

GRIHA EB
GRIHA FOR EXISTING BUILDINGS
VERSION 1

ABRIDGED MANUAL

TRANSFORMING EXISTING BUILDINGS TO
SUSTAINABLE BUILDINGS



A GRIHA Council Publication

Griha Manual

Karin Nielsen-Saines



Griha Manual:

GRIHA Version 2019: The Sustainable Habitat Handbook (6 Volume Set) A GRIHA Council Publication, 2022-01-14 GRIHA V 2019 is the 5th updated version of the GRIHA Rating system which addresses relevant present day concerns of the green building fraternity by encapsulating concepts such as water performance index life cycle cost analysis life cycle analysis liveability index etc It captures social aspects of sustainability and aids the design of healthy and comfortable habitats This set of GRIHA manuals provides a detailed understanding of the GRIHA Rating system its underlying criteria rating process strategies for compliance and the documentation and evaluation procedure It serves as a handbook for multiple stakeholders like architects service engineers landscape designers project managers and contractors involved in the design and construction of sustainable buildings Salient features The following are the salient features of the new version of GRIHA rating Indigenous rating system Adoption of holistic approach towards sustainability Process driven and performance oriented Integrated team approach Table of Contents VOLUME I INTRODUCTION 118 PAGES VOLUME 2 137 PAGES SECTION 1 SUSTAINABLE SITE PLANNING Criterion 1 Green Infrastructure Criterion 2 Low Impact Design Strategies Criterion 3 Design to Mitigate UHI SECTION 2 CONSTRUCTION MANAGEMENT Criterion 4 Air and Soil Pollution Control Criterion 5 Topsoil Preservation Criterion 6 Construction Management Practices VOLUME 3 241 PAGES SECTION 3 ENERGY OPTIMIZATION Criterion 7 Energy Optimization Criterion 8 Renewable Energy Utilization Criterion 9 Low ODP and GWP Materials SECTION 4 OCCUPANT COMFORT Criterion 10 Visual Comfort Criterion 11 Thermal and Acoustic Comfort Criterion 12 Indoor Air Quality VOLUME 4 239 PAGES SECTION 5 WATER MANAGEMENT Criterion 13 Water Demand Reduction Criterion 14 Wastewater Treatment Criterion 15 Rainwater Management Criterion 16 Water Quality and Self Sufficiency SECTION 6 SOLID WASTE MANAGEMENT Criterion 17 Waste Management Post Occupancy Criterion 18 Organic Waste Treatment VOLUME 5 93 PAGES SECTION 7 SUSTAINABLE BUILDING MATERIALS CRITERION 19 Utilization of Alternative Materials in Building CRITERION 20 Reduction in Global Warming Potential through Life Cycle Assessment CRITERION 21 Alternative Materials for External Site Development SECTION 8 LIFE CYCLE COSTING CRITERION 22 Life Cycle Cost Analysis VOLUME 6 151 PAGES SECTION 9 SOCIO ECONOMIC STRATEGIES Criterion 23 Safety and Sanitation for Construction Workers Criterion 24 Universal Accessibility Criterion 25 Dedicated Facilities for Service Staff Criterion 26 Positive Social Impact SECTION 10 PERFORMANCE METERING AND MONITORING Criterion 27 Project Commissioning Criterion 28 Smart Metering and Monitoring Criterion 29 Operation and Maintenance Protocol SECTION 11 INNOVATION Criterion 30 Innovation **GRIHA Version 2019: Volume One** GRIHA Council, 2022-02-01 GRIHA Green Rating for Integrated Habitat Assessment is the national rating system of India It has been acknowledged as India's own green building rating system The tool evaluates reductions in emission intensity through habitats GRIHA is a part of mitigation strategy for combating climate change in India's Nationally Determined Contributions submitted to UNFCCC

