

Transformation Strategies for Built Environment



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THE 10TH REGIONAL GRIHA SUMMIT

The 10th Regional GRIHA Summit, with the theme- 'Transformation strategies for built environment' was aligned to focus on a pragmatic approach towards incorporating sustainability initiatives into functional public buildings. The one-day summit created an opportunity to embark on multi-stakeholder partnerships; served as a platform for knowledge sharing among different domains of the green building industry and facilitated networking opportunities among over 230 participants representing the government, academia, civil society organizations, architecture, engineering, and the construction management sector.

The event was preceded by a three-day technical training programme and a workshop dealing with the utilization of bamboo as building construction material. On June 14, 2019, Shri Nitin Gadkari, Hon'ble Union Minister for Road

Transportation and Highways and Minister of Micro, Small and Medium Enterprises, Government of India, inaugurated the Summit and presented awards to projects and individuals that had displayed extraordinary initiative toward the successful completion of the first phase of the PWD-GRIHA Green Building Initiative. In addition to delivering a powerful address reiterating his commitment towards sustainable development goals, the Hon'ble Minister interacted with students of the Institute of Design Education and Architectural Studies and representatives of product manufactures working in the sustainable construction space. The main event, held on 15 June, hosted distinguished representatives of the Bureau of Energy Efficiency, Smart Cities Council of India, Maharashtra Energy Development Agency, and the Public Works Department of Maharashtra. Other eminent speakers at the event included



representatives from renowned architecture and construction companies and exceptional individuals working toward alternative sustainable technologies.

THE GRIHA COUNCIL

In India, we are steering into an era of unprecedented public and private sector development but at significant environmental costs. This colossal increase in use of non-renewable resources has contributed towards climate change and unsustainable development. The time has come where we can no longer be deprived of the benefits of green building practices that can reduce the negative impact of construction activities on our environment. GRIHA was devised in pursuit of creating sustainable habitat, with minimal adverse impact on the environment. GRIHA is a point based green building rating tool that helps design buildings and habitats which are resource efficient throughout their life cycle.

GRIHA Council is an independent not-for-profit society established jointly by The Energy and Resources Institute (TERI) and Ministry of New and Renewable Energy (MNRE), Government of India (GoI). MNRE has endorsed GRIHA as the national rating system for green buildings in India. The council promotes and facilitates GRIHA in India. With support from the Government of India and active participation of the private sector, over 65 million square meter of built up area is registered to be GRIHA compliant.

GRIHA ensures implementation of full compliance with various relevant national codes and standards (such as the Energy Conservation Building Code, the National

Building Code, guidelines issued by the Central Pollution Control Board) and contributes to meeting objectives set forth in the National Mission on Sustainable Habitat and the Jawaharlal Nehru National Solar Mission. The demonstrated impact of GRIHA projects include quantification of resource use optimization, implementation of environmental commitments and enhanced transparency through a web-based portal.

Various municipalities and government organizations in India have adopted the GRIHA rating to enable sustainable development through attractive incentives for both the developer as well the owner. For instance, the Pimpri Chinchwad Municipal Corporation (PCMC) provides a 10%–50% rebate to developers on premium charges for GRIHA and SVA-GRIHA (Small Versatile Affordable GRIHA) certified buildings, while to the owner it gives a 5%–10% discount on property tax for 3–5 star GRIHA certified buildings and 5%–15% for SVA-GRIHA rated buildings.

GRIHA aims at reducing carbon footprint, saving on energy and water consumption, adopting renewable energy systems and providing a visually and thermally comfortable indoor environment to the end users while simultaneously reducing 30%–40% of the operational cost.



THREE DAY TRAINING PROGRAMME



A three-day intensive technical training programme was organized by GRIHA Council from 10 to 12 June 2019 at Nagpur, Maharashtra, to provide a comprehensive understanding of the GRIHA (Green Rating for Integrated Habitat Assessment) rating system to industry professionals and various stakeholders.

The programme focused on various aspects of design, planning, implementation, construction and maintenance spread across sections on sustainable site planning, construction management, occupant comfort & well-being, energy management, performance

metering and monitoring, water management, solid waste management, socio-economic strategies and sustainable building materials.

Each of the nine sessions involved presentations followed by group and individual exercises for the participants. Reference material and the presentations made during the program were made available to each participant. The workshop was attended by 39 participants from various backgrounds such as architecture, engineering, government, and academia.

BAMBOO WORKSHOP

A dedicated one day Bamboo workshop was organized by GRIHA Council on June 13, 2019, at IDEAS (Institute of Design Education and Architectural Studies), Nagpur, Maharashtra. The workshop was attended by 22 participants comprising architecture students, green building practitioners, and practicing architects.

As a prelude to the 10th Regional GRIHA Summit, the Bamboo workshop was organized with the objective to publicize the benefits of Bamboo, a rapidly renewable material and encourage its use as a construction material in the building industry.

The programme began with a brief introduction to the national green building rating system- GRIHA (Green Rating for Integrated Habitat Assessment) by the GRIHA Council. Thereafter, field expert, Mr Sanjeev Karpe, Managing Director - Native Konbac Bamboo Products Pvt. Ltd, delivered a lecture on the advantages of bamboo as a construction material and conducted a hands-on experience session. He introduced grass species as a building material and its market status in India and around the world. The potential of Bamboo as a sustainable material that can help in mitigating climate change by reducing the carbon footprint of building sector was reiterated. The lecture guided on



how bamboo can be cultivated, harvested and treated to improve its workability, strength and aesthetics when used in buildings. The lecture was followed by a workshop which imparted hands-on experience, where

Mr Karpe and his team of skilled artisans mentored the participants on the basics of bamboo construction and the joinery details. The day concluded with the award of participation certificates to all the attendees and vote of thanks to Mr Karpe for sharing his comprehensive knowledge and experience.

CURTAIN RAISER

To mark the inauguration of the Summit, a curtain raiser dinner was organized on June 14, 2019, at The Radisson Blu Hotel, Nagpur. The welcome address was delivered by Mr Sanjay Seth, Chief Executive Officer, GRIHA Council, followed by a special address by Mr Ajit Sagane, Secretary (Works), Public Works Department, Government of Maharashtra. The presidential address was delivered by Shri Nitin Gadkari, Hon'ble Union Minister for Road Transportation and Highways and Minister of Micro, Small and Medium Enterprises,

Government of India. In addition to delivering a powerful address that reiterated his commitment toward sustainable development goals, the Hon'ble Minister inaugurated the exhibition and interacted with the representatives of product manufactures working in the sustainable construction space and aspiring students of the Institute of Design Education and Architectural Studies. The event concluded with a vote of thanks by Ms Shabnam Bassi, Secretary, GRIHA Council, followed by a cultural dance presentation by local artistes.





