

What are Green Buildings?

Any building that is constructed, it adversely impacts the environment. A green building is one that makes minimal impact on the environment. Its design is climate responsive, and utmost care is taken while constructing to preserve the environment. It is operated in such a manner that it utilizes all resources efficiently. Sustainability is not added on to conventional buildings but it lies in the approach of designing, construction, and operation.

Why Green Buildings?

We in India are steering into an era of unprecedented public and private sector development but at significant environmental costs. This massive increase in use of environmental resources has contributed towards climate change. The time has come where we can no longer be deprived of the benefits of green building practices that can reduce the negative impact of construction on our environment.

GRIHA was devised in pursuit of creating sustainable habitat and eliminate adverse impact on environment. We help design buildings and habitats, which are resource efficient throughout their life cycle.

“The earth provides enough to satisfy every man’s needs, but not every man’s greed.”

— Mahatma Gandhi



Ensures health and safety of construction workers on site.



Post occupancy performance audit ensures compliance during operation.



Ensures waste management during construction and operation.

30–40% reduction in operational cost with negligible impact on project cost.



Why Choose GRIHA ?

- GRIHA works on an integrated design principle. We follow a robust process, i.e. handholding, site visits to check implementation, third party assessment, and post construction performance validation.
- We update our guidelines every two years, to match demands of construction industry and the changing market scenario.
- Transparent rating process with complete online documentation and review.

GRIHA Endorsements



National rating system of India by the MNRE in 2007



Innovative region specific-green building assessment tool by United Nations in 2009



India's own green building rating system in INDC submitted to UNFCCC in 2015

GRIHA is mandated for new buildings/campuses being constructed by central government organizations and PSUs since 2009 and following it various states have adopted GRIHA norms. Most of the government buildings in Gujarat, Bihar, and Odisha are implementing GRIHA in their building projects and getting them rated by GRIHA Council. Government of Sikkim was first to mandate a minimum of 3-star GRIHA rating for all the government and semi-government buildings in the state.

We have multiple national and state level codes, norms and standards such as NBC, ECBC, MoEF&CC, CPCB, CGWB, etc. GRIHA unifies them all, simplifying them into a set of criteria and ensuring its delivery.



Financial Incentive

GRIHA-rated projects get benefits such as: additional FAR, discounted development premium, fast-track environmental clearance, house tax rebate, and concessional rate of interest for loans, depending on their respective jurisdiction.



GRIHA Council

Presents



(Green Rating for Integrated Habitat Assessment)



Developed on the principle **what gets measured, gets managed**

A joint initiative of



Ministry of New and Renewable Energy Government of India



The Energy and Resources Institute

Let us deliver India's commitment to create sustainable habitat.

— The GRIHA way

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Who are We?



GRIHA Council is an independent not-for-profit society established jointly by The Energy and Resources Institute (TERI) and Ministry of New and Renewable Energy (MNRE), Government of India (GoI). It promotes and facilitates **GRIHA- National rating system for green buildings in India**, which is a design and evaluation tool for green buildings and habitats. The National Advisory Committee (NAC) and Technical Advisory Committee (TAC) of GRIHA council include experts from ministries, state nodal agencies and building industry to strengthen the green building movement through their leadership and experience.

What is GRIHA?



GRIHA is a rating tool which evaluates the environmental performance of a building holistically over its entire life cycle, based on quantitative and qualitative criteria, thereby providing a definitive standard for green buildings and habitat. It seeks to minimise resource consumption, waste generation and overall ecological/environmental impact of buildings and habitat. Based on the principle of 'what gets measured, gets managed', GRIHA measures a building's environmental performance on a scale of 1–5 stars.

“It brings together the wisdom of traditional architecture and modern technology to create a sustainable future.”

Benefits of Adopting GRIHA



30–50% reduction in energy consumption.



Renewable energy integration to offset grid demand.



40–65 % reduction in building water consumption.



5–30% of lighting energy consumption or its equivalent met through renewable energy.

How can one get Involved?



For Professionals

As an Individual
Evaluator
GRIHA Evaluators are involved in ensuring third party assessment of GRIHA registered projects in their field of expertise and for projects in their locales.

As an Organization
Product Catalogue
It provides information about verified green building products meant to be used to make sustainable buildings and habitats.



For Manufacturers Committed to Sustainable Habitats



For Professionals

GRIHA Certified Professional
Certified professionals assist GRIHA projects in documentation and partake in awareness programmes.

Associate Membership
Organizations who are committed to sustainable built environment can join hands with GRIHA and become associate members to promote this common goal.



For Organizations Committed to Sustainable Habitats



For Students

ACE (Agents of Change for Environment)
This student membership programme aims to bring together future generation and provide interactive platform to propagate the knowledge of sustainable habitats.

CATALYST (Creating Awareness Through Academics: Leading to Youth's Sustainable Transformation)
Bringing together institutional heads towards the common goal of educating and sensitizing youths about sustainable habitats.



For Educational Institutes

Capacity Building

Types of Training Modules



1-day training programme

General awareness programme on green buildings and sustainable habitats through GRIHA rating.



3-day training programme

Intensive training about GRIHA requirements to become GRIHA certified professionals and evaluators.



Webinars

Online awareness programme on specific topics, which participants can access from any location on their PCs.



Conferences

Platform enabling interaction with erudite national and international speakers, facilitating awareness about current regional and global scenarios.



