

Association for Development and Research of Sustainable Habitats

SVAGRIHA

A simplified design-cum-rating tool



An ADaRSH -TERI initiative

For registrations and more information, contact:

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small
versatile
affordable

SVAGRIHA (Small Versatile Affordable GRIHA) was jointly developed by ADaRSH and TERI. SVAGRIHA is a significantly simplified, faster, easier and more affordable green building rating system and functions as a design-cum-rating tool. SVAGRIHA has been designed as a variant of GRIHA specifically developed for projects with built-up area less than 2500 sqm. SVAGRIHA can help in design and rating of individual residences, small offices, commercial and institutional buildings.

The rating comprises only 14 criteria analyzed using software tool, comprising simplified calculators. These calculators can be filled using information from construction drawings like areas and quantities of materials. This can be done easily by the architect/consultant of the project. Once completed, the tool will inform the architect/consultant the number of points that they are able to achieve in that particular criterion as well as the overall points.

Process:

1. Registration of project with ADaRSH
2. Submission of completed software tool and documentation to ADaRSH
3. Internal review of documentation
4. Site visit and post construction due diligence check (mandatory)
5. External evaluation of project
6. Award of Rating

Note: The site audit to check compliance will be done once the projects is complete and all measures, to be verified, are in place.

Benefits of SVAGRIHA rated buildings

Upto 50% reduction in operational energy

Upto 40% reduction in water demand

Reduced waste generation

Healthier living environment for building occupants

Built-up area	Registration fee*
X < 300 sqm	Rs. 30,000/- + taxes
300 sqm ≤ X < 800 sqm	Rs. 60,000/- + taxes
800 sqm ≤ X < 1500 sqm	Rs. 80,000/- + taxes
1500 sqm ≤ X < 2500 sqm	Rs. 1,00,000/- + taxes
One day workshop for project (optional)	Rs. 10,000 /- + taxes

*travel and accomodation for site visit to be arranged by client.

SVAGRIHA evaluates projects on the following 14 criteria:

C. No.	Criterion name	Points
1	REduce UHIE and maintain native vegetation cover on site	6
2	Passive architectural design and systems	4
3	Good fenestration design for reducing direct heat gain and glare while maximising daylight penetration	6
4	Efficient artificial lighting system	2
5	Thermal efficiency of building envelope	2
6	Use of energy efficient appliances	3
7	Use of renewable energy on site	4
8	Reduction in building and landscape water demand	5
9	Rainwater harvesting	4
10	Generate resource from waste	2
11	Reduce embodied energy of building	4
12	Use of low-energy materials in interiors	4
13	Adoption of green lifestyle	4
14	Innovation	2
Total		50

In order to achieve a SVAGRIHA rating each project must achieve a certain number of points in each category as mentioned below. This is to ensure that each project reduces its overall environmental impact and not just the impact through energy and water. Based on the number of points the project attempts, the rating shall be provided as mentioned in the table:

Category	Maximum points	Threshold points	Points	Rating
Landscape	6	3	25-30	★
Energy	21	11	31-35	★★
Water & waste	11	6	36-40	★★★
Materials	8	4	41-45	★★★★
Lifestyle	4	1	46-50	★★★★★

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