Mr Sanjay Seth
Chief Executive Officer,
GRIHA Council

Leadership shown by State of Maharashtra and the Public Works Department for new and existing buildings is commendable and needs to be applauded.

–Mr Sanjay Seth

Mr Sanjay Seth, Chief Executive Officer, GRIHA Council and Senior Director, Sustainable Habitat Programme, TERI, expressed his gladness in associating with the Public Works Department (PWD), Government of Maharashtra (GoM), for the 10th Regional GRIHA Summit and was delighted by the presence of Shri Nitin Gadkari, Hon'ble Union Minister for Road Transportation and Highways of India & Minister of Micro, Small and Medium Enterprises, Government of India. After welcoming all dignitaries, PWD officials, speakers, and participants to the event, Mr Seth reiterated the importance of sustainable development for buildings, stating that 'sustainability needed to be embedded into

buildings at the planning stage'. Acknowledging the efforts in adopting and implementing GRIHA norms in new and existing buildings, Mr Seth recognized the state-wide initiative displayed by PWD GoM, possible only due to the support offered by Shri Chandrakant Dada Patil, Hon'ble Minister for Revenue, Relief & Rehabilitation, Public Works (excluding Public Undertakings), Agriculture, Horticulture, Government of Maharashtra. The GRIHA Council has successfully been able to complete the rating process for 201 existing buildings, resulting in carbon emission reduction of three thousand tonnes - equivalent to eliminating 600 vehicles from the streets. His

concluding comments established the commitment of GRIHA Council to continue working with PWD GoM in future endeavours. Mr Seth thanked various ministries at the State level, MNRE, TERI, all colleagues of GRIHA Council for their continuous support and PWD GoM for being premier partner for the event.



Mr Ajit Sagane
Secretary (Works), Public Works
Department, Government of
Maharashtra

Public Works Department, Government of Maharashtra has been always keen to work towards innovative measures and worked as a team to implement the same.

–Mr Ajit Sagane

Mr Ajit Sagane, Secretary (Works) Public Works Department, Government of Maharashtra, commenced his special address by stating that PWD, GoM had long felt the need for environment-friendly construction practices in order to reduce the burden on natural resources and that collaboration with GRIHA Council for upcoming and existing buildings was one of the key initiatives taken in order to achieve that goal. In pursuance of this aim for green development, PWD GoM decided to get their existing buildings rated under the 'GRIHA for Existing Buildings' (GRIHA EB) rating system and set a target to transform 300 of these buildings within a relatively short time frame, thus reducing consumption of energy, water and improving indoor comfort. These 300 buildings were those that had already had their electrical fittings replaced by

Energy Efficiency Services Ltd (EESL) as part of an earlier initiative by PWD GoM. Mr Sagane expressed his delight in having completed the transformation of 201 of these existing buildings based on suggestions and guidelines outlined by GRIHA Council on solid waste management, indoor visual-thermal-acoustic comfort, maintenance, metering, monitoring and energy / water management. He expressed interest in incorporating additional strategies to improve the rating for projects that had achieved a lower star rating thus far. He emphasized the importance of communication within teams while working for these projects in order to ensure efficiency in subsequent phases. Mr Sagane concluded his address by thanking everyone for attending the event with great enthusiasm and applauded the efforts undertaken to make it a grand success.



Shri Nitin Gadkari,
Honourable Minister for Road
Transportation and Highways
and Minister of Micro, Small and
Medium Enterprises, Government
of India

To cater to current needs and issues we must follow two philosophies - 'Waste to wealth' and 'Knowledge is wealth'. Ethics, ecology and economy are the three Es to be considered, all the while looking for cost effective construction and non-conventional materials.

–Shri Nitin Gadkari

In his presidential address, Shri Nitin Gadkari, Hon'ble Union Minister for Road Transportation and Highways of

India & Minister of Micro, Small and Medium Enterprises, Government of India acknowledged the efforts of GRIHA Council and PWD in successfully organizing the 10th Regional GRIHA Summit. He congratulated Shri Chandrakant Dada Patil, Hon'ble Minister for Revenue, Relief & Rehabilitation, Public Works (excluding Public Undertakings), Agriculture, Horticulture, Government of Maharashtra for his vision and Mr Ajit Sagane, Secretary (Works) Public Works Department, Government of Maharashtra, for taking the PWD-GRIHA green building initiative forward and implementing it in new and existing buildings and creating an opportunity for the state of Maharashtra to set an example for the nation and instill pride in every PWD officer. Shri Gadkari was delighted with GRIHA Council's initiative to bestow the 'Rising Star' award on individuals who have shown extraordinary effort and dedication and further added that recognition for good work is a necessity to motivate project teams. He spoke at length about his earlier experiences as a minister with PWD GoM and expressed his affinity for out-of-the-box thinking and innovative ideas when it comes to awareness, training and self-development. Addressing current issues such as the ongoing water crises, Shri Gadkari emphasized the need for innovative ideas for water conservation to ensure increased storage capacity, waste water treatment systems and the reuse of water. He also shared his experiences with adopting various renewable energy systems for buildings such as biogas generation and stated that additional effort is required to be taken towards reducing the cost of construction and adopting non-conventional building materials. Shri Gadkari summed up his address by applauding the PWD-GRIHA initiative once again and exhorting all involved to continue with the same energy and enthusiasm.



Ms Shabnam Bassi,
Secretary, GRIHA Council

In her vote of thanks, Ms Shabnam Bassi, Secretary, GRIHA Council, expressed her gratitude to Shri Nitin Gadkari, Hon'ble Union Minister for Road Transportation and Highways of India & Minister of Micro, Small and Medium Enterprises, Government of India, and all the dignitaries, partners, guests and officials from PWD GoM, MNRE, TERI, and GRIHA Council for their participation in the 10th Regional GRIHA Summit. A significant milestone toward sustainable development- PWD-GRIHA EB rating activity and the culmination of this event would not have been a success without the collective vision of Shri Chandrakant Dada Patil-Hon'ble Minister for Revenue, Relief & Rehabilitation, Public Works (excluding Public Undertakings), Agriculture, Horticulture, Government of Maharashtra; Mr Manoj Saunik, Principal Secretary, PWD, GoM; and Mr Ajit Sagane, Secretary (Works) PWD, GoM and the chief engineers and officials of all regions in Maharashtra. Ms Bassi acknowledged the support offered by GRIHA evaluators and concluded on the note that effective delivery is a result of collaborative effort and that the PWD-GRIHA initiative had set an example for the same.