Green tours

Provide hands-on understanding of the green features in real buildings to students and professionals.

What Types of Buildings can GRIHA Rate?



GRIHA Variants

SVAGRIHA

It is a Simple, Versatile, and Affordable rating system. It is a design-cum-rating tool which allows the architect/consultant to do self-assessment of the project. It addresses sustainability of small buildings, which have small individual environmental footprints, however have enormous cumulative effect on environment.

GRIHA

GRIHA is a point-based rating system which guides a projects in achieving sustainable design and at the same time helps assess the greenness of a project. It is a performance based system where points are earned for meeting the intent of the criteria (also true for all other GRIHA variants).

GRIHA Pre-certification

GRIHA pre-certification is awarded to the projects before construction for committing to comply with GRIHA rating on completion. Benefits include: fast-track environmental clearance; securing incentives as applicable in a potential location; branding opportunity for projects under construction; increase in the sustainability quotient of the project by incorporating suggestions from field specialists.

GRIHA LD

GRIHA LD much acclaimed rating system for green large developments, such as green campuses, townships, and special economic zones (SEZs). The intent is to provide a consolidated assessment of environmental impact of large-scale developments on the environment.

GRIHA for Existing Buildings

GRIHA for "Existing Buildings" rating is an integrated tool to evaluate performance and provide solutions for enhanced energy and water efficiencies, increased thermal & visual comfort, and decreased operational & maintenance costs of existing buildings. This rating would drive the existing building stock towards attaining higher levels of sustainability with reduced operational costs.

GRIHA for Existing Day Schools

GRIHA for Existing Day Schools is rating system developed to evaluate the environmental performance of existing day schools in India.

GRIHA for Affordable Housing

GRIHA for "Affordable Housing" is aligned to the Pradhan Mantri Awas Yojana guidelines. With the help of GRIHA AH rating, many low-income households shall be able to reduce the operational costs and GHG emissions by improving their resource efficiency. The rating would evaluate the environmental performance of residences holistically over its entire life cycle.

GRIHA for CITIES

GRIHA for CITIES rating has been structured as a framework for sustainable development of a city, to be achieved by measuring 'greenness' of existing as well as proposed cities. The rating sets performance benchmarks for key resources such as energy, water and waste; and evaluates the project's performance in areas such as smart governance, social wellbeing, and transportation. The rating is in synchronization with the work being done to achieve targets of Sustainable Development Goals, UNFCCC.

Which Rating should you Apply for?

	GRIHA Variants	Rating Selection Criteria (Built up/area/ site/ any other)	When to apply	Registration Fees* (GST as applicable)
New Buildings	GRIHA	Built-up area >2,500 sq.m	Pre-design/ design stage	GRIHA Pre-certification* <ul style="list-style-type: none"> ≤ 1,50,000 sq.m – ₹ 1 lakh > 1,50,000 sq.m – 4,00,000 sq.m – ₹ 2 lakh >4,00,000 sq.m – ₹ 3 lakh GRIHA <ul style="list-style-type: none"> 2,500 sq.m – 5,000 sq.m – ₹ 3.14 lakh Extra charges: For every sq.m above 5,000 sq.m – ₹ 3.75 per sq.m
	GRIHA LD	Site area >50 hectares (125 acres)	Pre-design/ design stage	<ul style="list-style-type: none"> Master plan rating – ₹ 3.25 lakh Phase wise rating 1–50 hectares – ₹ 3 lakh/ phase Extra charges: For every hectare above 50 – ₹ 5,500 per hectare
	GRIHA for AH	Approval from any govt. agency (state/central)	Pre-design/ design stage	<ul style="list-style-type: none"> ≤ 5,000 sq.m. – ₹ 3.15 lakh >5,000 sq.m. – ₹ 3.15 lakh + ₹ 9 for every sq.m. above 5,000
New and Completed Buildings	SVAGRIHA	Built-up area <2,500 sq.m	Pre-design/design stage, partially completed, completed	SVAGRIHA Pre-certification* <ul style="list-style-type: none"> ≤ 299 sq.m – 2,499 sq.m – ₹ 30,000 SVAGRIHA <ul style="list-style-type: none"> ≤ 299 sq.m – ₹ 30,000 300 sq.m – 799 sq.m – ₹ 60,000 800 sq.m – 1,499 sq.m – ₹ 80,000 1,500 sq.m – 2,499 sq.m – ₹ 1 lakh
Urban Settlements	GRIHA for CITIES	New/existing cities	Pre-design/design stage, partially completed, completed	<ul style="list-style-type: none"> ≤ 25 sq.km. – ₹ 7.5 lakh 25 - 100 sq.km. – ₹ 9 lakh >101 sq.km. – ₹ 11 lakh
Existing Buildings	GRIHA for EDS	Day schools	Completed	<ul style="list-style-type: none"> Workshop and certification Fee – ₹ 70,000 Feasibility study – ₹ 10,000 (optional)
	GRIHA for EB	Built-up area >2,500 sq.m	Completed	<ul style="list-style-type: none"> Registration fee – ₹ 50,000 Built-up Area < 5,000 – ₹ 1.5 lakh 5,001 sq.m to 50,000 sq.m – ₹ 3.5 for every sq.m above 5000 sq.m >50,001 sq.m – ₹ 3.1 lakh

* Projects can choose to take Pre-Certification at the design stage. It can be used for marketing or to facilitate the approval of incentives by various authorities.