by the Ministry of Environment Forests Climate Change Government of India This set of GRIHA manuals is a guide for building professionals architects services engineers landscape designers project managers and contractors involved in the design and construction of green buildings The manuals provide a comprehensive understanding of the 5th updated version of GRIHA rating system with introduction to concepts like life cycle cost analysis life cycle analysis and water performance index etc with an aims to build more sustainable physical assets and infrastructure services while enhancing the livability and workability of the occupants included in its underlying criteria rating process strategies for compliance and the documentation and evaluation procedure Salient features The following are the salient features of the new version of GRIHA rating Indigenous rating system Adoption of holistic approach towards sustainability Process driven and performance oriented Integrated team approach Contents MESSAGE PRESIDENT GRIHA Council FOREWORD CEO GRIHA Council Acknowledgements Technical Advisory Committee Development Team Abbreviations Introduction Criteria SECTION 1 SUSTAINABLE SITE PLANNING Criterion 1 Green Infrastructure Criterion 2 Low Impact Design Strategies Criterion 3 Design to Mitigate UHIE SECTION 2 CONSTRUCTION MANAGEMENT Criterion 4 Air and Soil Pollution Control Criterion 5 Topsoil Preservation Criterion 6 Construction Management Practices SECTION 3 ENERGY OPTIMIZATION Criterion 7 Energy Optimization Criterion 8 Renewable Energy Utilization Criterion 9 Low ODP and GWP Materials SECTION 4 OCCUPANT COMFORT Criterion 10 Visual Comfort Criterion 11 Thermal and Acoustic Comfort Criterion 12 Indoor Air Quality SECTION 5 WATER MANAGEMENT Criterion 13 Water Demand Reduction Criterion 14 Wastewater Treatment Criterion 15 Rainwater Management Criterion 16 Water Quality and Self Sufficiency SECTION 6 SOLID WASTE MANAGEMENT Criterion 17 Waste Management Post Occupancy Criterion 18 Organic Waste Treatment SECTION 7 SUSTAINABLE BUILDING MATERIALS CRITERION 19 Utilization of Alternative Materials in Building CRITERION 20 Reduction in Global Warming Potential through Life Cycle Assessment CRITERION 21 Alternative Materials for External Site Development SECTION 8 LIFE CYCLE COSTING CRITERION 22 Life Cycle Cost Analysis SECTION 9 SOCIO ECONOMIC STRATEGIES Criterion 23 Safety and Sanitation for Construction Workers Criterion 24 Universal Accessibility Criterion 25 Dedicated Facilities for Service Staff Criterion 26 Positive Social Impact SECTION 10 PERFORMANCE METERING AND MONITORING Criterion 27 Project Commissioning Criterion 28 Smart Metering and Monitoring Criterion 29 Operation and Maintenance Protocol SECTION 11 INNOVATION Criterion 30 Innovation Audience Building professionals architects services engineers landscape designers project managers and contractors involved in the design and construction of green buildings Shelving Environmental Engineering Sustainable Architecture **Sustainable Operations Management** Kampan Mukherjee,2023-12-30 This book includes concepts methodologies and practices for achieving sustainability in business operations The underlying concept is explained from two perspectives organizational level and policy level In the former all principles techniques and decision making issues relevant to sustainability at unit level management of product