Special Addition: *Launch of 'Future Shift: Integrating Sustainability Initiatives in Functioning Buildings'*



Future Shift, a set of policies framed for PWD, GoM, by GRIHA Council, pertaining to environment friendly procurement and waste & water management was officially launched at the event.

Special Addition: *The GRIHA Rising Star Awards*



The GRIHA Council acknowledged the exemplary efforts of PWD officers for their contribution toward the PWD-GRIHA activity. Plaques were awarded to projects rated 5 star under the Existing Building Rating system.



During this flagship event, the GRIHA Council signed memorandums of understanding (MoUs) with the chief engineers of the seven regions of Maharashtra—Aurangabad, Nagpur, Nashik, Konkan, Pune, Amravati and Mumbai for the second phase of the PWD-GRIHA rating activity. A MoU was also signed with IDEAS College, Nagpur, for outreach of GRIHA among the student community.

Special Addition: Signing of Memorandum of Understanding



An interactive session was organized between the leadership of GRIHA Council and PWD GoM in order to brainstorm on the upcoming phases of the PWD-GRIHA Green Building Initiative. The meeting was presided over by Mr Ajit Sagane and Mr Sanjay Seth and included the seven Chief Engineers, senior officials from PWD & GRIHA Council and the GRIHA evaluators.

Special Addition: Chief Engineers Meet

14 June 2019

Venue: Hotel
Radisson
Blu, Nagpur





Mr Sanjay Seth,
Chief Executive Officer, GRIHA Council

Mr Seth welcomed the speakers and the participants for the 10th Regional GRIHA Summit 2019. He briefly outlined the topics to be covered during the day long summit and encouraged further participation in the quest toward increasing the green footprint across the country.



Mr Pratap Padode,
Founder & Executive Director, FIRST Construction Council & Smart Cities Council India

As India gears up to build 100 smart cities and take a giant stride in the infrastructure development of the country, the Smart Cities Council India aims to participate in this development process by providing all stakeholders the relevant information about the Smart Cities development in India. The aim of the India Chapter is to provide latest updates about what is happening on the smart cities development front, gather and disseminate resources, collate industry data and showcase achievements in this segment.



Mr Saurabh Diddi,
Director, Bureau of Energy Efficiency, Ministry of Power, Government of India

In his special address, Mr Diddi spoke at length about the impact of energy efficiency on sustainability and shared an in depth look into the efforts and practices of the Bureau of Energy Efficiency (BEE). The BEE aims to improve thermal comfort and reduce energy use in residential buildings by setting minimum building envelope performance standards to limit heat gains (for cooling dominated climates) and to limit heat loss (for heating dominated climates). Ensuring adequate natural ventilation potential and adequate daylight penetration also feature prominently in the approach towards incorporating energy efficiency.



Session 1 – Environmental Partnerships and Award Ceremony

Organizations have begun integrating environmental sustainability into their business strategies. Sustainability initiatives can present a complicated set of interconnected challenges and it is often necessary to form environmental partnerships in order to access additional resources in the form of expertise and technologies. This session aimed to provide a platform for sharing experiences and learnings garnered over the course of rating 300 existing public buildings across the state of Maharashtra.

In the months leading up to the Summit, PWD and GRIHA Council worked together to complete the first phase of Existing Building ratings. Mr Ajit Sagane, Secretary (Works) PWD GoM, put forward his vision and shared the experiences gained in this endeavour. Awards were distributed to projects that had completed the rating process.



Mr Ajit Sagane
Secretary (Works), Public Works Department, Government of Maharashtra



Ar. Sudhir P S
Senior Associate Architect,
Gayathri and Namith Architects

Drawing on two decades of experience, Mr Sudhir P S laid out the principles for sustainable design followed by Gayathri and Namith Architects (GNA)—organic planning, optimization of resources, the use of local materials and passive architectural strategies. Mr P S illustrated these principles by showcasing projects such as the Pana Global School in Mangalore, the Serai Resort in Chikmagalur and the Vedic Pathshala, Sringeri. He also spoke at length about the painstaking restoration and refurbishment of Sri Jayachamarajendra Art Gallery at the Jagan Mohan Palace in Mysore, conducted under the supervision of GNA.

Session II – Experience Sharing

The session aimed to provide a platform for discourse on the experiences shared and challenges faced over the course of implementing sustainable initiatives in existing government buildings owned and/or operated by PWD. The goal was to enhance active collaboration and streamline processes for subsequent phases of the PWD-GRIHA green building initiative.



Mr S S Salunkhe, Chief Engineer, Public Works Region, Pune, spoke about the 12 criteria on which the performance of existing buildings are measured by the GRIHA Council. Based on his own experiences with achieving a five star rating for a project under his supervision, Mr Salunkhe shared words of wisdom for all PWD officers on how a planned approach toward meeting the requirements for the EB rating could be beneficial. He shared a detailed analysis that laid out long term benefits in contributing to environmental sustainability balanced against the costs of implementation. His analysis conclusively established that it costs the Public Works Department INR 13 per square feet of built up space in order to implement effective sustainability initiatives.



Mr S S Salunkhe
Chief Engineer, Public
Works Division Pune



Ar. Namrata Mahal
Manager – Ratings, Reviews
and Business Development,
Western Region, GRIHA Council

Ar. Namrata Mahal spoke highly of the efforts made by the PWD officials in order to achieve EB rating for their buildings. She shared her experiences and learnings, on behalf of GRIHA Council, for the first phase of the activity and outlined the forward looking measures to ensure higher star rating in the framework.

Session III – Innovative Building Technology and Sustainable Materials

Session III was designed to feature innovative approaches toward materials, techniques and technologies for the implementation of sustainable initiatives in building construction. The session introduced work of the dynamic speakers from the Maharashtra Energy Development Agency (MEDA) and Mahindra Lifespace Developers Ltd.



