Project scoring

- 50-60 points is certified as a 1 star GRIHA rated building,
- 61-70 is a 2 star GRIHA rated building,
- 71-80 is a 3 star GRIHA rating building,
- 81-90 is a 4 star GRIHA rated building, and
- 91-100 is a 5 star GRIHA rated building.

#### Who administers GRIHA?

ADaRSH is a non-profit, independent society registered under the Societies Act and is the body responsible for administering and giving GRIHA rating to the projects that register under the system.

### ACTIVITIES AND ACHIEVEMENTS

#### National Conference on Green Design 2012

Launch of SVAGRIHA Manual . Over 450 Participants  
Sponsors & Exhibitors . Eminent National & International Speakers

#### Guidelines for Large Developments

Guidelines and Benchmarks for Green Large Area Developments

#### Fast Track Environmental Clearance

Fast track environmental clearance through GRIHA pre-certification

#### TERI GRIHA / GRIHA Rated Projects

IIT Kanpur . Hindustan Unilever Limited Mumbai  
Doon School Dehradun . S P Infocity New Delhi  
Police Training School Tasgaon . Fortis Hospital Delhi Common  
Wealth Games Village New Delhi . Suzlon Pune

#### GRIHA Product Catalogue

Portal to access information for green building products for GRIHA and SVAGRIHA rating

#### MoU of ADaRSH with PCMC and CREDAI

MoU with Pimpri-Chinchwad Municipal Corporation, MoU with Confederation of Real Estate Developers' Associations of India

#### SVAGRIHA

Small Versatile Affordable GRIHA (Built up area less than 2500 Sqm)

#### Associate Members

HIRCO . K Raheja . Lloyd Insulation . Magarpatta City . MARG  
Pilkington . Synefra . Saint Gobain . Wipro . ITC Limited . Philips India  
Feneste Eodogie . Technofam Bautech India . Emerean Climate  
Technologies . HIC Limited . Asahi India Limited

#### Registered Projects

272 Registered Projects . 9 Million Sqm GRIHA Footprint

#### Training Programmes

Over 50 training programmes, 10,000 Professionals trained  
298 GRIHA Evaluators . 282 GRIHA Trainers

### CONTACT DETAILS

#### ADaRSH (GRIHA Secretariat)

#### Association for Development and Research of Sustainable Habitats

A-260 • Bhisham Pitamah Marg • Defence Colony • New Delhi - 110024 • India

Phone: 91.11.46444500, 91.11.24339606 - 08 • Fax: 91.11.24339609 • E-mail: info@grihaindia.org

#### MNRE

#### Ministry of New and Renewable Energy

Block-14, CGO Complex, Lodhi Road, New Delhi-110 003 • India

Website: [www.grihaindia.org](http://www.grihaindia.org)

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**GRIHA**