

## Tentative Agenda for GRIHA 3 Day Training Program

Day I			
1000 - 1030	<b>Introduction</b>	Overview of GRIHA	
1030 - 1045 Tea Break			
1045 – 1300	<b>Session-1: Site Planning &amp; Construction Management</b>	<p>Criterion 1-Site selection.</p> <p>Criterion 2-Low impact design.</p> <p>Criterion 3-Design to mitigate UHIE.</p> <p>Criterion 4-Site imperviousness factor.</p> <p>Criterion 5-Air and Water pollution control.</p> <p>Criterion 6-Preserve and protect landscape during construction.</p> <p>Criterion 7-Construction management practices.</p>	<p>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 into 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.</p>
1300 - 1400 Lunch Break			
1400 - 1530	<b>Session-2: Occupant comfort and well being- Daylighting only</b>	Criterion 11-Achieving indoor comfort requirements (visual/thermal/acoustic).	<p>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 of daylight based on criterion- 11. The session shall cover the basics of daylight integration in buildings for optimizing energy consumption and achieving visual comfort. There will be a small exercise for applying daylight design knowledge gained in the session.</p>
1530 - 1545 Tea Break			
1545 - 1800	<b>Session-2: Occupant comfort and well being- Daylighting only(contd.)</b>	-	contd.

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## Day II

1000 - 1100	<b>Session-3: Occupant Comfort &amp; Well-Being - Artificial Lighting, Thermal &amp; Acoustic Comfort.</b>	Criterion 11-Achieving indoor comfort requirements (visual/thermal/acoustic).	A detailed presentation will be made on optimizing artificial lighting design, achieving thermal comfort and Energy Conservation Building Code (ECBC) mandatory compliances per GRIHA requirements.
1100 – 1115	Tea Break		
1115 - 1300	<b>Session-3: Occupant Comfort &amp; Well-Being - Artificial Lighting, Thermal &amp; Acoustic Comfort (contd.)</b>	Criterion 08 –Energy efficiency	A detailed presentation will be made on achieving energy efficiency in the projects through various energy conservation measures. The session shall give a brief overview of energy optimising strategies such as efficient building envelope, equipment and HVAC design. There will be a small exercise on Energy Performance Index (EPI) calculation.
1300 - 1400	Lunch Break		
1400 – 1430	<b>Session-4: Socio-Economic Strategies</b>	Criterion 24-Labour safety and sanitation. Criterion 25-Design for Universal Accessibility. Criterion 26-Dedicated facilities for service staff. Criterion 27-Increase in environmental awareness.	A detailed presentation shall be made on providing better working and living conditions for the labours during construction work and for the workers post occupancy with appropriate examples from GRIHA projects.
1430-1500	<b>Session-5: Sustainable Building Materials</b>	Criterion 19-Utilization of BIS recommended waste materials in building structure.	A detailed presentation shall be made on low-energy building materials and their implication in GRIHA with appropriate examples.
1500 – 1515	Tea Break		
1515 – 1615	<b>Session-5: Sustainable Building Materials (Contd.)</b>	Criterion 20-Reduction in embodied energy of building structure. Criterion 21-Use of low-environmental impact materials in building interiors.	Contd.

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## Day III

1000 – 1115	<b>Session-6: Energy Management</b>	Criterion 9-Renewable energy utilization. Criterion 10-Zero ODP materials	A detailed presentation shall be made on renewable energy integration in buildings and use of low Ozone Depleting Potential (ODP) materials with appropriate examples.
1115 – 1130	Tea Break		
1130 – 1215	<b>Session-6: Energy Management (contd.)</b>	Criterion 12-Maintaining good IAQ. Criterion 13-Use of low-VOC paints and other compounds in building interiors	A detailed presentation shall be made on maintaining good indoor air quality in the buildings and use of low – Volatile organic Compounds (VOC) paints and other materials in interiors.
1215 – 1300	<b>Session-7: Performance Metering and Monitoring</b>	Criterion 28- Smart metering and monitoring. Criterion 29-Operation, Maintenance Protocols. Criterion 30-Performance Assessment for Final Rating. Criterion 31-Innovation	A detailed presentation will be made on the importance of O&M protocols, smart metering and monitoring.
1300 - 1400	Lunch Break		
1400 – 1615	<b>Session - 8: Water and Waste Management</b>	Criterion 14-Use of low-flow fixtures and systems. Criterion 15-Reducing landscape water demand. Criterion 16-Water Quality. Criterion 17- On-site water reuse. Criterion 18-Rainwater Recharge. Criterion 22-Avoid post-construction landfill. Criterion 23-Treat organic waste on site.	The facilitator shall give a detailed presentation on water, waste water and solid waste related issues and solutions through GRIHA. The presentation shall focus on management of waste and water in building sector with examples from current green building projects of GRIHA
1615-1630	<b>Session - 9</b>	Overview of GRIHA Certified Professional and Evaluator examination	
1630 - 1645	Tea + Closing + Feedback		