Ms Kudarikar explained how the environmental impact of a building depends mainly on the technologies and materials used and detailed out the steps being taken by MEDA to induce ‘triple bottom line’ benefits—economic, social and environmental opportunities—long into the future. Considering the vast opportunities in fabrication, installation and maintenance of renewable energy systems, MEDA is in the process of introducing a six month certificate course in the field of solar thermal and solar photovoltaic energy.



Ms Jahnavi Parab
Senior Manager-
Sustainability, Mahindra
Lifespace Developers Ltd.

Ms Parab laid out a detailed three-pronged approach to sustainable urbanism – business responsibility, environment stewardship and community outreach. She explained how green buildings continue to optimize natural resource consumption across their life cycles and described in detail the various innovative actions taken by Mahindra Lifespace in this sphere.



Session IV – Small transformative solutions for environmental sustainability

This session was designed to provide an eye-opening insight into the positive impact of small scale innovation toward environmental sustainability featuring innovators in the fields of pollution control, eco-friendly development and sustainable materials.



Mr Sandeep Sonigra
Co-Founder, Orange County Group

Speaking on the theme of 'Small Transformative Solutions for Environmental Sustainability', Mr Sandeep Sonigra, co-founder of the Orange County Group, spoke at length about the initiatives undertaken by his organization in recent years. Mr Sonigra chose an upcoming project in Pune, Gathagram—India's first carbon neutral city—perhaps the organization's most ambitious endeavour till date, to illustrate his vision. With the provision of solar hot water and photovoltaics, energy efficient fixtures, effective water management and the substitution of cement with eco-friendly construction material, the project would stand as a testament to the viability of an ecologically and economically sustainable township. Solar passive design, a phytoid-based waste water treatment system, plantation of trees in the surrounding landscape beyond the project boundaries and efficient waste management are part of an eightfold approach toward achieving this ambitious goal.



Mr Sanjeev Karpe
Managing Director, Native Konbac Pvt Ltd.

Mr Sanjeev Karpe showcased the use of bamboo in the construction industry, it being one of the strongest building materials having a tensile strength that rivals steel and weight-to-strength ratio surpassing that of graphite. He demonstrated inspiring bamboo projects completed across India and abroad. The scale and success of his iconic structures mark a revolution in the use of bamboo as a mainstream construction material in India. Known as 'nature's steel', bamboo is not only known for its strength but also the rate of growth and replenishment making it a highly environment-friendly natural resource, he explained.



Mr Pavneet Singh Puri
Founder, Kurin Systems

Mr Puri spoke in great detail about the impacts of air pollution and Kurin systems' design for a 40-foot-tall air purifier christened 'City Cleaner' that provides clean air to 75,000 people living in the 3-km radius around it. Using multiple fans for air intake and layered filters for purification, the City Cleaner would contribute towards improving ambient air quality on an unprecedented scale. Kurin Systems has also tied up with one of the world leaders in manufacturing, Foxconn Technology Group, to develop an exclusive range of state-of-the-art indoor air purifiers.



संकल्पनेसाठी चाकोरीबाह्य प्रयत्न करा - ना. गडकरी

नद्या आणि नाल्यांवर पूल-कम-बंधारे बांधण्यावर भर

प्रतिनिधी / १४ जून

नागपूर : दिवसीयस काढण्या प्रदुषणावर नियंत्रण मिळविणे, विविध प्रकारच्या कार्बन उत्सर्जन करणाऱ्या बाबींवर नियंत्रण मिळविणे आवश्यक आहे. त्यामुळे नवनवीन संकल्पनांचा विचार करत हरित इमारतींच्या संकल्पनेसाठी अभियंत्यांनी चाकोरीबाह्य प्रयत्न करावेत, असे आवाहन केंद्रीय मंत्रित्व बाबूक मंत्री नितीन गडकरी यांनी राज्यातील अभियंत्यांना केले.

हरित रौडिसन ब्यू येथे आयोजित १०

या विभागीय ग्रिहा परिषदेमध्ये ते बोलत होते. यावेळी व्यासपीठावर ग्रिहा कौन्सिलचे मुख्य कार्यकारी अधिकारी संजय शेट, सार्वजनिक बांधकाम विभागाचे सचिव अजित सगणे, मुख्य अभियंता उल्हास देवडवार, एस. एस. साळुंखे आदी उपस्थित होते.

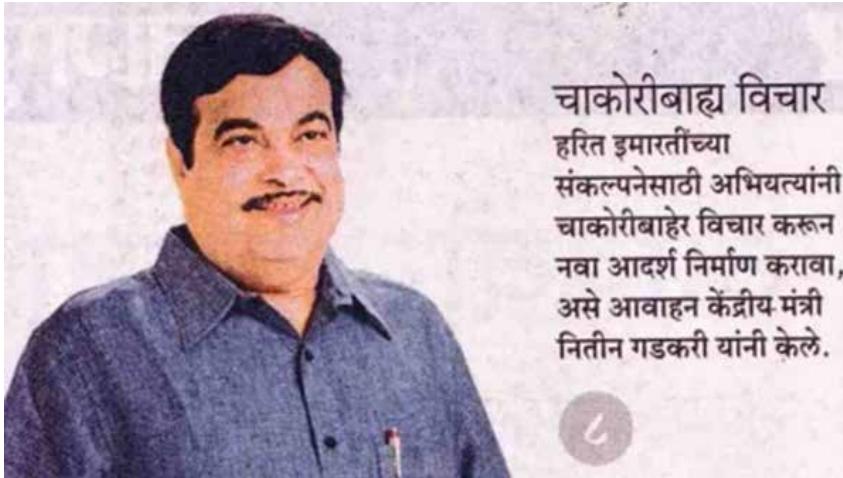
देण्यात येत आहे. आजमितीला राज्यात १७०० पूल-कम-बंधारे बांधले असल्याचे सांगितले.