recovery processes and sustainability at integrated level are captured Content on policy level perspective includes policies norms guidelines and regulatory measures both at global and national levels The primary goal of this book is the creation of an integrated and value rich platform for the initiation and management of sustainable operations Features This book offers a comprehensive overview of environmental sustainability from the operations and supply chain perspective This book proposes an understandable and innovative viewpoint in explaining sustainable operations management comprehensively as managing operations sustainably at organizational level Readers will learn the concepts techniques and the core factors relating to managing operations keeping in view various dimensions of sustainability and the macro level guidelines norms regulatory measures and the like in this context This book adds to the knowledge on design planning and management of sustainable operations including the specific management approaches This book includes summary and review questions at the end of each chapter This book is aimed at graduate students and researchers in industrial production and mechanical engineering including operations management It is also recommended as a textbook for courses such as sustainable development sustainable operations management and environmental management GRIHA Manual: Technical manual for evaluators : a guide for assessing GRIHA documentation, 2011 180 Mr. Rohit Manglik, 2024-03-27 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Advances in Structural Mechanics and Applications** José António Fonseca de Oliveira Correia, Satyabrata Choudhury, Subhrajit Dutta, 2022-06-07 The proceedings of the conference is going to benefit the researchers academicians students and professionals in getting enlightened on latest technologies on structural mechanics structure and infrastructure engineering Further work on practical applications of developed scientific methodologies to civil structural engineering will make the proceedings more interesting and useful to practicing engineers and structural designers Smart Energy Practices for a Sustainable World Nina S. Godbole John P. Lamb , 2023-06-13 Mankind has scaled unprecedented growth since the advent of the Industrial Revolution However this progress has come at the hefty cost of environmental degradation Climate change undeniably is one of the biggest challenges of the planet Earth and is largely anthropogenic In the modern world context the phenomenon of climate change is one of the most defining issues when it comes to realizing objectives of the Sustainable Development Goals SDGs Climate change is not limited to geographical boundaries it is a global problem hence requires global solutions It has been widely discussed and therefore has acquired centre stage across the major world forums Smart Energy Practices for a Sustainable World how we all can contribute stresses the need for us to judiciously sustainably and smartly harness and use energy techniques in order to effectively combat climate change The book also gives an in depth discussion on utilization of artificial intelligence and information technology to realize energy efficiency in various sectors of economy including but not limited to transportation

buildings infrastructure health care and other services Text is supplemented by case studies that depict ground level reality to facilitate comprehension of the subject matter The appendices serve as an extended learning of the concepts discussed in the chapters The publication would serve as a valuable reference for both scholars and researchers engaged in the domain in addition to being a guide to industry as well as the academic world Table of Contents 1 Smart Sustainable and Green the mantra to save our planet 2 Smart Energy Systems and Components 3 Energy Production and Delivery 4 Impact of Electronic Equipment on Energy Use and Carbon Footprint 5 Standard Energy Use and Carbon Footprint Metrics 6 Smart Buildings planning and construction 7 Transport smarter commuting and energy efficient mobility 8 Electronic Commerce and Other Digital Services for Smart Planet 9 Sustainable Practices for Green Health Care Services 10 Knowledge and Behaviour for a Smart Planet 11 Energy Audits 12 Worldwide Case Studies for Green Practices 13 The Future for Energy Use in Our Planet Appendices

GRIHA for Existing Buildings: Transforming existing buildings to sustainable buildings (Version 1: Detailed Manual) A GRIHA Council Publication ,2022-03-10 GRIHA for Existing Buildings rating is an integrated green building rating tool to evaluate the performance of existing buildings and provide solutions for enhanced energy and water efficiency increased thermal visual comfort and decreased operational maintenance costs While focusing on the above the tool has been developed with the underlying objectives of simplicity of execution economic viability and alignment with national and international codes and standards The rating endeavours to cover various categories of buildings across diverse climatic zones of the country The rating system is a 100 point system consisting of 12 criteria categorized under seven sections such as Site Parameters Maintenance Housekeeping Energy Water Human Health Comfort and Social Aspects The minimum points required for certification is 25 Contents SECTION I SITE PARAMETERS Criterion 1 Accessibility to Basic Services Criterion 2 Microclimatic Impact SECTION II MAINTENANCE AND HOUSEKEEPING Criterion 3 Maintenance Green Procurement and Waste Management Criterion 4 Metering and Monitoring SECTION III ENERGY Criterion 5 Energy Efficiency Criterion 6 Renewable Energy Utilization SECTION IV WATER EFFICIENCY Criterion 7 Water Footprint Criterion 8 Reduction in Cumulative Water Performance SECTION V OCCUPANT HEALTH AND COMFORT Criterion 9 Achieving Indoor Comfort Requirements Thermal Visual And Acoustic Criterion 10 Maintaining Good IAQ SECTION VI SOCIAL ASPECTS Criterion 11 Universal Accessibility and Environmental Awareness SECTION VII BONUS POINTS Criterion 12 Bonus Points USER GUIDE Appendices

