

Tentative Agenda - GRIHA Training Programme for Evaluators & Trainers

Date: 29th, 30th & 31st October, 2013

1st Day – 29th October, 2013

09.30 - 10.00	Inaugural Session	Overview of GRIHA	TERI , ADaRSH and programme partners
10:00 – 10:15	Tea Break		
10.15 - 12.00	Session-1: Sustainable Site planning Presentation	Criterion 1 Site selection Criterion 2 Preserve and protect landscape during construction Criterion 3 Soil conservation (till post-construction) Criterion 4 Design to include existing site features Criterion 5 Reduce hard paving on-site and/or provide shaded hard paved surfaces. Criterion 7 Plan utilities efficiently and optimise on-site circulation efficiency	The session shall start with a detailed presentation on sustainable site planning criteria of GRIHA with examples .During the practical session, the participants shall be divided in to multiple groups by the facilitator. A design problem shall be given to the groups. The group shall be required to carry out a sustainable site planning exercise based on the problem. Scale models for varied site features (trees, lights, utility corridors) shall be used to carry out the exercise. The group representative shall be required to make a presentation on the proposed scheme by the respective group. The facilitator shall evaluate each scheme and give a critique on the same.
12.00 - 12.45	Exercise on site planning	Criterion 8 Provide minimum level of sanitation/safety facilities for construction workers	
12.45 - 01.15	Presentation by participants	Criterion 9 Reduce air pollution during construction	
01.15 - 01.30	Discussion of proposed scheme		
01.30 - 02.00	Lunch Break		
02.00 - 4.00	Session-2: Building Design Optimisation Presentation	Criterion 13 Optimise building design to reduce conventional energy demand (part 1)	The second session on building design optimisation shall focus on two broad parameters; namely the basics of solar passive building design and the quantitative analysis based on criterion-13 of GRIHA. This shall be followed by a detailed individual exercise on laptop. The exercise shall be based on the basic understanding of the criterion and the correct answer shall be discussed at the end of the session.
4.00 - 4.15	Tea Break		
4.15 - 4.45	Exercise on Building design optimisation		
4.45 - 5.15	Presentation of answer by participants		
5.15 - 5.30	Final Answer Discussion		

2nd Day –30th October, 2013

9.30 – 10.00	Session-3: Sustainable Building Material & Construction Tech. Presentation	<p>Criterion 15 Utilisation of fly ash in building structure</p> <p>Criterion 16 Reduce volume, weight, and construction time by adopting efficient technologies</p> <p>Criterion 17 Use low-energy material in interiors</p>	A detailed presentation shall be made on low-energy building material and its implication in GRIHA with appropriate examples.
10.00 – 11.00	Session-4: Health, Wellbeing and Environmental Quality Presentation	<p>Criterion 26 Use low-VOC paints/adhesives/sealants</p> <p>Criterion 27 Minimise ozone depleting substances</p> <p>Criterion 28 Ensure water quality</p> <p>Criterion 29 Acceptable outdoor and indoor noise levels</p> <p>Criterion 30 Tobacco and smoke control</p> <p>Criterion 31 Provide at least, the minimum level of accessibility for persons with disabilities</p> <p>Criterion 32 Energy audit and validation</p> <p>Criterion 33 Operation and maintenance</p> <p>Criterion 34 Innovation points</p>	A detailed presentation shall be made on all other environmental aspects of building design, construction and operation and its implication in GRIHA with appropriate examples.
11.00 – 11.15	Tea Break		
11.30 – 12.30	Session-5: Artificial Lighting Presentation	Criterion 13 Optimise building design to reduce conventional energy demand (part 1)	A detailed presentation on energy efficient artificial lighting design as per requirements of Criterion 13.
12.30 – 13.30	Exercise on Artificial lighting		
13.30 - 14.00	Lunch		
14.00 – 15.15	Session-6: Energy Performance Optimisation Presentation	Criterion 14 Optimise energy performance of building within specified comfort limits	This session shall cover basics of thermal comfort analysis, HVAC design, energy optimisation of building energy systems and requirements of GRIHA. Requirements of Energy Conservation Building Code 2007 shall also be covered.
15.15 – 16.15	Exercise on Energy Performance Optimisation	Criterion 14 Optimise energy performance of building within specified comfort limits	
16.15 – 16.30	Session-7: Renewable energy utilization	<p>Criterion 6 Enhance outdoor-lighting system efficiency using renewable energy system,</p> <p>Criterion 18 Renewable energy utilisation,</p> <p>Criterion 19 Renewable-energy-based hot water system</p>	This session shall cover renewable energy applications in buildings. The facilitator shall present the applications through the specified criteria of GRIHA, with examples and exercises.
16.30 – 16.45	Tea Break		

3rd Day – 31st October, 2013

09.30 - 10.00	Session-8: Water Management Presentation	Criterion 10 Reduce landscape water requirement Criterion 11 Reduce water use in the building Criterion 12 Efficient water use during construction	The facilitator shall give a detailed presentation on water related issues and solutions through GRIHA. The presentation shall focus on water management in building sector with examples from current green building projects of GRIHA.
10.00 - 11.45	Session-9: Wastewater Management Presentation	Criterion 20 Wastewater treatment, Criterion 21 Water recycle and reuse (including rainwater)	The facilitator shall discuss about the wastewater related issues and solutions through GRIHA. A detailed presentation shall be made on waste water management systems and various technologies available in India with examples from current green building projects of GRIHA.
11.45 - 12.00	Tea Break		
12.00 - 1.30	Session-10: Solid waste Management Presentation	Criterion 22 Reduction in waste during construction Criterion 23 Efficient waste segregation Criterion 24 Storage and disposal of wastes Criterion 25 Resource recovery from waste	This session comprises of detailed presentation on solid waste management systems and implications of GRIHA.
1.30 - 2.00	Lunch Break		
2.00 - 2.30	Session-11: Website Demonstration	GRIHA online documentation tool.	Project Management and Documentation tool for GRIHA registered projects.
2.30 - 3.00	Revision time		
3.00 - 4.00	Session-13: GRIHA TRAINER's EXAMINATION	One hour written test (Objective Type)	For the participants who are interested in GRIHA trainer's certificate
4.00 - 4.15	Tea Break		
4.15 - 5.00	Session-14: GRIHA EVALUATOR's EXAMINATION	Forty five minutes written test (Subjective Type)	For the participants who are also interested in GRIHA evaluator's certificate
5.00 - 5.15	Distribution of participation certificate		