यावेळी ना. गडकरी यांनी देशभरात राबवित असलेल्या नवनव्या आणि अनेकविध प्रकारच्या प्रकल्पांची माहिती दिली. राष्ट्रीय महामार्गाची निर्मिती करीत असताना नद्या, नाले यांच्या खोलीकरण आणि खोलीकरणातून होणारे जलसंचयन आजमितीला अत्यावश्यक ठरत आहे. रस्ते बांधकाम करताना राज्य तसेच देशातील पायथ्यावरील आणि दुष्परिणाम नसावा करणाऱ्या प्रकल्प असून, नद्या आणि नाल्यांवर पूल-कम-बंधारे बांधण्यावर भर

देण्यात येत आहे. आजमितीला राज्यात १७०० पूल-कम-बंधारे बांधले असल्याचे सांगितले. त्यांनी मुंबईजवळील एक नदीची पुनर्निर्माण झाली असून अशाप्रकारे काम केल्यामुळे दुष्काळी भागातले मोठ्या प्रमाणावर जलसंचयन होत आहे. त्यामुळे कुणी सिंचनात वाढ झाल्यामुळे शेतांच्यावेळी जीवनमान उंचावत असल्याचे गडकरी यांनी सांगितले. पूर्वी शिवडीतील सर्वत्र सर्व रस्ता जिथे डिजेलमुक्त करणार आहे तसेच ४५० बसरी यांनी मानले.

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Sakal, 15 June 2019, Page 1

हरित इमारती संकल्पनेसाठी चाकोरीबाह्य प्रयत्न करा



नितीन गडकरी यांचे आवाहन

नागपूर : दिवसीयस काढण्या प्रदुषणावर नियंत्रण मिळविणे, विविध प्रकारच्या कार्बन उत्सर्जन करणाऱ्या बाबींवर नियंत्रण मिळविणे आवश्यक आहे. त्यामुळे नवनवीन संकल्पनांचा विचार करून हरित इमारतींच्या संकल्पनेसाठी अभियंत्यांनी चाकोरीबाह्य प्रयत्न करावेत, असे आवाहन केंद्रीय मंत्रित्व बाबूक मंत्री नितीन गडकरी यांनी राज्यातील अभियंत्यांना केले.

हरित रौडिसन ब्यू येथे दहाव्या ग्रिहा कौन्सिलचे मिळविणे, विविध प्रकारच्या कार्बन उत्सर्जन करणाऱ्या बाबींवर नियंत्रण मिळविणे आवश्यक आहे. त्यामुळे नवनवीन संकल्पनांचा विचार करून हरित इमारतींच्या संकल्पनेसाठी अभियंत्यांनी चाकोरीबाह्य प्रयत्न करावेत, असे आवाहन केंद्रीय मंत्री नितीन गडकरी यांनी केले.

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हरित इमारतींसाठी चाकोरीबाह्य विचार करावा

गडकरी : दहावी विभागीय ग्रिहा परिषद

नागपूर, ता. १४ : हरित इमारतींच्या संकल्पनेसाठी अभियंत्यांनी चाकोरीबाहेर विचार करून नवा आदर्श निर्माण करावा, असे आवाहन केंद्रीय मंत्रित्व बाबूक मंत्री नितीन गडकरी यांनी आज केले. चाकोरीबाह्य विचार केल्यास यश, आनंद, प्रतिष्ठेसह नवीन काम केल्याचे समाधान मिळेल, अशी पुस्तीही त्यांनी जोडली.

येथील दहाव्या विभागीय ग्रिहा परिषदेमध्ये ते बोलत होते. यावेळी ग्रिहा कौन्सिलचे मुख्य कार्यकारी अधिकारी संजय शेट, सार्वजनिक बांधकाम विभागाचे सचिव अजित सगणे, मुख्य अभियंता उल्हास देवडवार, एस. एस. साळुंखे, शबनम बस्सी उपस्थित होते.

गडकरी म्हणाले, वाढत्या प्रदुषणासह विविध प्रकारच्या कार्बन उत्सर्जन करणाऱ्या बाबींवर नियंत्रण मिळविणे गरजेचे आहे. यामुळे नवनवीन संकल्पनांचा विचार करत हरित इमारतींच्या संकल्पनेसाठी अभियंत्यांनी चाकोरीबाह्य प्रयत्न करावेत.

राष्ट्रीय महामार्गाची निर्मिती करताना नदी, नाल्यांच्या खोलीकरण आणि रुंदीकरणातून होणारे जलसंचयन आजमितीला अत्यंत उपयुक्त ठरत आहे. रस्ते बांधकाम करताना राज्य तसेच देशातील पाणीटंचाई आणि दुष्काळावर मात करण्याचा प्रयत्न आहे. नद्या आणि नाल्यांवर पूल-कम-बंधारे बांधण्यावर भर देण्यात येत आहे. आजमितीला राज्यात १७०० पूल-कम-बंधारे बांधले आहेत. यामुळे दुष्काळी



वधां रोड : ग्रिहा परिषदेत बोलताना केंद्रीय मंत्री नितीन गडकरी. शेजारी उल्हास देवडवार, शबनम बस्सी, अजित सगणे, एस. एस. साळुंखे.

भागामध्ये मोठ्या प्रमाणावर जलसंचयन होत आहे. हरित इमारती संकल्पनेमध्ये टाकून बसताना वापर करताना येईल, यावर संशोधन व्हावे, असेही ते म्हणाले. समुद्राच्या पाण्यावर कांडला येथे, सौर पॅनल बसवून वीजनिर्मिती केल्याचे सांगत भविष्यात कांडला, तुतीकोरन, पंहाड येथे अशाप्रकारचे

प्रकल्प उभारण्यावर भर देण्यात येणार आहे. शहरातील गटाराच्या पाण्यावर प्रक्रिया करून ते शेतीसाठी वापरणार असल्याचेही त्यांनी सांगितले. यावेळी संजय शेट यांचेही भाषण झाले. प्रास्ताविक सचिव अजित सगणे यांनी केले. पुणे येथील राजभवन, सोलापूर येथील ग्रामीण रुग्णालय आणि वाशीम

जिल्ह्यातील मालेगाव जहांगीरच्या सार्वजनिक बांधकाम विभागाच्या विश्रामगृहाला पंचतारांकित मानांकन मिळाल्याबद्दल संबंधितांना गडकरी यांच्या हस्ते पुरस्कृत करण्यात आले. संचालन श्वेता शेलगावकर यांनी केले. आभार शबनम बस्सी यांनी मानले.