Sustainability Assessment of Built Environment Gopal Alapure, Abraham George, 2025-02-18 This book focuses on developing a holistic sustainability assessment model for built environment that can help in identifying sustainability issues and parameters for the built environment It covers a wide range of sustainable built form issues in the local and regional contexts The volume identifies significant built form sustainability indicators criteria and sub criterion while highlighting the importance of incorporating sustainability principles and assessment of sustainability It also discusses the data collection process for defining priorities of sustainability parameters using the Analytic Hierarchy

Process AHP technique The book presents information to obtain fuzzy weights to classify assessed built form The chapters in this book explain the development of an integrated built environment assessment system for infrastructure projects This book will be of interest to students teachers and researchers of planning architecture construction urban studies interior designing urban planning and civil engineering It will also be useful for architects planners civil engineers interior designers builders developers green building assessors and those interested in the sustainable assessment built environment and urban development

GRIHA Manual: Technical manual for trainers on water and waste management sustainable building materials health and well-being of building occupants, building operation and maintenance, 2011

Digital Cities

Roadmap Arun Solanki, Adarsh Kumar, Anand Nayyar, 2021-04-13 DIGITAL CITIES ROADMAP This book details applications of technology to efficient digital city infrastructure and its planning including smart buildings Rapid urbanization demographic changes environmental changes and new technologies are changing the views of urban leaders on sustainability as well as creating and providing public services to tackle these new dynamics Sustainable development is an objective by which the processes of planning implementing projects and development is aimed at meeting the needs of modern communities without compromising the potential of future generations The advent of Smart Cities is the answer to these problems Digital Cities Roadmap provides an in depth analysis of design technologies that lay a solid foundation for sustainable buildings The book also highlights smart automation technologies that help save energy as well as various performance indicators needed to make construction easier The book aims to create a strong research community to have a deep understanding and the latest knowledge in the field of energy and comfort to offer solid ideas in the nearby future for sustainable and resilient buildings These buildings will help the city grow as a smart city The smart city has also a focus on low energy consumption renewable energy and a small carbon footprint Audience The information provided in this book will be of value to researchers academicians and industry professionals interested in IoT based architecture and sustainable buildings energy efficiency and various tools and methods used to develop green technologies for construction in smart cities

Manual of the Administration of the Madras Presidency, in Illustration of the Records of Government & the Yearly Administration Reports Madras (India : Presidency), 1885

THE TALKIES PRECEPT Rishabh Anand, Bhavya Shekhawat, 2021-03-17 After reading the book one will have a understanding to design a building which is sustainable in all aspects from the building form and concept to the assemblies of new and different materials especially a building that has the area requirement more similar to an institutional building This book also includes some case studies that were used for references related to sustainable designs We can also say that after having a look at this book one can have a brief understanding of the architectural simulation softwares used for radiation analysis thermal comfort or analysis related to assemblies of materials etc As the book is all about different sustainable projects which are very different in all aspects followed from the start to the end

Advances in Energy and Environment Rafid Al Khaddar, N. D. Kaushika, S.K. Singh, R. K. Tomar, 2021-04-20 This

book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering TRACE 2020 This book covers papers on contemporary renewable energy and environmental technologies which include water purification water distribution network use of solar energy for electricity production waste management greening of buildings and air quality analysis In all twenty three papers have been selected for publication It is believed that this book will be useful to a fairly wide spectrum of audience like researchers application engineers and industry managers

