

Tentative Agenda for GRIHA 3 Day Training Program

Day I			
1000 - 1030	Introduction	Overview of GRIHA	
1030 - 1045 Tea Break			
1045 – 1300	Session-1: Site Planning & Construction Management	Criterion 1-Site selection. Criterion 2-Low impact design. Criterion 3-Design to mitigate UHIE. Criterion 4-Site imperviousness factor. Criterion 5-Air and Water pollution control. Criterion 6-Preserve and protect landscape during construction. Criterion 7-Construction management practices.	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.
1300 - 1400 Lunch Break			
1400 - 1530	Session-2: Occupant comfort and well being- Daylighting only	Criterion 11-Achieving indoor comfort requirements (visual/thermal/acoustic).	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.
1530 - 1545 Tea Break			
1545 - 1730	Session-2: Occupant comfort and well being- Daylighting only(contd.)	-	contd.

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Day II

1000 - 1100	Session-3: Occupant Comfort & Well-Being - Artificial Lighting.	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	Session-3: Occupant Comfort & Well-Being - Thermal & Acoustic Comfort.	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 – 1530	Session-4: Energy Management	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.
1530 – 1545	Tea Break		
1545 – 1630	Session-4: Energy Management (contd.)	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.
1630 – 1730	Session-5: Performance Metering and Monitoring	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.

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Day III

1000 – 1100	Session-6: Water Management	<p>Criterion 14-Use of low-flow fixtures and systems.</p> <p>Criterion 15-Reducing landscape water demand.</p> <p>Criterion 16-Water Quality.</p> <p>Criterion 17- On-site water reuse.</p> <p>Criterion 18-Rainwater Recharge.</p>	The facilitator shall give a detailed presentation on water and waste 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.
1100 – 1115	Tea Break		
1115 – 1300	Session-7: Solid Waste Management	<p>Criterion 22-Avoid post-construction landfill.</p> <p>Criterion 23-Treat organic waste on site.</p>	The facilitator shall discuss about solid waste related issues and solutions. A detailed presentation shall be made on solid waste management systems and various organic waste treatment options available in India with examples from current green building projects of GRIHA.
1300 - 1400	Lunch Break		
1400 – 1500	Session - 8: Socio-Economic Strategies	<p>Criterion 24-Labour safety and sanitation.</p> <p>Criterion 25-Design for Universal Accessibility.</p> <p>Criterion 26-Dedicated facilities for service staff.</p> <p>Criterion 27-Increase in environmental awareness.</p>	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.
1500 – 1530	Session - 9: Sustainable Building Materials	<p>Criterion 19-Utilization of BIS recommended waste materials in building structure.</p> <p>Criterion 20-Reduction in embodied energy of building structure.</p> <p>Criterion 21-Use of low-environmental impact materials in building interiors.</p>	A detailed presentation shall be made on low-energy building materials and their implication in GRIHA with appropriate examples.
1530 - 1600	Tea + Closing + Feedback		