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हरित वास्तु निर्मिती में अभियंता नए तकनीक का उपयोग करें - गडकरी



नागपूर : हरित वास्तु निर्मिती में निर्माताकर्मियों को नए तकनीक का उपयोग करने के लिए आवाहन किया गया है। इस अवसर पर विभाग के सचिव अजित सगणे, राष्ट्रीय कौन्सिल के मुख्य कार्यकारी अधिकारी संजय शेट उपस्थित थे। महाराष्ट्र राष्ट्रीय महामार्ग प्राधिकरण की ओर से सहकर्मियों का निर्माण किया जा रहा है। इसमें शामिल व नदी का महाराष्ट्रकर्मियों का उपयोग करने के लिए आवाहन किया जा रहा है।

इस अवसर पर विभाग के सचिव अजित सगणे, राष्ट्रीय कौन्सिल के मुख्य कार्यकारी अधिकारी संजय शेट उपस्थित थे। महाराष्ट्र राष्ट्रीय महामार्ग प्राधिकरण की ओर से सहकर्मियों का निर्माण किया जा रहा है। इसमें शामिल व नदी का महाराष्ट्रकर्मियों का उपयोग करने के लिए आवाहन किया जा रहा है।

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हरित संकल्पनेसाठी चाकोरीबाह्य प्रयत्न करा

नितीन गडकरीचे आवाहन

दहाव्या गृहपरिषदेत करार

नागपूर, १४ जून

वाढत्या प्रदुषणावर नियंत्रण मिळविणे, विविध प्रकारच्या कार्बन उत्सर्जन करणाऱ्या बाबींवर नियंत्रण मिळविणे आवश्यक आहे. त्यामुळे नवनवीन संकल्पनांचा विचार करून हरित इमारतींच्या संकल्पनेसाठी अभियंत्यांनी चाकोरीबाह्य प्रयत्न करावे, असे आवाहन केंद्रीय मंत्री नितीन गडकरी यांनी राज्यातील अभियंत्यांना केले. हरित रौडिसन ब्यू येथे आयोजित १० व्या विभागीय गृहपरिषदेमध्ये ते बोलत होते.

यावेळी व्यासपीठावर गृह



कौन्सिलचे मुख्य कार्यकारी अधिकारी संजय शेट, सार्वजनिक बांधकाम विभागाचे सचिव अजित सगणे, मुख्य अभियंता उल्हास देवडवार, एस. एस. साळुंखे, शबनम बस्सी यांची प्रमुख उपस्थिती होती. नितीन गडकरी यांनी यावेळी देशभरात राबविण्यात येत असलेल्या नवनव्या (पान ४ वर) ▶

सामंजस्य करारावर स्वाक्षऱ्या यावेळी संजय शेट यांनी महाराष्ट्र राज्य हरित इमारती संकल्पना राबविण्यात केंद्र शासन अग्रक्रमावर आहे. त्यामुळे महाराष्ट्रासोबत केंद्र शासनाच्या बांधकाम विभागाने सामंजस्य करारावर आज स्वाक्षऱ्या केल्याचे सांगितले. महाराष्ट्रातील औरंगाबाद, अमरावती, नाशिक, पुणे, मुंबई आणि नागपूर या सार्वजनिक बांधकाम विभागांसोबत सामंजस्य करार करण्यात आला असल्याचे त्यांनी सांगितले.

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PROJECTS RATED

Sr. No.	Project Name	Location	Region	Rating
1	Shri Chatrapati Shivaji Maharaj Sarvopchar Rugnalaya	Solapur	Pune	3 Star
2	North Tahsil Office	Solapur	Pune	4 Star
3	South Tahsil Office	Solapur	Pune	3 Star
4	Animal Husbandry Polyclinic	Solapur	Pune	4 Star
5	Rest House, Bidkin	Aurangabad	Aurangabad	3 Star
6	Tahsil Office, Paithan	Aurangabad	Aurangabad	3 Star
7	30 Bedded Rural Hospital, Renapur	Latur	Aurangabad	3 Star
8	PWD Rest House Building, Ner	Amravati	Amravati	3 Star
9	Rest House	Amravati	Amravati	4 Star
10	Nandagiri State Rest House, Vile parle	Mumbai	Mumbai	3 Star
11	Bandhkam Bhavan, Kurla	Mumbai	Mumbai	1 Star
12	Sahyadri State Guest House	Mumbai	Mumbai	3 Star
13	Government Rest House, Bandra	Mumbai	Mumbai	3 Star
14	Regional Referral Hospital	Nashik	Nashik	1 Star
15	SP Office Rural	Nashik	Nashik	1 Star
16	Indrayani Hostel, MPA	Nashik	Nashik	3 Star
17	Godavari Hostel, MPA	Nashik	Nashik	3 Star
18	Administrative Building, MPA	Nashik	Nashik	3 Star
19	Dynanmandir Building, MPA	Nashik	Nashik	2 Star
20	PW Division	Aurangabad	Aurangabad	3 Star
21	PWD Rest House, Warud	Amravati	Amravati	3 Star
22	PWD Rest House	Fardapur	Aurangabad	3 Star
23	Sub Treasury Office	Jath, Sangli	Pune	3 Star
24	Circuit House	Taluka Latur	Aurangabad	2 Star
25	New VVIP Circuit House	Taluka Latur	Aurangabad	3 Star
26	District Court Building	Satara	Pune	3 star

Sr. No.	Project Name	Location	Region	Rating
27	District Treasury Office	Satara	Pune	4 star
28	Bandhkam Bhavan	Satara	Pune	4 star
29	Administrative Building	Kagal, Kolhapur	Pune	3 Star
30	Additional Suite Rest House	Tasgaon, Sangli	Pune	3 Star
31	PWD Rest House, Anjangaon Surji	Amravati	Amravati	3 Star
32	Tasgaon Court	Tasgaon, Sangli	Pune	3 Star
33	Collector Office	Hingoli	Aurangabad	3 Star
34	Nurse's Training Center	Satara	Pune	3 Star
35	Government Rest House (Sagar)	Vengurla	Konkan	4 star
36	Rural Hospital	Gondpipri	Nagpur	3 star
37	Rest house	Gondpipri	Nagpur	3 star
38	Rural hospital	Ballarpur	Nagpur	4 star
39	SD hospital	Warora	Nagpur	3 star
40	Rural Hospital	Yawat	Pune	3 star
41	Rural Hospital	Kagal	Pune	4 star
42	Rest House	Kagal	Pune	3 star
43	Rural Hospital	Madha	Pune	4 star
44	Rural Hospital	Shetfal	Pune	4 star
45	Rural Hospital	Karkamb	Pune	5 star
46	Ashakiran Mahila Hostel	Karad	Pune	4 star
47	Tahsil Building	Mangalwedha	Pune	4 star
48	Ravi Bhavan	Nagpur	Nagpur	3 star
49	Central Building	Kadegaon	Pune	3 star
50	Extension of Collector Office Building	Satara	Pune	4 star
51	Central Building	Palus	Pune	3 star
52	Darna A Hostel MPA	Nashik	Nashik	3 star
53	Darna B Hostel MPA	Nashik	Nashik	3 star
54	East Hostel MPA	Nashik	Nashik	3 star
55	Girna Hostel MPA	Nashik	Nashik	2 star
56	I.P. Mess MPA	Nashik	Nashik	3 star
57	Main Building MPA	Nashik	Nashik	3 star
58	GST Bhavan	Hingoli	Aurangabad	3 Star
59	Government Nursing College	Beed	Aurangabad	2 star
60	Government Rest House	Kalyan	Konkan	3 star