Sustainable Resilient Built Environments Rama Devi Nandineni, Susan Ang, Norwina Binti Mohd Nawawi, 2024-07-05 The proceedings of Sustainable Resilient Built Environments are based on the SRBE 2022 conference held in December 2022 It focuses on the advances under the overarching theme of Sustainability The concept of Sustainability has been conventionally defined as meeting the needs of the present without compromising the ability of future generations to meet their own needs In scientific literature sustainable development has been analysed using different qualitative approaches such as economic social ecological cultural institutional ethical and political In this edited volume the concepts of both sustainability and resilience are considered to open up useful pathways towards achieving sustainable buildings and infrastructure Though the concepts of sustainability and resilience are considered to help improve the built environment the interrelations and interdependence between these two concepts are not clearly evident This has led to the questions such as Is the sustainable built environment always resilient Is the resilient built environment always sustainable What more is needed for sustainability In exploring these pertinent questions the proposed edited volume is expected to unveil and disseminate new insights on the themes related to sustainable and resilient built environment The themes of the proceedings lay a platform for researchers and professionals to integrate the aspects including smart innovation technologies green energy efficiency carbon reduction sustainability and resilience with regard to buildings and other built infrastructure Specific objectives included as per the five themes are as follows Environment Design and Sustainability Sustainable Smart Buildings Community Resilience Social Sustainability Heritage and Sustainability Pandemic issues and sustainable development

Manual of the Bengâlî Language, Comprising a Bengâlî Grammar and Lessons, with Various Appendices, Including an Asamese Grammar George Frederick Nicholl, 1894 Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure Jaap Bakker, Dan M. Frangopol, Klaas Breugel, 2016-11-18 This volume contains the papers presented at IALCCE2016 the fifth International Symposium on Life Cycle Civil Engineering IALCCE2016 to be held in Delft The Netherlands October 16 19 2016 It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R Khan lecture keynote lectures and technical papers from all over the world All major aspects of life cycle engineering are addressed with special focus on structural damage processes life cycle design inspection monitoring assessment maintenance and rehabilitation life cycle cost of structures and infrastructures life cycle performance of special structures and life cycle oriented computational tools The aim of the editors is to provide a valuable source for anyone interested in life cycle of civil

infrastructure systems including students researchers and practitioners from all areas of engineering and industry

GRIHA Manual: Technical manual for trainers on sustainable site planning health and well-being during construction ,2011 **Environmental Engineering for Ecosystem Restoration** N. Vinod Chandra Menon,Sreevalsa Kolathayar,K. S. Sreekeesha,2024-04-12 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India The topics covered include resilient approaches towards environmental sustainability and combating climate study of natural hazards and their impacts resilient infrastructure and land use planning strategies climate adaptation and mitigation measures green infrastructure coastal protection and urban heat island reduction This book serves as a resource material for researchers and industry professionals interested in developing solutions for sustainable and resilient infrastructure that aims for communities with Net Zero Targets *Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture* Management Association, Information Resources,2021-05-28 When it comes to architecture there has been a focus on sustainable buildings and human well being in the built environment Buildings should not only be environmentally friendly and sustainable but dually focused on human health wellness and experience This includes considerations into the quality of buildings ranging from ventilation to thermal comfort along with environment considerations such as energy usage and material selection Specific architectural choices and design for buildings can either contribute to or negatively impact both society and the environment leading research in the field of architecture to be focused on environmental and societal well being in accordance with the built environment The Research Anthology on Environmental and Societal Well Being Considerations in Buildings and Architecture focuses on how the built environment is being constructed to purposefully enhance societal well being while also maintaining green standards for environmental sustainability On one side this book focuses on the specific building choices that can be made for the purpose of human well being and the occupants who will utilize the building On the other side this book also focuses on environmental sustainability from the standpoint of green buildings and environmental concerns Together these topics allow this book to have a holistic view of modern architectural choices and design This book is essential for architects IT professionals engineers contractors environmentalists interior designers civil planners regional government officials construction companies policymakers practitioners researchers academicians and students interested in architecture and how it can promote environmental and societal well being

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