Sr. No.	Project Name	Location	Region	Rating
61	Rural Hospital Manor	Manor	Konkan	3 star
62	Niyojan Bhavan	Thane	Konkan	3 star
63	Collector Office	Thane	Konkan	3 star
64	Administrative Building for Additional S. P. Office at Ambajogai Taluka	Ambajogai, Beed	Aurangabad	4 star
65	District Hospital	Nandurbar	Nashik	2 star
66	Government Rest House	Thane	Konkan	3 star
67	I. G. Office	Kolhapur	Pune	3 star
68	Rajbhavan	Pune	Pune	5 star
69	New VVIP Circuit House	Kolhapur	Pune	4 star
70	Rural Hospital	Radhanagri, Kolhapur	Pune	3 star
71	Tahsil Office	Radhanagri, Kolhapur	Pune	2 star
72	Tahsil Office	Shahuwadi, Kolhapur	Pune	4 star
73	Sub District Hospital	Daund	Pune	3 star
74	Central Administrative Building	Hingoli	Aurangabad	3 Star
75	PWD Rest House	Hingoli	Aurangabad	3 Star
76	PWD Office	Hingoli	Aurangabad	3 Star
77	Rest House	Murbad	Konkan	2 star
78	West Hostel, MPA	Nashik	Nashik	3 star
79	South Hostel, MPA	Nashik	Nashik	2 star
80	MPA Hospital	Nashik	Nashik	3 star
81	MPA New Gym	Nashik	Nashik	2 star
82	Stage Building (Bandhkam Bhavan)	Nashik	Nashik	4 star
83	PWD Rest House	Arni	Amravati	4 star
84	PWD Rest House	Malegaon Jahangir, District Washim	Amravati	5 star
85	Rest House	Karanja Lad	Amravati	4 star
86	Rural Hospital	Palghar	Konkan	4 star
87	Main Building Ayurvedic College	Osmanabad	Aurangabad	2 star
88	Girls' Hostel Ayurvedic College	Osmanabad	Aurangabad	3 star
89	New Collector Office	Osmanabad	Aurangabad	3 star

Sr. No.	Project Name	Location	Region	Rating
90	Circuit House, Shingoli	Osmanabad	Aurangabad	2 star
91	Tahsil Office	Ballarpur	Nagpur	3 star
92	Rural Hospital	Nagbhid	Nagpur	3 star
93	Tahsil office	Nagbhid	Nagpur	2 star
94	Rest House	Sindhewahi	Nagpur	4 star
95	VIP Rest House	Sindhewahi	Nagpur	4 star
96	Rural Hospital	Sindhewahi	Nagpur	3 star
97	Sub Division Office Building	Navapur	Nashik	3 star
98	Office of Executive Engineer, P.W.Division	Nandurbar	Nashik	2 star
99	Circuit House	Nandurbar	Nashik	2 star
100	District Court	Nandurbar	Nashik	2 star
101	Government Polytechnic	Nandurbar	Nashik	3 star
102	Superintendent of Police Office	Nandurbar	Nashik	3 star
103	Veterinary Polyclinic	Navapur	Nashik	3 star
104	Administrative Building	Rajura	Nagpur	2 star
105	Rest House	Rajura	Nagpur	3 star
106	Rest House	Warora	Nagpur	2 star
107	Government Rest House No.1	Sangli	Pune	3 star
108	Nag Bhavan	Nagpur	Nagpur	4 star
109	Hyderabad House	Nagpur	Nagpur	3 star
110	New Hyderabad House	Nagpur	Nagpur	3 star
111	Regional Mental Hospital, Yerawada	Pune	Pune	2 star
112	Chest Hospital, Aundh	Pune	Pune	2 star
113	Family and Welfare Hostel	Pune	Pune	2 star
114	Family and Welfare Training Center	Pune	Pune	2 star
115	Land Record Office	Nandurbar	Nashik	2 star
116	District Consumer Court	Nandurbar	Nashik	2 star
117	Administrative Building, ITI	Nandurbar	Nashik	2 star
118	Office Of District Collector	Nandurbar	Nashik	2 star
119	Library, SRTR Medical College	Ambajogai, Beed	Aurangabad	2 star
120	Nurse's Training Center, SRTR Medical College	Ambajogai, Beed	Aurangabad	2 star
121	New Circuit House Building	Washim	Amravati	3 star
122	PWD Rest House, Darwha	Darwah	Amravati	3 star
123	PWD Rest House	Umarkhed	Amravati	4 star

Sr. No.	Project Name	Location	Region	Rating
124	PWD Rest house	Pusad	Amravati	4 star
125	PWD Rest House	Pandharkawada	Amravati	4 star
126	VIP Rest House	Yavatmal	Amravati	4 star
127	Old Rest House	Yavatmal	Amravati	3 star
128	Central Administrative Building	Kalamb, Dist Yavatmal	Amravati	3 star
129	PWD Rest House	Ghatanji Dist., Yavatmal	Amravati	3 star
130	PWD Rest House	Barsi Takli Dist. Akola	Amravati	3 star
131	PWD Rest House	Dhaba Dist. Akola	Amravati	3 star
132	RURAL HOSPITAL ISLAMPUR (MAIN BUILDING)	Urun Islampur	Pune	3 star
133	Divisional Commissioner Office	Nashik	Nashik	4 star
134	Rural Hospital, Saoli	Saoli Dist. Chandrapur	Nagpur	2 star
135	Sub District Hospital Mul	Mul Dist. Chandrapur	Nagpur	3 star
136	Tahsil Office	Saoli Dist. Chandrapur	Nagpur	2 star
137	Vidhan Bhavan	Nagpur	Nagpur	3 star
138	Family Court	Nagpur	Nagpur	4 star
139	District Court	Nagpur	Nagpur	2 star
140	Skin ward in T.B. Hospital premises of G.M.C.H. Nagpur.	Nagpur	Nagpur	3 star
141	Superspeciality Hospital	Nagpur	Nagpur	2 star
142	Government Medical College & Hospital	Nagpur	Nagpur	1 star
143	College Building at Government Aayurvedic College and Hospital	Nagpur	Nagpur	3 star
144	Administrative Building Mental Hospital	Nagpur	Nagpur	3 star
145	ESIS 150 Need Hospital	Nagpur	Nagpur	2 star
146	Rajbhawan	Nagpur	Nagpur	3 star
147	Sub District Hospital	Ramtek	Nagpur	2 star
148	Out patient Department OPD Building at old Rural Hospital	Katol	Nagpur	3 star
149	Collector Office	Nagpur	Nagpur	2 star
150	PWD Rest House	Murtizapur	Amravati	3 star
151	SP Rural N10 Cidco	Aurangabad	Aurangabad	2 star

Sr. No.	Project Name	Location	Region	Rating
152	Collector Office	Aurangabad	Aurangabad	3 star
153	Sasoon General Hospital	Pune	Pune	1 star
154	Tahsil office	Lohara	Aurangabad	3 star
155	Tahsil office	Omerga	Aurangabad	2 star
156	PWD Rest House	Bhokardan, Jalna	Aurangabad	4 star
157	PWD Rest House	Kankavali	Konkan	4 star
158	Tahsil Office	Aurangabad	Aurangabad	3 Star
159	Main District Hospital at Aundh	Pune	Pune	3 Star
160	CE Office PW Region	Nagpur	Nagpur	2 star
161	VIP Rest House	Wani	Amravati	3 star
162	Bandhkam Bhavan CE Office Premises	Nagpur	Nagpur	4 star
163	Collector Office	Bhandara	Nagpur	3 star
164	Deputy Chief Architect Office	Nagpur	Nagpur	4 star
165	New Administrative Building	Nariman point	Mumbai	2 star
166	Priyadarshani Ladies Hostel	Nagpur	Nagpur	2 star
167	SE N.H Circle Office, CE office Premises	Nagpur	Nagpur	4 star
168	SE Vigilance & Quality Control	Nagpur	Nagpur	2 star
169	New Visawa Government rest House	Worli	Mumbai	3 star
170	PWD Rest House	Patur Dist Akola	Amravati	3 star
171	PWD Rest House, Maregaon	Maregaon Dist Yavatmal	Amravati	3 star
172	PWD Rest house	Ralegaon Dist Yavatmal	Amravati	3 star
173	PWD Rest house	Babhulgaon Dist Yavatmal	Amravati	3 star
174	PWD Rest house	Chimthane Dist Dhule	Nashik	4 star
175	Tahsil Office	Palghar	Konkan	3 star
176	PWD Green building	Nashik	Nashik	3 star
177	ITI Building	Butibori	Nagpur	2 star
178	Administrative Building & Training Center (Police Dept)	Suraburdi	Nagpur	3 star
179	Rural hospital	Narkhed	Nagpur	2 star
180	Rest House	Chiplun	Konkan	3 star
181	Rest House	Dapoli	Konkan	4 star
182	Administrative Building No.1	Nagpur	Nagpur	1 star

Sr. No.	Project Name	Location	Region	Rating
183	Divisional Commissioner Office	Nagpur	Nagpur	2 star
184	Administrative Building No 2	Nagpur	Nagpur	2 star
185	Central Building	Sangli	Pune	3 star
186	District Jail Administrative Building	Nandurbar	Nashik	2 star
187	Tahsil Office	Nandurbar	Nashik	2 star
188	Tahsil Office	Nanded	Aurangabad	3 star
189	Collector office	Nanded	Aurangabad	2 star
190	Rest House	Guhagar	Konkan	2 star
191	Chief Engineer Office	Amravati	Amravati	3 Star
192	Executive Engineer PWD and R.P.D. Sub Division No.1,2,3	Amravati	Amravati	3 Star
193	Executive Engineer (Electrical) & Deputy Engineer(Electrical)	Amravati	Amravati	3 Star
194	Sub Divisional Engineer, P.W. Sub Division No.1,2 and construction	Amravati	Amravati	3 Star
195	Civil Court Building	Tumsar, Bhandara	Nagpur	3 star
196	District Court (New) Building	Bhandara	Nagpur	3 star
197	Labour and Industrial Court	Nagpur	Nagpur	4 star
198	Sant Muktabai Government Girls Hostel	Nagpur	Nagpur	3 star
199	Rural Hospital	Tumsar, Bhandara	Nagpur	2 star
200	Government Dental College and Hospital Building at GMCH	Nagpur	Nagpur	4 star
201	New Maharashtra Sadan	New Delhi	New Delhi	4 star

THE WAY FORWARD...

The summit concluded on a positive note, having created the opportunity for individuals representing a diverse spectrum of backgrounds to interact and share ideas on the topic of sustainability. Future commitments were voiced by the Public Works Department, Government of Maharashtra to further the cause of increasing the green footprint in the state. The event provided a platform for alternative materials and technologies

to be showcased and environment friendly initiatives and policies to be discussed. As volunteers at the event, students of architecture were provided with exposure to the green building industry and were able to present their work to the speakers, participants and dignitaries at the Summit. As a whole, the 10th Regional GRIHA Summit paved the way for greater awareness and impact in the sphere of sustainability.



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- **Bharat Bhushan**, *Assistant Administrative Officer*
- **Gautam Aswani**, *Deputy Manager- Northern Zone*
- **K Ashok Kumar**, *Senior Secretary- Northern Zone*
- **K Anitha**, *Secretary- Southern Zone*
- **Kamal Kishor**, *Deputy Manager- Northern Zone*
- **Ketaki Rairikar**, *Manager (PCMC)- Western Zone*
- **Kishor Kumar**, *Secretary- Northern Zone*
- **Namrata Mahal**, *Manager-Western Zone*
- **Parikshit Mudholkar**, *Project Officer- Western Zone*
- **Pratidnya Bhuite**, *Project Officer- Western Zone*
- **Ravi Kukriya**, *Deputy Manager- Northern Zone*
- **Santhosh Ramkumar**, *Senior Project Officer- Northern Zone*
- **Sanchit Malik**, *Project Officer- Northern Zone*
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- **Sanjay Seth**, *Chief Executive Officer*
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